

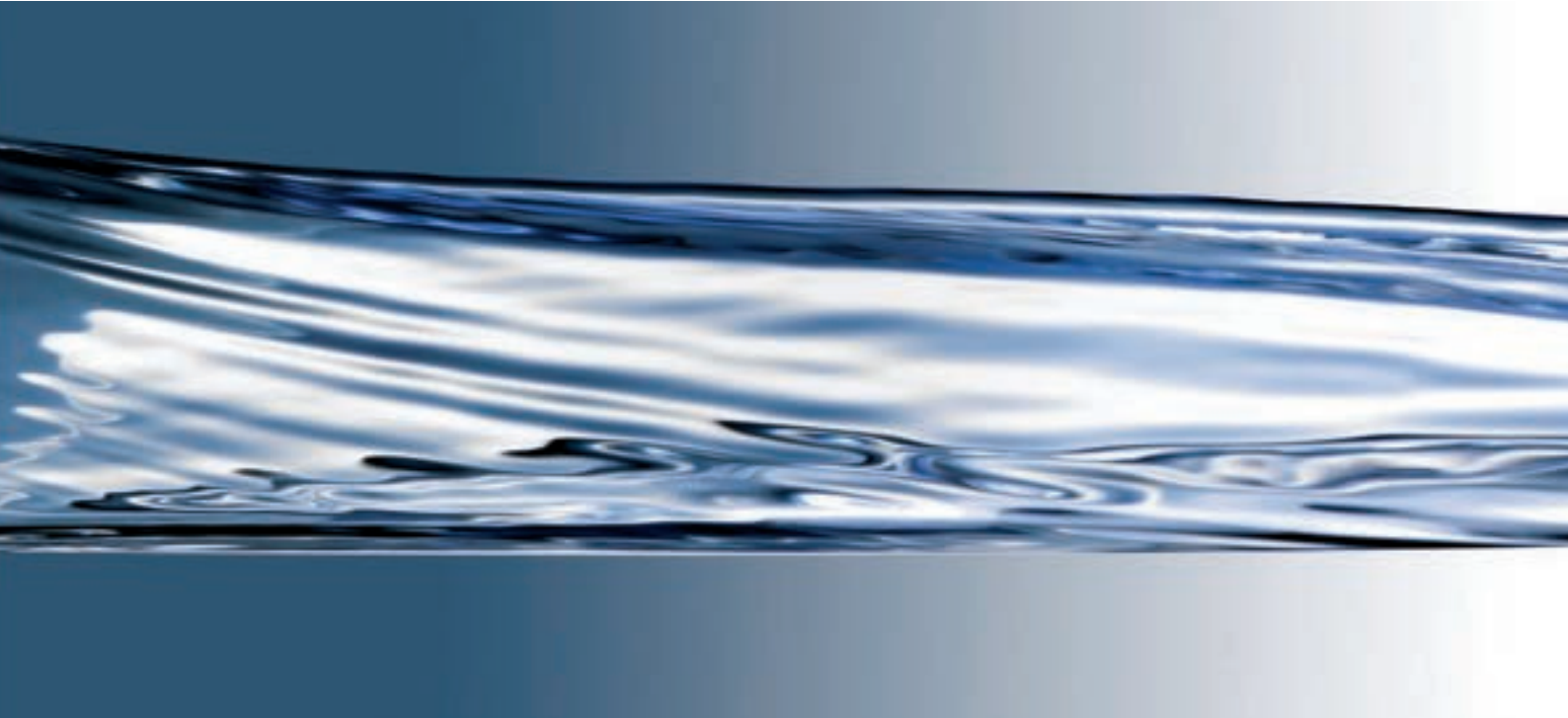


Katalog  
Catalog  
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Каталог

**2022-23**

# Kompetenz kraft Konzentration

Expertise powered by concentration



## Systemlösungen für die professionelle Reinigungstechnik

System solutions for professional cleaning technology



The choice of perfection

# General information

## General information

### First order

First orders have to be placed with us in written form. Exclusively specialist dealers are served by us.

### Ordering by phone/fax/e-mail/Online-shop

The simplest and safest way of ordering from R+M is via our Online-shop.

Subsequent incoming orders are entered as new ones and are separately processed. Unfortunately, we cannot agree with amending an order that has already been confirmed.

**Online-shop:** [shop.rm-suttner.com](http://shop.rm-suttner.com)

**Phone:** +49 (0) 2051-94857-0

**Fax:** +49 (0) 2051-94857-3400

**E-mail:** [info@rm-suttner.com](mailto:info@rm-suttner.com)

### Business hours

Monday to Thursday 8 a.m. - 5 p.m.

On Fridays 8 a.m. - 3.45 p.m.

### Address

**R+M de Wit GmbH**

Heidestraße 11

42549 Velbert

Germany

### Special requests

Products that are obtained specially for you or parts that are not included in our catalogue cannot be returned.

### Online-shop

The very latest information about new products are also provided on our web site [shop.rm-suttner.com](http://shop.rm-suttner.com).

If you subscribe to our newsletter you are regularly and automatically informed about any news.


### Catalogue

Please order the „neutral“ catalogue for your customers! R+M Nr. 980 005 for 5.00 € per piece.

[www.rm-suttner.com](http://www.rm-suttner.com)  
[shop.rm-suttner.com](http://shop.rm-suttner.com)



### Despatch

Despatch is effected by parcel service. Single products which are heavier than 30 kg as well as bulky goods are despatched by forwarding companies. These items are marked with the  symbol.

On request we can also despatch consignments by express carriage forward. As smaller quantities cause extremely high costs please note our minimum order value of € 100,-.

Delivery is effected FCA – Free Carrier Velbert.

Packaging and carriage per shipment are as follows:

Category	1	1	2
Country	D	FR/AT/BE/ NL/IT	DK/SE/ES/LT/CZ/SF/PL/ NO*/CH*
Shipment by UPS	€ 8,-	€ 12,-	€ 25,-
Shipment by forwarder	€ 35,-	€ 57,-	€ 79,-
* Customs clearance by forwarder	-	+ € 35,-	+ € 35,-
* Customs clearance by UPS	-	+ € 25,-	+ € 25,-
** Different delivery address	+ € 8,-	+ € 8,-	+ € 8,-

\*\* Free when ordering via the Online-shop

**Category 1:** Charge per shipment of max. 2 parcels or 50 kg, the shipment is carried out by a forwarder in case of exceedance.

**Category 2:** Charge per parcel up to 30 kg, the shipment is carried out by a forwarder in case of exceedance.

**Express deliveries and all other countries:** at cost

### Return consignments

As a matter of principle unused goods or goods that you complain about have to be returned carriage paid after having applied for. In this case, please ask for our application form for return consignments. Please note that consignments sent to us carriage forward are not accepted.

### Additional deliveries

Due to our wide range of products it may happen that products are not obtainable for a short time. These products are then sent to you together with one of your next orders.

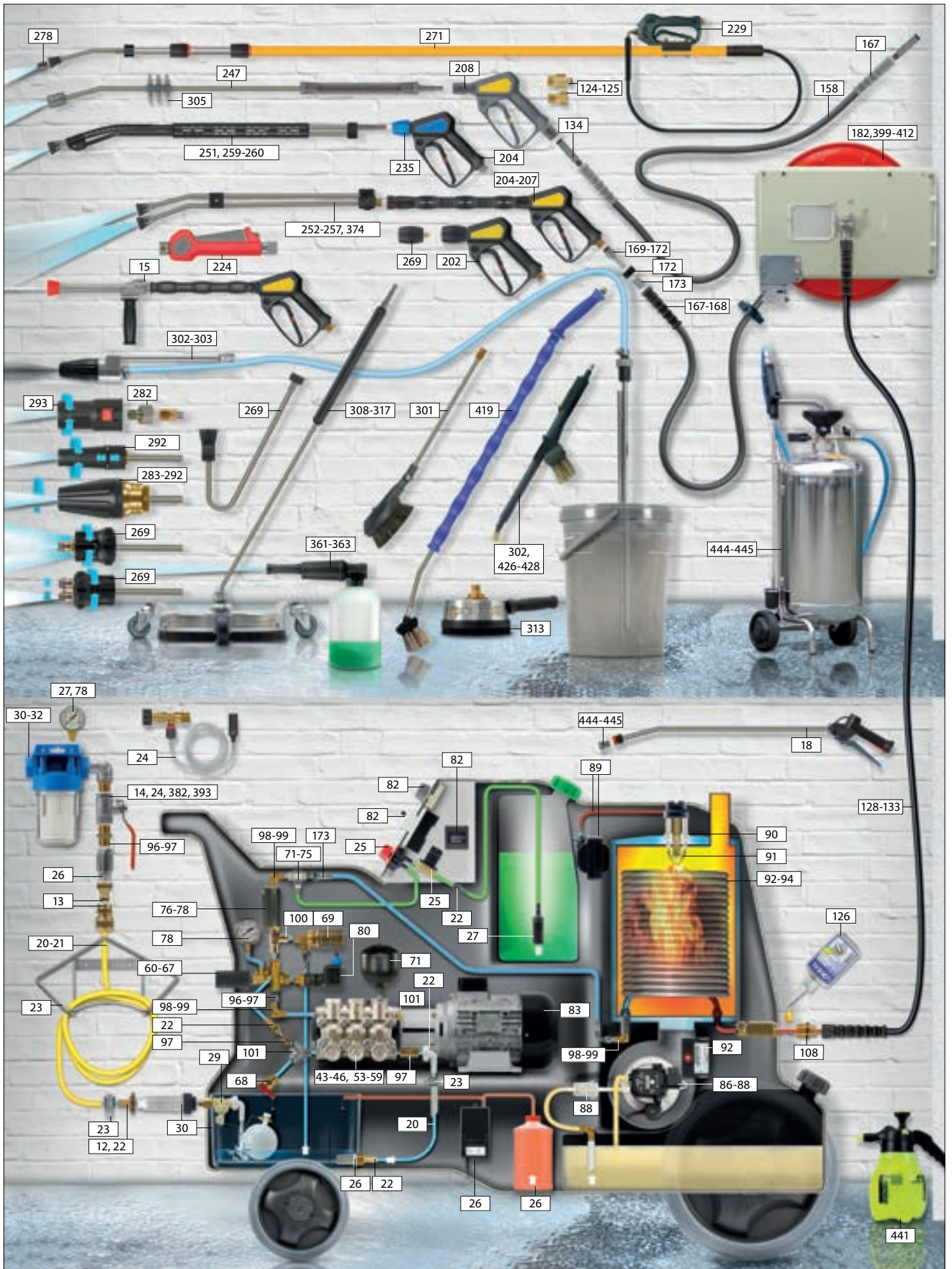
R+M high quality spare parts are obtained from well-established manufacturers. As a rule they are not original spare parts. The original order numbers and the indication of other information are exclusively for your guidance and furthermore they are not intended for the general use, e.g. invoices addressed to end users. In case of mentioning the original order numbers in your orders it cannot be assumed that the products ordered are original spare parts. Original spare parts are supplied when they are especially offered as those in our catalogue or in other mailing pieces such as special offers or newsletters.

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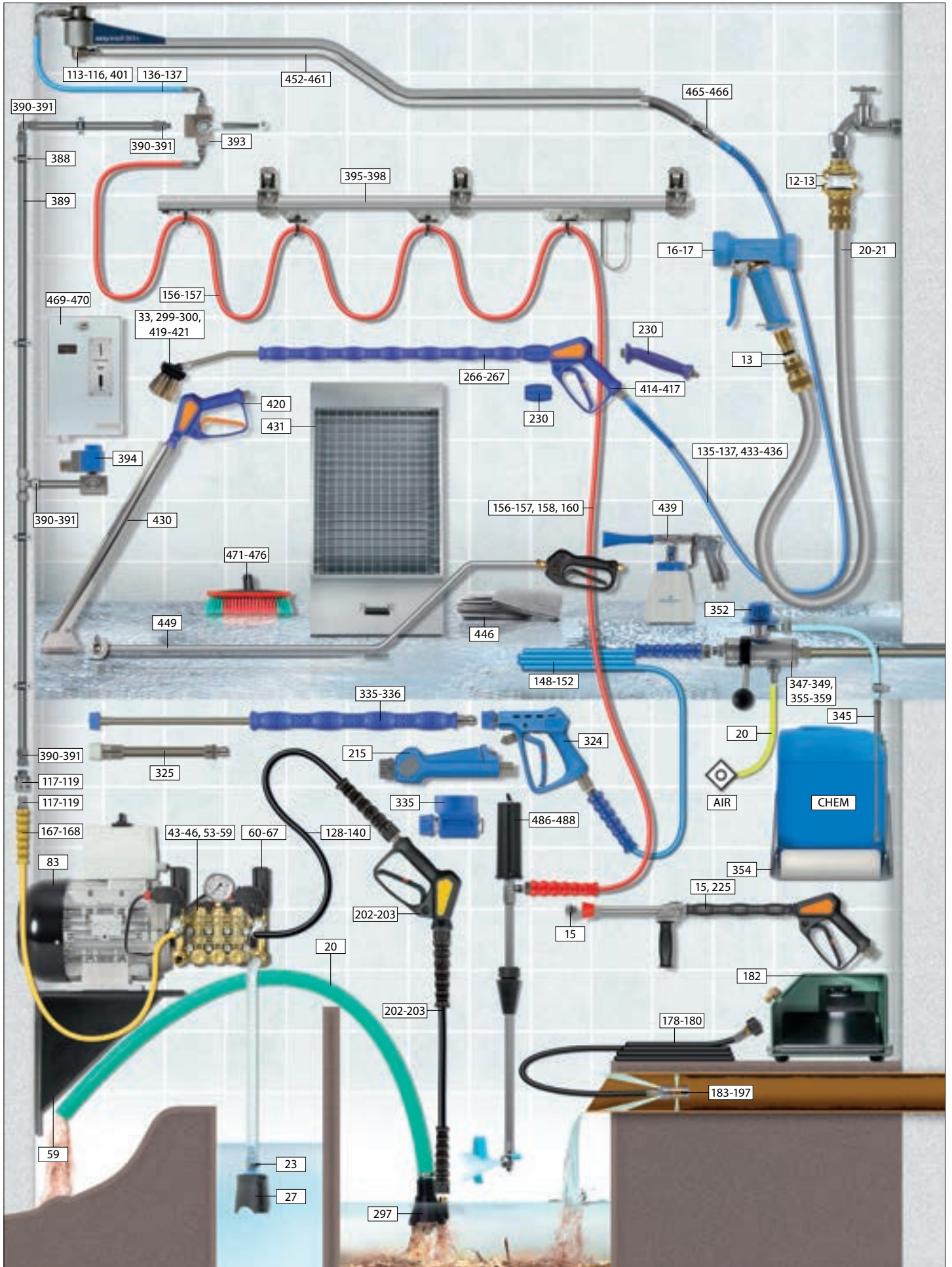


# General map





# General map

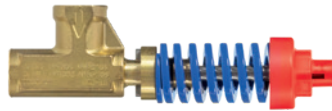


# New products

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Crevice tool holder, page 500



ST-83.2 cold fog device 2 liters, page 364



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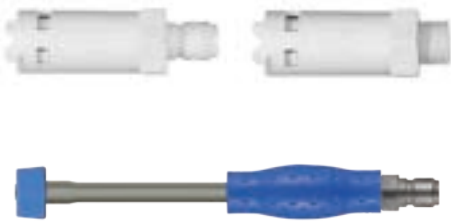
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# New products

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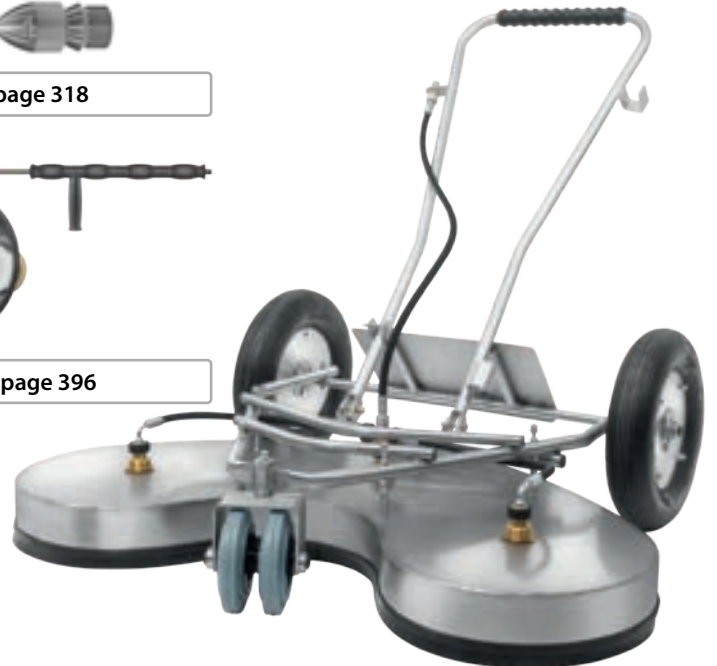
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Bayonet quick couplings

Couplings with tail



Straight. Brass



Swivel straight. Brass



Suction coupling \*. Brass

Couplings with male and female thread



M thread. Brass



F thread. Flat seal. Brass

DN
10 mm (3/8")
13 mm (1/2")
16 mm (5/8")
19 mm (3/4")
25 mm (1")
32 mm (1.1/4")
38 mm (1.1/2")

R+M Nr.	ⓘ
720 05	45
720 10	45
720 15	45
720 20	45
720 30	51
720 40	62
720 50	68

R+M Nr.	ⓘ
720 104	60
720 204	55
720 304	67
720 404	75

R+M Nr.	ⓘ
724 30	79
724 15	74
724 25	78

⊙
1/4"
3/8"
1/2"
3/4"
1"
1.1/4"
1.1/2"

R+M Nr.	ⓘ
723 05	23
723 10	24
723 20	24
723 30	22
723 40	23
723 50	26
723 60	35

R+M Nr.	ⓘ
722 10	23
722 20	23
722 30	23
722 40	23
723 00	28
723 01	30

\* Leak proof. Twist on sleeve locks in place

Spare washer



Flat seal. For F thread

R+M Nr.	⊙
725 23	3/8"
725 24	1/2"
725 25	3/4"
725 26	1"
725 27	1.1/4"
725 28	1.1/2"



Gasket

R+M Nr.
725 20

Accessories



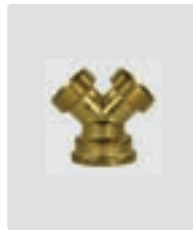
100 meshes/cm². Brass. Strainer insert. ⊘ 33 mm

R+M Nr.
725 30



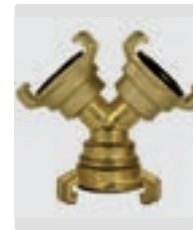
Bayonet blank coupling with gasket. Brass

R+M Nr.
725 10



3-way distributor 3/4" F : 3/4" M : 3/4" M. Brass

R+M Nr.
725 05



3-way bayonet coupling. Brass

R+M Nr.
725 00

Low pressure quick coupling ST-45



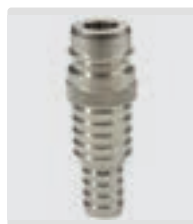
ST-45. Nickel-plated brass. Quick Coupling : 3/4" F. 25 bar / 90° C

R+M Nr.
200 045 210



ST-45. Nickel-plated brass. Quick Coupling : 1" F. 25 bar / 90° C

R+M Nr.
200 045 230



ST-45. Nickel-plated brass. Plug nipple with hose barb 13-19 mm. 25 bar / 90° C

R+M Nr.
010 000 455



ST-45. Nickel-plated brass. Plug nipple with hose barb 19-25 mm. 25 bar / 90° C

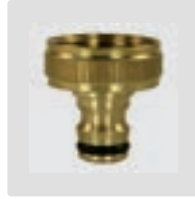
R+M Nr.
010 000 456

KTW approved bayonet quick couplings are available on request!

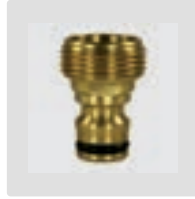
Symbols ⊙ thread ⓘ height DN nominal diameter ⊘ diameter

## Water inlet quick couplings "universal"

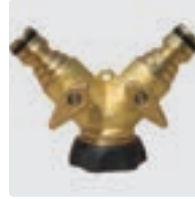
### Coupler plugs "universal"



F thread.  
Brass.  
With flat seal



M thread.  
Brass



F thread.  
Brass + rubber.  
Double exit



F thread. Brass.  
Elbow swivel.  
With flat seal



F thread.  
Plastic.  
With flat seal

DN	R+M Nr.	⌵
1/2"	728 310	37
3/4"	728 311	37
1"	728 312	40

R+M Nr.	⌵
728 320	39
728 321	37

R+M Nr.	⌵
728 465 4	72

R+M Nr.	⌵
728 313	45

R+M Nr.	⌵
727 00	46
727 10	39
727 13	39

### Hose couplings "universal" - premium quality

**Premium quality.**  
Hose couplings with  
6 stainless steel balls.



Brass.  
With tension screw



Brass.  
With tension screw  
+ water stop



3/4" F thread.  
Brass.  
With flat seal



3/4" M thread.  
Brass



Filter.  
Seal for 3/4" F

R+M Nr.
728 250



O-ring

DN	R+M Nr.	⌵
12 - 15 mm (1/2")	728 330 5	51
16 - 19 mm (3/4")	728 331 5	54

R+M Nr.	⌵
728 335	52
728 336	56

R+M Nr.	⌵
728 334	44

R+M Nr.	⌵
728 333	40

R+M Nr.	⌵
727 000	

### Hose couplings "universal"



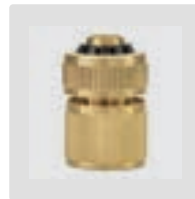
Plastic.  
With tension screw



Plastic.  
With tension screw  
+ water stop



Plastic.  
With tension screw  
+ stop valve



Brass.  
With tension screw

DN	R+M Nr.	⌵
12 - 15 mm (1/2")	727 01	62
16 - 19 mm (3/4")	727 03	66

R+M Nr.	⌵
727 41	66
727 43	70

R+M Nr.	⌵
727 45	101

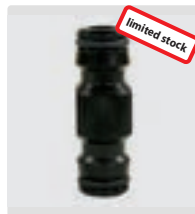
R+M Nr.	⌵
728 330	51
728 331	56

R+M Nr.	⌵
727 65	52

### Hose connectors



Brass



Plastic

**These brazen and plastic water inlet quick couplings "universal" are mutually compatible.**

DN	R+M Nr.	⌵
16 mm (1/2")	728 340	45

R+M Nr.	⌵
727 65	52

R+M Nr.	⌵
727 65	52



## Spray guns

## Shower head



Stainless steel. Housing plastic. Inlet 1/2" F.  
Max. 8 bar / 60 °C

R+M Nr.  
500 101

## Gun with seven jet adjustments



Plug 16 mm (universal) and 3/4" F.  
Max. 8 bar / 20 °C

R+M Nr.  
726 419

## Gun with infinitely variable jet adjustment



Plug 16 mm (universal) and 3/4" F.  
Max. 8 bar / 20 °C

R+M Nr.  
726 416

## Spray nozzles

## Spray nozzles



Adjustable with bayonet coupling

R+M Nr.  
726 81



Adjustable with hose tail. Brass

R+M Nr.  $\text{DN}$   
726 811 13 mm (1/2")

## Ball valves



3/4" F : 3/4" M. Brass. Max. 8 bar / 50 °C

R+M Nr.  
726 420

## Micro Droplets Nozzle Holder

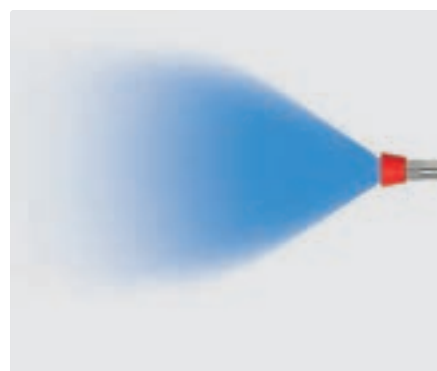
## Fields of application:

Disinfection, humidification, cooling, dust suppression, decontamination, odor control in agricultural, food and construction industry, defence and firefighting technology, car washing and detailing



ST-78. Stainless steel

R+M Nr.  $\text{C}$   
200 078 830 1/4" F

functioning  
of Micro Droplets Nozzle Holder

progressive, conical spray jet

## Nozzles for Micro Droplets Nozzle Holder



M15x1 M. Stainless steel

R+M Nr.	$\text{D}$
200 078 412	1.2 mm
200 078 415	1.5 mm
200 078 418	1.8 mm
200 078 420	2.0 mm
200 078 423	2.3 mm
200 078 425	2.5 mm
200 078 430	3.0 mm
200 078 435	3.5 mm

Symbols  $\text{D}$  nozzle  $\text{D}$  diameter  $\text{C}$  inlet  $\text{O}$  outlet  $\text{DN}$  nominal diameter

## Longcast lances



3/8" F. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, gun ST-2300, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 280 bar / 45 l/min / 100 °C

R+M Nr.		
200 078 510	nozzle protector without nozzle	3/8" F



1/2" F. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, gun ST-2320, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 150 bar / 80 l/min / 100 °C

R+M Nr.		
200 078 520	nozzle protector without nozzle	1/2" F



**LTF**

1/2" F. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, gun easyfarm365+, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 250 bar / 60 l/min / 100 °C

R+M Nr.		
200 078 530	nozzle protector without nozzle	1/2" F swivel



1/4" M. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 280 bar / 130 l/min / 100 °C

R+M Nr.		
200 078 500	nozzle protector without nozzle	1/4" M

The longcast lance can be connected to a low pressure pump, to a high pressure pump, to the public water system or to the extinguishing water network.

The lance works in the medium pressure range. By means of its very good solidity, good handling and compactness the lance is especially suitable for the intensive use.

The lateral hand grip makes a stepless adjustment of the water jet during the operation possible. A long casting point jet or a progressive, conical spray jet can be set.

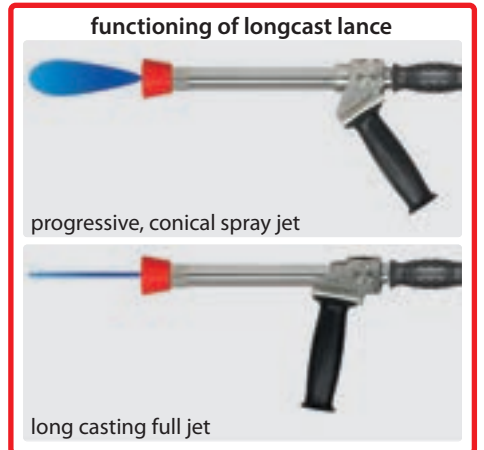
In order to realize ideal cleaning results the nozzle size needs to be adapted to the pump performance (pressure and flow rate).

### Nozzles for longcast lances



M15x1 M. Stainless steel

R+M Nr.	D
200 078 412	1.2 mm
200 078 415	1.5 mm
200 078 418	1.8 mm
200 078 420	2.0 mm
200 078 423	2.3 mm
200 078 425	2.5 mm
200 078 430	3.0 mm
200 078 435	3.5 mm



## Suttner low pressure guns

## ST-1200 spray guns



Spray gun with adjustable spray angle.  
Max. 24 bar / 100 l/min / 50 °C

R+M Nr.	(M)	(C)
201 200 500	brass	1/2" F



Spray gun with adjustable spray angle.  
Max. 24 bar / 100 l/min / 50 °C

R+M Nr.	(M)	(C)
500 01	brass	1/2" F



Spray gun with adjustable spray angle.  
Max. 24 bar / 100 l/min / 50 °C

R+M Nr.	(M)	(C)
201 200 520	stainless steel	1/2" F



Spray gun with adjustable spray angle.  
Trigger guard. Max. 24 bar / 100 l/min / 95 °C

R+M Nr.	(M)	(C)
201 200 550	brass / stainless steel	1/2" F



Spray gun with adjustable spray angle.  
Trigger guard. Max. 24 bar / 100 l/min / 50 °C

R+M Nr.	(M)	(C)
201 200 535	brass	1/2" F

## Repair kits ST-1200



R+M Nr.	(M)
201 200 420	stainless steel



R+M Nr.	(M)
201 200 430	brass



Spray gun with adjustable spray angle.  
Trigger guard. Max. 24 bar / 100 l/min / 50 °C

R+M Nr.	(M)	(C)
201 200 540	brass	1/2" F

## functioning of low pressure guns



long casting full jet



conical spray jet

Further models of the spray guns ST-1200 are available on request.

## Low pressure guns

RB35



Max. 12 bar / 50 l/min / 50 °C

R+M Nr.	(M)	(C)
500 535 500	brass	1/2" F swivel



Max. 12 bar / 50 l/min / 80 °C

R+M Nr.	(M)	(C)
500 535 510	stainless steel	1/2" F swivel

### functioning of low pressure guns



long casting full jet



conical spray jet

RB65



Max. 24 bar / 60 l/min / 90 °C

R+M Nr.	(M)	(C)
500 565 00	brass	1/2" F swivel



Max. 24 bar / 100 l/min / 90 °C

R+M Nr.	(M)	(C)
500 565 10	brass	1/2" F swivel

## Suttner low pressure guns

ST-860 low pressure



Spray gun with PA sealing seat and PEEK valve body. Resistant to chemicals.  
Max. 210 bar / 30 l/min / 100 °C

R+M Nr.	(C)	(C)
200 860 500	1/4" F	1/4" F

ST-810 low pressure



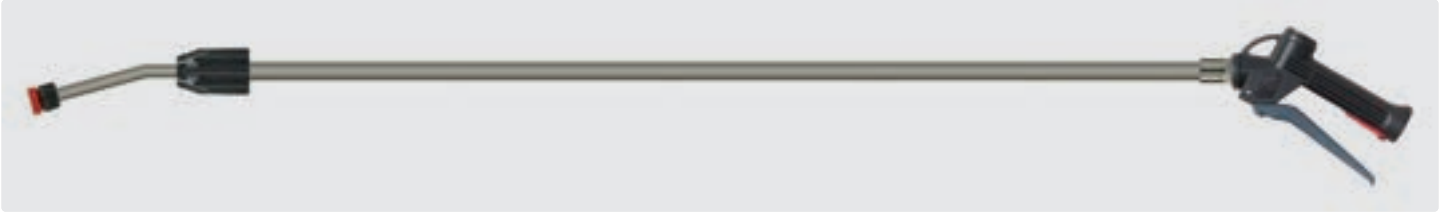
Spray gun with POM seat. Resistant to chemicals.  
Max. 140 bar / 30 l/min / 100 °C

R+M Nr.	(C)	(C)
200 810 520	1/4" F	3/8" F

Symbols (M) material (C) inlet (C) outlet

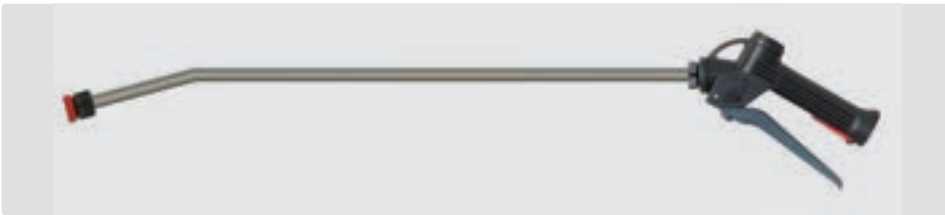
## Chemical spray guns ST-510 &amp; lances

## Chemical spray guns ST-510 with lances



1000 - 2000 mm. Spray gun with telescopic lance made out of stainless steel and nozzle holder without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 600	nozzle holder	1/2" F



600 mm. Spray gun with lance made out of stainless steel and nozzle nut without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 550	nozzle holder	1/2" F



210 mm. Spray gun with lance made out of plastic and nozzle nut without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 710	nozzle holder	1/2" F



300 mm. Spray gun with lance made out of stainless steel and nozzle nut without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 560	nozzle holder	1/2" F

## Chemical spray gun ST-510



Gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 70 l/min / 50 °C

R+M Nr.		
200 510 500	1/2" F	1/2" F

## Filter



Plastic. Max. 50 °C

R+M Nr.
500 04



600 mm. Spray gun with lance made out of plastic and nozzle nut without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 700	nozzle holder	1/2" F



600 mm. Spray gun with lance made out of plastic and nozzle nut without nozzle. Spray gun with acid-resistant ball. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 705	nozzle holder	1/2" F



## Suttner steam guns

The steam guns of the series ST-4000 and ST-860D are the ideal solution for cleaning tasks with steam. Both series are designed for a medium temperature of up to 200 °C and for a working pressure of max. 20 bar. By means of a specifically produced valve housing with 3/4" F made out of aluminium the ST-4000 is suitable for extremely high flow rates. The ST-860D is unbeatable in case of small and medium flow rates.

Apart from being enormously resistant to high temperatures the sealing copolymer is suitable for all liquids based on mineral oil as well as for inorganic acids, alkaline solutions, alcohol and anti-corrosion liquids based on amines and seawater or on their mixtures.

The fact that the hose connection is positioned in the front of the gun positively effects the professional handling with the gun as well as the heat radiation close to hand and body.

### ST-860D steam gun



Professional steam gun ST-860D. Brass.  
Max. 20 bar / 200 °C

<b>R+M Nr.</b>	⊖	⊕
200 860 550	1/4" F	1/4" F

### ST-860D steam gun with lance



Professional steam gun ST-860D with lance 400 mm stainless steel, vented handle ST-9.1 220 mm and nozzle protector ST-12 without nozzle. Max. 20 bar / 200 °C

<b>R+M Nr.</b>	⊖	⊕
200 860 555	1/4" F NPT	1/4" F

### ST-4000 steam gun with lance



Professional steam gun ST-4000 with lance 500 mm stainless steel with vented handle ST-9 380 mm and steam low pressure nozzle made out of stainless steel. Max. 20 bar / 200 °C

<b>R+M Nr.</b>	⊖	⊕
204 000 500	steam low pressure nozzle	3/4" F

Symbols ⊕ inlet ⊖ outlet

## Low pressure hoses

## Rubber hoses black



Black surface and interior. Industrial version for water and compressed air. Abrasion- and ozone-resistant. Burst pressure > 60 bar. Max. 20 bar. -10 °C - +60 °C

## Per metre

R+M Nr.	DN	⊞	⊞
305 10	13 (1/2")	4	
305 20	19 (3/4")	5	
305 30	25 (1")	5	

## Complete rolls \*

R+M Nr.	DN	⊞	⊞
305 101 00	13 (1/2")	100 m	4
305 201 00	19 (3/4")	100 m	5
305 301 00	25 (1")	100 m	5

## Reinforced PVC hoses clear



Clear. Max. 60 °C. Other dimensions are available on request

## Per metre

R+M Nr.	DN	⊞
306 40	6	3.0
306 50	8	3.0
306 55	9	3.0
306 60	10	3.0
307 10	12	3.0
306 70	13	3.0
306 80	16	3.0
306 90	19	3.5

## Complete rolls

R+M Nr.	DN	⊞	⊞
306 401 00	6	100 m	3.0
306 501 00	8	100 m	3.0
306 550 50	9	50 m	3.0
306 600 50	10	50 m	3.0
307 100 50	12	50 m	3.0
306 700 50	13	50 m	3.0
306 800 50	16	50 m	3.0
306 900 50	19	50 m	3.5

## Rubber hoses grey



Grey NBR surface. White, food safe interior. Suitable for hot and cold liquids. Resistant to animal fats. Burst pressure > 60 bar. Max. 20 bar. -20 °C - +100 °C

## Per metre

R+M Nr.	DN	⊞	⊞
305 40	13 (1/2")	4.5	
305 50	19 (3/4")	4.8	

## Spiral line hoses



Especially for suction. Suitable for vacuum. -10 °C - +50 °C

## Per metre

R+M Nr.	DN	⊞
307 519	19 (3/4")	2.6
307 525	25 (1")	2.7
307 532	32 (1.1/4")	2.7
307 538	38 (1.1/2")	2.7
307 550	50 (2")	4.0

## Complete rolls

R+M Nr.	DN	⊞	⊞
307 519 025	19 (3/4")	25 m	2.6
307 525 025	25 (1")	25 m	2.7
307 532 025	32 (1.1/4")	25 m	2.7
307 538 025	38 (1.1/2")	25 m	2.7
307 550 025	50 (2")	25 m	4.0

## Reinforced PVC hoses blue



Max. 60 °C. Other dimensions are available on request

## Per metre

R+M Nr.	DN	⊞
080 000 310	9	3
306 71	13	3

## Complete rolls

R+M Nr.	DN	⊞	⊞
306 560 50	9	50 m	3
306 710 50	13	50 m	3

## Plastic hoses yellow



QUATTROFLEX PLUS + Yellow cover with light blue inner tube. 24-thread diagonal reinforcement: extremely pressure-resistant and dimensionally stable. No twisting, no kinking. Highest flexibility and temperature resistance. Abrasion and UV resistant. Lead and cadmium free Phthalate free, food safe. Burst pressure > 35 bar. -20 °C - +60 °C

## Complete rolls

R+M Nr.	DN	⊞	⊞
305 012 25	13 (1/2")	25 m	2.5
305 012 50	13 (1/2")	50 m	2.5
305 034 25	19 (3/4")	25 m	3.1
305 034 50	19 (3/4")	50 m	3.1

## Clear PVC hoses



Especially for suction of chemicals. Max. 60 °C. Other dimensions are available on request

## Per metre

R+M Nr.	DN	⊞
306 10	4	1.0
306 20	6	1.5
306 30	8	2.0

## Complete rolls

R+M Nr.	DN	⊞	⊞
306 101 00	4	100 m	1.0
306 201 00	6	100 m	1.5
306 301 00	8	100 m	2.0

## Reinforced PVC hoses yellow



Max. 60 °C. Other dimensions are available on request

## Per metre

R+M Nr.	DN	⊞
080 000 300	6	3
080 000 320	9	3

## Complete rolls

R+M Nr.	DN	⊞	⊞
306 410 50	6	50 m	3
306 570 50	9	50 m	3

Symbols DN nominal diameter mm ⊞ wall thickness mm ⊞ length P pressure BP burst pressure ⊞ weight

## Hose scissors



Hose scissors for plastic hoses. Suitable for an outer hose diameter of up to 28 mm

R+M Nr.
955 00



Spare blade

R+M Nr.
955 01

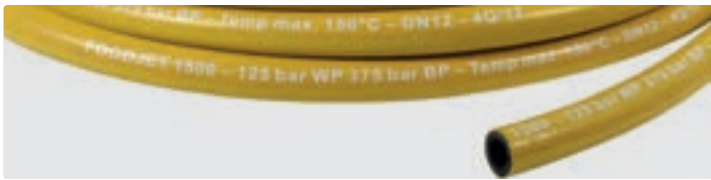
## Foodjet / foodjet 1500 - HP hose

Foodjet and foodjet 1500- High pressure hoses according to EN 854. Particularly resistant to animal and **poultry fats**.

- » Field of application: poultry processing industry.
- » Suitable for oil, water, water-in-oil emulsions and water mixes with up to 50 % detergent.
- » Surface synthetic rubber. Particularly abrasion-, oil-, ozone-resistant and weatherproof.
- » Interior synthetic, oil-resistant rubber. Tight textile meshwork.
- » -40 °C - +150 °C



R+M Nr.	DN	↔	⚠	P	BP	⊠
303 60	12	10 - 95 m	3.5	80 bar	≥ 240 bar	0.21 kg

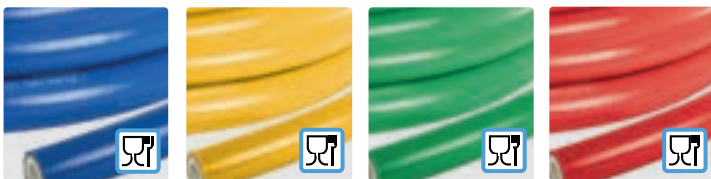


R+M Nr.	DN	↔	⚠	P	BP	⊠
303 601 500	12	70- 100 m	4.5	125 bar	≥ 375 bar	0,3 kg

## PURClean365+® 40 - food hose

PURClean365+® 40 - Food hose according to (EC) 2002/72, (EU) 10/2011, (EG) 1935/2004 and (EG) 2023/2006. Designed for industrial foam applications.

- » Field of application: foam hose and pre-spraying hose in the food industry.
- » Suitable for contact with liquid food products.
- » Suitable for water and water mixes of usual cleaning detergents.
- » PVC hose with three layers and a smooth surface.
- » Increased 1-layer rot-proof textile mesh.
- » -20 °C - +70 °C



R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
303 660 40	303 660 41	303 660 42	303 660 43

DN	↔	⚠	P 20 °C	P 70 °C	BP 20 °C	⊠
12	10 - 100 m	4.5	100 bar	45 bar	≥ 250 bar	0.25 kg

## Hose reel trolley



Plastic. 2 plugs (universal). Compatible with common plug-in systems.

1/2" hose (12 mm) max. 50 m.  
5/8" hose (16 mm) max. 40 m.  
H x D x W = 750 x 440 x 370 mm.  
Max. 6 bar / 20 °C

R+M Nr.
761 60

## blufood® - food hose



blufood® - Food hose according to 2007/19/EC, 2002/72/EC, Regulation 10/2011. Designed for industrial foam applications.

- » Field of application: foam hose and pre-spraying hose in the food industry.
- » Suitable for contact with liquid food products.
- » Suitable for water and water mixes of usual cleaning detergents.
- » PVC hose with five layers and a smooth surface.
- » Reinforcing twofold textile meshwork.
- » -20 °C - +70 °C

R+M Nr.	DN	↔	⚠	P 20 °C	P 70 °C	BP 20 °C	⊠
303 70	12	10 -100 m	5	50 bar	30 bar	≥ 240 bar	0.32 kg
303 700 019	19	10 - 60 m	6	40 bar	15 bar	≥ 200 bar	0.61 kg

## PURClean365+® 100 - food hose

PURClean365+® 100 - Food hose according to (EC) 2002/72, (EU) 10/2011, (EG) 1935/2004 and (EG) 2023/2006. Designed for industrial foam applications.

- » Field of application: foam hose and pre-spraying hose in the food industry.
- » Suitable for contact with liquid food products.
- » Suitable for water and water mixes of usual cleaning detergents.
- » PVC hose with three layers and a smooth surface.
- » Increased 1-layer rot-proof textile mesh.
- » -20 °C - +100 °C
- » **About 20 % lighter and more flexible than comparable hose types**



R+M Nr.	DN	↔	⚠	P 20 °C	P 100 °C	BP 20 °C	⊠
303 661 00	12	10 - 100 m	4,5	40 bar	18 bar	≥ 200 bar	0.25 kg

Hose tails

Male thread



Brass.  
Max. 150 °C



Stainless steel.  
Max. 150 °C



Plastic.  
Max. 60 °C



Plastic.  
Max. 60 °C

Female thread



Brass.  
Max. 150 °C

DN	⊙
4 mm	1/8"
6 mm	1/8"
6 mm	1/4"
6 mm	3/8"
6 mm	1/2"
8 mm	1/8"
8 mm	1/4"
8 mm	3/8"
8 mm	1/2"
10 mm	1/4"
10 mm	3/8"
12 mm	1/4"
12 mm	3/8"
12 mm	1/2"
12 mm	3/4"
16 mm	1/2"
16 mm	3/4"
19 mm	1/2"
19 mm	3/4"
19 mm	1"
25 mm	3/4"
25 mm	1"

R+M Nr.	ⓘ
710 00	31
710 10	35
710 40	36
710 65	40
710 05	31
710 20	34
710 50	38
710 70	49
710 25	34
710 55	35
710 30	35
710 60	38
710 80	50
710 90	47
710 85	40
710 95	49
711 21	63
711 00	47
711 20	49
711 10	55

R+M Nr.	ⓘ
710 009	33
710 19	49
710 29	48
710 79	
710 559	36
710 89	49
711 2199	53
711 09	51
711 259	70

R+M Nr.	ⓘ
712 05	27
712 10	33
712 20	38
712 40	39
712 30	41
712 50	41
712 70	49
712 55	44
712 60	46
712 80	54
712 90	58

R+M Nr.	ⓘ
713 10	21
713 20	26
713 40	26
713 30	28
713 50	33
713 70	37
713 32	30
713 60	32
713 80	36

DN	⊙
6 mm	1/4"
8 mm	1/4"
8 mm	3/8"
8 mm	1/2"
12 mm	3/8"
12 mm	1/2"

R+M Nr.	ⓘ
710 104	33
710 204	33
710 504	33
710 704	36
710 604	40
710 804	38

2/3 hose tails

Filter



Flat seal

R+M Nr.	⊙
725 40	3/4"



Brass.  
Max. 150 °C



Plastic.  
Max. 60 °C



Brass.  
Max. 150 °C

DN	⊙
10 mm	1/2"
10 mm	3/4"
13 mm	1/2"
13 mm	3/4"
13 mm	1"
19 mm	3/4"
19 mm	1"
25 mm	1"

R+M Nr.	ⓘ
711 52	34
711 50	36
711 51	41
711 55	39
711 56	38
711 57	40

R+M Nr.	ⓘ
711 60	49

R+M Nr.	ⓘ
711 68	41
711 75	41
711 70	42
711 77	46

Hose connectors



Plastic.  
Max. 60 °C



Plastic.  
Max. 60 °C



Plastic.  
Max. 60 °C

DN
6 mm
8 mm
12 mm

R+M Nr.	ⓘ
715 10	49
715 20	56
715 30	73

R+M Nr.	↔	ⓘ
717 10	50	26
717 20	58	30
717 30	68	36

R+M Nr.	ⓘ
716 10	46
716 20	53
716 30	68

Symbols DN nominal diameter ⊙ thread ⓘ height ↔ length VPE packing unit ⊘ diameter M material TYP type



## Hose clamps

1.4016 stainless steel housing and band.  
Hexagon screw zinc-plated. Worm gear high tension.  
Flat tape inner sides with turned up rims.  
According to DIN 3017, W2



**W4 and W5 completely rust-free, is available on request**

Clamps with hexagon screw.  $\text{I}$  9 mm

R+M Nr.	VPE	Ø
735 10	1	8 - 12 mm
735 20	1	10 - 16 mm
735 30	1	12 - 20 mm
735 40	1	16 - 25 mm
735 50	1	20 - 32 mm
735 60	1	25 - 40 mm
735 70	1	32 - 50 mm
735 80	1	50 - 70 mm

R+M Nr.	VPE	Ø
735 101 00	100	8 - 12 mm
735 201 00	100	10 - 16 mm
735 301 00	100	12 - 20 mm
735 401 00	100	16 - 25 mm
735 501 00	100	20 - 32 mm
735 601 00	100	25 - 40 mm
735 701 00	100	32 - 50 mm
735 801 00	100	50 - 70 mm

### Heavy duty clamp

Heavy duty clamp completely stainless steel X5CrNi1810. According to DIN 1.4301/AISI 304



Clamp with hexagon bolt. W4.  $\text{I}$  20 mm

R+M Nr.	VPE	Ø
736 029 401	1	29 - 31 mm

R+M Nr.	VPE	Ø
736 032 401	1	32 - 35 mm

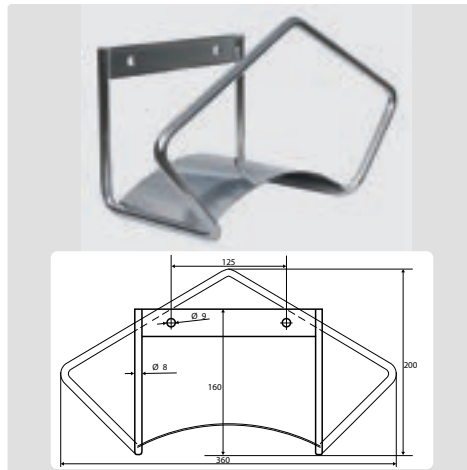
## Wall brackets

### Hose holders



Holding capacity 1/2" = 40 m - 3/4" = 30 m.  
Hole spacing 140 mm.  
W x H x D = 260 x 165 x 170 mm

R+M Nr.	M
110 00	plastic



Holding capacity 1/2" = 40 m - 3/4" = 30 m.  
Hole spacing 125 mm.  
W x H x D = 360 x 200 x 170 mm

R+M Nr.	M
110 06	polished stainless steel 1.4301

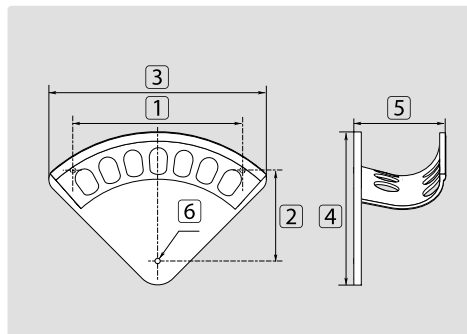
### Brush holder



Suitable for all brushes.  
Hole spacing 202 mm.  
W x H x D = 250 x 90 x 100 mm

R+M Nr.	M
108 290 30	stainless steel

### Hose holder aluminium



R+M Nr.	TYP	holding capacity	1	2	3	4	5	6
110 01	S	1/4" = 30 m - 3/8" = 20 m	155	77	188	145	70	Ø 5.5
110 02	M	3/8" = 30 m - 1/2" = 20 m	255	107	266	200	108	Ø 6.0
110 03	L	1/2" = 30 m - 3/4" = 20 m	272	145	348	255	143	Ø 8.0
110 031	XL	3/4" = 30 m - 1" = 20 m	366	162	417	307	187	Ø 10.0



## Pre-spraying kits

## Low pressure injectors



Injector with metering valve. Suction hose  
1,000 mm. Suction filter ST-31. 2 bar - max. 10 bar

R+M Nr.		
545 101	3/4" F	3/8" F

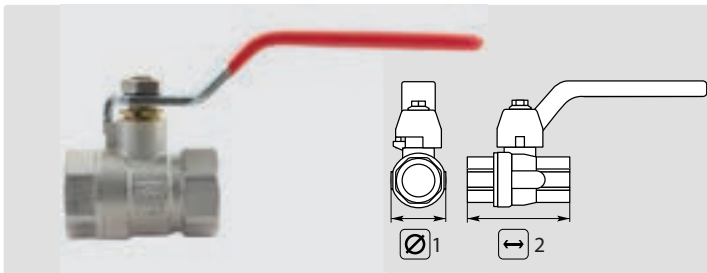


Min. 2 bar - max. 10 bar. Output of approx. 150 l/h  
at 2 bar. Mixing of chemicals approx. 0 - 11.5 %

R+M Nr.	TYP	D		
200 060 700	1	ST-60.1	1.6	3/8" M 3/8" F
200 060 710	1	ST-60.1	1.8	3/8" M 3/8" F
050 000 370	2	o-ring		
200 061 500	3	metering valve hose tail $\varnothing$ 6 mm		

## Ball valves

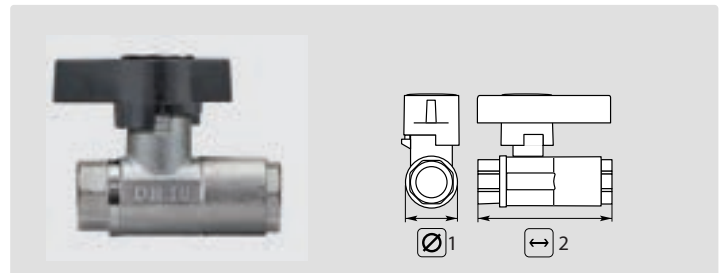
## Standard



Nickel-plated brass. Ball chrome-plated.  
Max. 25 bar / 60 °C

R+M Nr.		$\varnothing$ 1	$\leftrightarrow$ 2	SW
705 10	1/4" F	23.5	40	19
705 20	3/8" F	23.5	40	19
705 30	1/2" F	28.0	46	24
705 40	3/4" F	34.7	53	30
705 50	1" F	42.5	64	37

## Ball valves with butterfly handle



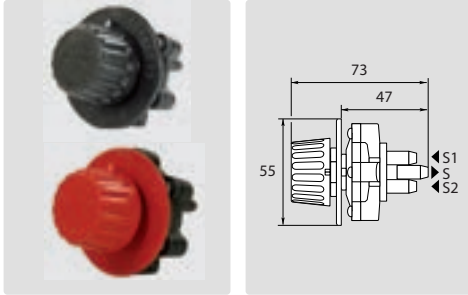
Nickel-plated brass. Ball chrome-plated.  
Max. 210 bar / 80 °C

R+M Nr.		$\varnothing$ 1	$\leftrightarrow$ 2
705 383 82	3/8" F	30 mm	75 mm
705 121 22	1/2" F	36 mm	85 mm

Symbols inlet outlet  $\leftrightarrow$  length  $\downarrow$  height TYP type thread  $\square$  nozzle DN nominal diameter  $\nabla$  voltage SW hexagon

## Metering valves

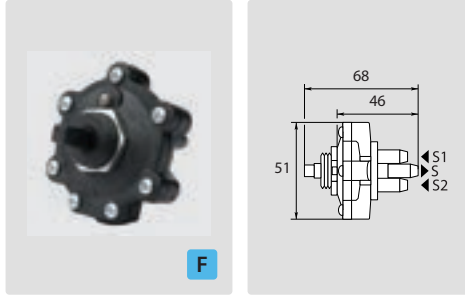
### ST-66 with check valve



S = barb to pump. S1 = input barb 1. S2 = input barb 2

R+M Nr.	TYP
200 066 500	knob black
200 066 501	knob red

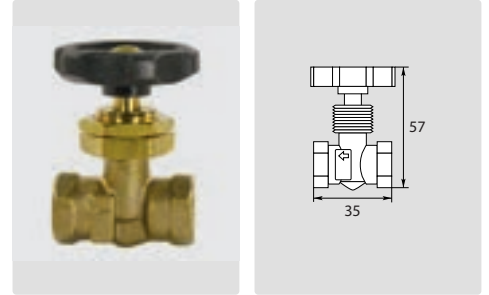
### ST-66 without check valve



S = barb to pump. S1 = input barb 1. S2 = input barb 2

R+M Nr.	TYP
200 066 515	without knob

### Valves with spindle

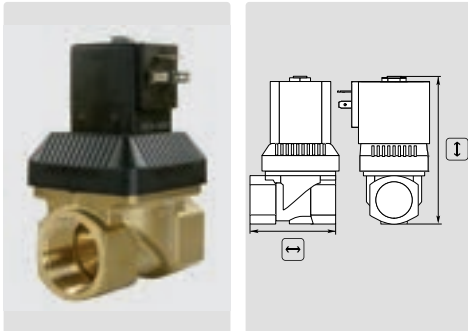


Max. 250 bar / 80 °C

R+M Nr.	⊗: ⊕	TYP
535 10	1/4" F	without knob
535 15	1/4" F	with knob (panel mounting)

## Solenoid valves Bürkert normally closed NC

### Type 6213 without connector



0 - 10 bar / -10 - +80 °C.  
NBR seal (air, water)

R+M Nr.	⊙	DN	coil	⊞	⊚
836 125 658	1/2"	13	24 V-50 Hz/8 W	59	99
836 125 660	1/2"	13	230 V-50 Hz/8 W	59	99
836 125 657	1/2"	13	24 V =	59	99
836 126 273	3/4"	13	24 V-50 Hz/8 W	59	99
836 126 275	3/4"	13	230 V-50 Hz/8 W	59	99
836 221 618	3/4"	13	24 V =	65	99
836 221 634	1"	20	24 V =	80	119
836 126 289	1"	20	24 V-50 Hz/8 W	80	119
836 126 291	1"	20	230 V-50 Hz/8 W	80	119

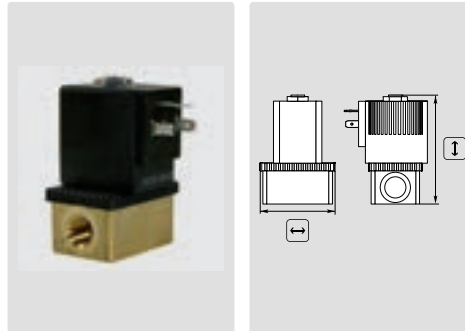
### Coil type 5281-6213



50 Hz

R+M Nr.	V
836 126 436	24 V/8 W
836 126 430	230 V/8 W

### Type 6013 without connector



0 - 25 bar / -10 - +120 °C. FKM seal (hot air, oxygen, chemicals)

R+M Nr.	⊙	DN	coil	⊞	⊚
836 137 538	1/4"	2	24 V-50 Hz/8 W	49	72
836 137 540	1/4"	2	230 V-50 Hz/8 W	49	72
836 137 537	1/4"	2	24 V =	49	72

### Coil type 6013



50 Hz

R+M Nr.	V
836 645 556	24 V/8 W
836 645 558	230 V/8 W

### Connector



R+M Nr.
833 50

**Further solenoid valves are on page 79 and 88. Other models are available on request.**

## Distributor connector block



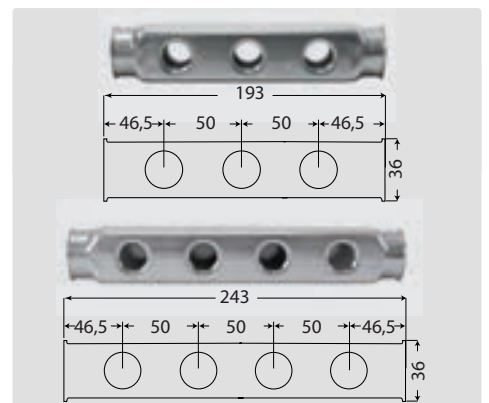
Stainless steel. 2 x 3 connections.  
H x W x D: 36 x 193 x 40 mm. 290 g.  
Max. 10 bar. 150 °C

R+M Nr.	6 x ⊙	⊕	⊞
725 061 012	1/2" F	1" F	1" F



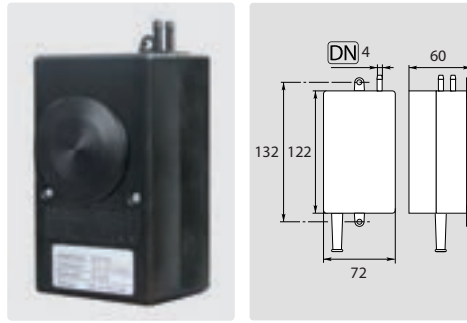
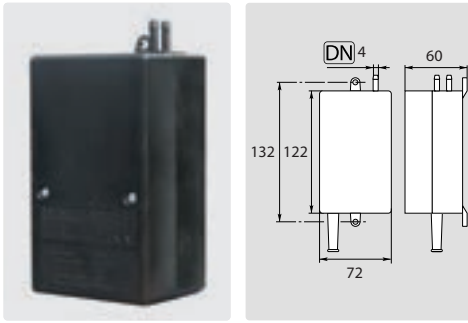
Stainless steel. 4 connections.  
H x W x D: 36 x 243 x 40 mm. 390 g.  
Max. 10 bar. 150 °C

R+M Nr.	4 x ⊙	⊕	⊞
725 041 012	1/2" F	1" F	1" F



## Descaling pumps and softening agents

### ST-15 descaling softening pumps



### Softening agents



This product bounds the minerals causing the hardness. The coil is protected against calcination.  
 Application:  
 4 ml / °dH / cbm water.  
 1 pallet = 84 cardboard boxes (6 x 1 l)

For trailer mounted pressure washers

R+M Nr.	hp cleaner	V	←
200 015 500	< 600 l/h	230 V - 50 Hz	35
200 015 510	< 600 l/h	24 V - 50 Hz	35
200 015 505	> 600 l/h	230 V - 50 Hz	70
200 015 535	> 900 l/h	230 V - 50 Hz	140
200 015 525	> 900 l/h	24 V - 50 Hz	140

R+M Nr.	hp cleaner	V	←
200 015 526	> 900 l/h	12 V =	140

R+M Nr.	unit	⊞
950 10	box	6 x 1 l
950 40	container	10 l
950 50	container	20 l
950 20	drum	200 l

## Low pressure valves

### Check valves & intake filter



R+M check valve. Valve nylon with rubber seal. Stainless steel spring. Avoids backflow in any position



Intake filter. Nylon thread. Stainless steel mesh

⊙
3/8"
1/2"
3/4"
1"
1.1/4"

R+M Nr.	⊓	P
733 004	44 mm	16 bar
733 054	48 mm	16 bar
733 104	53 mm	16 bar
733 204	58 mm	16 bar
733 304	66 mm	10 bar

R+M Nr.	∅	⊓
732 80	18 mm	42 mm
732 70	22 mm	38 mm
732 60	28 mm	50 mm
732 90	36 mm	57 mm
732 95	43 mm	65 mm

## Backflow preventers



Chrome-plated brass. Backflow preventer according to DIN 19884 and DIN EN 1717. Avoids that cleaning agents come into the potable drink circuit in case of excess pressure in the water pipe. Required when direct connection to pump

R+M Nr.	⊙	DN	⊓
734 10	3/4"	20	61 mm

### Endangerment of drinking water

It is a TYPE HD pipe aerator, which completely covers the risk in category 1 and 2, and only partially in category 3. **Not permitted for categories 4 and 5.**  
**Use is only intended for private use.**

#### Type of hazard according to DIN EN 1717 (DIN 1988-4)

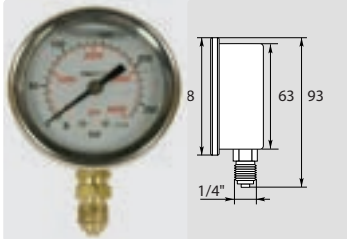
category 1	category 2	category 3	category 4	category 5
Industrial or drinking water, <b>without</b> any health risk or impairment (smell, taste, color)	Liquid <b>without</b> health risk, but with adverse effects (smell, taste, color, temperature)	Liquid, with a <b>health hazard</b> due to low toxic substances (glycol, caustic soda, copper sulfate solution ...)	Liquid with a <b>strong health hazard</b> . Toxic, carcinogenic, mutagenic or radioactive substances.	Liquid with a <b>life-threatening</b> risk from microbial or viral pathogens.

**According to the EU directives EN 60335-2-79:2010** currently in force, the water that passes through a high pressure cleaner is no longer considered fit for drinking. This is why such a cleaner cannot be connected directly to the drinking water supply network unless a back flow preventer disconnector has been fitted.

## Pressure gauges

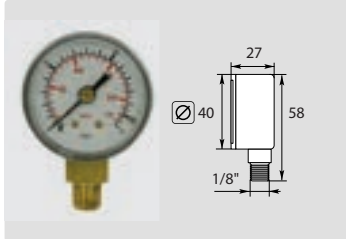
Glycerin filled

Undamped



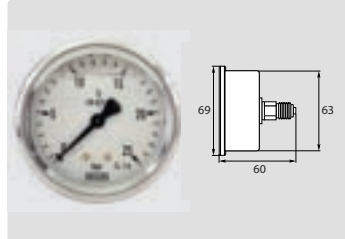
∅ 63 mm. Housing stainl. steel.  
1/4" M. Inlet at the bottom

R+M Nr.	pressure range
548 90	0 - 25 bar
549 00	0 - 40 bar



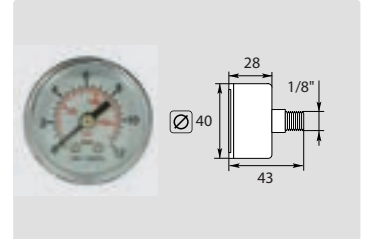
∅ 40 mm. Housing plastic. 1/8" M.  
Inlet at the bottom

R+M Nr.	pressure range
547 10	0 - 16 bar



∅ 63 mm. Housing stainl. steel.  
1/4" M. Inlet at the back: Type WIKA

R+M Nr.	pressure range
548 025	0 - 25 bar



∅ 40 mm. Housing plastic.  
1/8" M. Inlet at the back

R+M Nr.	pressure range
547 50	0 - 12 bar

Further pressure gauges are on page 78.

## Suttner intake filter & suction sets

ST-35 intake filter for water

Heavy version made out of plastic.  
Valve nylon with rubber seal.  
Stainless steel spring and screen.  
Max. 60 °C



Without check valve



With check valve



Without check valve

Suction sets with suction filter ST-35



DN
13 - 19 mm
19 - 25 mm

R+M Nr.	∅	h
200 035 500	80	147
200 035 530	80	147

R+M Nr.	∅	h
200 035 510	80	147

R+M Nr.	∅	h
200 035 600	86	225
200 035 630	86	225

R+M Nr.	TYP	⊕	↔
731 12	without valve *	ÜM 3/4" F	3 m
731 21	with valve *	ÜM 3/4" F	3 m

\* check valve

## Intake filter for chemicals



DN 6 mm. Fine filter.  
Fine core stainless steel screen with brazen bottom

R+M Nr.	∅	h
730 25	22	55



DN 6 mm. ST-32.  
Brass

R+M Nr.	∅	h
200 032 800	20	32



DN 6 - 8 mm. ST-32.  
Stainless steel

R+M Nr.	∅	h
200 032 600	19	39



DN 6 - 8 mm. ST-31  
without check valve.  
Plastic.

R+M Nr.	∅	h
200 031 600	20	75



DN 6 - 8 mm. ST-31  
without check valve.  
Plastic. Stainless steel weight

R+M Nr.	∅	h
200 031 615	20	75



DN 6 - 8 mm. ST-31R  
with check valve.  
Plastic. Brass weight

R+M Nr.	∅	h
200 031 610	20	75



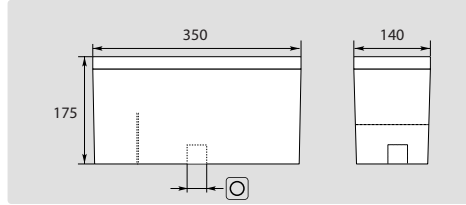
DN 6 - 8 mm. ST-31R  
with check valve.  
Plastic. Stainless steel weight

R+M Nr.	∅	h
200 031 611	20	75

Symbols DN nominal diameter V voltage → flow I height ∅ diameter ⊙ thread TYP type ⊕ inlet ↔ width h volume 🚚 shipment by truck

### Float tanks

#### Suttner float tank



R+M Nr.	⊙	⊞
020 000 780	3/4"	7 l

Float tank with intake spray wall.  
Avoids air circulation

#### Cover Suttner float tank



R+M Nr.
020 000 800

#### Water tank for wall mounting, 60 liters

- » Material: Stainless steel
- » Well thought-out solution for simple wall mounting
- » Including cover, wall bracket and baffle, for calming water
- » Professionally processed stainless steel with integrated inlet and outlet openings (inlet:  $\varnothing$  27 mm for 3/4"-m and outlet: 3/4"-f)
- » Tank capacity: 60 liters



Stainless steel. Incl. Wall bracket, baffle and cover.  
21 kg

R+M Nr.	⊙	H x W x D mm
105 000 030	3/4" F	591.5 x 607 x 307



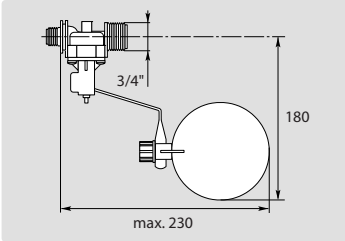
**Optional:**  
Ball valve (705 50 + 571 20),  
float valve ST-8 (200 008 520 + 571 00)  
or float valve AK, e.g. (701 405)  
with mounting flange (701 41),  
low-pressure quick coupling  
ST-45 (200 045 210)  
and coupling plug with hose nozzles (010 000 455/010 000 456)

new

Symbols ⊙ inner diameter ⊞ inlet ⊞ outlet DN nominal diameter TYP type ⊙ thread ⊞ volume ⊞ flow

## Float valves

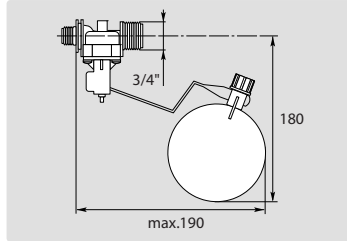
AK with ball horizontal



Plastic. Pressure 0.3 - 10 bar.  
Max. 22 l/min / 60 °C

R+M Nr.			
701 402	3/4" M	3/4" M	10 mm

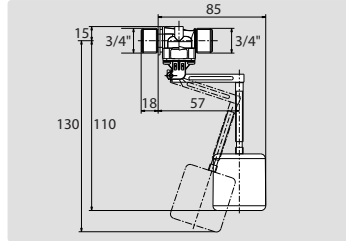
AK with ball vertical



Plastic. Pressure 0.3 - 10 bar.  
Max. 22 l/min / 60 °C

R+M Nr.			
701 404	3/8" M	3/4" M	10 mm

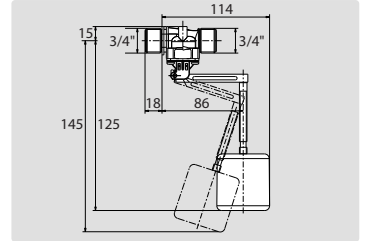
AK with PE float



PE float. Pressure 0.3 - 10 bar.  
Max. 22 l/min / 60 °C

R+M Nr.			
701 405	3/4" M	3/4" M	10 mm

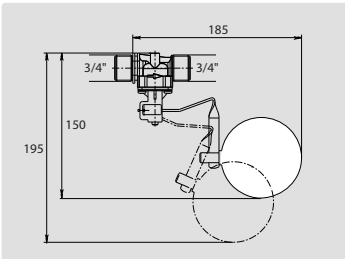
AK with PE float



PE float. Pressure 0.3 - 10 bar.  
Max. 22 l/min / 60 °C

R+M Nr.			
701 408	3/4" M	3/4" M	10 mm

AK with ball



Plastic. Pressure 0.3 - 10 bar.  
Max. 22 l/min / 60 °C

R+M Nr.			
701 403	3/4" M	3/4" M	10 mm

Accessories AK



Ball

R+M Nr.  
701 43



Membrane

R+M Nr.  
701 42

Accessories AK valves



Clamp

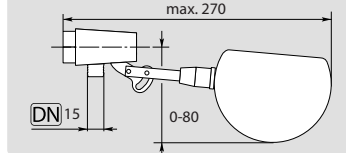
R+M Nr.  
701 41



Hose tail DN 13 mm

R+M Nr.  
711 60 3/4" F

ST-8 with ball



Brass / plastic.  
Max. 10 bar / 22 l/min / 60 °C

R+M Nr.		
200 008 520	1/2" F	12 mm

Ball ST-8



R+M Nr.	TYP
030 000 180	swimmer
020 000 610	screw

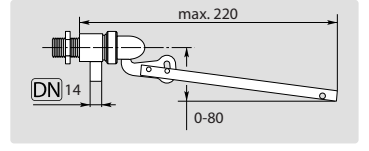
Plastic



Brass / plastic. 3/4" M.  
DN 9.5. Max. 60 °C

R+M Nr.
701 500 100

PEKI without ball



3/8" M. Brass. Max. 10 bar / 85 °C

R+M Nr.		
701 00	16 l/min	8 mm
701 05	30 l/min	12 mm

Ball PEKI



Max. 60 °C

R+M Nr.
701 35



Stainless steel. 85 °C. Suitable for 701 05

R+M Nr.
701 39

Seal kit PEKI



R+M Nr.
701 001

Level sensor LS809-51



Plastic. Cable length 500 mm. 2-core cable. 250 V / 1 A / 70 W. -30 °C - +105 °C

R+M Nr.
701 880 951



Water intake filters

R+M filter



Aluminium. Complete with screen (stainless steel). 300 microns. Max. 10 bar / 60 l/min / 80 °C

R+M Nr.				
730 504	1/2" F	1/2" M	83	34

ST-33



Screen. Stainless steel

R+M Nr.	microns
730 504 03	300



Complete with screen (stainless steel). 400 micron. Max. 10 bar / 60 l/min / 60 °C

R+M Nr.				
200 033 540	1/2" F	1/2" M	69	38



Screen. Stainless steel

R+M Nr.	microns
120 000 765	400

ST-33



Complete with filter fine core washable (stainless steel and plastic). 95 mm  
 112 mm. Max. 6 bar / 60 °C / 50 l/min

R+M Nr.			microns
200 033 700	3/4" F	3/4" M	50
200 033 705	1/2" F	1/2" M	125



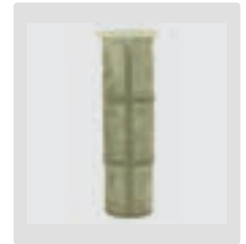
Filter fine core washable. Stainless steel + plastic

R+M Nr.	microns
020 001 735	50
020 001 737	125



Complete with filter fine core washable (stainless steel and plastic). 50 microns. Max. 6 bar / 60 °C / 50 l/min

R+M Nr.			
200 033 900	3/4" F	3/4" M	141



Filter fine core washable. Stainless steel + plastic

R+M Nr.	microns
020 000 670	50

Water filter 3"



Complete with screen (plastic). 60 microns. Max. 10 bar / 50 l/min / 50 °C

R+M Nr.			
734 40	3/4" M	3/4" F	123



Screen. Plastic. 60 microns

R+M Nr.
734 703

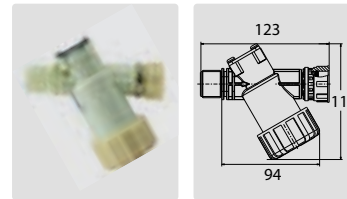
Y-filter



Complete with screen (stainless steel). 500 microns. Max. 10 bar / 60 l/min / 60 °C

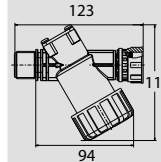
R+M Nr.			
732 038	3/8" F	3/8" F	58
732 012	1/2" F	1/2" F	58
732 034	3/4" F	3/4" F	70

Filter DN 17



Complete with screen With integrated shut-off valve for the flow of water. \* 250 microns. Max. 10 bar / 120 l/min / 90 °C

R+M Nr.			
732 923 00	3/4" M	3/4" F	123



Filter fine core washable. Stainless steel + plastic. 250 microns

R+M Nr.
732 005 945

\* A pre-shut-off is not necessary.

The higher the number of microns the more coarsely meshed are the meshes: 500 microns = coarse . 50 microns = fine

Symbols marking filter thread length height TYP type flow

## Filter housings without cartridge filter

Plastic      Brass / plastic      Stainless steel



2-pieces. With drain.  
Female thread brass.  
Max. 10 bar / 50 °C

R+M Nr.	★	○	fi	↓
734 50	■	3/4"	5"	188
734 60	■	1"	5"	188
734 81	■	1-1/4"	9.3/4"	310
734 70	■	3/4"	9.3/4"	310
734 80	■	1"	9.3/4"	310
734 820 034	■	3/4"	20"	583
734 820 001	■	1"	20"	583



3-pieces. With drain.  
Female thread brass.  
Max. 10 bar / 40 °C

R+M Nr.	★	○	fi	↓
734 290 03	■	3/4"	5"	207
734 290 11	■	1"	5"	207
734 290 04	■	3/4"	9.3/4"	337
734 290 05	■	1"	9.3/4"	337



3-pieces. With drain. Head nickel-plated brass. Filter cup plastic.  
Max. 15 bar / 40 °C

R+M Nr.	★	○	fi	↓
734 330 2	■	1"	9.3/4"	315



3-pieces. With drain, key for housing and mounting bracket.  
Max. 20 bar / 120 °C

R+M Nr.	★	○	fi	↓
734 304 1	■	1"	9.3/4"	350

Screen housings      O-ring      Centering unit



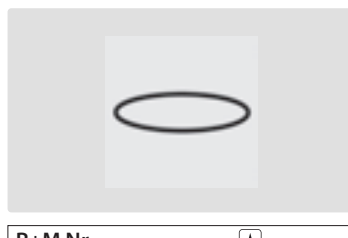
Filter 2-pieces. Plastic. Max. 50 °C

R+M Nr.	★	TYP
734 504	■	small*
734 704	■	big*



Filter 3-pieces. Plastic. Max. 40 °C

R+M Nr.	★	TYP
734 200 13	■	small**
734 200 14	■	big**
734 330 21	■	big**



R+M Nr.	★
734 506	■
734 510	■
734 200 70	■
734 304 11	■



For assembly.  
Centering aid

R+M Nr.	★
734 210 36	■

Mounting brackets      Keys for housing



Single. Zinc-plated steel



Single. Plastic



Double. Plastic



For plastic head. For 2 pieces filter housing.



For brass head. For 3 pieces filter housing.

R+M Nr.	★
734 299 02	■

R+M Nr.	★
734 507	■

R+M Nr.	★
734 508	■

R+M Nr.	★
734 505	■

R+M Nr.	★
734 300 1	■
734 299 01	■

\* with o-ring \*\* without o-ring

## Cartridge filter



Plastic cleanable. Reinforced version.  
Max. 40 °C

R+M Nr.	★	fi	microns	⌈
734 293 00	★	5"	60	125
734 293 02	★	9.3/4"	60	250
734 293 03	★	9.3/4"	120	250



Plastic cleanable.  
Max. 40 °C

R+M Nr.	★	fi	microns	⌈
734 55	★	5"	60	128
734 54	★	5"	150	128
734 75	★	9.3/4"	60	250
734 74	★	9.3/4"	150	250



Cotton.  
Max. 40 °C

R+M Nr.	★	fi	microns	⌈
734 57	★	5"	5	128
734 56	★	5"	20	128
734 77	★	9.3/4"	5	250
734 76	★	9.3/4"	20	250



Iron remove filter

R+M Nr.	★	fi	⊖	⌈
734 709 060	★	9.3/4"	0.85	250



Water softener. Polyphosphate

R+M Nr.	★	fi	⊖	⌈
734 58	★	5"	1.8	125

The filters  
734 709 060 and 734 58  
are not suitable for the  
water supply of pumps.



Polypropylene. Max. 40 °C

R+M Nr.	★	fi	microns	⌈
734 720 006	★	20"	5	510
734 720 050	★	20"	50	510



Stainless steel. Max. 120 °C

R+M Nr.	★	fi	microns	⌈
734 709 050	★	9.3/4"	50	250

The higher the number of microns the more coarsely meshed are the meshes: 500 microns = coarse . 50 microns = fine

Symbols ★ marking fi filter ⊙ thread ⌈ height TYP type ⊖ flow

## easywash365+ wash brushes - large areas are completely clean from now on!

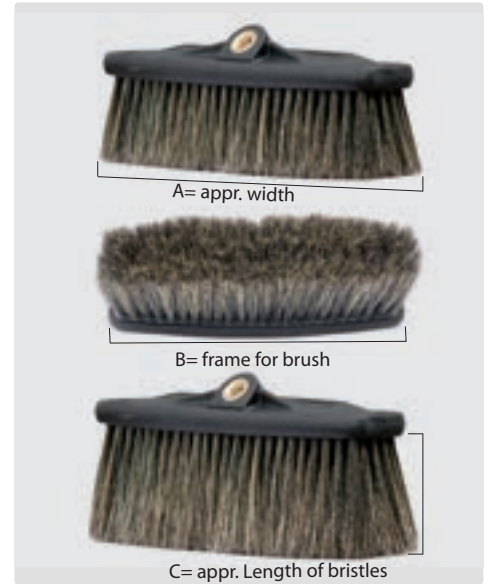
By means of a very wide work surface of approx. 260 x 80 mm the **easywash365+** wash brush is especially designed for the efficient cleaning of large areas such as railway carriages, tramcars, omnibuses, caravans, trucks, boats and ships, facades, greenhouses as well as vehicles, motorcycles and many more.

Fine and extremely soft natural bristles with split ends ensure an especially gentle cleaning of sensitive surfaces such as windows and car finish. The solid body of the **easywash365+** wash brush consists of 152 bristle bundles which are attached undetachably by means of multi-component synthetic resin.

Our **easywash365+** wash brush convinces all users working in the self-service foam- and prewash of an ideal and very easy handling. The soft coating of the body made out of thermoplastic elastomer demonstrably protects sensitive surfaces from damages.

The inlet of the **easywash365+** wash brush is equipped with a brass insert with 1/4" female thread which is fixed in the body. By means of an additional grub screw the high pressure lances available at self-service bays are safe from twisting and theft. Therefore, the grub screw needs to be screwed to the lance tube. **Further fastening plates or protection against theft are not required.**

13 outlet ports at the bottom of the **easywash365+** wash brush enable the required water flow and guarantee a convincingly good foam quality at the same time.



### Wash brushes



A= 270. B= 260 x 80 mm. Hog hair.  
Max. 40 l/min / 60 °C

R+M Nr.	C	Ⓢ
200 023 550	60 mm	1/4" F



A= 270. B= 260 x 80 mm. Hog hair.  
Max. 40 l/min / 60 °C

R+M Nr.	C	Ⓢ
200 023 650	90 mm	1/4" F



A= 270. B= 260 x 80 mm. Hog hair / synthetic.  
Max. 40 l/min / 60 °C

R+M Nr.	C	Ⓢ
200 023 660	90 mm	1/4" F

## Wash brushes

### Wash brushes



A= 260. B= 230 x 80 mm. Hog hair.  
Max. 50 °C

R+M Nr.	C
200 023 500	60 mm
200 023 600	90 mm

### Wash brush with cover



A= 260. B= 230 x 80 mm. Hog hair.  
Max. 50 °C

R+M Nr.	C	Ⓢ
200 023 710	60 mm	1/4" F



A= 260. B= 230 x 80 mm. Hog hair.  
With stainless steel frame.  
Max. 50 °C

R+M Nr.	C	Ⓢ
200 023 735	60 mm	1/4" F



A= 260. B= 230 x 80 mm. Hog hair.  
With stainless steel frame.  
Max. 50 °C

R+M Nr.	C	Ⓢ
200 023 736	90 mm	1/4" F

### Covers



Cover suitable as theft protection for wash brushes. Plastic.  
Max. 50 °C

R+M Nr.	B ⇄
020 001 540	230 mm

### Frames for wash brushes



Frame with fixing bolts. Stainless steel.  
Max. 60 °C

R+M Nr.	B ⇄	Ⓢ
200 023 560	230 mm	1/4" F



Frame. Stainless steel.  
Max. 60 °C

R+M Nr.	B ⇄	Ⓢ
200 023 570	230 mm	1/4" F

## Telescopic lances and wash brushes

## Telescopic lances with coarse thread



Telescopic lances with coarse thread. Telescopic handle without water flow

R+M Nr.	↔	
525 050		900 - 1,800 mm
525 070		1,800 - 3,600 mm
525 085		1,800 - 5,400 mm
525 100	🚚	2,400 - 7,200 mm



Telescopic lances with coarse thread. Telescopic handle with water flow

R+M Nr.	↔	⊙
525 200		coupler plug "universal"
525 300		coupler plug "universal"

## Wash brushes with coarse thread



Bristles 60 mm. Soft. 250 x 80 mm

R+M Nr.	VPE
525 000	1



Bristles 60 mm. Hard. 250 x 80 mm

R+M Nr.	VPE
525 010	1

## R+M EcoLine with coarse thread



Bristles 60 mm. Hard. 250 x 80 mm

R+M Nr.	VPE
525 015	1
525 016	6

## Accessories for telescopic lances with coarse thread



Screw connection

R+M Nr.
525 901



Angle adaptor

R+M Nr.
525 040



Ball valve. 3/4" F : 3/4" M. Brass

R+M Nr.
726 420

Further telescopic lances are on page 271 and further wash brushes are on pages 298-301.

Symbols ⊙ thread ↔ length VPE packing unit ⊕ inlet 🚚 shipment by truck ⊕ inlet ⊖ outlet ↔ flow M material

## Vorwerk lances and wash brushes

**The original**



Extension pipe with water flow

R+M Nr.	↔	↻	⊗
523 790 1	1,000 mm	1/4" M	1/4" F
523 790 2	1,500 mm	1/4" M	1/4" F
523 790 3	2,000 mm	1/4" M	1/4" F

### Vorwerk wash brushes



A= 300. B= 300 x 100 mm. Nylon

R+M Nr.	C	⊗
523 780	60 mm	1/4" F



A= 240. B= 230 x 80 mm. Hog hair

R+M Nr.	C	⊗
523 70	60 mm	1/4" F
523 75	90 mm	1/4" F



Brush. A= 260. B= 230 x 80 mm.  
Hog hair

R+M Nr.	C
523 72	60 mm
523 73	90 mm



Frame. 260 mm.  
Aluminium

R+M Nr.	⊗
523 76	1/4" F

### Adaptor



Adaptor for lances with coarse thread.  
Coarse thread : 1/4" M

R+M Nr.
010 003 610

### Air injector



1/4" M : 1/4" F. Flow at 100 bar

R+M Nr.	↔	⊗
108 290 60	13 l/min	1.5
108 290 20	34 l/min	2.5

## Brush holder



Suitable for all brushes. Hole spacing 202 mm.  
H x W x D = 90 x 250 x 100 mm

R+M Nr.	M
108 290 30	stainless steel

## easywash365+ brush holder

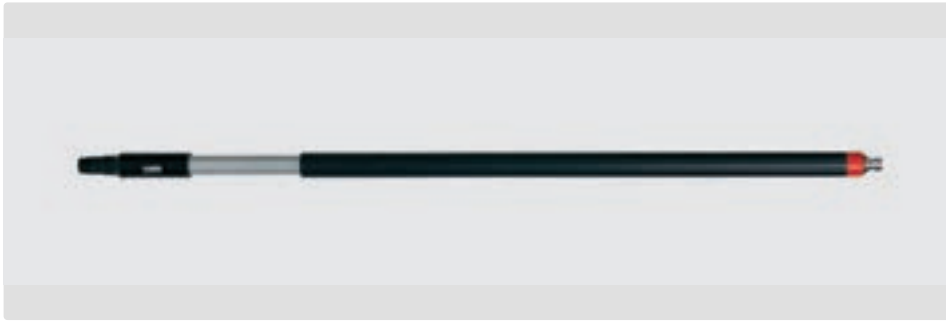


Container with overflow and lateral drain for cleaning. For wall and floor mounting. H x W x D = 670 x 340 x 143 mm

R+M Nr.	M
105 810	stainless steel



## Handles with water flow



Aluminium handle. Ergonomic handle with insulated grip. Connector suitable for Nito system

R+M Nr.	∅	↔	M	°C
527 001 405	34 mm	1,010 mm	aluminium	max. 50 °C

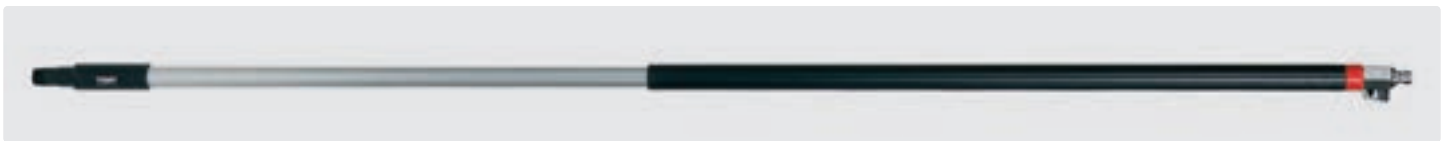
Adaptor for wash brushes with coarse thread

new



Adaptor for lances without coarse thread. Coarse thread F: thread M

R+M Nr.	↔
527 001 118	85 mm



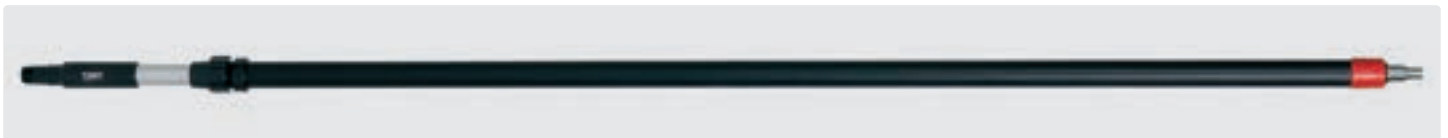
Aluminium handle. Ergonomic handle with insulated grip and ball valve. Connector suitable for Nito system

R+M Nr.	∅	↔	M	°C
527 001 406	34 mm	1,575 mm	aluminium	max. 50 °C



Aluminium handle. Ergonomic handle with insulated grip. Hose tail suitable for 1/2" and 3/4" hose

R+M Nr.	∅	↔	M	°C
527 001 400	34 mm	1,575 mm	aluminium	max. 50 °C



Aluminium handle. Telescopic handle with insulated grip. Hose tail suitable for 1/2" and 3/4" hose

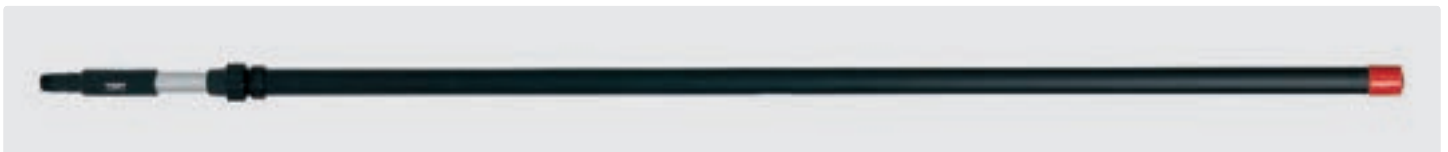
R+M Nr.	∅	↔	M	°C
527 001 402	50 mm	1,600-2,780 mm	aluminium	max. 50 °C

## Handles without water flow



Aluminium handle. Ergonomic handle with insulated grip

R+M Nr.	∅	↔	M	°C
527 001 403	34 mm	1,505 mm	aluminium	max. 50 °C



Aluminium handle. Telescopic handle with insulated grip

R+M Nr.	∅	↔	M	°C
527 001 401	50 mm	1,575-2,780 mm	aluminium	max. 50 °C

## Wash brushes with water flow

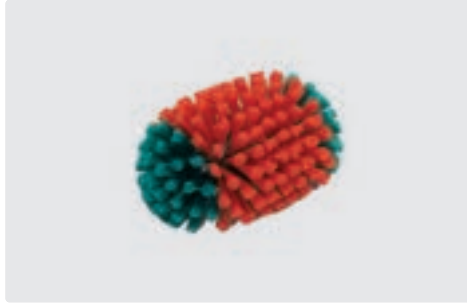
Hand wash brush



Brush with integrated water flow. Connection suitable for 16 mm (universal). Ideal for smaller cleaning applications. Bristles 50 mm

R+M Nr.	↔	(M)	°C
527 001 103	350 mm	polyester	max. 50 °C

Rim brush for trucks / busses



Brush for the cleaning of rims of trucks and busses. Connection for aluminium handles. Bristles 50 mm

R+M Nr.	↔	(M)	°C
527 001 102	230 mm	polyester	max. 50 °C

High-low wash brush



The form of the brush assures that the bristles are in constant contact with the surface. The brush is equipped with a rubber edge. Connection for aluminium handles. Bristles 50 mm

R+M Nr.	↔	(M)	°C
527 001 104	250 mm	polyester	max. 50 °C

Wash brush swivelling



Brush with swivel. The inclined/slanted bristles ensure that all corners can be reached. The brush is equipped with a rubber edge. Connection for aluminium handles. Bristles 50 mm

R+M Nr.	↔	(M)	°C
527 001 101	200 mm	polyester	max. 50 °C

Wash brush



Solid brush suitable for larger surfaces. Suitable for cleaning of upper areas. The brush is equipped with a rubber edge. Connection for aluminium handles. Bristles 50 mm

R+M Nr.	↔	(M)	°C
527 001 109	260 mm	polyester	max. 50 °C



Solid brush suitable for larger surfaces. Suitable for cleaning of upper areas. The brush is equipped with a rubber edge. Connection for aluminium handles. Bristles 50 mm

R+M Nr.	↔	(M)	°C
527 001 100	400 mm	polyester	max. 50 °C

Further brushes and brooms are presented in the chapter car wash.

## Quick couplings suitable for Nito system



Hose tail for 1/2" hose

R+M Nr.	(M)
527 003 001	nickel-plated brass



Plug 1/2" M

R+M Nr.	(M)
527 003 003	nickel-plated brass



Coupling NITO 1/2" F : coupling "universal"

R+M Nr.	(M)
527 003 010	nickel-plated brass

Symbols ↔ length (M) material °C temperature ∅ diameter

## Foam gun



## Features

- » Exceptional chemical resistance to acidic and caustic cleaner.
- » Foam generating wand creates a thick clinging foam.
- » Automatic dosing of chemicals.
- » Durable polymer mixing head with stainless steel screws.
- » Multi-ratio dial has 5 mixing settings and off.
- » Gun is removable from quick coupling for clear rinsing with water.
- » Easy filling by means of wide mouth.
- » Only works with water pipe pressure.
- » Suitable for all customary water couplings.
- » Chemical container volume 1,000 ml

## Applications

Designed for applications with acidic and caustic cleaner, soaps, disinfectants, degreasing and softening agents. The field of application is very versatile.

- » Food industry and canteen kitchen
- » Sanitary facilities and swimming baths
- » Cleaning of trucks, cars and other vehicles
- » Garages and petrol stations
- » Shops and workshops

The foam gun directly connected to the public water pipe produces a cleaning foam by means of foam injector. The water pressure sucks in the cleaning agent and air, both are being mixed to consistent foam, sprayed out via the spraying head and the foam wand. The cleaning agent can also purposely and automatically be diluted via a built-in proportioner so that the right mixture of chemical and water as foam can be chosen for the cleaning application.

## Technical specifications

Water pressure 2.5 - 6 bar (for maximum accuracy 3 - 4 bar)

Output 5.5 l/min

## Mixing Ratio

Multi-ratio dial has 5 mixing settings and off

A	B	C	D	E	0
1:128	1:64	1:32	1:20	1:10	off



R+M Nr.	⊙	📦
106 996 500	incl. coupler plugs "universal"	11

Please use the backflow preventer (R+M Nr. 734 10) on page 26.

Symbols ⊙ thread 📦 volume



Accumulator .....	71	Pressure switches .....	.80
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Hawk high pressure pumps .....	.59	Repair kits suitable for Kränzle .....	.48
High pressure check valves ST-264 .....	.68	Repair kits suitable for Speck high pressure pumps .....	.52
High Pressure Filter ST-33 .....	.72	Repair kits suitable for WAP .....	.48
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Hose clamps .....	.72	Suttner chemical suction sets .....	.72
INTERPUMP couplings and flanges .....	.47	Suttner flow switches .....	76-77
INTERPUMP high pressure pumps .....	.43	Suttner foam injectors .....	.71
INTERPUMP high pressure pumps for petrol engines .....	.45	Suttner regulation valves .....	.62
INTERPUMP high pressure pumps with built-in valve .....	.44	Suttner regulation valves ST-261 .....	60-61
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INTERPUMP repair kits .....	.46	UDOR high pressure pumps .....	.46
INTERPUMP special high pressure pumps .....	.44	Ultra High Pressure Filter .....	.72
Jetter Valves .....	.54	Valve "easystart" .....	.67

## Pump allocation according to pressure

(P)	←	(U)	(KW)	(TYP)	Page	R+M Nr,	Brand	(P)	←	(U)	(KW)	(TYP)	Page	R+M Nr,	Brand
50	42	600	4	W4	43	000 040 01	Interpump	172	42,5	1,450	13.7	TW 11025S	57	172 110 250	Comet
90	8	2,800	1.5	WW90	43	000 900 01	Interpump	175	19	1,100	6.9	530	58	135 30	CAT
90	8	2,800	1.5	WW90	43	000 900 04	Interpump	175	13	1,420	4.7	5CP2140W	58	132 140	CAT
100	21	1,450	4	WS102	43	001 020 01	Interpump	175	8,7	1,420	3.2	5CP2110W	58	132 110	CAT
100	30	1,450	5.5	WS104	43	001 040 01	Interpump	175	15	1,420	5.5	5CP2150	58	132 150	CAT
120	13	1,450	2.9	WS133	43	001 330 01	Interpump	175	15	950	5.5	5CP2120W	58	132 120	CAT
120	14	1,450	3	W124LX	43	001 240 02	Interpump	180	13	2,800	4	WW186	44	001 860 03*	Interpump
120	13	1,450	4	JK 13,12 N DX	56	170 278 64	Annovi	180	13	2,800	4	WW186	44	001 860 05**	Interpump
130	9,5	1,450	2.2	W130	43	001 300 01	Interpump	200	15	1,000	5.5	W201	43	002 010 02	Interpump
140	12	1,450	3	W140	43	001 400 01	Interpump	200	15	1,450	5.5	WS201	43	002 010 01	Interpump
140	12	1,450	3	W140	43	001 400 04	Interpump	200	15	1,450	5.5	WS201LX	43	002 010 11	Interpump
140	21	1,450	7.5	VHT4721	44	047 210 01	Interpump	200	21	1,450	7.5	WS202	43	002 020 01	Interpump
140	42	1,450	11.1	CC 42/14S	46	171 042 140	Udor	200	30	1,450	11	W2030	43	020 300 01	Interpump
140	11	1,450	3	XT11,14N	55	170 701 4	Annovi	200	35	1,450	13.5	W2035	43	020 350 01	Interpump
150	8	1,450	2.2	W150	43	001 500 01	Interpump	200	41	1,450	16	W2141	43	021 410 01	Interpump
150	14	1,450	4	W154	43	001 540 01	Interpump	200	15	2,800	5.5	WW209	44	002 090 03	Interpump
150	15	1,000	4	W151	43	001 510 02	Interpump	200	39	1,750	14.7	VHT6639	44	066 390 01	Interpump
150	15	1,450	4	WS151	43	001 510 01	Interpump	200	15	2,800	5.5	WW209	44	002 090 01	Interpump
150	15	1,450	4	WS151LX	43	001 510 11	Interpump	200	21	1,450	7.9	CC21/20S	46	171 021 200	Udor
150	15	2,800	4	WW156	43	001 560 01	Interpump	200	26	1,450	9.8	CC26/20S	46	171 026 200	Udor
150	21	1,450	5.5	WS152	43	001 520 01	Interpump	200	30	1,450	11.3	CC 30/20S	46	171 030 200	Udor
150	21	1,450	5.5	RK21,15HN	55	170 206 45	Annovi	200	15	1,450	5.5	RK15,20HN	55	170 206 38	Annovi
150	30	1,450	7.4	WS153	43	001 530 01	Interpump	200	18	1,450	7.5	RK18,20HN	55	170 206 43	Annovi
150	50	1,450	14.7	W1550	43	015 500 01	Interpump	200	26	1,450	9.2	XW26,20N	55	170 200 59	Annovi
150	15	1,450	4	XM15,15N	55	170 790 6	Annovi	200	30	1,450	10	XW30,20N	55	170 200 60	Annovi
150	30	1,450	7.5	XW30,15N	55	170 201 79	Annovi	200	15	1,450	5.7	NMT 1520R	59	174 015 200	Hawk
150	42	1,450	11.8	XWL42,15N	55	170 210 60	Annovi	200	21	1,450	7.9	NMT 2120R	59	174 021 200	Hawk
150	50	1,450	10.9	CC 50/15S	46	171 048 120	Udor	207	15	1,450	5.5	FW 4030 S	57	172 040 300	Comet
150	50	1,450	10.9	CC 50/15SL *	46	171 048 121	Udor	207	18,8	1,450	6.4	FW 5030 S	57	172 050 300	Comet
150	15	1,450	4	JK 15,15 N DX	56	170 278 65	Annovi	207	21	1,450	7.1	FW 5530 S	57	172 055 300	Comet
150	21	1,450	5.5	JK 21,15 N DX	56	170 278 66	Annovi	210	19	1,420	8.3	5CP5120	58	135 120	CAT
150	7,5	1,420	2.3	3CP1130	58	131 130	CAT	210	15	1,450	6.1	TTL 1520	59	177 015 200	Bertolini
150	10	1,420	3	300	58	133 00	CAT	210	21	1,450	8.6	TTL 2120	59	177 021 200	Bertolini
150	11	1,420	4.4	3CP1140	58	131 140	CAT	240	30	1,450	14.2	XLT 3025IR	59	174 030 240	Hawk
150	13	1,420	4.1	340	58	133 40	CAT	248	27	1,450	16.5	TW 7036S	57	172 070 360	Comet
150	13	1,420	4.1	340F	58	133 401	CAT	250	25	1,450	13.5	W2525	43	025 250 01	Interpump
150	15	1,420	4.6	350	58	133 50	CAT	250	30	1,450	14	XW30,25N	55	170 211 37	Annovi
150	15	950	4.6	310	58	133 10	CAT	275	15	1,450	8.2	RK15,28HN	55	170 206 40	Annovi
160	18	1,450	5.5	WS162	43	001 620 01	Interpump	276	19	1,450	10	RW 5040S	57	172 050 400	Comet
160	30	1,450	9.2	WS1630	43	016 300 01	Interpump	300	13	1,450	7.6	TTL 1330	59	177 013 300	Bertolini
160	15	1,450	4.5	VHT4715	44	047 150 01	Interpump	300	20	1,450	11.5	TTL 2030	59	177 020 300	Bertolini
160	18	1,450	5.5	VHT4718	44	047 180 01	Interpump	300	24	1,450	14.1	XLT 2530IR	59	174 024 300	Hawk
170	17	2,800	5.5	WW176	43	001 760 01	Interpump	345	18	1,450	15.5	TW 4550S	57	172 045 500	Comet
170	46	1,750	14.7	VHT6646	44	066 460 01	Interpump	400	18	1,450	14.7	W4018	43	040 180 01	Interpump
170	35	1,450	11.2	XLT 3517IR	59	174 035 170	Hawk	500	15	1,450	14.7	W5015	43	050 150 01	Interpump
172	38	1,450	12.5	TW 10025S	57	172 100 250	Comet								

LX= shaft on the left

Symbols (P) pressure ← flow (U) revolutions (KW) kilowatt (TYP) type



## Pump allocation according to flow rate

☰	P	U	KW	TYP	Page	R+M Nr,	Brand	☰	P	U	KW	TYP	Page	R+M Nr,	Brand
7,5	150	1,420	2.3	3CP1130	58	131 130	CAT	18	160	1,450	5.5	VHT4718	44	047 180 01	Interpump
8	90	2,800	1.5	WW90	43	000 900 01	Interpump	18	200	1,450	7.5	RK18,20HN	55	170 206 43	Annovi
8	90	2,800	1.5	WW90	43	000 900 04	Interpump	18	345	1,450	15.5	TW 4550S	57	172 045 500	Comet
8	150	1,450	2.2	W150	43	001 500 01	Interpump	18,8	207	1,450	6.4	FW 5030 S	57	172 050 300	Comet
8,7	175	1,420	3.2	5CP2110W	58	132 110	CAT	19	175	1,100	6.9	530	58	135 30	CAT
9,5	130	1,450	2.2	W130	43	001 300 01	Interpump	19	276	1,450	10	RW 5040S	57	172 050 400	Comet
10	150	1,420	3	300	58	133 00	CAT	19	210	1,420	8,3	5CP5120	58	135 120	CAT
11	140	1,450	3	XT11,14N	55	170 701 4	Annovi	20	300	1,450	11,5	TTL 2030	59	177 020 300	Bertolini
11	150	1,420	4.4	3CP1140	58	131 140	CAT	21	100	1,450	4	WS102	43	001 020 01	Interpump
12	140	1,450	3	W140	43	001 400 01	Interpump	21	150	1,450	5.5	RK21,15HN	55	170 206 45	Annovi
12	140	1,450	3	W140	43	001 400 04	Interpump	21	150	1,450	5.5	WS152	43	001 520 01	Interpump
13	120	1,450	2.9	WS133LX	43	001 330 01	Interpump	21	200	1,450	7.5	WS202	43	002 020 01	Interpump
13	180	2,800	4	WW186	44	001 860 03*	Interpump	21	140	1,450	7.5	VHT4721	44	047 210 01	Interpump
13	180	2,800	4	WW186	44	001 860 05**	Interpump	21	200	1,450	7.9	CC21/20S	46	171 021 200	Udor
13	120	1,450	4	JK 13,12 N DX	56	170 278 64	Annovi	21	150	1,450	5.5	JK 21,15 N DX	56	170 278 66	Annovi
13	150	1,420	4.1	340	58	133 40	CAT	21	207	1,450	7.1	FW 5530 S	57	172 055 300	Comet
13	150	1,420	4.1	340F	58	133 401	CAT	21	200	1,450	7.9	NMT 2120R	59	174 021 200	Hawk
13	175	1,420	4.7	5CP2140W	58	132 140	CAT	21	210	1,450	8.6	TTL 2120	59	177 021 200	Bertolini
13	300	1,450	7.6	TTL 1330	59	177 013 300	Bertolini	24	300	1,450	14.1	XLT 2530IR	59	174 024 300	Hawk
14	120	1,450	3	W124LX	43	001 240 02	Interpump	25	250	1,450	13.5	W2525	43	025 250 01	Interpump
14	150	1,450	4	W154	43	001 540 01	Interpump	26	200	1,450	9.8	CC26/20S	46	171 026 200	Udor
15	150	1,000	4	W151	43	001 510 02	Interpump	26	200	1,450	9.2	XW26,20N	55	170 200 59	Annovi
15	150	1,450	4	WS151	43	001 510 01	Interpump	27	248	1,450	16.5	TW 7036S	57	172 070 360	Comet
15	150	1,450	4	WS151LX	43	001 510 11	Interpump	30	100	1,450	5.5	WS104	43	001 040 01	Interpump
15	150	2,800	4	WW156	43	001 560 01	Interpump	30	150	1,450	7.4	WS153	43	001 530 01	Interpump
15	200	1,000	5.5	W201	43	002 010 02	Interpump	30	160	1,450	9.2	WS1630	43	016 300 01	Interpump
15	200	1,450	5.5	WS201	43	002 010 01	Interpump	30	200	1,450	11	W2030	43	020 300 01	Interpump
15	200	1,450	5.5	WS201LX	43	002 010 11	Interpump	30	200	1,450	11.3	CC 30/20S	46	171 030 200	Udor
15	200	2,800	5.5	WW209	43	002 090 03	Interpump	30	150	1,450	7.5	XW30,15N	55	170 201 79	Annovi
15	200	2,800	5.5	WW209	43	002 090 01	Interpump	30	200	1,450	10	XW30,20N	55	170 200 60	Annovi
15	500	1,450	14.7	W5015	43	050 150 01	Interpump	30	250	1,450	14	XW30,25N	55	170 211 37	Annovi
15	160	1,450	4.5	VHT4715	44	047 150 01	Interpump	30	240	1,450	14.2	XLT 3025IR	59	174 030 240	Hawk
15	150	1,450	4	XM15,15N	55	170 790 6	Annovi	35	200	1,450	13.5	W2035	43	020 350 01	Interpump
15	200	1,450	5.5	RK15,20HN	55	170 206 38	Annovi	35	170	1,450	11.2	XLT 3517IR	59	174 035 170	Hawk
15	275	1,450	8.2	RK15,28HN	55	170 206 40	Annovi	38	172	1,450	12.5	TW 10025S	57	172 100 250	Comet
15	150	1,450	4	JK 15,15 N DX	56	178 278 65	Annovi	39	200	1,750	14.7	VHT6639	44	066 390 01	Interpump
15	207	1,450	5.5	FW 4030 S	57	172 040 300	Comet	41	200	1,450	16	W2141	43	021 410 01	Interpump
15	150	1,420	4.6	350	58	133 50	CAT	42	50	600	4	W4	43	000 040 01	Interpump
15	150	950	4.6	310	58	133 10	CAT	42	140	1,450	11.1	CC 42/14S	46	171 042 140	Udor
15	175	1,420	5.5	5CP2150	58	132 150	CAT	42	150	1,450	11.8	XWL42,15N	55	170 210 60	Annovi
15	175	950	5.5	5CP2120W	58	132 120	CAT	42,5	172	1,450	13.7	TW 11025S	57	172 110 250	Comet
15	200	1,450	5.7	NMT 1520R	59	174 015 200	Hawk	46	170	1,750	14.7	VHT6646	44	066 460 01	Interpump
15	210	1,450	6.1	TTL 1520	59	177 015 200	Bertolini	50	150	1,450	10.9	CC 50/15S	46	171 048 120	Udor
17	170	2,800	5.5	WW176	43	001 760 01	Interpump	50	150	1,450	10.9	CC 50/15SL *	46	171 048 121	Udor
18	160	1,450	5.5	WS162	43	001 620 01	Interpump	50	150	1,450	14.7	W1550	43	015 500 01	Interpump
18	400	1,450	14.7	W4018	43	040 180 01	Interpump								

\* Incl. ULH

\*\* Version "BV"

## Pump/motor assignment



Pump	TYP	coupling	flange	solid shaft	KW
<b>Annovi Reverberi</b>					
170 701 4	XT11.14N	100 004 41	100 004 40	175 002 004	2.2
170 790 6	XM15.15N	100 151 11	100 015 10	175 002 001	4.0
170 278 64	JK13.12NDX	100 151 11	100 015 10	175 002 001	4.0
170 278 65	JK15.15NDX	100 151 11	100 015 10	175 002 001	4.0
170 206 38	RH15.20HN	100 151 11	100 015 10	175 002 002	5.5
170 206 45	RK21.15HN	100 151 11	100 015 10	175 002 002	5.5
170 278 66	JK21.15NDX	100 151 11	100 015 10	175 002 002	5.5
170 201 79	XW30.15N	100 013 21	100 013 20	175 002 091	7.5
170 206 43	RK18.20HN	100 013 21	100 013 20	175 002 091	7.5
<b>Bertolini</b>					
177 015 200	TTL 1520	100 151 11	100 015 10	175 002 002	5.5
177 013 300	TTL 1330	100 013 21	100 013 20	175 002 091	7.5
<b>Comet</b>					
172 040 300	FW 4030 S	100 151 11	100 015 10	175 002 002	5.5
172 050 300	FW 5030 S	100 013 21	100 013 20	175 002 091	7.5
172 055 300	FW 5530 S	100 013 21	100 013 20	175 002 091	7.5
<b>Hawk</b>					
174 015 200	NMT 1520R	100 151 11	100 015 10	175 002 002	5.5
174 021 200	NMT 2120R	100 013 21	100 013 20	175 002 091	7.5
<b>Interpump</b>					
001 300 01	W130	100 004 41	100 004 40	175 002 004	2.2
001 500 01	W150	100 004 41	100 004 40	175 002 004	2.2
001 330 01	WS133	100 151 11	100 015 10	175 002 001	4.0
001 240 02	W124LX	100 004 41	100 004 40	175 002 001	4.0
001 020 01	WS102	100 151 11	100 015 10	175 002 001	4.0
001 400 01	W140	100 004 41	100 004 40	175 002 001	4.0
001 540 01	W154	100 004 41	100 004 40	175 002 001	4.0
001 510 01	WS151	100 151 11	100 015 10	175 002 001	4.0
001 510 11	WS151LX	100 151 11	100 015 10	175 002 001	4.0
047 150 01	VHT4715	100 151 11	100 015 10	175 002 001	4.0
001 520 01	WS152	100 151 11	100 015 10	175 002 002	5.5
001 620 01	WS162	100 151 11	100 015 10	175 002 002	5.5
002 010 01	WS201	100 151 11	100 015 10	175 002 002	5.5
002 010 11	WS201LX	100 151 11	100 015 10	175 002 002	5.5
047 180 01	VHT4718	100 151 11	100 015 10	175 002 002	5.5
002 020 01	WS202	100 013 21	100 013 20	175 002 091	7.5
047 210 01	VHT4721	100 013 21	100 013 20	175 002 091	7.5



<b>CAT</b>					
131 130	3CP1130	133 073 6	137 017 24	175 002 004	2.2
133 00	300	133 072 1	133 071 5	175 002 016	4.0
133 40	340	133 072 1	133 071 5	175 002 001	4.0
133 50	350	133 072 1	133 071 5	175 002 001	4.6
133 401	340F	133 072 1	133 071 5	175 002 001	4.0
131 140	3CP1140	133 073 6	137 017 24	175 002 016	4.4
132 110	5CP2110W	133 072 1	137 017 30	175 002 001	4.0
132 140	5CP2140W	133 072 1	137 017 30	175 002 002	5.5
132 150	5CP2150	133 072 1	137 017 30	175 002 002	5.5

Pump	TYP	flange	hollow shaft	KW
<b>Annovi Reverberi</b>				
170 701 4	XT11.14N	175 300 306 1	175 001 061	3.0
170 278 64	JK13.12NDX		175 001 081	4.0
170 278 65	JK15.15NDX		175 001 081	4.0
170 790 6	XM15.15N	-	175 001 081	4.0
170 206 38	RK15.20HN	-	175 001 090	5.5
170 278 66	JK21.15NDX		175 001 090	5.5
170 201 79	XW30.15N	-	175 001 120	7.5
170 206 43	RK18.20HN	-	175 001 120	7.5
<b>Comet</b>				
172 040 300	FW 4030 S	-	175 001 090	5.5
<b>Hawk</b>				
174 015 200	NMT 1520R	-	175 001 090	5.5
<b>Interpump</b>				
001 330 01	WS133	-	175 001 061	3.0
001 240 02	W124LX	175 300 306 1	175 001 061	3.0
001 400 01	W140	175 300 306 1	175 001 061	3.0
001 020 01	WS102	-	175 001 081	4.0
001 540 01	W154	175 300 307 4	175 001 081	4.0
001 510 01	WS151	-	175 001 081	4.0
001 510 11	WS151LX	-	175 001 081	4.0
047 150 01	VHT4715	-	175 001 081	4.0
001 620 01	WS162	-	175 001 090	5.5
047 180 01	VHT4718	-	175 001 090	5.5
002 010 01	WS201	-	175 001 090	5.5
002 010 11	WS210LX	-	175 001 090	5.5
047 210 01	VHT4721	-	175 001 120	7.5
002 020 01	WS202	-	175 001 120	7.5

## INTERPUMP high pressure pumps

### Standard



### Version "B"



### Repair kits

01



Valves 6 pieces

02



Seal kit for 1 piston

03



Sleeve kits for 3 pistons

04



Oil seal kits for 3 pistons

05



Ceramic socket for 1 piston

06



Tension screws for 3 pistons

07



Valve plugs

08



O-ring for valve plugs 1 piece

						Standard	"B"	01	02	03	04	05	06	07	08
(P)	(←)	(U)	(KW)	(TYP)	serie	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
50	42	600	4.0	W4	69	000 040 01		340 062 01	340 039 01	340 040 01	340 037 01	690 400 09	340 074 01	692 180 22***	904 055 00
90	8	2,800	1.5	WW90	51	000 900 01	000 900 04	340 001 01	340 096 01	340 097 01	340 083 01	510 400 09		340 084 01*	903 847 00
100	21	1,450	4	WS102	47	001 020 01		340 001 01	340 028 01	340 069 01	340 002 01	470 404 09	340 006 01	340 004 01*	903 847 00
100	30	1,450	5.51	WS104	69	001 040 01		340 062 01	340 082 01	340 069 01	340 037 01	470 404 09	340 054 01	982 312 00	904 051 00
120	13	1,450	2.9	WS133	47	001 330 01		340 001 01	340 028 01	340 069 01	340 002 01	470 404 09	340 006 01	340 004 01*	903 847 00
120	14	1,450	3	W124LX	44	001 240 02		340 123 01	340 131 01	340 127 01	340 023 01	440 401 09		340 124 01*	903 847 00
130	9,5	1,450	2.2	W130	44	001 300 01		340 123 01	340 130 01	340 088 01	340 023 01	520 400 09		340 124 01*	903 847 00
140	12	1,450	3	W140	44	001 400 01	001 400 04	340 123 01	340 131 01	340 127 01	340 023 01	440 401 09		340 124 01*	903 847 00
150	8	1,450	2.2	W150	44	001 500 01		340 123 01	340 130 01	340 088 01	340 023 01	520 400 09		340 124 01*	903 847 00
150	14	1,450	4	W154	44	001 540 01		340 123 01	340 131 01	340 127 01	340 023 01	440 401 09		340 124 01*	903 847 00
150	15	1,000	4	W151	47	001 510 02		340 001 01	340 028 01	340 069 01	340 002 01	470 404 09	340 006 01	340 004 01*	903 847 00
150	15	1,450	4	WS151	47	001 510 01		340 001 01	340 028 01	340 069 01	340 002 01	470 404 09	340 006 01	340 004 01*	903 847 00
150	15	2,800	4	WW156	44	001 560 01		340 123 01	340 130 01	340 088 01	340 023 01	520 400 09		340 124 01*	903 847 00
150	15	1,450	4	WS151LX	47	001 510 11		340 001 01	340 028 01	340 069 01	340 002 01	470 404 09	340 006 01	340 004 01*	903 847 00
150	21	1,450	5.5	WS152	47	001 520 01		340 001 01	340 028 01	340 069 01	340 002 01	470 404 09	340 006 01	340 005 01*	903 847 00
150	30	1,450	7.35	WS153	69	001 530 01		340 062 01	340 082 01	340 069 01	340 037 01	470 404 09	340 054 01	982 312 00	904 051 00
150	50	1,450	14.7	W1550	66	015 500 01		340 169 01	340 247 01	340 248 01	340 002 01	660 410 09		661 300 41	903 857 00**
160	18	1,450	5.5	WS162	47	001 620 01		340 001 01	340 029 01	340 148 01	340 002 01	470 405 09	340 006 01	340 005 01*	903 847 00
160	30	1,450	9.2	WS1630	47	016 300 01		340 169 01	340 029 01	340 148 01	340 002 01	470 405 09	340 006 01	982 300 00	903 864 00
170	17	2,800	5.5	WW176	44	001 760 01		340 123 01	340 130 01	340 088 01	340 023 01	520 400 09		340 124 01*	903 847 00
200	15	1,000	5.5	W201	47	002 010 02		340 001 01	340 028 01	340 069 01	340 002 01	470 404 09	340 006 01	340 005 01*	903 847 00
200	15	1,450	5.5	WS201	47	002 010 01		340 001 01	340 028 01	340 069 01	340 002 01	470 404 09	340 006 01	340 005 01*	903 847 00
200	15	1,450	5.5	WS201LX	47	002 010 11		340 001 01	340 028 01	340 069 01	340 002 01	470 404 09	340 006 01	340 005 01*	903 847 00
200	21	1,450	7.5	WS202	47	002 020 01		340 001 01	340 028 01	340 069 01	340 002 01	470 404 09	340 006 01	340 005 01*	903 847 00
200	30	1,450	11	W2030	66	020 300 01		340 169 01	340 173 01	340 172 01	340 002 01	660 401 09		661 300 41	903 857 00**
200	35	1,450	13.5	W2035	66	020 350 01		340 169 01	340 173 01	340 172 01	340 002 01	660 401 09		661 300 41	903 857 00**
200	41	1,450	16	W2141	66	021 410 01		340 169 01	340 182 01	340 181 01	340 002 01	660 404 09		661 300 41	903 857 00**
200	15	2,800	5.5	WW209	44	002 090 01		340 123 01	340 130 01	340 088 01	340 023 01	520 400 09		340 124 01*	903 847 00
250	25	1,450	13.5	W2525	66	025 250 01		340 169 01	340 171 01	340 170 01	340 002 01	660 400 09		661 300 41	903 857 00**
400	18	1,450	14.7	W4018	66	040 180 01		340 150 01	340 175 01	340 174 01	340 002 01	660 402 09		661 301 41	903 857 00**
500	15	1,450	14.7	W5015	66	050 150 01		340 150 01	340 175 01	340 174 01	340 002 01	660 402 09		661 301 41	903 857 00**

\* Kit with 6 valve plugs  
LX = shaft on the left

\*\* back ring 905 165 00 required  
\*\*\* 2 valve plates are required (2 x 692 180 22)

Symbols (P) pressure (←) flow (U) revolutions (KW) kilowatt (TYP) type

## INTERPUMP high pressure pumps with built-in valve

### Version "V"



### Repair kits

01



Valves 6 pieces

02



Seal kit for 1 piston

03



Sleeve kits for 3 pistons

04



Oil seal kits for 3 pistons

### Version "BV"

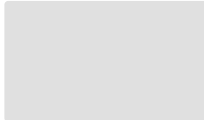


05



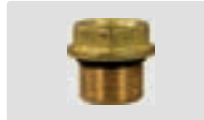
Ceramic socket for 1 piston

06



Valve plugs. Kit with 6 plugs

07



08



O-ring for valve plugs 1 piece

		"V"	"BV"	01	02	03	04	05	06	07	08				
(P)	(U)	(KW)	(TYP)	serie	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.				
180	13	2.800	4	WW186	44	001 860 03	001 860 05	340 123 01	340 130 01	340 088 01	340 023 01	520 400 09		340 124 01	903 847 00
200	15	2.800	5,5	WW209	44	002 090 03		340 123 01	340 130 01	340 088 01	340 023 01	520 400 09		340 124 01	903 847 00

■ Type "H" is equipped with an automatic pressure regulator that allows to zero the pump pressure.

## INTERPUMP special high pressure pumps

### Version "VHT"



Series "VHT". Made out of high quality components and materials. Especially designed for car wash and industrial applications of up to 85 °C

### Repair kits

01



Valves 6 pieces

02



Seal kit for 1 piston

03



Sleeve kits for 3 pistons

04



Oil seal kits for 3 pistons

05



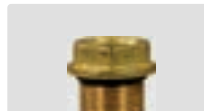
Ceramic socket for 1 piston

06



Tension screws for 3 pistons

07



Valve plugs

08



O-ring for valve plugs 1 piece

		"VHT"	01	02	03	04	05	06	07	08				
(P)	(U)	(KW)	(TYP)	Serie	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.				
140	21	1,450	5.5	VHT4721	47.VHT	047 210 01	340 201 01	340 203 01	340 202 01	340 002 01	470 405 09	340 006 01	340 005 01*	903 847 00
160	15	1,450	4.5	VHT4715	47.VHT	047 150 01	340 201 01	340 203 01	340 202 01	340 002 01	470 405 09	340 006 01	340 005 01*	903 847 00
160	18	1,450	5.5	VHT4718	47.VHT	047 180 01	340 201 01	340 203 01	340 202 01	340 002 01	470 405 09	340 006 01	340 005 01*	903 847 00
170	46	1,750	14.7	VHT6646	66.VHT	066 460 01	340 169 01	340 211 01	340 210 01	340 002 01	660 404 09		661 303 41	903 857 00
200	39	1,750	14.7	VHT6639	66.VHT	066 390 01	340 169 01	340 209 01	340 208 01	340 002 01	660 401 09		661 303 41	903 857 00

\* Kit with 6 valve plugs

The photos showing the pumps and repair kits are only for your information. The products might differ from the photos regarding their dimension and design.



## INTERPUMP motor pumps

### Standard



Motor pump with switch and cable.  
Dimensions: 455 x 320 x 258 mm.

### Repair kits

<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>
Valves 6 pieces	Seal kit for 1 piston	Sleeve kits for 3 pistons	Oil seal kits for 3 pistons
<b>05</b>	<b>06</b>	<b>07</b>	<b>08</b>
Ceramic socket for 1 piston	Valve plugs. Kit with 6 plugs	O-ring for valve plugs 1 piece	

Standard	Total stop	01	02	03	04	05	06	07	08
R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
001 200 01	001 200 03	340 123 01	340 131 01	340 127 01	340 023 01	440 401 09		340 124 01	903 847 00

<b>P</b>	<b>←</b>	<b>U</b>	<b>KW</b>	<b>TYP</b>	<b>V</b>
120	14	1,450	3.8	M14-120	400

Standard

Total stop

01

02

03

04

05

06

07

08

R+M Nr.

R+M Nr.

R+M Nr.

R+M Nr.

R+M Nr.

R+M Nr.

R+M Nr.

R+M Nr.

R+M Nr.

R+M Nr.

001 200 01

001 200 03

340 123 01

340 131 01

340 127 01

340 023 01

440 401 09

340 124 01

903 847 00

## INTERPUMP high pressure pumps for petrol engines

### Version "C"



### Repair kits

<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>
Valves 6 pieces	Seal kit for 1 piston	Sleeve kits for 3 pistons	Oil seal kits for 3 pistons
<b>05</b>	<b>06</b>	<b>07</b>	<b>08</b>
Ceramic socket for 1 piston	Valve plugs. Kit with 6 plugs	O-ring for valve plugs 1 piece	

### Version "CV"



"C"	"CV"	01	02	03	04	05	06	07	08
R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
	015 130 07	340 123 01	340 096 01	340 097 01	340 083 01	510 400 09		340 157 01	903 847 00
009 610 06	009 610 07	340 123 01	340 130 01	340 088 01	340 023 01	520 400 09		340 124 01	903 847 00
009 620 06		340 123 01	340 130 01	340 088 01	340 125 01	520 400 09		340 124 01	903 847 00

<b>P</b>	<b>←</b>	<b>U</b>	<b>KW</b>	<b>TYP</b>	<b>Serie</b>
150	13	3,400	3.67	TT1513C	51
170	15	3,400	4.77	WW961C	44
170	17.4	3,400	5.51	WW962C	44

"C"

"CV"

R+M Nr.

R+M Nr.

R+M Nr.

R+M Nr.

R+M Nr.

R+M Nr.

R+M Nr.

R+M Nr.

009 610 06

009 610 07

340 123 01

340 130 01

340 088 01

340 023 01

520 400 09

340 124 01

903 847 00

009 620 06

340 123 01

340 130 01

340 088 01

340 125 01

520 400 09

340 124 01

903 847 00

### Valves

- Type "H"** is equipped with an automatic pressure regulator that allows to zero the pump pressure.
- Type "K"** is equipped with an automatic pressure regulator that allows to zero the pressure in the entire system (pump and hose).

### Shaft

- 3/4" 1"

Symbols **P** pressure **←** flow **U** revolutions **KW** kilowatt **TYP** type **V** voltage

## INTERPUMP repair kits

### Valves



6 pieces

R+M Nr.	TYP
340 001 01	Kit 1
340 043 01	Kit 43
340 062 01	Kit 62
340 123 01	Kit 123
340 169 01	Kit 169

### Hot water kit



For 3 pistons with valves.  
Suitable for hot water. For pumps series 47. Max. 85 °C

R+M Nr.	TYP	∅
340 220 01	Kit 220	20 mm
340 222 01	Kit 222	22 mm

### Seal kits



For 1 piston

R+M Nr.	TYP	∅
340 027 01	Kit 27	20 mm
340 028 01	Kit 28	20 mm
340 029 01	Kit 29	22 mm
340 080 01	Kit 80	45 mm
340 082 01	Kit 82	20 mm
340 092 01	Kit 92	15 mm
340 096 01	Kit 96	15 mm
340 130 01	Kit 130	15 mm
340 131 01	Kit 131	18 mm
340 167 01	Kit 167	18 mm
340 203 01	Kit 203	22 mm
340 205 01	Kit 205	18 mm

### Sleeve kits



For 3 pistons

R+M Nr.	TYP	∅
340 019 01	Kit 19	20 mm
340 069 01	Kit 69	20 mm
340 088 01	Kit 88	15 mm
340 097 01	Kit 97	15 mm
340 127 01	Kit 127	18 mm
340 141 01	Kit 141	18 mm
340 148 01	Kit 148	22 mm
340 160 01	Kit 160	15 mm
340 161 01	Kit 161	18 mm
340 172 01	Kit 172	22 mm
340 174 01	Kit 174	16 mm
340 202 01	Kit 202	22 mm

### Valve plugs



6 pieces

R+M Nr.	TYP	∅
340 004 01	Kit 4	M24x2x16
340 005 01	Kit 5	M24x2x16 (NK)

### Valves



6 pieces. For hot water. Max. 85 °C

R+M Nr.	TYP
340 201 01	Kit 201

### Special oil



R+M Nr.	VPE
150 000 1	1 x 1 l
150 000 2	24 x 1 l

### Oil seal kits



For 3 pistons

R+M Nr.	TYP	∅	∅	∅	∅
340 002 01	Kit 2	22	32	5.5	
340 023 01	Kit 23	20	30	5.0	
340 024 01	Kit 24	22	35	8.0	
340 037 01	Kit 37	32	42	7.0	
340 083 01	Kit 83	15	24	5.0	
340 159 01	Kit 159	18	26	6.0	

### Tension screws



Screw with gasket seal

R+M Nr.	TYP
340 006 01	Kit 6
340 054 01	Kit 54

### Ceramic sockets



Ceramic

R+M Nr.	I	∅
510 400 09	25.0 mm	15 mm
520 400 09	37.5 mm	15 mm
440 401 09	37.5 mm	18 mm
500 404 09	40.0 mm	20 mm
470 404 09	50.0 mm	20 mm
470 405 09	50.0 mm	22 mm
660 401 09	54.0 mm	22 mm

### O-rings for valve plugs



R+M Nr.	TYP	I	∅
903 847 00	M24	2.62	20.24
904 051 00	M32	3.53	26.58

## UDOR high pressure pumps

### Pumps



### Pump

P	←	U	KW	TYP
150	50	1,450	10.9	CC50/15S
150	50	1,450	10.9	CC50/15SL *
140	42	1,450	11.1	CC42/14S
200	21	1,450	7.9	CC21/20S
200	26	1,450	9.8	CC26/20S
200	30	1,450	11.3	CC30/20S

### Repair kits



01 Valves 6 pieces    02 Seal kits for 3 pistons    03 Piston rings for 3 pistons    04 Oil seal kit for 1 piston    05 Ceramic socket for 1 piston    06 Fastening kit for 3 pistons

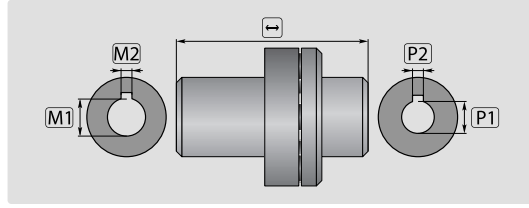
R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
171 048 120	171 606 103	171 606 112	171 606 119	171 000 743	171 120 534	171 606 138
171 048 121	171 606 103	171 606 112	171 606 119	171 000 743	171 120 534	171 606 138
171 042 140	171 606 103	171 606 112	171 606 119	171 000 743	171 120 534	171 606 106
171 021 200	171 606 103	171 606 110	171 606 117	171 000 743	171 120 532	171 606 106
171 026 200	171 606 103	171 606 110	171 606 117	171 000 743	171 120 532	171 606 106
171 030 200	171 606 103	171 606 111	171 606 118	171 000 743	171 120 533	171 606 106

\* shaft on left

Symbols P pressure ← flow U revolutions KW kilowatt TYP type ∅ diameter ∅ thread ∅ internal diameter I height ← length ∅ diameter

## INTERPUMP couplings and flanges

### Flexible couplings



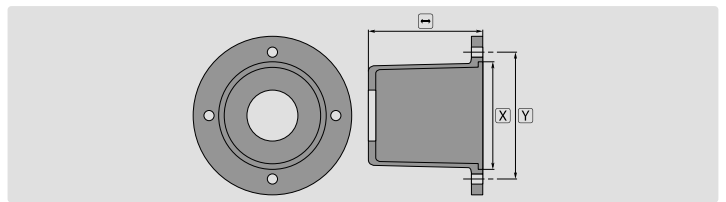
#### Rubber pads



R+M Nr.
100 090 47

R+M Nr.	TYP	↔	M1	M2	P1	P2	pump series
100 019 11	ZG091	93	28	8	24	8	50
100 151 11	ZG151	105	28	8	24	8	47 - 47VHT - 47SS - 66 - 66VHT - 66SS - E3
100 015 21	ZG202	114	38	10	24	8	47 - 47VHT - 47SS - 66 - 66VHT - 66SS - E3
100 004 41	ZG044	102	28	8	24	8	44 - 60 - 60VHT - 63 - 63HTS - 63SS - E2
100 013 21	ZG132	121	38	10	24	8	47 - 47VHT - 47SS - 66 - 66VHT - 66SS - E3

### Flange



R+M Nr.	TYP	↔	X	Y	engine flange	pump series
100 009 10	ZF091	101	110	130	B3 - B14 (100)	50 - 51
100 015 10	ZF151	110	110	130	B3 - B14 (100-112)	47 - 47VHT - 47SS - 66 - 66VHT - 66SS - E3
100 004 40	ZF044	110	110	130	B3 - B14 (100-112)	44 - 60 - 60VHT - 63 - 63HTS - 63SS - E2
100 013 20	ZF132	127	130	165	B3 - B14 (132)	47 - 47VHT - 47SS - 66 - 66VHT - 66SS - E3

## Gears for pumps

### Type RS 500 for petrol engines



Gear ratio 1 : 2.2  
 Engine: up to 18.5 kW  
 Motor shaft Ø 25.4 mm = 1"  
 Pump shaft Ø 24 mm. Engines:  
 Acme, Aspera Motors, Briggs & Stratton, Honda, CO.TI.EMME, Intermotor, Lombardini, Ruggerini. Pumps: Comet: LW, HW, RW, SW, TW. AR: serie 228, serie 194. IP: serie 47, serie 66

R+M Nr.
109 510 00

### Type B 18 for petrol engines



Gear ratio 1 : 2.176.  
 Engine: 8 - 13 KW.  
 Motor shaft Ø 25.4 mm = 1"  
 Pump shaft Ø 24 mm. Engines:  
 Acme, Aspera Motors, Briggs & Stratton, Honda, CO.TI.EMME, Intermotor, Lombardini, Ruggerini. Pumps: AR, Bertolini, Comet, Interpump, Leuco, Hawk, Udor

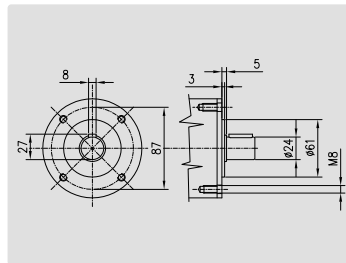
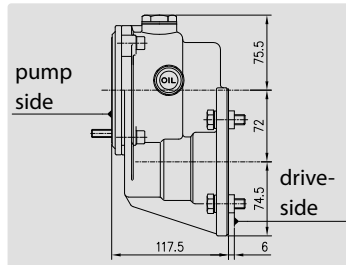
R+M Nr.
176 000 000

### Type M 261 for p. t. o. shafts



Gear ratio 2.61 : 1.  
 Engine: 11.19 KW at 540 r.p.m.  
 Motor shaft Ø 1" 3/8 Z 6. (P.T.O.)  
 Pump shaft Ø 24 mm.  
 Engines:  
 Comet: LW, HW, RW, FW, TW.  
 Other pump manufacturers are available on request

R+M Nr.
172 900 095



## Pump unit with power take-off (p.t.o.) shaft gearbox



Ready to fit high pressure pump with regulation valve ST-280.  
 Pressure gauge 0 - 250 bar. Bypass hose and water filter ST-33.  
 Water inlet temperature max 30 °C

R+M Nr.	↻	⊖	P	↔
179 030 166 92	M22 M	3/4" F	160 bar	30 l/m

Symbols ⊖ inlet ⊖ outlet VPE packing unit 🚚 shipment by truck

## Repair kits suitable for Kränzle



### Parbacks



R+M Nr.	∅	VPE
155 900 0 *	6 mm	2 x 3
155 897 0 *	7 mm	2 x 3
155 898 0	8 mm	2 x 3
155 899 0	16 mm	2 x 3

### Sleeve kits



For 3 pistons

R+M Nr.	TYP
155 895 0 *	12 mm Junior
155 891 0 *	14 mm
155 894 0	14 mm AZ
155 890 0	18 mm AP
155 892 0	20 mm AQ

### Oil seal kits



3 pieces

R+M Nr.	∅	∅	I
156 376 0 *	20	12	6
156 375 0	24	14	7
156 379 0	24	15	7
156 374 0	28	18	7

## Single seals suitable for Kärcher



### Compact seals



R+M Nr.	VPE	∅	∅	I
161 271 0	30	20	14	4
161 270 0	60	20	14	4
161 275 0	30	28	18	6
161 274 0	60	28	18	6
161 281 0	30	30	20	6
161 280 0	60	30	20	6

### U-rings



R+M Nr.	VPE	∅	∅	I
161 265 0	30	22	14	5.3
161 264 0	60	22	14	5.3
161 273 0	30	26	18	5.4
161 272 0	60	26	18	5.4
161 279 0	30	28	20	5.3
161 278 0	60	28	20	5.3
161 285 0	30	30	22	5
161 284 0	60	30	22	5
161 291 0	30	34	24	5.3
161 290 0	60	34	24	5.3

### O-rings



R+M Nr.	VPE	K∅	∅	I
161 277 0	30	18	33.05	1.78
161 276 0	60	18	33.05	1.78
161 283 0	30	22	34.65	1.78
161 289 0	30	22	36.00	2.00
161 282 0	60	22	34.65	1.78
161 288 0	60	22	36.00	2.00

### Oil seals



R+M Nr.	VPE	∅	∅	I
157 465 0	3	30	20	7

## Repair kits suitable for WAP

### Sleeve kit



R+M Nr.	∅	∅
151 380 0	37	25

\* limited stock

Symbols I height K∅ piston diameter ∅ internal diameter VPE packing unit P pressure ∅ diameter TYP type

## Repair kits suitable for Kärcher high pressure pumps

### Seal kits



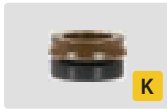
3 x 4 pieces

R+M Nr.	sets
156 317 0	3
156 324 0	3
156 325 0	3
156 328 0	3
156 332 0	3
156 333 0	3

3 x 4 pieces

R+M Nr.	sets
156 336 0	3
156 343 0	3
156 346 0	3
156 347 0	3

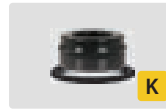
### Seal kits



3 x 2 pieces

R+M Nr.	sets
156 322 0	3
156 338 0	3
156 341 0	3
156 342 0	3

### Seal kits



3 x 3 pieces

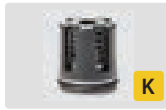
R+M Nr.	sets
156 326 0	3
156 337 0	3
156 345 0	3

### Socket



R+M Nr.	piece
151 492 0	3

### Valves



R+M Nr.	pieces
151 410 0	6
151 411 00	100
151 410 5	6



### Seal kits

### Socket

### Valves

hp devices	KØ	R+M Nr.	R+M Nr.	R+M Nr.
Farmer C /2.1	18	156 317 0		
Farmer Super	20	156 347 0		
HD 1000 SEI /WS	20	156 343 0		
HD 1000 SEI-EEX	20	156 343 0		
HD 1000 SI /2.5	20	156 347 0		
HD 1020 B	18	156 317 0		151 410 0
HD 1050	20	156 347 0		
HD 1050 B	20	156 347 0		151 410 0
HD 1050 BX	20	156 347 0		
HD 1050 DE	20	156 347 0		151 410 0
HD 1050 I 400V	20	156 347 0		
HD 1090	20	156 345 0		151 410 5
HD 1090 Plus	20	156 345 0		
HD 1090 EUR	20	156 345 0		
HD 1090 I	20x35	156 345 0	151 492 0	151 410 5
HD 1090 SX	20	156 345 0		151 410 5
HD 1090 SX Plus	20	156 345 0		
HD 1094	20	156 345 0		
HD 1200 B	20	156 347 0		
HD 1200 BE	20	156 347 0		
HD 1290 S	22	156 333 0		151 410 5
HD 1290 S Plus/SX/SX Plus	22	156 333 0		
HD 1294	20	156 347 0		
HD 2000	22	156 332 0		151 410 5
HD 2000 C	22	156 332 0		
HD 2000 Super	22	156 333 0		151 410 5
HD 215	20	156 347 0		
HD 500 S Plus	12	156 342 0		
HD 525 S	12	156 342 0		
HD 575 /575 B	16	156 324 0		151 410 0
HD 575 S	16	156 324 0		
HD 585	14	156 325 0		
HD 600	14	156 325 0		
HD 600 /1000SI (10600)	22	156 333 0		
HD 600 /1000SI (10601)	22	156 333 0		
HD 625	14	156 325 0		
HD 640 S Plus	14	156 338 0		
HD 645	14	156 325 0		151 410 0
HD 650 /SX Euro /SXL	14	156 325 0		
HD 655 230V	16	156 324 0		
HD 655 Euro	16	156 324 0		151 410 0
HD 658	16	156 336 0		
HD 680 S	16	156 324 0		151 410 0
HD 700	16	156 324 0		151 410 0
HD 715 ST	14	156 325 0		
HD 750	20	156 347 0		
HD 755	18	156 317 0		
HD 755 S	16	156 324 0		151 410 0
HD 790	16	156 324 0		151 410 0

hp devices	KØ	R+M Nr.	R+M Nr.	R+M Nr.
HD 799 S	16	156 324 0		151 410 0
HD 800 B	14	156 325 0		
HD 850	20	156 347 0		
HD 850 WS	20	156 347 0		
HD 855	22	156 328 0		151 410 0
HD 855 S	18	156 317 0		151 410 0
HD 860 ST	20	156 347 0		
HD 890 /890 S	18	156 317 0		151 410 0
HD 895	16	156 324 0		
HD 895 S /S Plus /SX Plus	16	156 324 0		
HD 901 (Benzin)	14	156 325 0		
HDS 1000 BE /2.1	20	156 347 0		
HDS 1000 BE /2.2	16	156 324 0		
HDS 1000 BE	20	156 347 0		
HDS 1000 D /2.2	20	156 347 0		
HDS 1000 DE	20	156 347 0		
HDS 1000 DE /2.1	20	156 347 0		
HDS 1195 EUR /2.1	22	156 332 0		151 410 5
HDS 1195 EUR /2.2	22	156 332 0		151 410 5
HDS 1195 VEX	22	156 332 0		151 410 5
HDS 1295	22	156 332 0		151 410 5
HDS 1295 SX	22	156 328 0		151 410 5
HDS 1295 EUR	22	156 332 0		151 410 5
HDS 2000 Super	22	156 332 0		151 410 5
HDS 3000	22	156 332 0		151 410 5
HDS 400 C	14	156 325 0		
HDS 450 Ci	12	156 342 0		
HDS 450 CI-AL	12	156 342 0		
HDS 500 CI	14	156 325 0		
HDS 501 C	12	156 342 0		
HDS 550	16	156 324 0		
HDS 550 C	16	156 324 0		
HDS 555 C /CS	18	156 317 0		151 410 0
HDS 555 CI	16	156 336 0		151 410 0
HDS 557 CI	16	156 324 0		151 410 0
HDS 558 C	14	156 325 0		151 410 0
HDS 558 CSX	14	156 325 0		
HDS 580 /610	20	156 347 0		
HDS 590 C /2.0	16	156 324 0		
HDS 590 C /2.1	18	156 317 0		
HDS 600 C	18	156 317 0		151 410 0
HDS 650	20	156 347 0		

### Seal kits

### Socket

### Valves

R+M Nr.	R+M Nr.	R+M Nr.
156 324 0		151 410 0
156 325 0		
156 347 0		
156 347 0		
156 328 0		151 410 0
156 317 0		151 410 0
156 347 0		
156 317 0		151 410 0
156 324 0		
156 324 0		
156 325 0		
156 347 0		
156 324 0		
156 347 0		
156 347 0		
156 347 0		
156 332 0		151 410 5
156 332 0		151 410 5
156 332 0		151 410 5
156 332 0		151 410 5
156 328 0		151 410 5
156 332 0		151 410 5
156 332 0		151 410 5
156 332 0		151 410 5
156 325 0		
156 342 0		
156 342 0		
156 325 0		
156 342 0		
156 324 0		
156 324 0		
156 317 0		151 410 0
156 336 0		151 410 0
156 324 0		151 410 0
156 325 0		151 410 0
156 325 0		
156 347 0		
156 324 0		
156 317 0		
156 317 0		151 410 0
156 347 0		



## Repair kits suitable for Kärcher high pressure pumps

		Seal kits	Socket	Valves			Seal kits	Socket	Valves
hp devices	KØ	R+M Nr.	R+M Nr.	R+M Nr.	hp devices	KØ	R+M Nr.	R+M Nr.	R+M Nr.
HDS 655 Euro	20	156 346 0			K 300	12	156 326 0		
HDS 655 GB	18	156 317 0			K 302	12	156 326 0		
HDS 655 /745	20	156 347 0			K 310	12	156 326 0		
HDS 695	18	156 317 0		151 410 0	K 330	12	156 326 0		
HDS 697 CI	16	156 336 0		151 410 0	K 3300 GS	12	156 326 0		151 410 0
HDS 698 C	14	156 325 0		151 410 0	K 340	12	156 326 0		
HDS 698 CSX	14	156 325 0			K 355	14	156 337 0		
HDS 699	16	156 336 0		151 410 0	K 360 /360 M	12	156 326 0		
HDS 700 B	14	156 325 0			K 370	12	156 326 0		
HDS 750	20x35	156 347 0	151 492 0		K 3770 M	12	156 326 0		
HDS 755	20	156 346 0		151 410 5	K 3770 M- Plus	12	156 326 0		
HDS 755 /760	20x35	156 347 0	151 492 0		K 380 M /390 M	12	156 326 0		
HDS 790 C /CI	18	156 317 0		151 410 0	K 4.99 M	14	156 337 0		
HDS 790CS	18	156 317 0			K 400	14	156 337 0		
HDS 795	18	156 317 0		151 410 0	K 401	14	156 337 0		
HDS 797 CI	18	156 317 0		151 410 0	K 402	14	156 337 0		
HDS 798 C /CSX	16	156 324 0			K 410	14	156 337 0		
HDS 800 B	20	156 347 0			K 450 M	12	156 326 0		
HDS 800 E	20x35	156 347 0	151 492 0		K 460 /460 M	12	156 326 0		
HDS 800B-EL.-H. /2.1	20	156 347 0			K 470	12	156 326 0		
HDS 800B-EL.-H. /2.2	20	156 347 0			K 49xm	12	156 326 0		
HDS 801 B	14	156 325 0			K 5.80	12	156 326 0		
HDS 801 E12K w	20x35	156 347 0	151 492 0		K 5.80 M	14	156 337 0		
HDS 810 SE	20	156 347 0			K 5.85 M	14	156 337 0		
HDS 850	20x35	156 347 0	151 492 0		K 500 /510	14	156 337 0		
HDS 890 /2.1	20x35	156 347 0	151 492 0		K 502 M	12	156 342 0		
HDS 890 /2.2	20x35	156 347 0	151 492 0		K 502 MS	12	156 342 0		
HDS 890 C	18	156 317 0		151 410 0	K 510	14	156 337 0		
HDS 890 ST	20x35	156 347 0	151 492 0		K 520 M	12	156 342 0		
HDS 891 /1291ST	22	156 332 0			K 570	16	156 322 0		
HDS 895	18	156 317 0		151 410 0	K 580 G	14	156 337 0		
HDS 895 S	22	156 332 0		151 410 0	K 580 M	14	156 337 0		
HDS 895 S EUR	20	156 346 0		151 410 0	K 590 GM	14	156 337 0		
HDS 895 SX	22	156 328 0		151 410 0	K 595 /2.1	16	156 322 0		
HDS 900 B	18	156 317 0		151 410 0	K 595 V /2.3	14	156 337 0		
HDS 990	20x35	156 347 0	151 492 0		K 6.80	12	156 342 0		
HDS 995	22	156 332 0		151 410 5	K 610	14	156 337 0		
HDS 995 EUR	20	156 346 0		151 410 5	K 620 M	14	156 337 0		
HDS 995 S	20	156 346 0		151 410 5	K 650 M- Plus	12	156 342 0		
HDS 995 SX	22	156 328 0		151 410 5	K 670 M	12	156 342 0		
HDS SUPER EUR	16	156 324 0			K 695	14	156 337 0		
K 1750 G	14	156 337 0			K 720 /2.1	14	156 337 0		
K 2.06	12	156 326 0			K 720 /2.3	14	156 337 0		
K 2.40	12	156 326 0			K 720 M /2.1	14	156 337 0		
K 2.75	12	156 326 0			K 720 M /2.2	14	156 337 0		
K 200	12	156 326 0			K 720 MX /2.1	14	156 337 0		
K 201	12	156 326 0			K 720 MX /2.4	14	156 337 0		
K 202 plus	12	156 326 0			K 720 MXS	14	156 337 0		
K 203 plus	12	156 326 0			K 750 M	13	156 341 0		
K 205	18	156 317 0			K 770 MX	13	156 341 0		
K 205 VPS	12	156 326 0			K 855 HS	12	156 326 0		
K 209 Plus	12	156 326 0			K 856	12	156 326 0		
K 210	12	156 326 0			K racing	14	156 337 0		
K 215 Plus	12	156 326 0			K special /2.0	14	156 337 0		
K 220	12	156 326 0			K special /2.1	14	156 337 0		
K 230 D	12	156 326 0			K special /2.4	14	156 337 0		
K 235 D	12	156 326 0			SB-HDS 695	18	156 317 0		
K 240	12	156 326 0							
K 270	12	156 326 0							
K 29x /29xm	12	156 326 0							

Symbols  $\text{K}\varnothing$  piston diameter

## Repair kits suitable for high pressure pumps, Hawk



Valves 6 pieces



Seal kits for 3 pistons

Hawk		01	02
<b>Pumps</b>		<b>R+M Nr.</b>	<b>R+M Nr.</b>
H300	20	160 105 501	160 124 801
H330	20	160 105 501	160 124 801
HC200A	18	160 105 501	160 164 201
HC240A	18	160 105 501	160 164 201
HC240I	18	160 105 501	160 164 201
HC280A	18	160 105 501	160 164 201
HC310 / 340 / 350	18		160 164 201
HC450	20	160 105 501	160 124 801
HC450I	20	160 105 501	160 124 801
HC500	20	160 105 501	160 124 801
HC500I	20	160 105 501	160 124 801
HC530	20	160 105 501	160 124 801
HC550	20	160 105 501	160 124 801
HC550I	20	160 105 501	160 124 801
HC580	20	160 105 501	160 124 801

R+M high quality spare parts are obtained from well-established manufacturers. As a rule they are no original spare parts. The original order numbers and the indication of other information are exclusively for your guidance and furthermore they are not intended for the general use, e.g. invoices addressed to end users. In case of mentioning the original order numbers in your orders it can not be assumed that the products ordered are original spare parts. Original spare parts are supplied when they are especially offered as those in our catalogue or in other mailing pieces such as special offers or newsletters.

## Repair kits suitable for Speck high pressure pumps



Valves



Valves 6 pieces

Seal kits



Seal kits for 3 pistons

Socket



Ceramic socket 1 piece

Pump	R+M Nr.	R+M Nr.	R+M Nr.	KØ
NP10 / 10 - 140	160 079 201	158 211 0	160 068 702	18 x 32,5
NP10 / 13 - 140	160 079 201	158 211 0	160 068 702	18 x 32,5
NP10 / 15 - 140	160 079 201	158 211 0	160 068 702	18 x 32,5
NP16 / 14 - 210	160 079 201	158 212 0	160 068 702	18 x 32,5
NP16 / 15 - 210	160 079 201	158 212 0	160 068 702	18 x 32,5
NP25 / 70 - 100		155 875 0 *		
P10 / 13 - 100	160 079 101	158 203 0		
P10 / 15 - 130	160 079 101	158 203 0		
P11 / 10 - 100	160 079 101	158 203 0	160 068 402	18 x 39,0
P11 / 10 - 100D		158 203 0	160 068 402	18 x 39,0
P11 / 13 - 100	160 079 101	158 203 0	160 068 402	18 x 39,0
P11 / 13 - 100D		158 203 0	160 068 402	18 x 39,0
P11 / 15 - 150	160 079 101	158 203 0	160 068 402	18 x 39,0
P11 / 15 - 150D		158 203 0	160 068 402	18 x 39,0
P21 / 15 - 160	160 079 101		160 068 402	18 x 39,0
P21 / 16 - 200	160 079 001	158 206 0	160 068 602	16 x 39,0
P21 / 18 - 130	160 079 101		160 068 502	20 x 39,0
P21 / 23 - 130	160 079 101		160 068 502	20 x 39,0
P21 / 5 - 450	160 079 201			
P21 / 7 - 400	160 079 201			

## Pump accessories

## Fitting grease



Synthetic valve grease for the food and pharmaceutical industries. NSF H1 registered. FDA 21 CFR § 178.3570 compliant

R+M Nr.	volume
953 55	40 g

\* limited stock

Symbols **P** pressure **→** flow **U** revolutions **KW** kilowatt **TYP** type **I** height **KØ** piston diameter **🚚** shipment by truck **⊕** inlet **⊖** outlet

## Annovi Reverberi motor pumps

### Motor pumps series 198



Pump with regulation valve\* and injector. Voltage 400/50 Hz (170 204 20), Voltage 230/50 Hz (170 204 15)

P	U	KW	TYP
120 8	2,800	1.8	HPJ8.12REG
140 11	2,800	3.0	HPJ11.14REG

R+M Nr.
170 204 15
170 204 20

### Repair kits



Valves 6 pieces

R+M Nr.
170 286 9
170 286 9



Seal kits for 3 pistons

R+M Nr.
170 279 8
170 279 8



Oil seal kits (5 pieces)

R+M Nr.
170 251 1
170 251 1



Ceramic sockets for 3 pistons

R+M Nr.	KØ	I
170 279 6	15	40
170 279 6	15	40

### Motor pumps series 228



Motor pump without regulation valve. Voltage 400/50Hz

P	U	KW	TYP
200 15	1,450	5.5	HRK15.20H
150 21	1,450	5.5	HRK21.15H

R+M Nr.
170 208 62
170 208 67

### Repair kits



Valves 6 pieces

R+M Nr.
170 286 4
170 286 4



Seal kits for 3 pistons

R+M Nr.
170 185 7
170 188 8



Oil seal kits (7 pieces)

R+M Nr.
170 185 5
170 185 5



Ceramic sockets for 3 pistons

R+M Nr.	KØ	I
170 275 7	18	40
170 275 9	22	40

### Motor pump combinations



400 V. All models are equipped with a regulation valve\*, delayed total stop control, pressure gauge, 5 m electric cable and an on-off switch. Ⓢ 1/2" M Ⓢ 3/8" M. Max. 30 °C

P	U	KW	TYP
150 15	1,450	4	MTP HXM 15.15
150 21	1,450	5.5	MTP HRK 21.15
200 15	1,450	5.5	MTP HRK 15.20
150 26	1,450	7.5	MTP HXW 26.15
150 30	1,450	7.5	MTP HXW 30.15

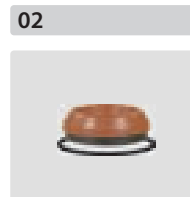
R+M Nr.
170 208 711
170 257 56
170 238 68
170 260 58
170 260 60

### Repair kits



Valves 6 pieces

R+M Nr.
170 186 4
170 286 4
170 286 4
170 278 0
170 278 0



Seal kits for 3 pistons

R+M Nr.
170 274 7
170 188 8
170 185 7
170 278 2
170 278 3



Oil seal kits

R+M Nr.
170 278 6
170 185 5
170 185 5
170 287 3
170 287 3



Ceramic socket for 3 pistons

R+M Nr.	KØ	I
170 274 6	18	35
170 275 9	22	40
170 275 7	18	40
170 265 0	20	45
170 189 1	22	45



400 V. All models are equipped with a regulation valve\*, delayed total stop control, pressure gauge, 5 m electric cable and an on-off switch. Ⓢ 1/2" F Ⓢ 3/8" M. Max. 85 °C at min. 2 bar inlet pressure

P	U	KW	TYP
150 15	1,450	4	MTP HRWH 15.15
150 21	1,450	5,5	MTP HRWH 21.15

R+M Nr.
170 269 18
170 269 11



Valves 6 pieces

R+M Nr.
170 423 28
170 423 28



Seal kits for 3 pistons

R+M Nr.
170 423 29
170 465 14



Oil seal kits (7 pieces)

R+M Nr.
170 185 5
170 185 5



Ceramic socket for 3 pistons

R+M Nr.	KØ	I
170 250 0	18	40
170 252 6	22	45

\* Setting up of a regulation valve: page 62

## Annovi Reverberi high pressure pumps with hydraulic motor

### Pumps with hydraulic motor



### Pumps



### Hydraulic motors



R+M Nr.	TYP
170 216 03	HYD-XM 15.15
170 216 05	HYD-RK 15.20

R+M Nr.	K $\varnothing$	←	P
170 215 98	18	15 l/min	150 bar
170 216 00	18	15 l/min	200 bar

R+M Nr.	TYP	U	P	⊙	cm <sup>3</sup> *
175 500 4	SNM 2/11 CI 06 LFU 1F	700-4,000	250 bar	3/4" F	10,8
175 500 5	SNM 2/19 CI 06 LFU 1F	500-3,500	210 bar	3/4" F	19,2

## Jetter Valves



Jetter valves are special valve assemblies which allow to shut off one particular intake valve. The Jetter Valve cuts off the flow of one of the three pistons of the jetter pump. Due to this the pump starts pulsating which causes significant vibrations of the nozzle and an increased cleaning effect at a reduced flow rate (approximately -1/3 of the full flow rate of the pump). Jetter Valves should not be combined with pulsation dampers in one jetter unit. Jetter Valves substitute one of the three intake valves of a pressure pump (suction side (upstream)). Never use jetter valves as a substitute on the high pressure side! Pulsation can be started or stopped by a lever or hand wheel at the jetter valve.

## Feet for pumps

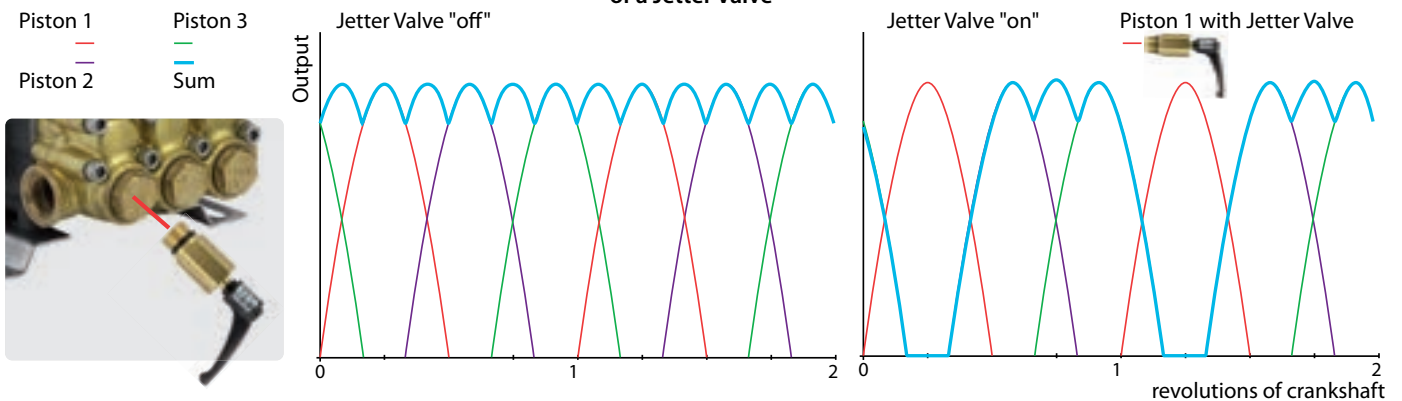


Adjustable feet for pumps incl. 4 screws.  
For Annovi Reverberi XM, XMS, XMA, RK, RKA

R+M Nr.	TYP
170 402 35	XT, XM
170 401 61	RK
170 402 36	XW

R+M Nr.
170 272 9

## Functional principle of a Jetter Valve



\* cm<sup>3</sup> / revolution

Symbols P pressure ← flow U revolutions KW kilowatt TYP type I height K $\varnothing$  piston diameter ⊙ thread



## Annovi Reverberi high pressure pumps

### Pump series 132



P	←	U	KW	TYP
140	11	1,450	3.0	XT11.14N

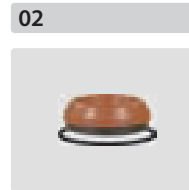
R+M Nr.
170 701 4

### Repair kits



Valves 6 pieces

R+M Nr.
170 186 4



Seal kits for 3 pistons

R+M Nr.
170 424 79



Oil seal kits (6 pieces)

R+M Nr.	sets
170 278 6	



Ceramic socket for 3 pistons

R+M Nr.	KØ	I
170 262 9	18	30

### Pump series 178



P	←	U	KW	TYP
150	15	1,450	4.0	XM15.15N

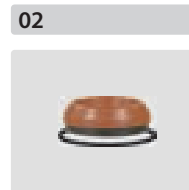
R+M Nr.
170 790 6

### Repair kits



Valves 6 pieces

R+M Nr.
170 186 4



Seal kits for 3 pistons

R+M Nr.
170 274 7



Oil seal kits (6 pieces)

R+M Nr.	sets
170 187 2	



Ceramic socket for 3 pistons

R+M Nr.	KØ	I
170 274 6	18	35

### Pump series 194



P	←	U	KW	TYP
200	26	1,450	9.2	XW26.20N
150	30	1,450	7.5	XW30.15N
200	30	1,450	10.0	XW30.20N
250	30	1,450	14.0	XW30.25N
150	42	1,450	11.8	XWL42.15N

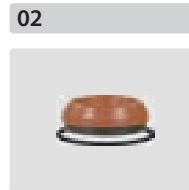
R+M Nr.
170 200 59
170 201 79
170 200 60
170 211 37
170 210 60

### Repair kits



Valves 6 pieces

R+M Nr.
170 278 0
170 278 0
170 278 0
170 278 0
170 278 0
170 278 0



Seal kits for 3 pistons

R+M Nr.
170 278 2
170 278 3
170 278 3
170 278 3
170 278 3
170 427 08



Oil seal kits (7 pieces)

R+M Nr.	sets
170 287 3	
170 287 3	
170 287 3	
170 287 3	
170 287 3	
170 287 3	



Ceramic sockets for 3 pistons

R+M Nr.	KØ	I
170 265 0	20	45
170 189 1	22	45
170 189 1	22	45
170 189 1	22	45
170 189 1	22	45
170 184 9	28	45

### Pump series 228, type "RK"



P	←	U	KW	TYP
200	15	1,450	5.5	RK15.20HN
275	15	1,450	8.2	RK15.28HN
200	18	1,450	7.5	RK18.20HN
150	21	1,450	5.5	RK21.15HN

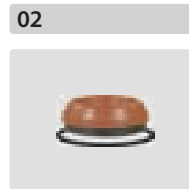
R+M Nr.
170 206 38
170 206 40
170 206 43
170 206 45

### Repair kits



Valves 6 pieces

R+M Nr.
170 286 4
170 286 4
170 286 4
170 286 4



Seal kits for 3 pistons

R+M Nr.
170 185 7
170 185 7
170 188 7
170 188 8



Oil seal kits (7 pieces)

R+M Nr.	sets
170 185 5	
170 185 5	
170 185 5	
170 185 5	



Ceramic sockets for 3 pistons

R+M Nr.	KØ	I
170 275 7	18	40
170 275 7	18	40
170 275 8	20	40
170 275 9	22	40

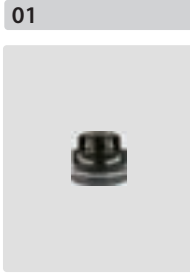
The photos showing the pumps and repair kits are only for your information.  
The products might differ from the photos regarding their dimension and design.

### Annovi Reverberi high pressure pumps

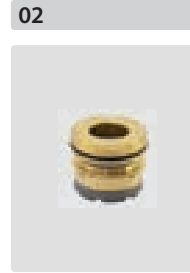
#### Pump series 228, type "JK" Car Wash



#### Repair kits



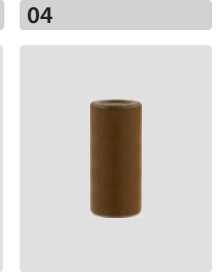
Valves 6 pieces



Seal kits for 3 pistons



Oil seal kits



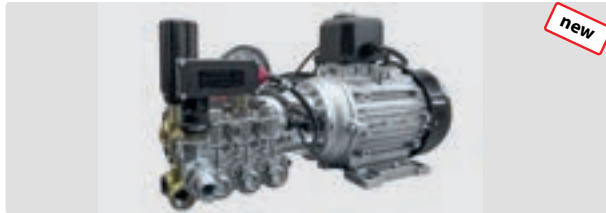
Ceramic socket for 3 pistons

Carwash pump max. 85 °C with at least 2 bar pre-pressure. Ideal for the car wash sector due to its long service life

P	☰	U	KW	TYP	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	KØ	I
120	13	1,450	4.0	JK 13.12 N DX	170 278 64	170 286 4	170 422 13	170 434 03	170 434 02 18	40	
150	15	1,450	4.0	JK 15.15 N DX	170 278 65	170 286 4	170 422 13	170 434 03	170 434 02 18	40	
150	21	1,450	5.5	JK 21.15 N DX	170 278 66	170 286 4	170 425 64	170 434 03	170 461 10 22	40	

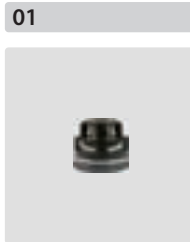
### Annovi Reverberi high pressure pumps for Car Wash

#### Motor pump combinations

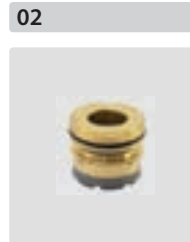


new

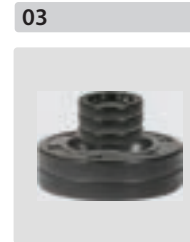
#### Repair kits



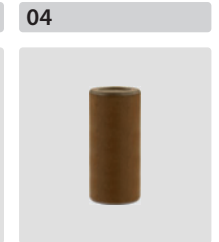
Valves 6 pieces



Seal kits for 3 pistons



Oil seal kits



Ceramic socket for 3 pistons

400 V. All models are equipped with a regulation valve\*, delayed total stop control, pressure gauge, 5 m electric cable and an on-off switch. ☰ 1/2" F ☰ 3/8" M.

Max. 85 °C at min. 2 bar inlet pressure

P	☰	U	KW	TYP	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	KØ	I
120	13	1,450	4.0	HJK 13.12 ET 4KW PTFE	170 278 70	170 286 4	170 422 13	170 434 03	170 434 02 18	40	
150	15	1,450	4.0	HJK 15.15 ET 4KW PTFE	170 278 71	170 286 4	170 422 13	170 434 03	170 434 02 18	40	
150	21	1,450	5.5	HJK 21.15 ET 5,5KW PTFE	170 278 72	170 286 4	170 425 64	170 434 03	170 461 10 22	40	

### Pump/motor assignment



Pump	TYP	coupling	flange	solid shaft	KW
Annovi Reverberi for Car Wash					
170 278 64	JK 13.12 N DX	100 151 11	100 015 10	175 002 001	4.0
170 278 65	JK 15.12 N DX	100 151 11	100 015 10	175 002 001	4.0
170 278 66	JK 21.12 N DX	100 151 11	100 015 10	175 002 002	5.5

Symbols ☰ inlet ☰ outlet

## COMET high pressure pumps

### Premium



Max. 30 °C

P	←	U	KW	TYP
345	18.0	1,450	15,5	TW 4550S
172	38.0	1,450	12,5	TW 10025S
172	42.5	1,450	13,7	TW 11025S
248	27.0	1,450	16,5	TW 7036 S

R+M Nr.
172 045 500
172 100 250
172 110 250
172 070 360

### Repair kits



Valves 6 pieces

R+M Nr.
172 900 003
172 900 005
172 900 005
172 900 005



Seal kits for 3 pistons

R+M Nr.
172 900 027
172 900 020
172 900 020
172 900 028



Oil seal kits

R+M Nr.
172 900 018
172 900 210
172 900 210
172 900 210



Ceramic socket kit for 3 pistons

R+M Nr.
172 900 012
172 900 014
172 900 014
172 900 013



Max. 30 °C

P	←	U	KW	TYP
276	19	1,450	10	RW 5040S

R+M Nr.
172 050 400



Valves 6 pieces

R+M Nr.
172 900 002



Seal kits for 3 pistons

R+M Nr.
172 900 025



Oil seal kits

R+M Nr.
172 900 017



Ceramic socket kit for 3 pistons

R+M Nr.
172 900 010

### Standard



Max. 30 °C

P	←	U	KW	TYP
207	15.0	1,450	5,5	FW2 4030 S
207	18.8	1,450	6,4	FW2 5030 S
207	21.0	1,450	7,1	FW2 5530 S

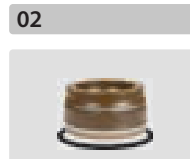
R+M Nr.
172 040 300
172 050 300
172 055 300

### Repair kits



Valves 6 pieces

R+M Nr.
172 900 001
172 900 002
172 900 002



Seal kits for 3 pistons

R+M Nr.
172 900 185
172 900 024
172 900 024



Oil seal kits

R+M Nr.
172 900 186
172 900 186
172 900 186



Ceramic socket kit for 3 pistons

R+M Nr.
172 900 008
172 900 009
172 900 009

## COMET motor pumps

### Motor pump combinations\*



400 V. All models are equipped with a regulation valve \*\*, delayed total stop control, pressure gauge, 6 m electric cable and an on-off switch. Ⓢ 3/4" M Ⓢ M22 M. Max. 30 °C

P	←	U	KW	TYP
150	15	1,450	4.0	FW2 4025 TS+VA
210	15	1,450	5.5	FW2 4030 TS+VA
160	21	1,450	5.5	FW2 5523 TS+VA
170	15	1,450	4.5	RW 6.15 TS+VA

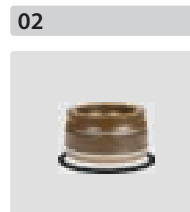
R+M Nr.
172 040 255
172 040 305
172 055 225
172 006 155

### Repair kits



Valves 6 pieces

R+M Nr.
172 900 001
172 900 001
172 900 002
172 900 001



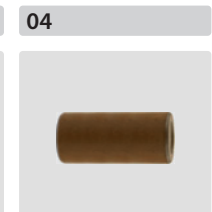
Seal kits for 3 pistons

R+M Nr.
172 900 185
172 900 185
172 900 024
172 900 026



Oil seal kits (7 pieces)

R+M Nr.
172 900 186
172 900 186
172 900 186
172 900 017



Ceramic sockets for 3 pistons

R+M Nr.	Ⓢ
172 900 008	18
172 900 008	18
172 900 009	20
172 900 011	20

Hot water seal kits are available on request.

\* with pump FW2 from 2013

\*\* Setting up of a regulation valve: page 62

Symbols P pressure ← flow U revolutions KW kilowatt TYP type Ⓢ piston diameter shipment by truck Ⓢ thread I height

## CAT high pressure pumps

### Standard



### Repair kits

#### 01



Valves 3 pieces

#### 02



Seal kits for 3 pistons

#### 03



Ceramic socket 1 piece

#### 04



Oil seal kit 1 piece

P	U	KW	TYP
150 10	1,420	3	300
150 15	950	4.6	310
150 13	1,420	4.1	340
150 15	1,420	4.6	350
150 13	1,420	4.1	340RS
150 7,5	1,420	2.3	3CP1130
150 11	1,420	4.4	3CP1140
175 8,7	1,420	3.2	5CP2110W
175 15	950	5.5	5CP2120W
175 13	1,420	4.7	5CP2140W
175 15	1,420	5.5	5CP2150W
175 19	1,100	6.9	530
210 19	1,420	8.3	5CP5120

R+M Nr.
133 00
133 10
133 40
133 50
133 401 *
131 130
131 140
132 110
132 120
132 140
132 150
135 30
135 120

R+M Nr.
133 082 1
133 082 1
133 082 1
133 082 1
133 082 1
133 306 2
133 306 2
133 182 1
133 082 1
133 082 1
133 082 1
133 082 1
133 082 0
133 306 0

R+M Nr.
133 062 3
133 062 3
133 062 3
133 062 3
133 062 3
133 398 3
133 398 3
133 362 8
133 362 8
133 362 8
133 362 8
133 362 8
133 048 8
133 363 0

R+M Nr.	KØ
134 336 7	20
134 336 7	20
134 336 7	20
134 336 7	20
134 336 7	20
134 697 6	18
134 697 6	18
134 684 1	20
134 684 1	20
134 684 1	20
134 684 1	20
134 684 1	20
134 323 2	18
134 965 5	20

R+M Nr.
134 322 8
134 322 8
134 322 8
134 322 8
134 322 8
134 683 9
134 683 9
134 683 8
134 683 8
134 683 8
134 683 8
134 322 8
134 683 8

The photos showing the pumps and repair kits are only for your information.  
The products might differ from the photos regarding their dimension and design.

## Repair kits for CAT high pressure pumps

### Valves



3 pieces

R+M Nr.	TYP
133 068 7	623 - 820 - 823 - 1010 - 1013
133 082 0	510 - 530 - 550 - 560 - 570 - 590 - 650 - 660
133 082 1	5CP - 300 - 310 - 340 - 350
133 091 5	230 - 240 - 270
133 306 2	3CP1120 - 3CP1130 - 3CP1130
133 401 7	3520 - 3527 - 3531 - 3537
133 405 2	25F
133 423 5	3520 - 3535
133 492 0	1050

### Seal kits



For 3 pistons

R+M Nr.	TYP
133 002 3	280 - 290 - 400 - 410 - 420 - 430 small
133 048 8	53 - 58 - 530 - 540
133 061 0	51 - 55 - 550
133 062 3	30 - 31 - 34 - 35 - 300 - 310 - 340 - 350
133 062 9	45
133 079 8	650 - 660
133 391 6	1050
133 091 4	230 - 240 - 270
133 095 2	2530 - 2537
133 104 0	3531 - 3535 - 3537
133 163 8	5CP hot water
133 198 3	3CP hot water
133 362 3	350 hot water
133 362 8	5CP2120W - 5CP2140W - 5CP2150W
133 398 3	3CP1120 - 3CP1130 - 3CP1130

### Socket



1 piece

R+M Nr.	KØ	TYP
134 323 2	18	53 - 56 - 57 - 58 - 59 - 60 - 530 - 540 - 560 - 580 - 590 - 654
134 331 1	16	51 - 55 - 510 - 550
134 336 7	20	5FR - 300 - 310 - 340 - 350
134 390 1	18	3FR - 230 - 240 - 270
134 684 1	20	5CP2120W - 5CP2140W - 5CP2150W
134 697 6	18	3CP1120 - 3CP1130 - 3CP1130
134 355 2	24	1050

### Double nipples



BSP-m: NPT-m.  
Stainless steel





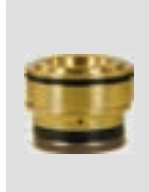
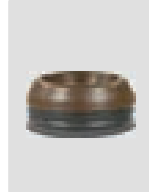



BSP-m : NPT-m.  
Zinc-plated steel

R+M Nr.	Ø	P	l
570 892	3/8"	315 bar	38 mm
570 999 2	1/2"	200 bar	46 mm

R+M Nr.	Ø	P	l
570 782	3/8"	280 bar	34.5 mm
570 982	1/2"	200 bar	43.0 mm

\* shaft on the left



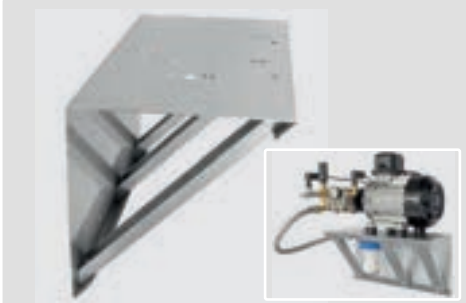
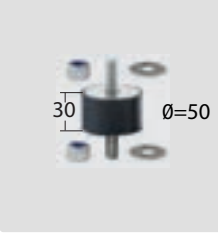
## BERTOLINI high pressure pumps

Pump						Repair kits					
						01	02	03	04	05	06
											
						Valves 6 pieces	Seal kit	Seal kits for 3 pistons	Oil seal kit for 1 piston	Ceramic socket for 1 piston	Fastening screw for 1 piston
<b>P</b>	<b>←</b>	<b>U</b>	<b>KW</b>	<b>TYP</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>
210	15	1,450	6.1	TTL 1520	177 015 200	177 698 679 73	177 698 369 73	177 698 399 73	177 698 729 73	177 600 091 82	177 600 720 02
210	21	1,450	8.6	TTL 2120	177 021 200	177 698 679 73	177 698 369 73	177 698 399 73	177 698 729 73	177 600 091 82	177 600 720 02
300	13	1,450	7.6	TTL 1330	177 013 300	177 698 679 73	177 698 349 73	177 698 339 73	177 698 729 73	177 600 551 82	177 600 735 12
300	20	1,450	11.5	TTL 2030	177 020 300	177 698 679 73	177 698 349 73	177 698 339 73	177 698 729 73	177 600 551 82	177 600 735 12

## Hawk high pressure pumps

Pump						Repair kits					
						01	02	03	04	05	
											
						Valves 6 pieces	Seal kit for 3 pistons	Seal kits for 3 pistons	Oil seal kit for 3 pistons	Ceramic socket for 1 piston, complete	
<b>P</b>	<b>←</b>	<b>U</b>	<b>KW</b>	<b>TYP</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	
200	15	1,450	5.7	NMT 1520R	174 015 200	174 190 554 3	174 190 557 8	174 260 077	174 260 803	174 260 107	
200	21	1,450	7.9	NMT 2120R	174 021 200	174 190 554 3	174 190 557 8	174 260 077	174 260 803	174 260 107	
300	24	1,450	14.1	XLT 2530IR	174 024 300	174 190 568 7	174 190 567 0	174 260 126	174 260 003	174 260 130	
240	30	1,450	14.2	XLT 3025IR	174 030 240	174 190 568 7	174 190 585 2	174 260 125	174 260 003	174 260 129	
170	35	1,450	11.2	XLT 3517IR	174 035 170	174 190 568 6	174 190 585 3	174 260 113	174 260 003	174 260 117	

## Pump accessories

Wall bracket			Vibrationdamper	
				<p>Rubber buffer type A. M10 x 28. Incl. Screws and washers. Steel or stainless steel and elastic natural rubber 55°. Spring stiffness: 500 N / mm. Load: 2,000 N</p>
Stainless steel. 200 x 200 x 150 mm. Suitable for our motor-pump units with AR HPV	Stainless steel. 280 x 280 x 260 mm. Suitable for our motor-pump units with 3 / 4 and 5.5 KW	Stainless steel. 270 x 270 x 500 mm. Capacity: 80 kg. Suitable for our motor-pump units with 3 / 4 / 5.5 and 7.5 KW		
<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	
105 000 021	105 000 022	105 000 020	105 000 101	
			105 000 104	

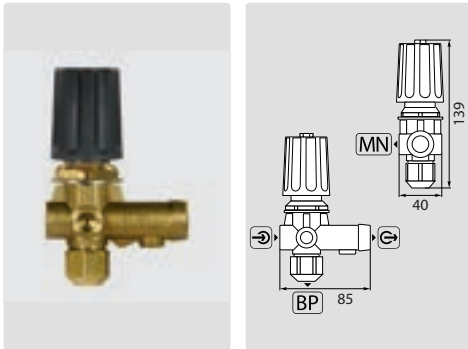
**new**

Symbols **P** pressure **←** flow **U** revolutions **KW** kilowatt **TYP** type **KØ** piston diameter **⊙** thread



## Suttner regulation valves ST-261

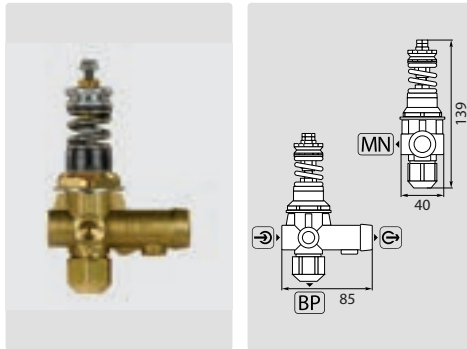
ST-261 for panel mounting



☉ = inlet 3/8" F. ☉ = outlet 3/8" F. [BP] = bypass 1/4" F. [MN] = pressure gauge 1/4" F. Max. 250 bar / 80 °C

R+M Nr.	☰
200 261 559	30 l/min

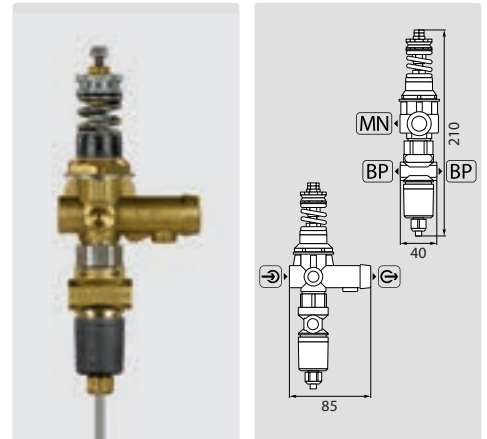
ST-261 for panel mounting



☉ = inlet 3/8" F. ☉ = outlet 3/8" F. [BP] = bypass 1/4" F. [MN] = pressure gauge 1/4" F. Max. 250 bar / 80 °C

R+M Nr.	☰
200 261 557	30 l/min

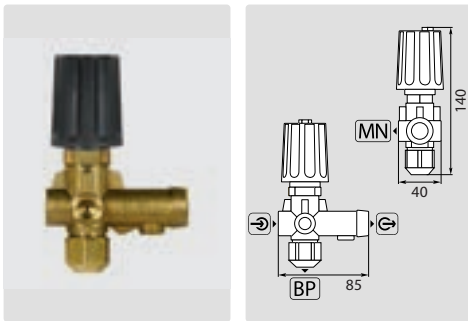
ST-261 for panel mounting with pressure switch



☉ = inlet 3/8" F. ☉ = outlet 3/8" F. [BP] = bypass 1/4" F. [MN] = pressure gauge 1/4" F. Regulation valve with pressure switch (IP65) and cable 1,200 mm. Max. 250 bar / 80 °C

R+M Nr.	☰
200 261 655	30 l/min

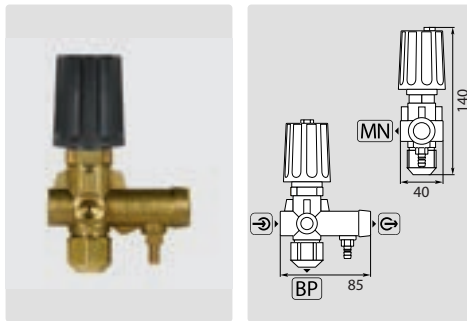
ST-261 without chemical injector



☉ = inlet 3/8" F. ☉ = outlet 3/8" F. [BP] = bypass 1/4" F. [MN] = pressure gauge 1/4" F. Max. 250 bar / 80 °C

R+M Nr.	☰
200 261 500	30 l/min

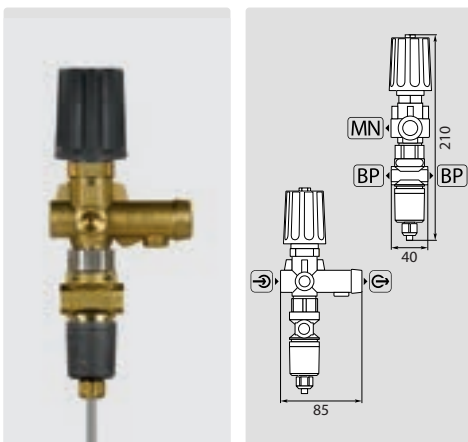
ST-261 with chemical injector



☉ = inlet 3/8" F. ☉ = outlet 3/8" F. [BP] = bypass 1/4" F. [MN] = pressure gauge 1/4" F. Hose tail 6 mm. Max. 250 bar / 80 °C

R+M Nr.	D	☰
200 261 560	1.8	30 l/min
200 261 570	2.1	30 l/min
200 261 580	2.4	30 l/min

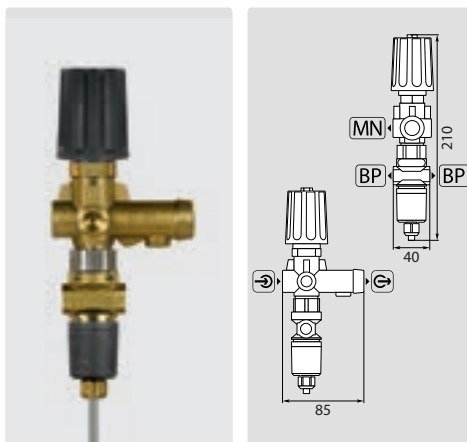
ST-261 with pressure switch three-core



☉ = inlet 3/8" F. ☉ = outlet 3/8" F. [BP] = bypass 1/4" F. [MN] = pressure gauge 1/4" F. Regulation valve with pressure switch (IP65) three-core and cable 1,200 mm. Max. 250 bar / 80 °C

R+M Nr.	☰
200 261 550	30 l/min

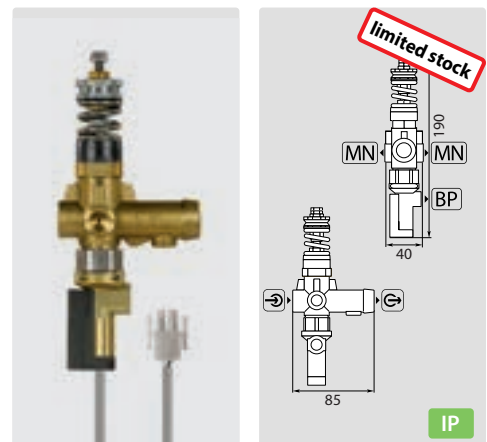
ST-261 with pressure switch four core



☉ = inlet 3/8" F. ☉ = outlet 3/8" F. [BP] = bypass 1/4" F. [MN] = pressure gauge 1/4" F. Regulation valve with pressure switch (IP65) four-core and cable 1,200 mm. Max. 250 bar / 80 °C

R+M Nr.	☰
200 261 551	30 l/min

ST-261 with pressure switch



☉ = inlet 3/8" F. ☉ = outlet 3/8" F. [BP] = bypass 1/4" F. [MN] = pressure gauge 1/4" F. Regulation valve with pressure switch (IP55) and cable 140 mm. Max. 250 bar / 80 °C

R+M Nr.	☰
200 261 660	30 l/min

## Suttner regulation valves ST-261

### Repair kits ST-261



Piston rod

R+M Nr.
200 261 526



Pressure switch (IP55) with cable 1,200 mm

R+M Nr.
200 261 517



Pressure rod

R+M Nr.
200 261 527



Handgrip

R+M Nr.
200 260 547



HP check valve

R+M Nr.
200 261 528



Metering valve. Tail 6 mm

R+M Nr.
050 000 370 1
200 061 500 2



Pressure switch (IP65) three-core and cable 1,200 mm

R+M Nr.
200 261 513



Pressure switch (IP65) with four-core and cable 1,200 mm

R+M Nr.
200 261 514



Micro switch

R+M Nr.
090 000 050



Chemical check valve. Hose tail 6 mm

R+M Nr.
200 060 725

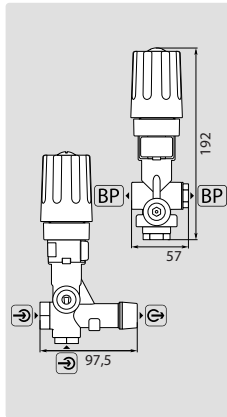


Tamperproof cap for ST-261. Not suitable for panel mounting.

R+M Nr.
020 000 277

## Suttner regulation valves

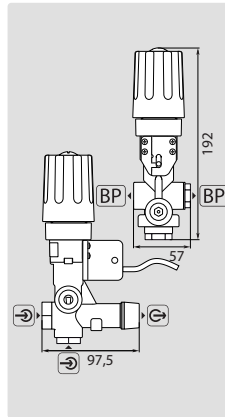
## ST-291



☉ = inlet 3/8" F. ☉ = outlet 3/8" F. [BP] = bypass 1/2" F. Max. 350 bar / 90 °C

R+M Nr.	☐
200 291 500	40 l/min

## ST-291 with switch



☉ = inlet 3/8" F. ☉ = outlet 3/8" F. [BP] = bypass 1/2" F. Regulation valve with pressure switch (IP67) and cable 1,200 mm. Max. 350 bar / 90 °C

R+M Nr.	☐
200 291 550	40 l/min

## Repair kits ST-291



Piston rod

R+M Nr.
200 291 495



Switch (IP67) with cable 1,200 mm

R+M Nr.
200 291 450



Check valve

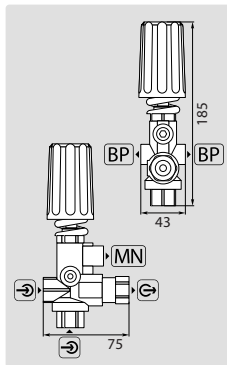
R+M Nr.
200 291 490



Seal kit

R+M Nr.
200 291 485

## ST-280



☉ = inlet 3/8" F.  
☉ = outlet 3/8" F.  
[BP] = bypass 1/4" F.  
[MN] = pressure gauge 1/4" F.  
Max. 250 bar / 80 °C

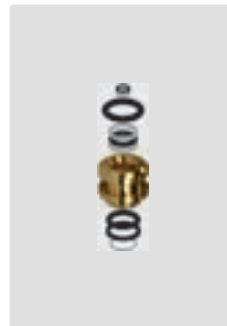
R+M Nr.	☐
200 280 510	30 l/min

## Repair kits ST-280



Type A

R+M Nr.
200 280 650



Type C

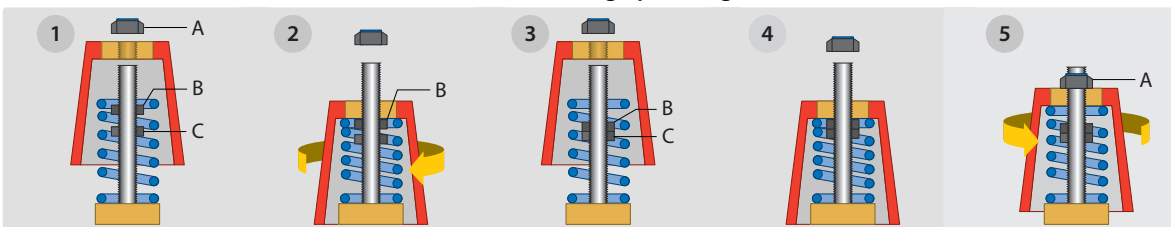
R+M Nr.
200 280 646



Type D

R+M Nr.
200 280 526

## Setting up of a regulation valve



1. Loose fixing nut (A) and take off handgrip. Also loose nut (B) and nut (C). Put handgrip back in position without fixing it. Switch on high pressure device and press gun trigger.
2. While keeping an eye on the gauge's pressure slowly tighten the handgrip. When working pressure is attained turn handgrip one rotation tighter. In this position nut (B) must be next to the handgrip. Otherwise, nut (B) has to be adjusted until this position is reached.
3. Take off handgrip and fix nut (C) against nut (B).
4. Unscrew the handgrip until it bumps to nut. Press trigger of gun several times in order to control the working and switching pressure. If necessary, repeat phase 2.
5. Turn handgrip back until minimum/steam pressure stage is obtained (according to indication of manufacturer). Mount fixing nut until swing of grip. Fixing nut (A) defines the stage of low and steam pressure, nut (B) defines the stage of working and switching pressure.

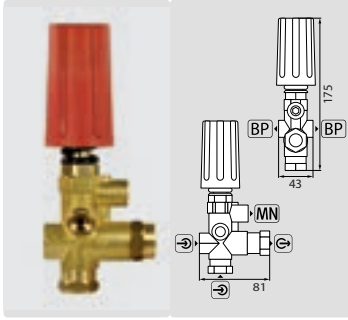


[www.rm-suttner.com](http://www.rm-suttner.com)

Symbols ☐ flow ☉ inlet ☉ outlet [BP] bypass [MN] pressure gauge

## Regulation valves

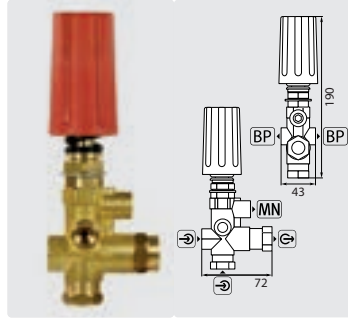
### UL 250



Ⓒ = inlet 3/8" F. Ⓞ = outlet 3/8" F.  
 BP = bypass 1/4" F. MN = pressure gauge 1/4" F. Ball check valve. Max. 250 bar / 60 °C

R+M Nr.	☰
533 31	35 l/min

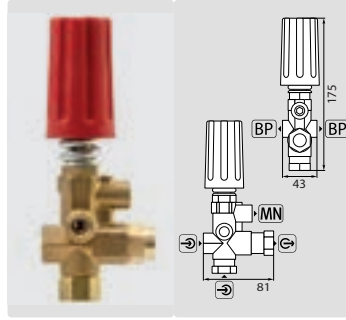
### UL 250 for panel mounting



Ⓒ = inlet 3/8" F. Ⓞ = outlet 3/8" F.  
 BP = bypass 1/4" F. MN = pressure gauge 1/4" F. Ball check valve. Max. 250 bar / 60 °C

R+M Nr.	☰
533 351	35 l/min

### ST-250



Ⓒ = inlet 3/8" F. Ⓞ = outlet 3/8" F.  
 BP = bypass 1/4" F. MN = pressure gauge 1/4" F. Ball check valve. Max. 250 bar / 80 °C

R+M Nr.	☰
200 250 500	35 l/min

### UL 250

Standard

R+M Nr.
121 412 9

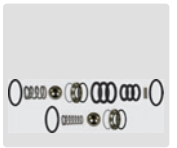
With ball check valve

R+M Nr.
121 412 91

ST-250

With ball check valve

R+M Nr.
200 250 490



### VB7



Ⓒ = input 3/8" M. Ⓞ = outlet 3/8" F.  
 BP = bypass 3/8" F. MN = pressure gauge 1/4" F. Max. 220 bar / 90 °C

R+M Nr.	☰
532 722 0	30 l/min

### VB9



Ⓒ = inlet 3/8" F. Ⓞ = outlet 3/8" F.  
 BP = bypass 3/8" F. MN = pressure gauge 1/4" F. Regulation valve with switch (IP55) and cable 1,000 mm. Max. 220 bar / 90 °C

R+M Nr.	☰
532 235 0	30 l/min

### VB9



Ⓒ = inlet 3/8" F. Ⓞ = outlet 3/8" F.  
 BP = bypass 3/8" F. MN = pressure gauge 1/4" F. Max. 220 bar / 90 °C

R+M Nr.	☰
532 234 0	30 l/min

### VB56



Ⓒ = inlet 1/2" F. Ⓞ = outlet 3/8" F.  
 Regulation valve with banjo-bolt. X: 26 mm. Y: 66 - 76 mm. Suitable for Leuco or Hawk MT-LT. Max. 220 bar / 90 °C

R+M Nr.	☰
532 137 2	30 l/min



Ⓒ = inlet 1/2" F. Ⓞ = outlet 3/8" F.  
 Regulation valve with banjo-bolt. X: 4.5 mm. Y: 59.5 - 63.5 mm. Suitable for AR Serie RC. Max. 220 bar / 90 °C

R+M Nr.	☰
532 139 2	30 l/min



Ⓒ = inlet 1/2" F. Ⓞ = outlet 3/8" F.  
 Regulation valve with banjo-bolt. X: 4.5 mm. Y: 62 - 65.5 mm. Suitable for AR Series RK, Comet Series FW. Max. 220 bar / 90 °C

R+M Nr.	☰
532 138 0	30 l/min

Regulation valves

VB75



☉ = inlet 1/2" F. ☉ = outlet 3/8" F. Regulation valve with banjo-bolt. X: 19 mm. Y: 62-73 mm. Suitable for IP50, IP44, IP47, IP60, IP63 / Speck NP16. Max. 250 bar / 90 °C

R+M Nr.	P	☉
532 093 0		30 l/min

VB85



☉ = inlet 1/2" F. ☉ = outlet 1/2" F. ☉ = bypass 1/2" F. Max. 90 °C

R+M Nr.	P	☉
532 851 6	max. 160 bar	80 l/min
532 852 8	max. 280 bar	80 l/min

Rep. Kit VB85



R+M Nr.
532 851 62

VB80



☉ = inlet 1/2" F. ☉ = outlet 1/2" F. ☉ = bypass 1/2" F. Stainless steel. Max. 90 °C

R+M Nr.	P	☉
532 802 84	max. 280 bar	80 l/min

VB80/150



☉ = inlet 1/2" F. ☉ = outlet 1/2" F. ☉ = bypass 1/2" F. ☉ = pressure gauge 1/4" F. Max. 90 °C

R+M Nr.	P	☉
532 801 50	max. 150 bar	80 l/min

VB53/500



☉ = inlet 1/2" F. ☉ = outlet 1/2" F. ☉ = bypass 1/2" F. Max. 90 °C

R+M Nr.	P	☉
532 535 00	max. 500 bar	80 l/min

VB26



☉ = inlet 1/2" F. ☉ = outlet 1/2" F. ☉ = bypass 1/2" F. Stainless steel. Max. 90 °C

R+M Nr.	P	☉
532 262 80	max. 280 bar	80 l/min

VRT100/190



☉ = inlet 1/2" F. ☉ = outlet 1/2" F. ☉ = bypass 1/2" F. Max. 90 °C

R+M Nr.	P	☉
532 056 0	max. 190 bar	100 l/min

Symbols ☉ inlet ☉ outlet ☉ bypass ☉ pressure gauge ☉ flow ☉ pressure



## Regulation valves

VB350



Ⓞ = inlet 3/8" M. ⊖ = outlet 3/8" F. [BP] = bypass 1/2" F. [MN] = pressure gauge 1/4" F. Regulation valve with switch (IP55) and cable 1,200 mm. Max. 350 bar / 90 °C

R+M Nr.	☰
532 350	40 l/min

VB350



Ⓞ = inlet 3/8" M. ⊖ = outlet 3/8" F. [BP] = bypass 1/2" F. [MN] = pressure gauge 1/4" F. Max. 350 bar / 90 °C

R+M Nr.	☰
532 340	40 l/min

VB60/600



Ⓞ = inlet 1/2" F. ⊖ = outlet 1/2" F. [BP] = bypass 1/2" F. Max. 600 bar / 90 °C

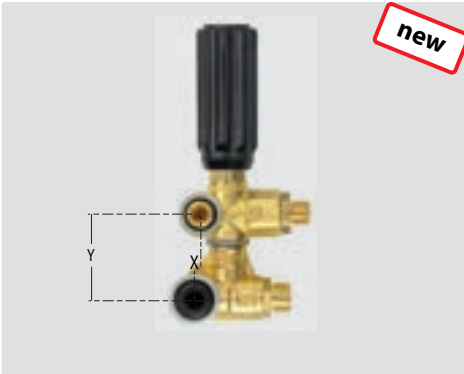
R+M Nr.	☰
532 260 0	60 l/min

Gymatic 3/B



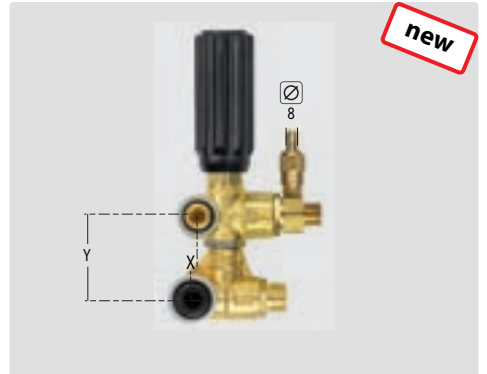
Ⓞ = inlet 3/4" F. ⊖ = outlet 3/8" M. Regulation valve with banjo-bolt. X: 8.5 mm. Y: 68-77 mm. Suitable for AR Serie XW. Max. 250 bar / 45 °C (\*60 °C)

R+M Nr.	☰
170 208 02	35 l/min



Ⓞ = inlet 1/2" M. ⊖ = outlet 3/8" M. Regulation valve with banjo-bolt. X: 4.5 mm. Y: 53-64 mm. Suitable for AR Serie XM, RR, JK and RK. Max. 250 bar / 45 °C (\*60 °C)

R+M Nr.	☰
170 200 80	35 l/min



Ⓞ = inlet 1/2" M. ⊖ = outlet 3/8" M. Regulation valve with banjo-bolt. Chemical injector (∅ 2.1 mm), hose tail 8 mm. X: 4.5 mm. Y: 53-64 mm. Suitable for AR Serie XM, JK and RK. Max. 250 bar / 45 °C (\*60 °C)

R+M Nr.	☰
170 204 00	13 / 18 l/min

VB60/600



Ⓞ = inlet 1/2" F. ⊖ = outlet 1/2" F. [BP] = bypass 1/2" F. Regulation valve with micro switch (IP55) and cable 950 mm. Max. 600 bar / 90 °C

R+M Nr.	☰
532 265 0	60 l/min

Zeromatic 93



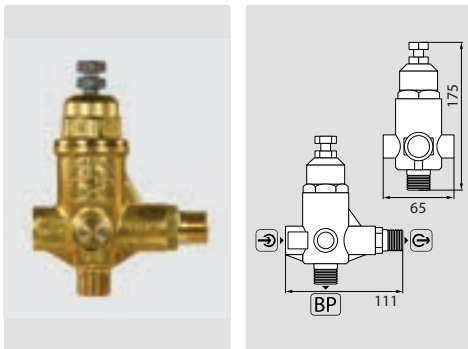
Ⓞ = inlet 1/2" F. ⊖ = outlet 3/8" M. [BP] = bypass 1/2" F. [MN] = pressure gauge 1/4" F. Max. 250 bar / 60 °C

R+M Nr.	☰
170 290 7	40 l/min

\* short-term, only

## INTERPUMP regulation valves

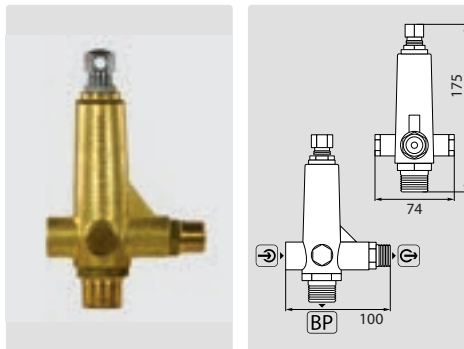
K1



☉ = inlet 3/8" F. ☉ = outlet 1/2" M.  
 BP = bypass 1/2" M.  
 Max. 250 bar / 60 °C

R+M Nr.	☉
100 000 10	9 - 41 l/min

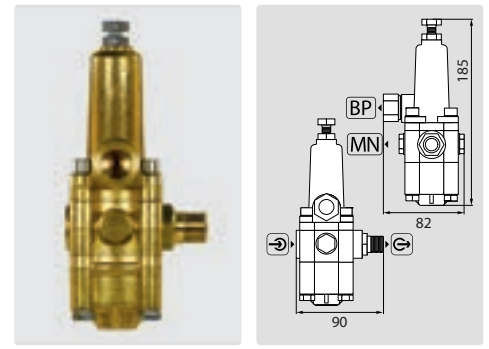
K5



☉ = inlet 3/8" F. ☉ = outlet 1/2" M. BP = bypass 1/2" F - 3/4" M. MN = pressure gauge 1/4" F.  
 Max. 200 bar / 60 °C

R+M Nr.	TYP	☉
100 000 51	K5.1	11 - 16 l/min
100 000 52	K5.2	16 - 25 l/min
100 000 53	K5.3	25 - 41 l/min

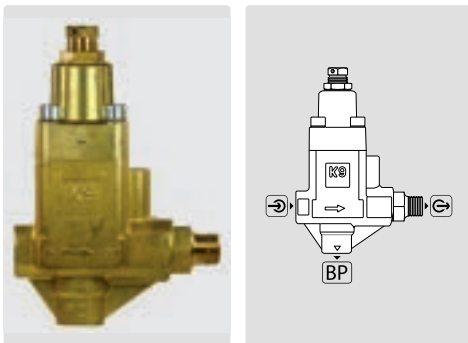
K7



☉ = inlet 3/8" F. ☉ = outlet 3/8" M. BP = bypass 3/8" F. MN = pressure gauge 1/4" F.  
 Max. 200 bar / 60 °C

R+M Nr.	TYP	☉
100 000 70	K7.0	8 - 11 l/min
100 000 71	K7.1	11 - 16 l/min
100 000 72	K7.2	16 - 25 l/min
100 000 73	K7.3	25 - 41 l/min

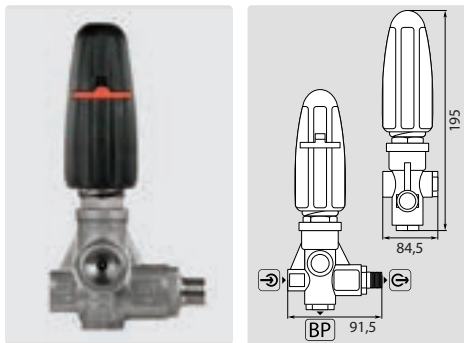
K9



☉ = inlet 1/2" F. ☉ = outlet 1/2" M.  
 BP = bypass 1/2" F.  
 Max. 400 bar / 60 °C

R+M Nr.	☉
100 000 95	50 l/min

H253

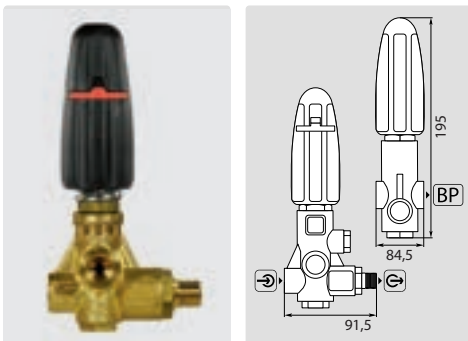


☉ = inlet 3/8" F. ☉ = outlet 3/8" M.  
 BP = bypass 3/8" F.  
 Max. 250 bar / 60 °C

R+M Nr.	TYP	☉
100 012 53	stainless steel	8 - 30 l/min

**Info about the valves K1 . K5 . K7 . K9 . BKX.**  
 By means of the valves the pressure can be zeroed in the entire system (pump and hose).

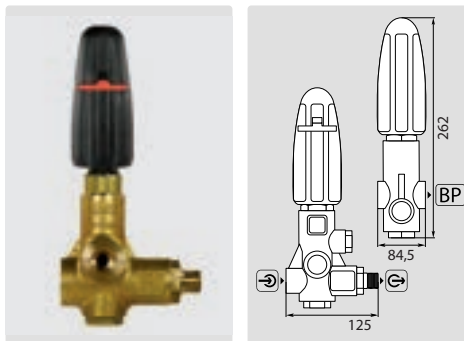
H284



☉ = inlet 3/8" F. ☉ = outlet 3/8" M.  
 BP = bypass 3/8" F. MN = pressure gauge 1/4" F.  
 Max. 280 bar / 85 °C

R+M Nr.	☉
100 002 84	8 - 41 l/min

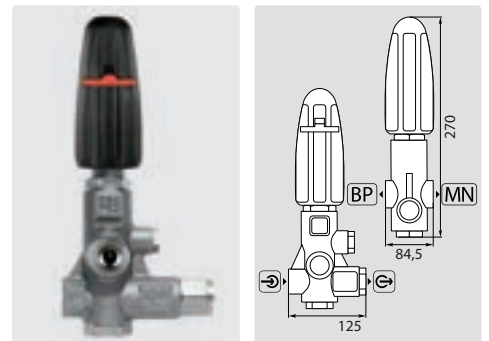
H450



☉ = inlet 1/2" F. ☉ = outlet 1/2" M.  
 BP = bypass 1/2" F.  
 Max. 400 bar / 85 °C

R+M Nr.	☉
100 014 40	50 l/min

H560

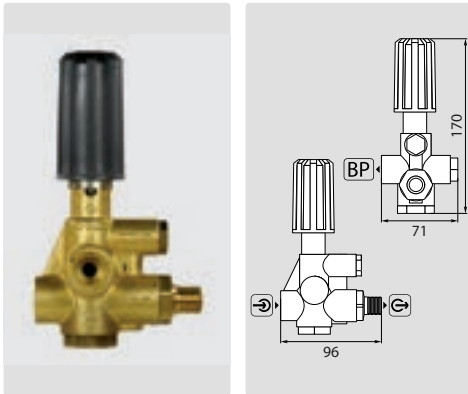


☉ = inlet 1/2" F. ☉ = outlet 1/2" F. BP = bypass 1/2" F. MN = pressure gauge 1/4" F.  
 Max. 500 bar / 60 °C

R+M Nr.	TYP	☉
100 005 60	stainless steel	60 l/min

## INTERPUMP regulation valves

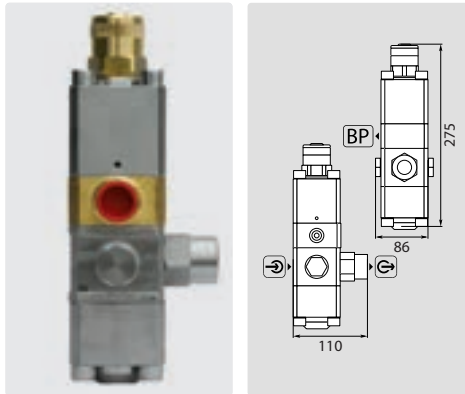
HM



☉ = inlet 3/8" F. ☉ = outlet 3/8" M. BP = bypass 3/8" F. MN = pressure gauge 1/4" F.  
Max. 200 bar / 85 °C

R+M Nr.	☉
010 002 00	5 - 41 l/min

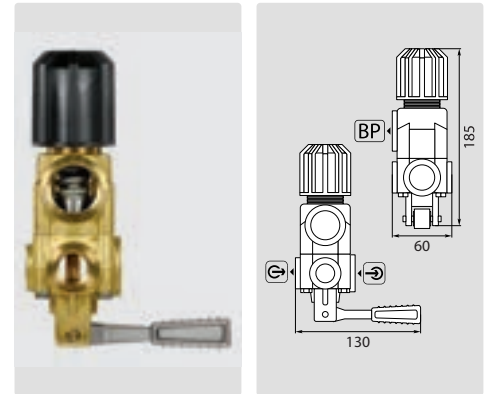
BKX



☉ = inlet 1/2" F. ☉ = outlet 1/2" F.  
BP = bypass 3/4" F.  
Max. 600 bar / 60 °C

R+M Nr.	☉
010 000 02	60 l/min

TIMAX



☉ = inlet 3/4" F. ☉ = outlet 1/2" F.  
BP = bypass 1" F.  
Max. 60 bar / 60 °C

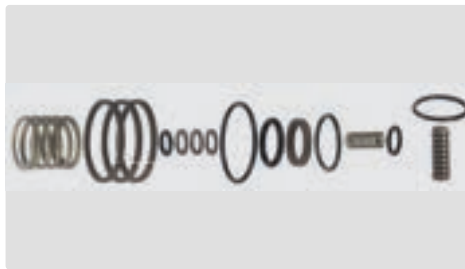
R+M Nr.	☉
010 010 01	200 l/min

Repair kits



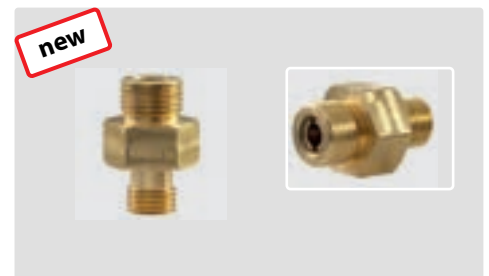
R+M Nr.	Kit Nr.	TYP
340 058 01	58	K5
340 060 01	60	K5
340 070 01	70	K7
340 072 01	72	HM
340 093 01	93	W2, W2L
340 094 01	94	W2, W2L

Rep. Kit BKX



R+M Nr.	010 000 03
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## Valve "easystart"



Valve delays pressure increase at pump start.  
Brass / stainless steel.  
Closes at 4 l/min.  
Max. 350 bar / 150 °C

R+M Nr.	☉	☉
200 232 510	3/8" M	1/4" M

## Throttle control

IP adjustable

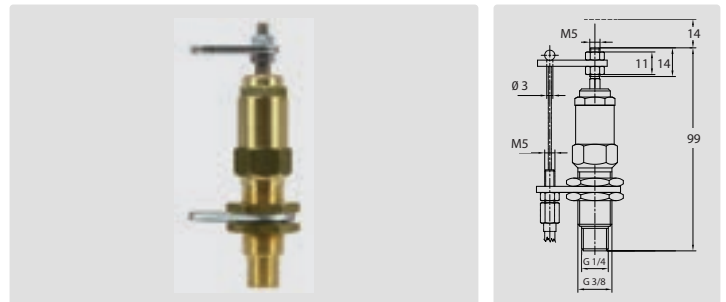


Regulator with string 1,000 mm. Min. 50 bar.  
Max. 200 bar / 75 °C

R+M Nr.	☉
995 000 00	3/8" M

RG1

Throttle control for engine motors. It slows RPM down when by-pass is activated.

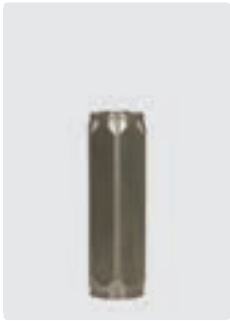


☉ 1/4" M. 15 - 250 bar - 218 - 3,650 psi.  
Max. 160 °C.

R+M Nr.	Stroke	☉
532 013 0	14 mm	158 g

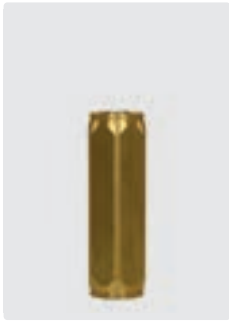
Symbols ☉ inlet ☉ outlet BP bypass MN pressure gauge ☉ flow TYP type ☉ weight ☉ thread

High pressure check valves ST-264



1/4" F. Stainless steel.  
 Ⓜ 62 mm. Opening  
 pressure 0.05 - 0.1 bar.  
 Max. 400 bar / 90 °C

R+M Nr.	SW
200 264 500	19 mm



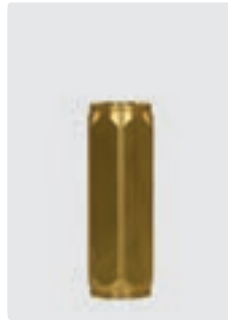
1/4" F. Brass.  
 Ⓜ 62 mm. Opening  
 pressure 0.05 - 0.1 bar.  
 Max. 150 bar / 90 °C

R+M Nr.	SW
200 264 510	19 mm



3/8" F. Stainless steel.  
 Ⓜ 65 mm. Opening  
 pressure 0.05 - 0.1 bar.  
 Max. 400 bar / 90 °C

R+M Nr.	SW
200 264 520	22 mm



3/8" F. Brass.  
 Ⓜ 65 mm. Opening  
 pressure 0.05 - 0.1 bar.  
 Max. 150 bar / 90 °C

R+M Nr.	SW
200 264 530	22 mm



1/2" F. Stainless steel.  
 Ⓜ 90 mm. Opening  
 pressure 0.05 - 0.1 bar.  
 Max. 400 bar / 90 °C

R+M Nr.	SW
200 264 540	27 mm



1/2" F. Stainless steel.  
 Ⓜ 90 mm. Opening  
 pressure 10 bar.  
 Max. 400 bar / 90 °C

R+M Nr.	SW
200 264 541	27 mm



1/4" M. Stainless steel. Ⓜ 37.8 mm.  
 Opening pressure 0.05 - 0.1 bar.  
 Max. 400 bar / 90 °C

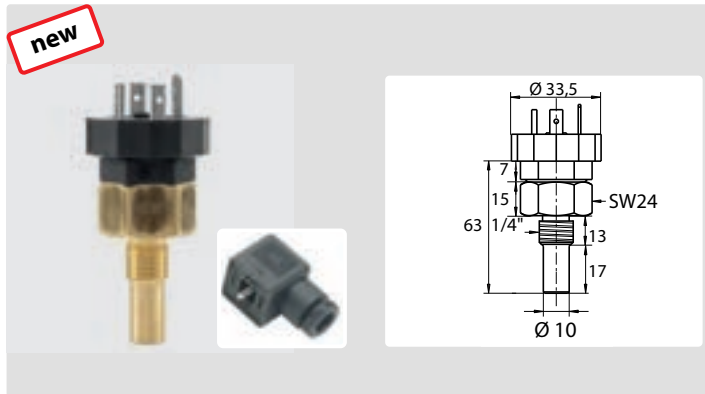
R+M Nr.	SW
200 264 700	17 mm

Thermal relief valves



1/2" M : hose tail 8 mm. Valve with  
 copper sonde. Working temperature  
 63 °C. Max. 10 bar

R+M Nr.
910 50



Bimetal temperature switch with plug. Switching point accuracy ± 5 °C.  
 Reset temperature 15...40K. Switching voltage up to AC 250 V / 2A.  
 Max. 10 bar in the inlet. Switch 1/4" M

R+M Nr.	°C	⊙
910 513 560	60	1/4"
910 513 585	85	1/4"



1/2" M : hose tail 8 mm. Valve with  
 copper sonde. Working temperature  
 63 °C. Max. 10 bar

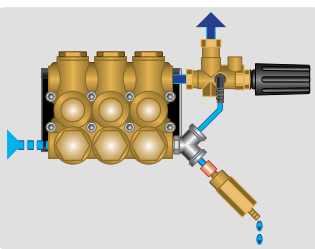
R+M Nr.
910 55



3/8" M : hose tail 8 mm. Valve with  
 copper sonde. Working temperature  
 63 °C. Max. 10 bar

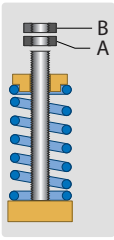
R+M Nr.
910 65

Assembly instructions  
 of a relief valves

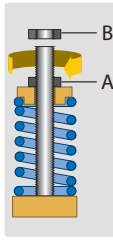


## Relief valves / pressure regulation valves

### Setting up of a relief valve



Screw off fixing nut (B) and regulating nut (A). Switch on high pressure cleaner and press trigger of gun so that the entire water flow runs out of the relief valve.



Slowly unscrew regulating nut (A) until pressure on the gauge is higher than the working pressure of the machine i.e. (> 100 bar = 10 % . < 100 bar = 20 %). Switch off hp cleaner and unscrew fix nut (B) without changing the position of nut (A).

#### Attention

High pressure cleaner that are equipped with a regulation (bypass) valve must be set after having adjusted the relief valve.

SR



⌈ 110 mm. Max. 200 bar / 41 l/min / 80 °C

R+M Nr.	⊖	⊕
010 002 10	1/4" F	3/8" M

VS 240



⌈ 90 mm. Max. 240 bar / 24 l/min / 60 °C

R+M Nr.	⊖	⊕
530 525 0	⊘ 3.5 mm	3/8" M

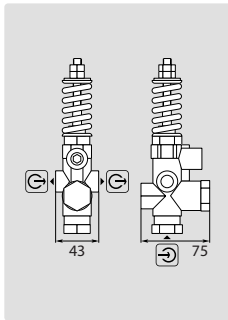
VS 500



⌈ 222 mm. Max. 500 bar / 80 l/min / 90 °C

R+M Nr.	BP	⊕
532 520 0	3/8" F	1/2" F

S 250



⌈ 160 mm. Max. 250 bar / 35 l/min / 95 °C

R+M Nr.	⊖	⊕
530 10	1/4" F	3/8" F

Repair kits



S 250

R+M Nr.
121 412 92

S3



⌈ 110 mm. Max. 580 bar / 100 l/min / 60 °C

R+M Nr.	⊕
010 002 15	1/2" M

Symbols ⊕ inlet ⊖ outlet BP bypass ⊘ thread ⌈ height SW hexagon P pressure °C temperature



Relief valves / pressure regulation valves

ST-230 Pressure regulating valve



Seal possible

- » Relief valve intended for use on water-operated high-pressure systems such as high-pressure cleaners or water heaters
- » Approved for use with fluids of Group II according to 2014/68/EU
- »  $\downarrow$  110 mm
- » Max. 30 l/min / 95 °C

R+M Nr.	$\ominus$	$\oplus$	P
200 230 520	1/4" F	1/4" F	10-100
200 230 501	1/4" F	1/4" F	80-250
200 230 502	M16 x 1,5 M	1/4" F	80-250
200 230 601	1/4" F	1/4" F	120-350
200 230 602	M16 x 1,5 M	1/4" F	120-350

Repair kits



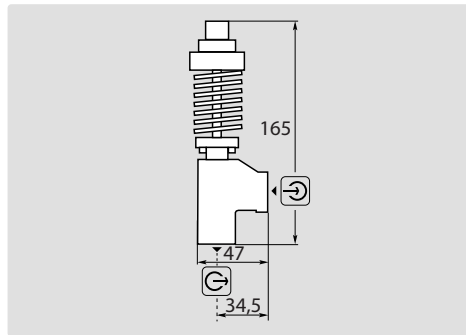
ST-230

R+M Nr.	for TYP
200 230 495*	100 bar
200 230 495*	250 bar
200 230 496	100 bar
200 230 496	250 bar
200 230 497	350 bar

ST-230-700 Pressure regulating valve



**new**  
Seal possible



$\downarrow$  165 mm. Max. 40 l/min / 60 °C.  
Short-term max. 85° C

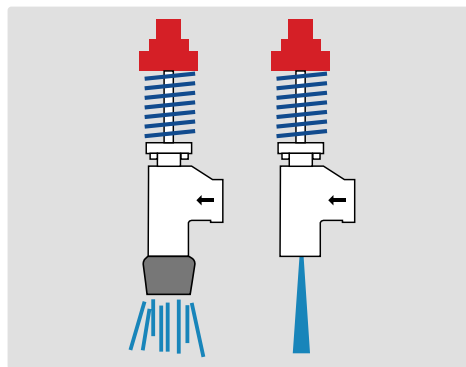
R+M Nr.	$\ominus$	$\oplus$	P
200 230 700	3/8" F	1/4" F	200-700



Jetbreaker




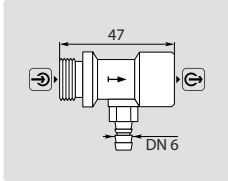

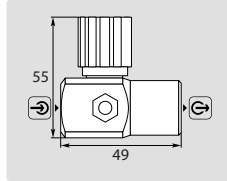




















**new**























$\downarrow$  27 mm

R+M Nr.	$\oplus$
200 230 410	3/8" M


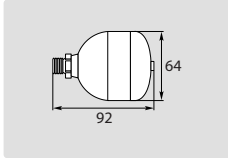

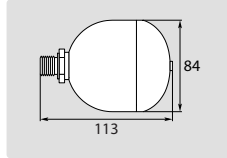

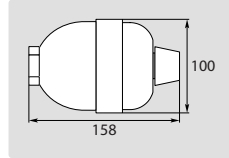


















## Suttner chemical injectors

ST-60				ST-62				Metering valves		Repair kits																																			
																																													
Injector without metering valve. Max. 250 bar / 60 °C				Injector without metering valve. Adjustable bypass allows big water flow rates without reduction of the water pressure. Max. 250 bar / 60 °C				Valve for Suttner injector. Hose tail 6 mm		Chemical check valve. Hose tail 6 mm																																			
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## Suttner foam injectors

ST-60.1 with coupling		ST-60.1		ST-60.1 with quick screw coupling																					
																									
Coupling ST-45-250 : plug ST-45-250. Injector with metering valve, suction hose 1,000 mm and suction filter ST-31. Max. 250 bar / 60 °C		Injector without metering valve. Max. 250 bar / 60 °C		M22 F : M22 M. Injector with metering valve, suction hose 1,000 mm and suction filter ST-31. Max. 250 bar / 60 °C																					
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200 061 500	<b>2</b>																								
R+M Nr.																									
200 060 725																									

## Accumulator

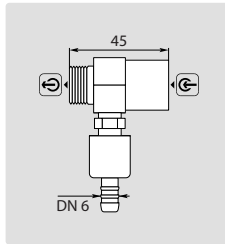
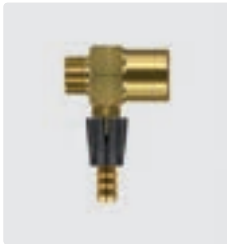
																										
Volume 0.07 liter. Max. 80 °C		Volume 0.21 liter. Max. 85 °C		Volume 0.35 liter. Max. 85 °C																						
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R+M Nr.																										
189 211 0 *	3/8" F	40 - 210 bar																								

\* Accumulator must be filled with nitrogen

Symbols  inlet  outlet  nozzle  type  nominal diameter  pressure  thread

## Chemical injectors

## R+M 300



Injector with metering valve.  
Max. 220 bar / 90 °C

R+M Nr.			D
544 318 1	3/8" M	3/8" F	1.8 mm
544 321 1	3/8" M	3/8" F	2.1 mm
544 323 1	3/8" M	3/8" F	2.3 mm

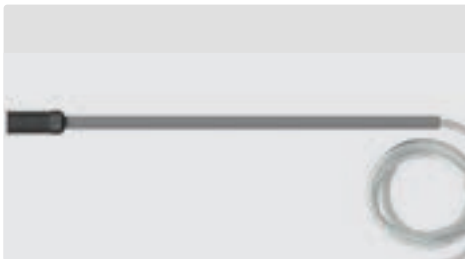
## R+M 300



Injector with metering valve.  
Max. 220 bar / 90 °C

R+M Nr.			D
544 318 11	M22 M	M22 F	1.8 mm
544 321 11	M22 M	M22 F	2.1 mm
544 323 11	M22 M	M22 F	2.3 mm

## Suttner chemical suction sets



Suction set with suction hose 1,500 mm, suction filters ST-31 and chemical-resistant plastic tube 320 mm. The tube keeps the suction filter at the deepest point.

R+M Nr.	TYP	DN
200 031 500	clear PVC hose	6 mm
200 031 510	reinforced PVC hose blue	9 mm
200 031 520	reinforced PVC hose yellow	9 mm
200 031 530	reinforced PVC hose clear	9 mm



Suction set with filter check valve ST-32 and stainless steel tube 350 mm.

R+M Nr.	DN
200 032 601	6 mm
200 032 602	8 mm
200 032 603	10 mm

## Hose clamps

1.4016 stainless steel housing and band.  
Hexagon screw zinc-plated. Worm gear high tension.  
Flat tape inner sides with turned up rims.  
According to DIN 3017, W2

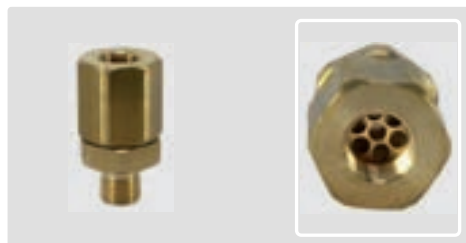


Clamps with hexagon screw. 9 mm

R+M Nr.	VPE	DN
735 10	1	6 mm
735 30	1	9 mm

R+M Nr.	VPE	DN
735 101 00	100	6 mm
735 301 00	100	9 mm

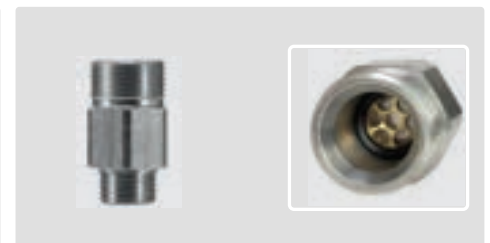
## High Pressure Filter ST-33



Brass with stainless steel filter. Bidirectional.  
Max. 400 bar / 40 l/min. / 150 °C

R+M Nr.			
200 033 855	45.6 mm	1/4" M	1/4" F

## Ultra High Pressure Filter

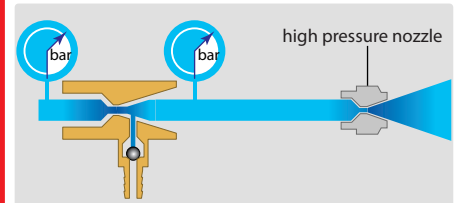


Stainless steel with brass mesh holder and stainless steel strainer. Suitable as inlet water filter for ST-164. Max. 400 bar / 100 °C

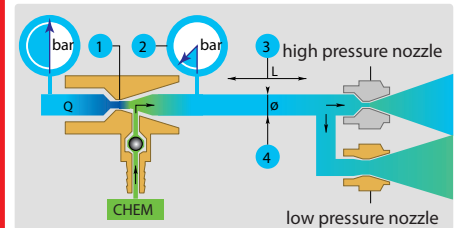
R+M Nr.			
200 163 100	40 mm	M 22 M	3/8" M

## Functional principle of a chemical injector

## High pressure phase



## Low pressure phase



The operation of the injector depends on:

- 1 The nozzle type must be chosen in dependence on the output of the high pressure cleaner.
- 2 The difference of pressure allows addition of chemical products occurred by special effect of "venturi" nozzle. This effect is given when the water also rinses through the low pressure nozzle. This has a bigger orifice than the high pressure nozzle and is mounted on the spray lance (e. g. at a double lance).
- 3 Length of the high pressure hose (should not be longer than 20 m).
- 4 Internal diameter of the high pressure hose (the longer the hose the bigger should be its internal diameter). Hose extensions injure output of the injector.

inlet outlet nozzle length thread DN nominal diameter colour height

## easyfoam365+ injectors by Suttner

### Injectors ST-160



3/8" F : 3/8" M : hose tail 9 mm. Injector for applications with chemicals and foam. The chemical dosing is adjusted by 10 exchangeable nozzle inserts (0.5 - 2.0 mm).  
Max. 350 bar / 90 °C

R+M Nr.	D
200 160 498	1.1 mm
200 160 499	1.2 mm
200 160 500	1.3 mm
200 160 505	1.4 mm
200 160 510	1.5 mm
200 160 515	1.6 mm
200 160 520	1.7 mm
200 160 525	1.8 mm
200 160 530	1.9 mm
200 160 535	2.0 mm
200 160 540	2.1 mm
200 160 545	2.2 mm
200 160 550	2.3 mm
200 160 560	2.5 mm
200 160 575	2.8 mm



3/8" F : 3/8" M : hose tail 9 mm.  
Injector ST-160 with metering valve ST-161.  
Max. 350 bar / 90 °C

R+M Nr.	D
200 160 599	1.1 mm
200 160 600	1.2 mm
200 160 601	1.3 mm
200 160 602	1.4 mm
200 160 603	1.5 mm
200 160 604	1.6 mm
200 160 605	1.7 mm
200 160 606	1.8 mm
200 160 607	1.9 mm
200 160 608	2.0 mm
200 160 609	2.1 mm
200 160 610	2.2 mm
200 160 611	2.3 mm
200 160 613	2.5 mm
200 160 614	2.8 mm

### Injectors ST-166



3/8" F : 3/8" M : 2 hose tails 9 mm. Injector for applications with chemicals and foam. The injector sucks in/admixes up to two chemicals at the same time. The chemical dosing is adjusted by 2 x 10 exchangeable nozzle inserts (0.5 - 2.0 mm).  
Max. 350 bar / 90 °C

R+M Nr.	D
200 166 500	1.3 mm
200 166 510	1.6 mm
200 166 530	1.9 mm

### Valve lock



Valve lock for metering valve ST-161

R+M Nr.
040 003 566

### Metering valves ST-161



Hose tail 9 mm : M14 M. Metering valve ST-161 suitable for being refitted in **easyfoam365+** injectors (ST-160, ST-166, ST-167 and ST-168)

R+M Nr.	C
200 161 500	blue (FKM)



Hose tail 9 mm : M14 M. Metering valve ST-161 suitable for being refitted in **easyfoam365+** injectors (ST-160, ST-166, ST-167 and ST-168)

R+M Nr.	C
200 161 515	grey (EPDM)



Hose tail 9 mm : hose tail 9 mm. Panel mount is possible

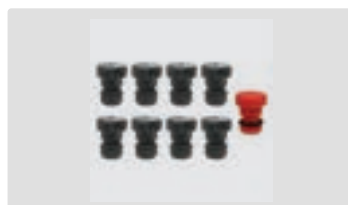
R+M Nr.	C
200 161 510	blue (FKM)

### Exchangeable nozzle inserts



Plastic. 10 nozzle inserts (0.5 - 2.0 mm).  
Incl. o-rings

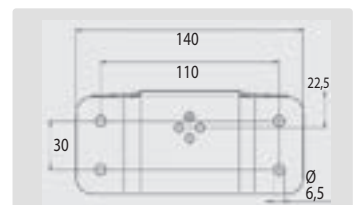
R+M Nr.
200 163 340



Plastic. 9 nozzle inserts (0.5 - 1.5 mm).  
Incl. o-rings.  
Incl. 1 insert without hole

R+M Nr.
200 163 335

### ST-160 wall mount



Stainless steel. Incl. fastening material for the injector.  
Fits for ST-160+161 and 166

R+M Nr.
200 160 160

## easyfoam365+ injectors by Suttner

## Injectors ST-160 with metering valve ST-161



Coupling ST-45-250 stainless steel : plug ST-45-250 stainless steel. Injector with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 250 bar / 90 °C

R+M Nr.	D
200 160 845	1.2 mm
200 160 846	1.3 mm
200 160 847	1.4 mm
200 160 848	1.5 mm
200 160 849	1.6 mm
200 160 850	1.7 mm
200 160 851	1.8 mm
200 160 852	1.9 mm
200 160 853	2.0 mm
200 160 854	2.1 mm
200 160 855	2.2 mm
200 160 856	2.3 mm



Coupling ST-45-250 nickel-plated brass : plug ST-45-250 zinc-plated steel. Injector with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 250 bar / 90 °C

R+M Nr.	D
200 160 860	1.2 mm
200 160 861	1.3 mm
200 160 862	1.4 mm
200 160 863	1.5 mm
200 160 864	1.6 mm
200 160 865	1.7 mm
200 160 866	1.8 mm
200 160 867	1.9 mm
200 160 868	2.0 mm
200 160 869	2.1 mm
200 160 870	2.2 mm
200 160 871	2.3 mm



M22 F : M22 M. Injector with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 350 bar / 90 °C

R+M Nr.	D
200 160 803	1.2 mm
200 160 804	1.3 mm
200 160 800	1.4 mm
200 160 801	1.5 mm
200 160 802	1.6 mm
200 160 805	1.7 mm
200 160 806	1.8 mm
200 160 808	2.0 mm
200 160 809	2.1 mm
200 160 810	2.2 mm
200 160 811	2.3 mm

## Reinforced PVC hoses blue



Max. 60 °C. Other dimensions are available on request

## Per metre

R+M Nr.	DN	⊗
080 000 310	9 mm	3.0 mm
306 71	13 mm	3.0 mm

## Complete rolls

R+M Nr.	DN	↔	⊗
306 560 50	9 mm	50 m	3.0 mm
306 710 50	13 mm	50 m	3.0 mm

## Suction filter ST-31



Filter without check valve. Plastic. Stainless steel weight

R+M Nr.
200 031 615



Filter with check valve. Plastic. Stainless steel weight

R+M Nr.
200 031 611

## Accessories injectors



Hose tail 9 mm : M14 M. Check valve

R+M Nr.
200 163 350



1/4" M : M14 M. Check valve

R+M Nr.
200 163 356

Symbols  $\square$  nozzle  $\otimes$  wall thickness  $\square$  DN nominal diameter



## easyfoam365+ injectors by Suttner

### Injectors ST-160



Coupling ST-45-250 nickel-plated brass : plug ST-45-250 stainless steel. Injector with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 250 bar / 90 °C

R+M Nr.	D
200 160 616	1.8 mm : 2.3 mm



Coupling ST-45-250 nickel-plated brass : plug ST-45-250 stainless steel. Injector ST-160 with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 250 bar / 90 °C

R+M Nr.	D
200 160 615	1.7 mm : 2.3 mm



Coupling ST-45-250 nickel-plated brass : plug ST-45-250 stainless steel. Injector ST-160 with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 250 bar / 90 °C

R+M Nr.	D
200 160 617	2.2 mm : 2.8 mm

### easyfoam365+ bypass injectors ST-167



Coupling ST-45-250 nickel-plated brass : plug ST-45-250 stainless steel. Injector ST-167 with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 250 bar / 100 °C

R+M Nr.	D
200 167 850	1.8 mm : 2.3 mm



Coupling ST-45-250 stainless steel : plug ST-45-250 stainless steel. Injector ST-167 with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 250 bar / 100 °C

R+M Nr.	D
200 167 855	1.8 mm : 2.3 mm



Coupling ST-45-250 nickel-plated brass : plug ST-45-250 stainless steel. Injector ST-167 with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 250 bar / 100 °C

R+M Nr.	D
200 167 860	1.8 mm : 2.8 mm

### Reference list manufacturer number to R+M number A

Manufacturer Nr.	R+M Nr.
640 124 4	200 160 616
640 124 4	200 160 615
640 124 6	200 160 617
640 124 2	200 167 850
640 124 3	200 167 855
640 124 7	200 167 860

R+M high quality spare parts are obtained from well-established manufacturers. As a rule they are not original spare parts. The original order numbers and the indication of other information are exclusively for your guidance and furthermore they are not intended for the general use, e.g. invoices addressed to end users. In case of mentioning the original order numbers in your orders it can not be assumed that the products ordered are original spare parts. Original spare parts are supplied when they are especially offered as those in our catalogue or in other mailing pieces such as special offers or newsletters.

## Suttner flow switches

## ST-5 flow switch ST-5 "High-Flow" 210 bar



Floater ST-5 "High-Flow"  
with hole



REED switch

R+M Nr.	
200 005 528	

R+M Nr.	
200 005 435	

ST-5 "High-Flow". Floater with hole.  
Contact 1 A - 250 V.

R+M Nr.	⊙	mount	closed/open	°C	↔	cable ↔
200 005 701	1/2" F	vertical	5.2/4.2	80	60 l/min	1,200 mm

## ST-5 flow switches 350 bar



Floater ST-5 without  
hole



REED switch

R+M Nr.	
200 005 518	

R+M Nr.	
200 005 435	

Floater with hole. Contact 1 A - 250 V.

R+M Nr.	⊙	mount	closed/open	°C	↔	cable ↔
200 005 501	3/8" F	vertical	3.4/2.9	80	30 l/min	1,200 mm
200 005 601	3/8" F	horizontal or vertical	5.2/4.2	80	30 l/min	1,200 mm



Floater ST-5 without  
hole



REED switch

R+M Nr.	
200 005 526	

R+M Nr.	
200 005 435	

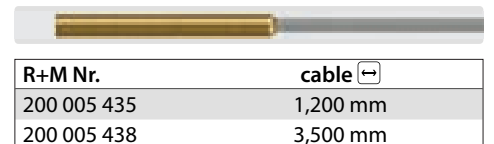
Floater without hole. Contact 1 A - 250 V.

R+M Nr.	⊙	mount	closed/open	°C	↔	cable ↔
200 005 558	3/8" F	vertical	0.3/0.17	80	30 l/min	1,200 mm

## ST-505 flow switches 600 bar



Floater ST-505 with hole



R+M Nr.	cable ↔
200 005 435	1,200 mm
200 005 438	3,500 mm

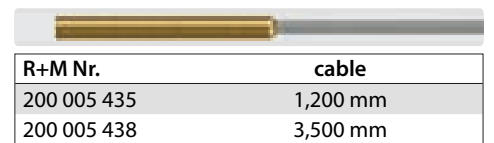
R+M Nr.	
200 005 301	

Floater VA with hole.  
Contact 1 A - 250 V.

R+M Nr.	⊙	mount	closed/open	°C	↔	cable ↔
200 505 706	3/8" F	vertical	3.3/1.8	80	30 l/min	1,200 mm
200 505 709	3/8" F	vertical	2.9/1.7	80	30 l/min	3,600 mm



Floater ST-505 without  
hole



R+M Nr.	cable
200 005 435	1,200 mm
200 005 438	3,500 mm

R+M Nr.	
200 005 526	

Floater brass with hole.  
Contact 1 A - 250 V.

R+M Nr.	⊙	mount	closed/open	°C	↔	cable ↔
200 505 708	3/8" F	vertical	0.5/0.1	80	30 l/min	1,200 mm
200 505 711	3/8" F	vertical	0,5/0.1	80	30 l/min	3,600 mm



Floater ST-505 without  
hole



REED switch

R+M Nr.	
200 005 311	

R+M Nr.	
200 005 438	

Floater VA without hole. Contact 1 A - 250 V

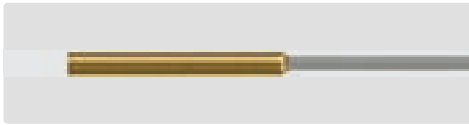
R+M Nr.	⊙	mount	closed/open	°C	↔	cable ↔
200 505 707	3/8" F	vertical	1.8/1.3	80	30 l/min	1,200 mm

## Suttner flow switches

### Spare parts flow switches



limited stock



Floater ST-5 with hole

REED switch ST-5 & ST-505

R+M Nr.	R+M Nr.	☐ cable
200 005 520	200 005 435	1.200 mm
	200 005 438	3.500 mm

### ST-6 flow switches



3/8" M : 3/8" M. Horizontal or vertical mount. Cable 1,200 mm. Contact 1 A - 250 V. 1.8 l closed. 1.4 l open. Max. 310 bar / 30 l/min / 80 °C

R+M Nr.
200 006 700



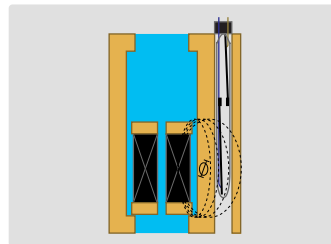
REED switch ST-6.  
Cable 1,200 mm

Floater ST-6

R+M Nr.	R+M Nr.
200 006 436	200 006 490

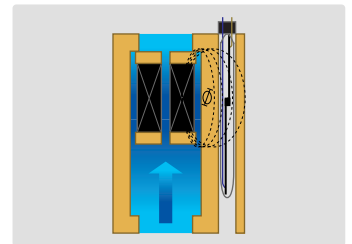
### Functional principle of a flow switch

Without waterflow



The floater is in resting position. The contact is open.

With waterflow



The floater is in working position. The contact is closed by the magnetic floater.

### ST-7 flow switches



3/8" F. Protection class IP65. Cable 1,200 mm. 10 A. 250 V. Inrush current 20 A (NC) and 15 A (NO). Max. 350 bar / 45 l/min / 80 °C

R+M Nr.	☐ switch-on points
200 007 500	4.0 l/min 4.9 l closed. 3.5 l open
200 007 510	1.5 l/min 1.5 l closed. 0.8 l open

The ST-7 is a newly developed version of the flow switch having a completely new operating principle. In this new development a robust and industrial micro switch is inserted instead of the usually supersensitive REED-contacts with low switching capacity. This micro switch makes it possible to realize a significantly higher electrical output though having a longer working life. The electrical and water-hydraulic components of the flow switch are completely separated. The construction of the flow switch allows mounting the electrical parts independent of the hydraulic components within the series production process. When fitting together chassis and switch box both parts of the flow switch are connected again. Due to the mature engineering low switching points are realized in spite of maximum water quantities. The pressure drop within the flow switch is only 1.5 bar at 30 l/min.

### Spare parts flow switches ST-7



Repair-Kit floater ST-7

R+M Nr.	☐
200 007 497	4 l/min
200 007 499	1.5 l/min

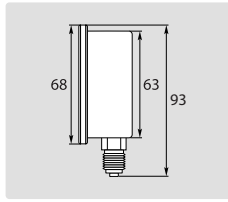


Repair-Kit switch ST-7.  
Cable 1,200 mm

R+M Nr.
200 007 498

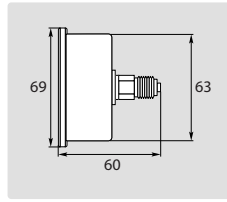
Symbols ☐ length ☐ flow TYP type Ⓞ thread °C temperature

## High pressure gauges glycerine filled



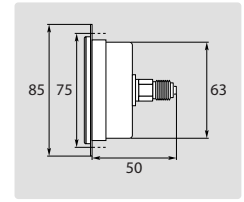
∅ 63 mm. 1/4" M. Housing stainless steel.  
Inlet at the bottom

R+M Nr.	pressure range
549 00	0 - 40 bar . 0 - 580 PSI
549 10	0 - 100 bar . 0 - 1.500 PSI
549 20	0 - 160 bar . 0 - 2.500 PSI
549 30	0 - 250 bar . 0 - 4.000 PSI
549 40	0 - 400 bar . 0 - 6.000 PSI
549 50	0 - 600 bar . 0 - 8.000 PSI



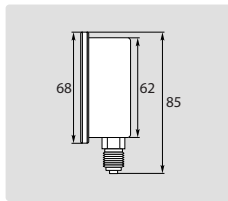
∅ 63 mm. 1/4" M. Housing stainless steel.  
Inlet at the back

R+M Nr.	pressure range
548 10	0 - 100 bar . 0 - 1.500 PSI
548 20	0 - 160 bar . 0 - 2.500 PSI
548 30	0 - 250 bar . 0 - 4.000 PSI
548 40	0 - 400 bar . 0 - 6.000 PSI



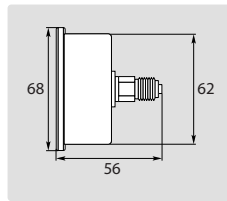
∅ 63 mm. 1/4" M. With mounting ring.  
Housing stainless steel. Inlet at the back

R+M Nr.	pressure range
549 90	0 - 250 bar . 0 - 4,000 PSI



∅ 63 mm. 1/4" M. Housing stainless steel.  
Inlet at the bottom. Type WIKA

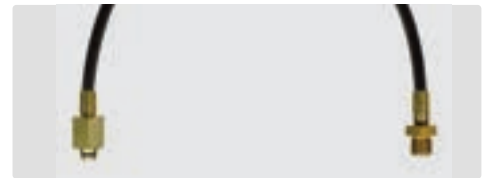
R+M Nr.	pressure range
549 102	0 - 100 bar . 0 - 1.500 PSI
549 202	0 - 160 bar . 0 - 2.500 PSI
549 302	0 - 250 bar . 0 - 4.000 PSI
549 402	0 - 400 bar . 0 - 6.000 PSI
549 502	0 - 600 bar . 0 - 8.000 PSI



∅ 63 mm. 1/4" M. Housing stainless steel.  
Inlet at the back. Type WIKA

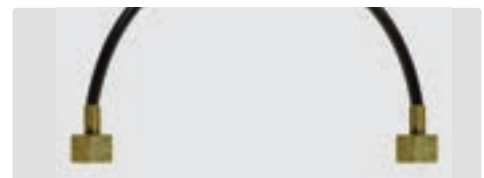
R+M Nr.	pressure range
548 102	0 - 100 bar . 0 - 1.500 PSI
548 202	0 - 160 bar . 0 - 2.500 PSI
548 302	0 - 250 bar . 0 - 4.000 PSI
548 402	0 - 400 bar . 0 - 6.000 PSI
548 631 000	0 - 1,000 bar . 0 - 15,000 PSI

### Connecting hoses



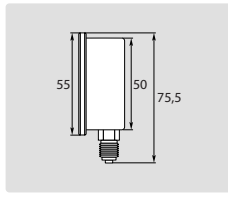
DN 2. Max. 250 bar / 65 °C

R+M Nr.	↔	⊖	⊕
495 261 040 5	405 mm	M12x1.5 F	M10x1 M



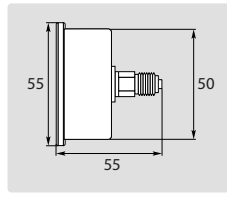
DN 2. Max. 250 bar / 65 °C

R+M Nr.	↔	⊖	⊕
495 252 050 0	500 mm	1/4" F	1/4" F
495 252 070 0	700 mm	1/4" F	1/4" F



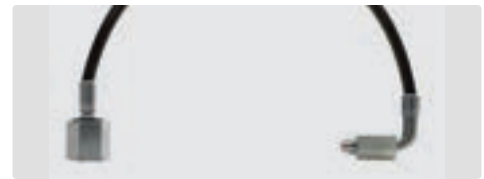
∅ 50 mm. 1/4" M. Housing stainless steel.  
Inlet at the bottom. Type WIKA

R+M Nr.	pressure range
549 352	0 - 250 bar . 0 - 4,000 PSI
549 452	0 - 400 bar . 0 - 6,000 PSI



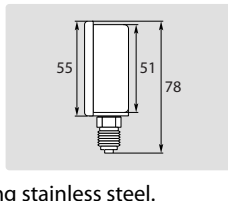
∅ 50 mm. 1/4" M. Housing stainless steel.  
Inlet at the back. Type WIKA

R+M Nr.	pressure range
548 352	0 - 250 bar . 0 - 4,000 PSI
548 432	0 - 400 bar . 0 - 6,000 PSI



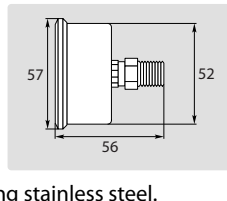
DN 2. Max. 250 bar / 65 °C

R+M Nr.	↔	⊖	⊕
495 253 100 0	1,000 mm	1/4" F	1/4" F 90°



∅ 50 mm. 1/4" M. Housing stainless steel.  
Inlet at the bottom

R+M Nr.	pressure range
549 35	0 - 250 bar . 0 - 4,000 PSI
549 45	0 - 400 bar . 0 - 6,000 PSI



∅ 50 mm. 1/4" M. Housing stainless steel.  
Inlet at the back

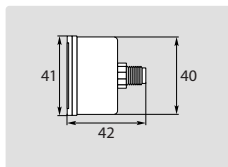
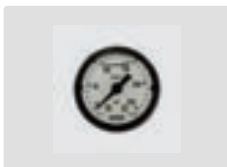
R+M Nr.	pressure range
548 35	0 - 250 bar . 0 - 4,000 PSI
548 43	0 - 400 bar . 0 - 6,000 PSI

### Fixing straps

for pressure gauges, except WIKA



R+M Nr.	TYP
548 50	∅ 63 mm
548 55	∅ 50 mm



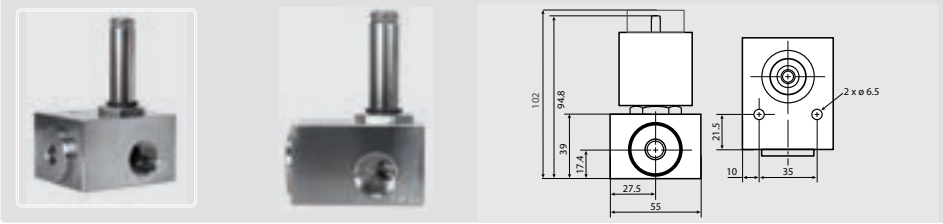
∅ 40 mm. 1/8" M. Housing plastic.  
Inlet at the back

R+M Nr.	pressure range
548 37	0 - 250 bar . 0 - 4,000 PSI

**Before setting the gauge under pressure please open the tip of the rubber plug.**

## High pressure solenoid valves closed in off-position

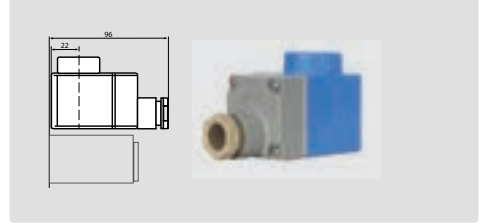
### Danfoss VDHT



Stainless steel. Viton. Pressure range 0 - 160 bar. Without coil. Max. 90 °C

R+M Nr.		
837 180 094	1/2"	60 l/min
837 180 092	3/8"	30 l/min

### Danfoss solenoid coil



24 V / DC / 16 W

R+M Nr.
837 018 791 4

### Rapa SV 04



1/4" F. NW 1.5 mm. Solenoid valve with connector. Pressure range 0 - 130 bar. Max. 90 °C

R+M Nr.			
832 01			24 V =
832 00			24 V ~ 50 Hz
832 10			230 V ~ 50 Hz

### AK



1/4" F. NW 1.2 mm. Solenoid valve without connector. Pressure range 0 - 180 bar. Max. 90 °C

R+M Nr.				
833 10	48 mm	109 mm		24 V =

### Connector



R+M Nr.
833 50

### AK



1/4" F. NW 1.2 mm. Solenoid valve with connector. Pressure range 0 - 180 bar. Max. 90 °C

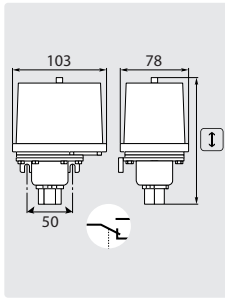
R+M Nr.				
833 15	48 mm	109 mm		24 V ~ 50 Hz
833 00	48 mm	109 mm		230 V ~ 50 Hz

Symbols thread height length voltage flow TYP type inlet outlet diameter



## Pressure switches

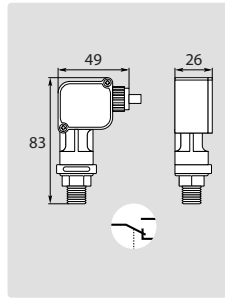
### Condor / Fanal



Contact 10 A - 380 V. Thread 3/8" F.  
Max. 250 bar / 90 °C

R+M Nr.	TYP	P	I
911 50	FF4-4	0.22 - 4 bar	110 mm
911 40	FF4-32	2 - 32 bar	110 mm
911 20	FF4-250	30 - 250 bar	140 mm

### PR 5



Contact 5 A - 250 V. Cable 950 mm. Thread 1/4" M.  
Max. 250 bar / 90 °C

R+M Nr.	★	start-up pressure
912 515	blue	15 bar
912 525	red	25 bar
912 540	black	40 bar

### Diaphragm pressure switches SW 27



Stainless steel. Contact 4 A - 24 V - 250 V. EPDM seals. Usable as dry running protection.  
Max. 300 bar / 90 °C

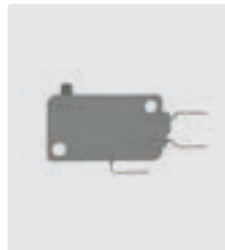
R+M Nr.	⊙	P
913 186 203	1/4" M	0.5 - 5 bar
913 186 206	1/4" M	0.5 - 10 bar

### Connector PG 9



Suitable for diaphragm pressure switch

### Spare parts



Micro switches

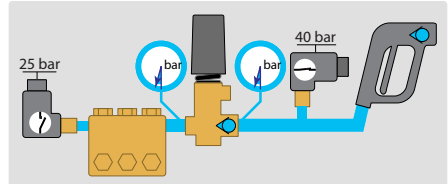
R+M Nr.
913 118 002

R+M Nr.
912 00

### Example of use

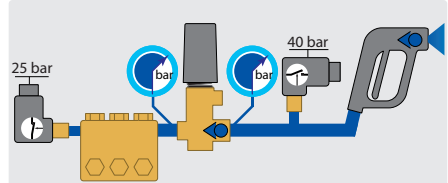
#### with two pressure switches

#### 1 - Starting phase



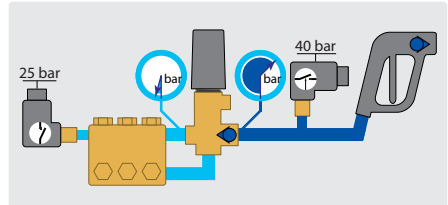
Contact of pressure switch (40 bar) is activated and by this way the cleaner can be started.

#### 2 - High pressure phase



Reaching 25 bar the pressure switch (25 bar) changes the operating condition and secures the operation of the cleaner while pressure switch (40 bar) is deactivated.

#### 3 - Stop phase



During the bypass phase water circulates in the pump without pressure. The pressure switch (25 bar) opens and the cleaner stops. At the same time there is still high pressure between the regulation valve and the gun. The high pressure cleaner starts again when operating the gun.

**When exchanging the pressure switch please check the accumulator and if necessary exchange it.**

## Pressure switches ST-7.1

- » IP 65 protection class.
- » Simultaneous N/O and N/C connection is possible.
- » The design of the micro switch allows comparably high inrush current (20 Amps N/C, 15 Amps N/O).
- » The electrical capacity of the switch is 10.1 Amps (resistive load).
- » Available switch points are 25 and 40 bar.
- » No ingress of towing water into the environment of the microswitch possible.



Contact 10.1 A - 250 VAC.  
Cable 950 mm. Max. 300 bar / 90 °C. IP65



**Contacts:** red and brown = normally closed / red and blue = normally open.  
When used with 2 pressure switches, the two blue cables serve as control lines.



R+M Nr.	P	★	⊙
200 007 800	40 bar	black	1/4" M
200 007 801	25 bar	red	1/4" M

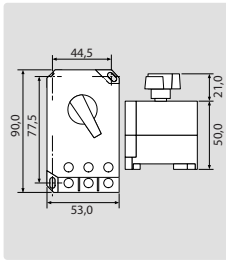
**Symbols** ⊙ thread TYP type P pressure ★ colour I height



- Coin box easywash365+ including control box..... 84
- Motor control easywash365+ ..... 84
- Motor protection switches ..... 82
- Ravel motors ..... 83
- Remote thermometers ..... 82
- Remote thermostats..... 82
- Time hour meter ..... 82

**Motor protection switches**

Type OKN

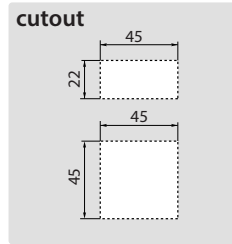


Housing for type OKN

R+M Nr.	working range
901 516	10.0 - 16.0 A
901 522	16.0 - 22.0 A
901 527	22.0 - 27.0 A

R+M Nr.	(M)
901 540	plastic

**Time hour meter**

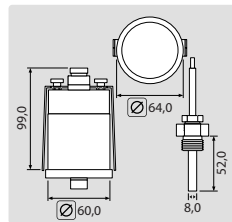
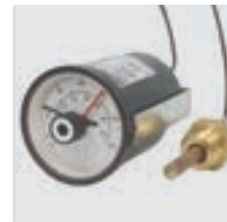


Meter with clip

R+M Nr.	(V)
915 102 4	24 V ~
915 122 0	230 V ~
915 140 0	400 V ~

**Remote thermometers**

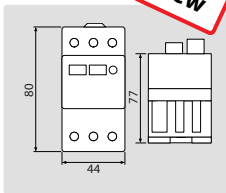
With contact probe and adjustable knob



1/2" M. Contact 5 A - 250 V (AC1). Indication of temperature 0 - 120 °C

R+M Nr.	working range	tube length
910 20	0 - 80 °C	1,000 mm

Type WIMEX



**new**



**new**

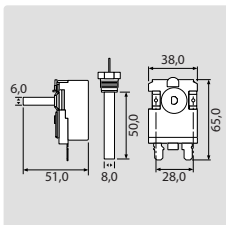
Housing for type WIMEX, IP55

R+M Nr.	working range
901 710	6.3 - 10.0 A
901 716	10.0 - 16.0 A
901 720	16.0 - 20.0 A
901 725	20.0 - 25.0 A

R+M Nr.	(M)
901 730	plastic

**Remote thermostats**

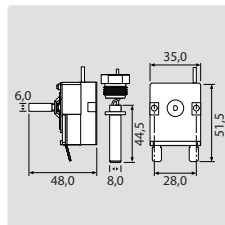
Emerson 1536



M14 x 1 M. Contact 16 A - 380 V (AC1)

R+M Nr.	working range	tube length
910 16	0 - 160 °C	1,550 mm

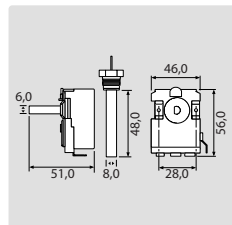
Probe with screw



3/8" M. Contact 16 A - 380 V (AC1)

R+M Nr.	working range	tube length
910 12	30 - 150 °C	1,520 mm
910 13	0 - 152 °C	920 mm

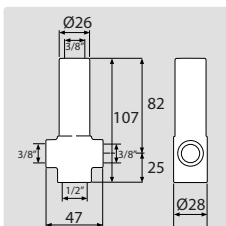
Emerson 8654



3/8" M. Contact 16 A - 380 V (AC1)

R+M Nr.	working range	tube length
910 15	30 - 150 °C	1,550 mm

Probe pocket PS1

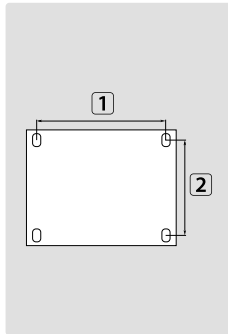


Brass. Max. 280 bar / 160 °C

R+M Nr.
178 290 260 35

## Ravel motors

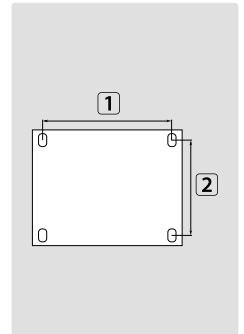
### Motor with hollow shaft



IP54. 1,400 r.p.m.

R+M Nr.	∅	hole size 1 x 2	TYP	V	A	KW
175 001 061	24	140 x 160 mm	H100	400	6,9	3
175 001 081	24	140 x 190 mm	H112	400	9,4	4
175 001 090	24	140 x 190 mm	H112	400	12,1	5,5
175 001 120	24	140 x 216 mm	H132S	400	15,4	7,5
175 001 143	24	178 x 216 mm	H132M	400	21,3	11

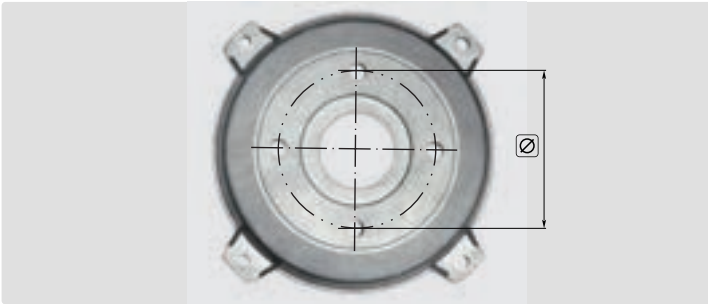
### Motor with solid shaft



IP54. 1,400 r.p.m.

R+M Nr.	∅	hole size 1 x 2	TYP	V	A	KW
175 002 004	28	140 x 160 mm	H100	400	5,1	2,2
175 002 001	28	140 x 190 mm	H112	400	9,4	4
175 002 002	28	140 x 190 mm	H112	400	12,6	5,5
175 002 091	38	140 x 216 mm	B3 132S	400	16,8	7,5
175 002 087	38	210 x 254 mm	B3 160M	400	29	15

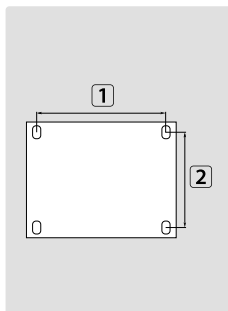
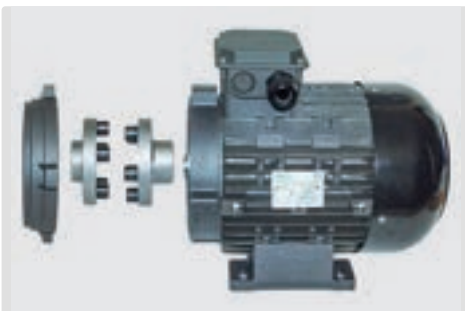
### Flange for hollow shaft motor



R+M Nr.	TYP	bolt-circle ∅
175 300 306 1	H 100	75 mm
175 300 307 4	H 112	75 mm
175 300 305 1	H 100	87 mm
175 300 305 2	H 112	87 mm

Further versions of Ravel motors are available on request!

### Motors with internal flexible joint RVJ Series



IP54. 1,400 r.p.m.

R+M Nr.	∅	hole size 1 x 2	TYP	V	A	KW
175 002 400	24	140 x 216 mm	H132S	400	15,4	7,5
175 002 401	24	178 x 216 mm	H132M	400	21,3	11
175 002 402	24	178 x 216 mm	H132M	400	17,8	9,2
175 002 570	24	140 x 216 mm	H112	400	12,1	5,5

Pump/motor assignment on page 42

Symbols **M** material **A** ampere **V** voltage **∅** diameter **KW** kilowatt **TYP** type shipment by truck

### Motor control easywash365+



Motor control for the operation of motors with 4 - 7.5 kW power at 400 VAC, 50 Hz, IP 65. RAL 7035.

H x W x D 380 x 380 x 210 mm.

Supply: 400VAC, 50Hz, 3Ph / N / PE with main switch (cam switch) 25A. Control voltage conditioning 24VDC, 2.5A with backup fuse 2A.

Motor outlet with power contactor 7.5kW and wide-range motor protection switch 8-32A.

LOGO small control unit.

1 operating hours counter (IP 65) and 2 command and signaling devices built into the door

R+M Nr.	
920 001 380	14 kg

### Coin box easywash365+ including control box

#### Coin box easywash365+ including control box



R+M coin box, mechanical, feat. money return, incl. control box, IP 66, RAL 7035 feat. 2 m supply cable with CEE-plug, 16 A, 400 VAC, 50 Hz, 3 PH/N/PE. Control voltage processing 24 VAC, 20 VA with 2 automatic circuit breakers. Motor output with power contactor 7.5 kW, wired to CEE add-on box. Feat. a time relay for pulse stretching 0.05 s - 10 h. Excl. control cable

R+M Nr.	money	coin box	control box
925 513 803	chip (profiled)	260 x 160 x 110	300 x 300 x 155
925 513 805	50 Cent	260 x 160 x 110	300 x 300 x 155
925 513 801	1 €	260 x 160 x 110	300 x 300 x 155
925 513 802	2 €	260 x 160 x 110	300 x 300 x 155

#### Control cable



5 wires, UV-resistant. Sold by metre.

R+M Nr.	
925 510 001	5 G 1.5 mm <sup>2</sup>

#### Control box easywash365+



Control box, IP 66, RAL 7035. H x W x D 300 x 300 s 155 mm. Feat. 2 m supply cable with CEE-plug 16 A, 400 VAC, 50 Hz, 3 Ph/N/PE.

Control voltage processing 24 VAC, 20 VA with 2 automatic circuit breakers.

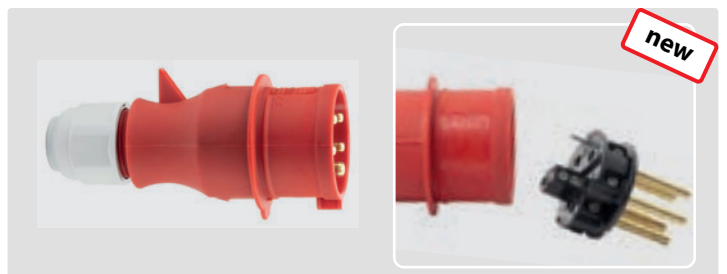
Motor output with power contactor 7.5 kW, wired to CEE add-on box.

Feat. a time relay for pulse stretching 0.05 s - 10 h.

Excl. control cable

R+M Nr.	
925 510 000	9,6 kg

#### CEE Plug



400V / 16A / 3PNE. IP 44. With screw terminals up to a maximum of 2.5 mm<sup>2</sup>

R+M Nr.
901 338 001

Symbols type weight





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**Fuel pumps Suntec**

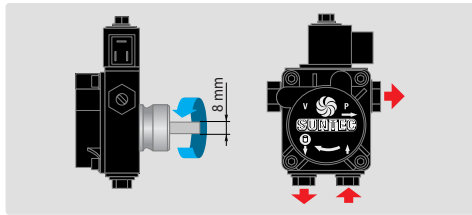
**Pumps with solenoid valve**



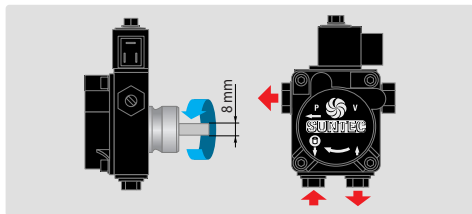
Coil VM

R+M Nr.	V
827 90	24 V
827 95	230 V

Pump VM. Single line intake or double line intake. Pressure adjustable 7 - 14 bar



R+M Nr.	TYP	coil	hub
827 00	AS47C 1538	24 V	32 mm
827 10	AS47C 1538	230 V	32 mm



R+M Nr.	TYP	coil	hub
827 15	AS47D 1539	230 V	32 mm

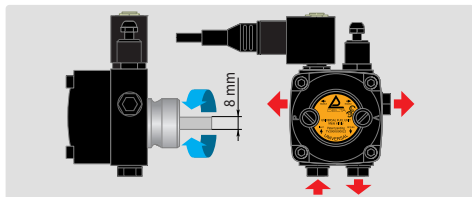
**Universal with solenoid valve. Left/right**



Coil VU / A

R+M Nr.	V
824 94	24 V
824 95	230 V

Pump VU. Single line intake or double line intake. Cable 700 mm. Pressure adjustable 6 - 18 bar



R+M Nr.	TYP	coil	hub
824 40	VU1LR2	24 V	32 mm
824 45	VU1LR2	230 V	32 mm

**Fuel pumps Delta**

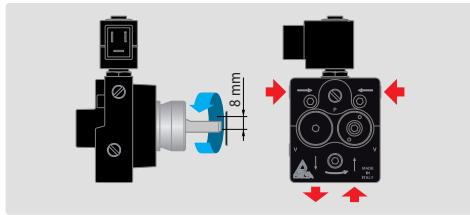
**Pumps with solenoid valve**



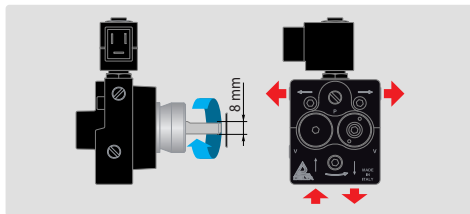
Coil VU / A

R+M Nr.	V
824 94	24 V
824 95	230 V

Pump A. Single line intake or double line intake. Pressure adjustable 6 - 20 bar



R+M Nr.	TYP	coil	hub
824 31	A1L2	24 V	32 mm
824 30	A1L2	230 V	32 mm

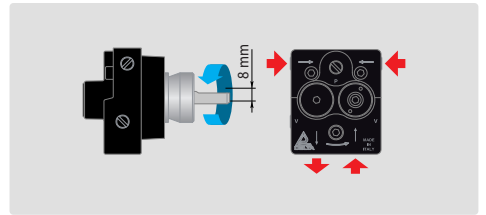


R+M Nr.	TYP	coil	hub
824 32	A1R2	24 V	32 mm
824 33	A1R2	230 V	32 mm

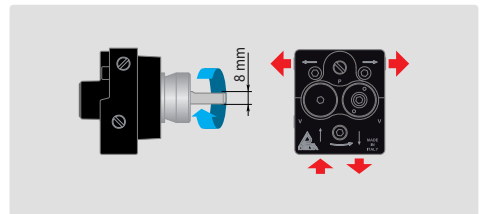
**Pumps without solenoid valve**



Pump A. Single line intake or double line intake. Pressure adjustable 6 - 20 bar



R+M Nr.	TYP	coil	hub
824 04	AD1L2	-	32 mm



R+M Nr.	TYP	coil	hub
824 05	AD1R2	-	32 mm

**Spare parts Suntec and Delta fuel pumps**



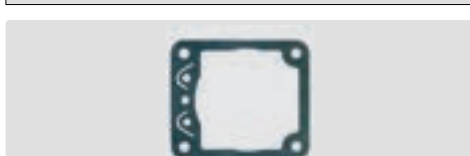
Gasket for cover (round). Year of manufacture until 2001

R+M Nr.	TYP
827 992	Suntec



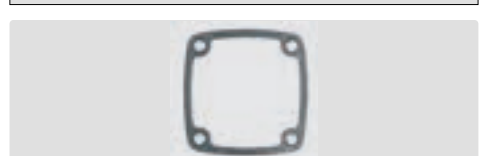
Filter element

R+M Nr.	TYP
827 50	Suntec
824 90	Delta
824 96	Delta A



Gasket for cover (square). Year of manufacture from 2001

R+M Nr.	TYP
827 993	Suntec



Gasket for cover

R+M Nr.	TYP
824 93	Delta

Symbols TYP type V voltage L length Ø diameter

## Fuel pumps Danfoss

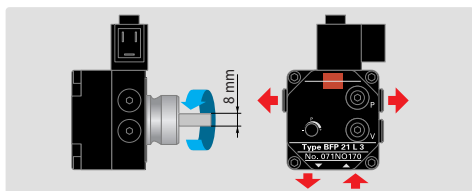
### Pumps with solenoid valve



Coil

R+M Nr.	V
826 00	24 V
826 10	230 V

Single line intake or double line intake.  
Pressure adjustable 7 - 15 bar



R+M Nr.	TYP	coil	hub
825 45 *	BFP 21 L3	24 V	32 mm
825 40 *	BFP 21 L3	230 V	32 mm

### Spare parts Danfoss fuel pumps



Cartridge filter

R+M Nr.
825 01



Cartridge filter

R+M Nr.
825 00

## Accessories fuel pumps

### Check pressure gauges



1/8" M with o-ring sealing. Undamped  $\varnothing$  40 mm.  
Housing plastic.  
Hose connection 500 mm

R+M Nr.	indication
547 105 0	0 - 16 bar

### Cables with connector



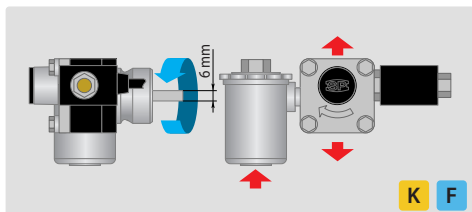
R+M Nr.	↔
832 40	1050 mm

## Fuel pumps SP

### Pumps with solenoid valve



Double line intake.  
Pressure adjustable 6 - 14 bar

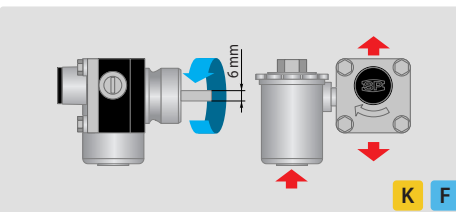


R+M Nr.	TYP	coil	hub
821 10	46L5316M	24 V	32 mm
821 20	46L5316M	230 V	32 mm

### Pumps without solenoid valve



Double line intake.  
Pressure adjustable 6 - 14 bar



R+M Nr.	TYP	coil	hub
820 20	46L2386	-	32 mm

### Filter complete



R+M Nr.
822 40

### Membrane

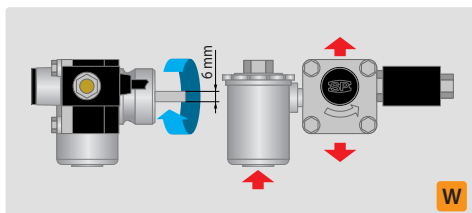


R+M Nr.
822 15

### Coil



R+M Nr.	V
821 024	24 V
821 220	230 V



R+M Nr.	TYP	coil	hub
821 30	46L5416 M	24 V	32 mm
821 40	46L5416 M	230 V	32 mm

**Attention!**

Rotating direction always stated in view of the shaft.

### Cartridge filter

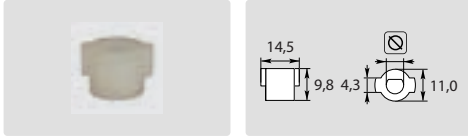


R+M Nr.
822 50

\* Since October 2017, all service pumps Diamond Series 2.0 have been manufactured and delivered with Danfoss DLC inside™ and long-life coil Diamond. All service pumps have been inspected and approved for operation with B10 (fuel oil with addition of 10 % of biodiesel).

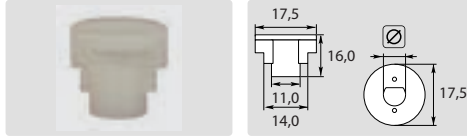
Fuel pumps drive pegs

Coupling for shaft  $\varnothing$  6 mm



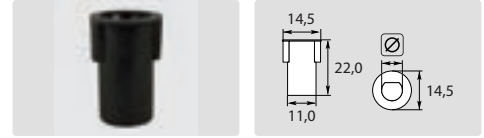
R+M Nr.	$\varnothing$
822 30	6 mm

Coupling for shaft  $\varnothing$  8 mm short



R+M Nr.	$\varnothing$
822 25	8 mm

Coupling for shaft  $\varnothing$  8 mm long



R+M Nr.	$\varnothing$
822 35	8 mm

Fuel solenoid valves

Rapa BV 01 without cable

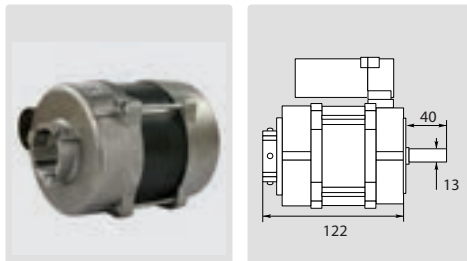


NC. Normally closed. Max. 24 bar / 60 °C

R+M Nr.	$\odot$	coil
830 10	1/8" F	24 V
830 20	1/8" F	230 V
830 40	1/4" F	230 V

Burner motors

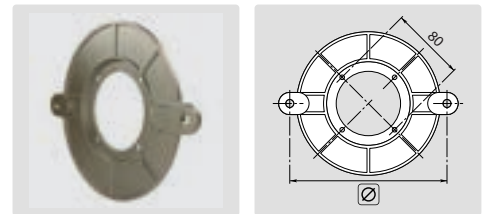
Motor with pump shaft 32 mm



Output max. 150 W - 1.3 A. Cable 500 mm. Right or left rotation

R+M Nr.	$\nabla$
811 03	230 V

Flange for burner motors



R+M Nr.	TYP	$\varnothing$
811 01	NEMA 1	172 mm
811 02	NEMA 2	184 mm

Spare coils Rapa



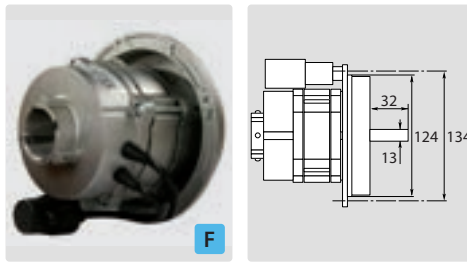
R+M Nr.	$\nabla$
830 70	230 V

Cable with connector



R+M Nr.	$\rightleftarrows$
832 40	1,050 mm

Flange with pump shaft 32 mm



Output max. 110 W - 0.88 A. Cable 500 mm. Left rotation

R+M Nr.	$\nabla$
810 00	230 V

Cable connection for motor left and right

left rotation

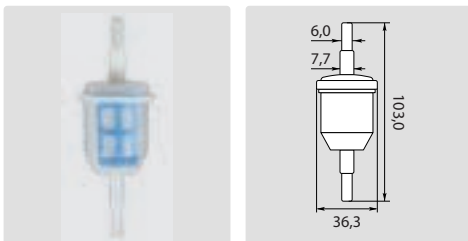
C	function
brown+blue	phase
black+white	neutral
yellow/green	ground

right rotation

C	function
brown+white	phase
black+blue	neutral
yellow/green	ground

Fuel filter

Fuel filter

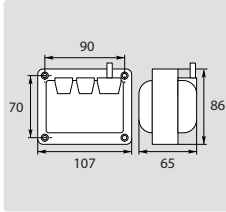


R+M Nr.
829 05

Symbols  $\varnothing$  diameter TYP type  $\nabla$  voltage  $\odot$  thread  $\rightleftarrows$  length C colour

## Ignition transformers

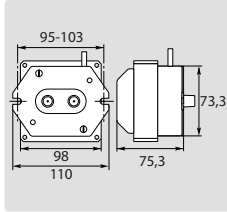
### COFI without flange. Cable on side



Connection: ignition cable with self-cutting screw. Output 2 x 4,000 V / 12 mA / 100 % ED

R+M Nr.	TYP	cable	V
805 00	812 C	350 mm	230 V

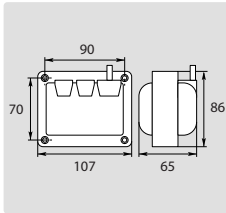
### May & Christe with flange. Cable on top



Output 2 x 5,000 V / 10 mA / 100 % ED

R+M Nr.	TYP	cable	V
800 10	Z10 100 E-45	400 mm	230 V

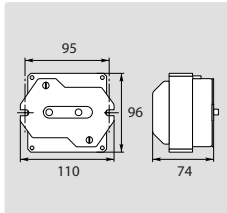
### COFI without flange. Cable on side



Connection: ignition cable with connector  
 ⌀ 4 mm. Output 2 x 4,000 V / 12 mA / 100 % ED

R+M Nr.	TYP	cable	V
805 05	812 C	350 mm	230 V

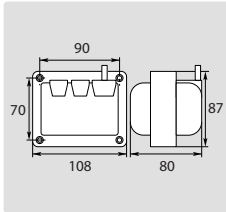
### May & Christe with flange. Cable on side



Output 2 x 5,000 V / 10 mA / 100 % ED

R+M Nr.	TYP	cable	V
800 20	Z10 100 E-1	400 mm	230 V

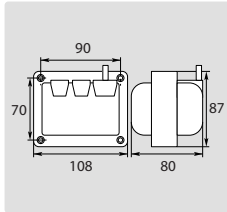
### COFI without flange. Cable on side



Connection: ignition cable with self-cutting screw. Output 2 x 5,000 V / 20 mA / 100 % ED

R+M Nr.	TYP	cable	V
805 40	1020 C	700 mm	230 V
805 50	1020 C	700 mm	400 V

### COFI without flange. Cable on side



Connection: ignition cable with connector  
 ⌀ 4 mm. Output 2 x 5,000 V / 20 mA / 100 % ED

R+M Nr.	TYP	cable	V
805 45	1020 C	700 mm	230 V
805 55	1020 C	700 mm	400 V

## Connector



Double connector with cable

R+M Nr.	cable
852 14	700 mm



Universal

R+M Nr.
852 70



Angle blue. For Nr. 855 20, 855 40, 855 50

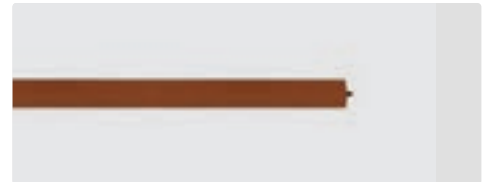
R+M Nr.
852 30

## Ignition cables



Cable with connector. 6.3 mm

R+M Nr.	C
855 20	red 180 mm

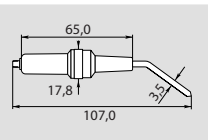


Per metre

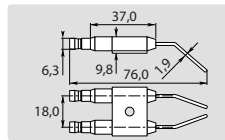
R+M Nr.	C
855 40	red



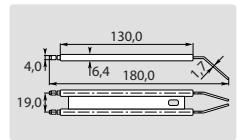
## Ignition electrodes



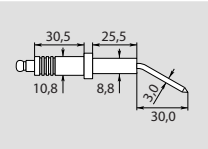
<b>R+M Nr.</b>	<b>suitable for</b>
852 10	Kärcher



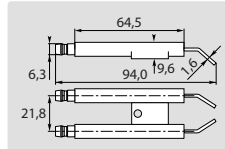
<b>R+M Nr.</b>	<b>suitable for</b>
852 12	Kärcher



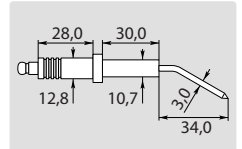
<b>R+M Nr.</b>	<b>suitable for</b>
124 408 0	Kränzle



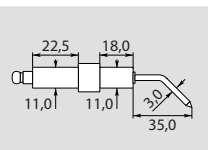
<b>R+M Nr.</b>	<b>suitable for</b>
851 30	SIAL



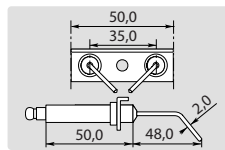
<b>R+M Nr.</b>	<b>suitable for</b>
850 60	Alto



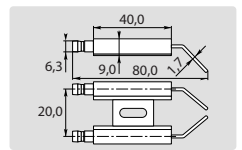
<b>R+M Nr.</b>	<b>suitable for</b>
851 35	SIRIO



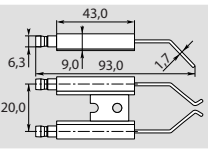
<b>R+M Nr.</b>	<b>suitable for</b>
851 10	LAVORWASH



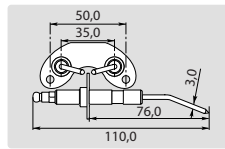
<b>R+M Nr.</b>	<b>suitable for</b>
851 55	Lavor



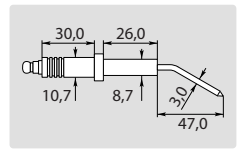
<b>R+M Nr.</b>	<b>suitable for</b>
851 60	Idromatic



<b>R+M Nr.</b>	<b>suitable for</b>
851 65	Idromatic

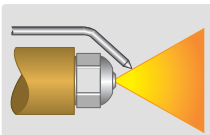


<b>R+M Nr.</b>	<b>suitable for</b>
851 00	PORTO

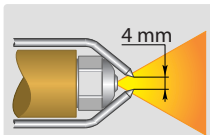


<b>R+M Nr.</b>	<b>suitable for</b>
852 15	MAER

## Adjustment of electrodes



from side



from top

- 1 Electrodes have to be positioned close to the atomized spray of fuel without getting in touch with it (ends have to stay dry).
- 2 There has to be sufficient space between the electrodes and the fuel nozzle as well as the flame control to avoid a flash over of the ignition spark.

R+M high quality spare parts are obtained from well-established manufacturers. As a rule they are no original spare parts. The original order numbers and the indication of other information are exclusively for your guidance and furthermore they are not intended for the general use, e.g. invoices addressed to end users. In case of mentioning the original order numbers in your orders it can not be assumed that the products ordered are original spare parts. Original spare parts are supplied when they are especially offered as those in our catalogue or in other mailing pieces such as special offers or newsletters.

## Fuel nozzles



### Hollow (1 gal = 3.785 litres)

### Half hollow (1 gal = 3.785 litres)

US gph	Steinen (H)		Danfoss (H)		Delavan (A)		US gph	Danfoss (B)		Delavan (W)	
	60°	80°	60°	80°	45°			60°	80°	45°	
	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.		R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
0.50 G						677 41		675 32	677 82		
0.75 G			675 11		679 19 *						
0.85 G	665 31		675 21	677 71			1.00 G			679 212 1	
1.00 G	665 41		675 31	677 81	679 201		1.25 G	675 52		679 213 1	
1.10 G			675 36	677 851			1.50 G		678 12	679 204 1*	
1.25 G	665 51	668 01	675 41	677 91	679 202		1.75 G				
1.35 G	665 61	668 11	675 51				2.00 G	675 82			
1.50 G	665 71		675 61	678 11			2.25 G			679 217 1*	
1.75 G	665 91		675 71	678 21							
2.00 G	666 01		675 81								
2.25 G	666 11	668 61	675 91								
2.50 G	666 21	668 71	676 01	678 41							

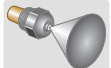
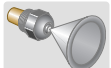
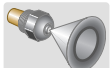
### Solid (1 gal = 3.785 litres)

US gph	Steinen (S/ST)			Danfoss (S)		Delavan (B)	
	45°	60°	80°	60°	80°	45°	60°
	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
0.50 G	660 42	665 10	667 60	674 90	677 40		679 10 *
0.60 G		665 11					
0.65 G	660 45	665 15	667 65	675 00	677 50		
0.75 G	660 46	665 20	667 70	675 10	677 60		
0.85 G	660 47	665 30	667 80	675 20	677 70		679 30 *
1.00 G	660 49	665 40	667 90	675 30	677 80		
1.10 G				675 35	677 85		
1.25 G	660 50	665 50	668 00	675 40	677 90	679 211 *	679 43
1.35 G		665 60	668 10	675 50	678 00		679 44
1.50 G	660 60	665 70	668 20	675 60	678 10	679 213	679 45
1.65 G	660 62	665 80	668 30			679 214	679 47
1.75 G	660 63	665 90	668 40	675 70	678 20		679 46
2.00 G	660 80	666 00	668 50	675 80	678 30		
2.25 G	660 85	666 10	668 60	675 90	678 40		679 49 *
2.50 G		666 20	668 70	676 00	678 50		
2.75 G		666 40	668 90	676 05	678 60		
3.00 G			669 00	676 15			
3.50 G		666 50					
4.00 G		666 60					

**Packing units**  
 Steinen 12 pieces  
 Danfoss 10 pieces  
 Delavan 12 pieces

Further nozzles in different packing units are available on request.

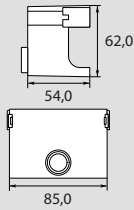
## Fuel nozzles manufacturer comparison chart

	Steinen	Danfoss	Monarch	Delavan	Hago	Fluidics
 Solid	S/ST	S/SR	AR/R	B	ES/B/P	S/SF
 Hollow	H	H/HR	NS/PL	A	H	H/HF
 Half hollow	Q	B	PLS/PLP	W	SS	-

\* limited stock

**Burner flame controls**

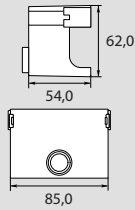
**Landis & Gyr relay**



Voltage 220 - 240 V / 50 Hz. Scale 187 - 264 V.  
Temperature -20 - +60 °C

R+M Nr.	safety time	TYP
842 25	10 s	LOA 24

**Danfoss relay**



Voltage 220 - 240 V / 50 Hz. Scale 195 - 252 V.  
Temperature -20 - +60 °C

R+M Nr.	safety time	TYP
840 14	10 s	OBC 82.10

**Important**

In case of using the series BHO 70 together with BHA 11/12 the new LDS has to be connected with the terminals 11 (blue) and 12 (black) of the BHA 11/12.

In case of replacing the series BHO 70 by BHO 64 which is already used with BHA 11/12 it is essential to choose the version of BHA 11/12 (1 October 2006) at which terminal 11 is added.

An alternative is to exchange the old Danfoss base part.

**Socle Danfoss / Landis & Gyr**



Socle with 12 connections

R+M Nr.
840 18



Front plate for socle

R+M Nr.
840 17

**Photocell Danfoss**



LDS 037H7057 with cable

R+M Nr.
840 19



Flange photocell

R+M Nr.
840 21

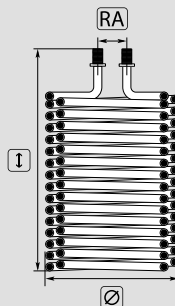


Tension ring

R+M Nr.
840 22

**Coils**

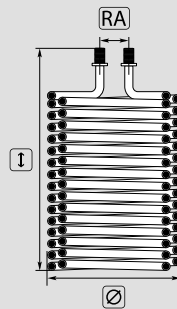
**Suitable for Sirio**



R+M Nr.	Suitable for hp cleaner	I	Ø	RA	RØ
200 080 645	SKIPPER	550	280	215	17
200 080 640	MATCH BALL	460	280	215	17

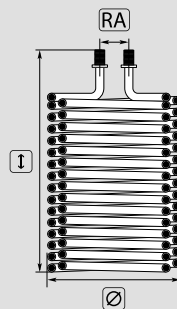
## Coils

### Coils suitable for Kärcher



Manufacturer Nr.	R+M Nr.
4.680-063.0	200 080 512
4.680-077.0	200 080 502
4.680-097.0	200 080 522
4.680-114.0	200 080 114
4.680-123.0	200 080 123
4.680-126.0	200 080 126
4.680-127.0	200 080 502
4.680-135.0	200 080 542
4.680-145.0	200 080 145

R+M Nr.	Suitable for hp cleaner	I	Ø	RA	RØ	M
200 080 502	SB-HDWS1; SB-HDWS2; 500CI; 501C; 550C; 555CI; 555; 555C; 555CS; 557CI; 590C; 600C; 600CI; 600CS; 697CI; 698CSX; 790C; 790CS; 790Ci; 797CI; 798C; 798Ci; 801B; 840C; 890C; Farmer; SB-HDW; SB-HDWS1; SB-HDWS2; Weidner-Waschbär	400	277	57	17,2	steel
200 080 126	5/12C; 6/14C/CX; 501C; 550C; 551C; 558C/CSX; 698C; 798C/CSX; 990; 1000DE/BE; 1200DE; 2600; SB-HDW S/S2	435	277	57	17,2	steel
200 080 500	610; 580; 690; 750; 760; 800B; 800BE; 890; 990; 1000BE; 1000DE; 1200DE; SB-HDW-S; Farmer Super	<b>new</b> 455	277	57	17,2	stainless steel
200 080 512	610; 580; 690; 750; 760; 800B; 800BE; 890; 990; 1000BE; 1000DE; 1200DE; SB-HDW-S; Farmer Super	455	277	57	17,2	steel
200 080 522	650; 655; 695; 699; 745; 755; 795; 891ST; 895; 945; 995; 1291ST; HDS Super; 895S	510	277	57	17,2	steel
200 080 123	650-4M; 655; 695; 698; 699; 745; 755; 795; 798; 8/18-4; 845-4; 850-4; 895; 9/18-4M; 995; Super; SB-HDS695	480	277	57	17,2	steel
200 080 114	650-4M; 655; 695; 698; 699; 745; 755; 795; 798; 8/18-4; 845-4; 850-4; 895; 9/18-4M; 995; Super; SB-HDS695	480	277	57	17,2	stainless steel
200 080 542	7/11; 7/12-4M/MX; 7/16C/CX; 7/16-4C/CX; 8/17C/CX; 8/17-4M/MX; 8/18-4C/CX/M/MX; 9/14ST; 9/15; 9/17-4C/CX/M; 9/18-4M/MX; 11/18-4S; 12/14-4ST/ECO; 650 4M; 655M; 695M/ECO/S/SX; 850-4MX; 891ST; 895/M/MX/S/SX; 918; 995/M/MX/SX; 1195S/SX; 1291ST; Super/M/MX/SX	540	277	57	17,2	steel
200 080 145	10/20-4M/X	580	277	57	17,2	steel



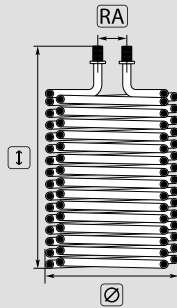
Manufacturer Nr.	R+M Nr.
4.680-070.0	200 080 532
4.680-098.0	200 080 532
4.680-144.0	200 080 144
4.680-146.0	200 080 146
4.680-084.0	200 080 552

R+M Nr.	Suitable for hp cleaner	I	Ø	RA	RØ	M
200 080 532	1210; 1250; 1290; 1390; 1000; 1195; 1295; 1291ST; 1150-4S	530	320	170	21.3	steel
200 080 144	12/18-4S/SX	560	320	170	17.2	steel
200 080 146	13/20-4S/SX	595	320	170	17.2	steel
200 080 552	1590	620	320	170	21.3	steel

Symbols **TYP** type **RA** pipe distance **I** height **Ø** diameter **RØ** pipe diameter **M** material shipment by truck

## Coils

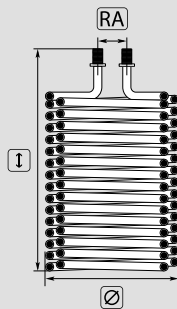
## Suitable for WAP



Manufacturer Nr.	R+M Nr.
41171	200 080 600

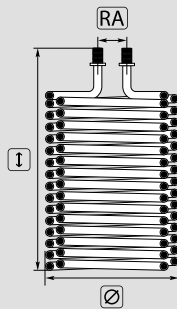
R+M Nr.	Suitable for hp cleaner	I	Ø	RA	RØ
200 080 600	C / CS / DX bis 06/98	500	280	240	17.2

## Suitable for Mazzoni




R+M Nr.	Suitable for hp cleaner	I	Ø	RA	RØ
200 080 650 	W5050	540	285	80	17

## Suitable for Portotecnica



Manufacturer Nr.	R+M Nr.
LAFN06313	200 080 635

R+M Nr.	Suitable for hp cleaner	I	Ø	RA	RØ
200 080 635 	Faip HD 200 / Fire Box / Futura / Golden Jet / Mistral Jet Profi 2360T / Mistral Jet Profi 2960T / Mistral Jet Profi DS23660T / Mistral Jet Profi DS2575T / Mistral Jet Profi DS2960T	480	300	250	17

Further coils suitable for Portotecnica are available on request!

Symbols RA pipe distance I height Ø diameter RØ pipe diameter  shipment by truck





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## Reduction sockets

Female thread : female thread



Brass



Stainless steel



Nickel-plated brass

IG : IG
1/8" : 1/4"
1/4" : 3/8"
1/4" : 1/2"
3/8" : 1/2"

R+M Nr.	P	ⓘ
518 20	400 bar	26 mm
518 60	400 bar	28 mm

R+M Nr.	P	ⓘ
040 001 023	400 bar	26 mm

R+M Nr.	P	ⓘ
518 524	50 bar	24 mm
518 534	50 bar	26 mm

## Sockets

Female thread : female thread



Hexagon. Brass



Hexagon. Stainless steel

IG : IG
1/8" : 1/8"
1/4" : 1/4"
3/8" : 3/8"
1/2" : 1/2"
3/4" : 3/4"

R+M Nr.	P	ⓘ
518 10	400 bar	22 mm
518 30	400 bar	26 mm
518 40	300 bar	26 mm
518 50	250 bar	30 mm
518 55	150 bar	36 mm

R+M Nr.	P	ⓘ
518 19	500 bar	22 mm
518 39	500 bar	25 mm
518 49	400 bar	26 mm
518 59	400 bar	34 mm
518 559	250 bar	36 mm



Hexagon. Zinc-plated steel



Round. Stainless steel

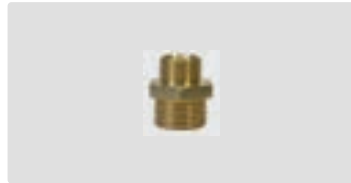
IG : IG
1/4" : 1/4"

R+M Nr.	P	ⓘ
518 32	400 bar	25 mm

R+M Nr.	P	ⓘ
519 009	500 bar	25 mm

## Reduction double nipples

Male thread : male thread



Brass



Stainless steel



Zinc-plated steel

AG : AG
1/8" : 1/4"
1/8" : 3/8"
1/4" : 3/8"
1/4" : 1/2"
3/8" : 1/2"
3/8" : 3/4"
1/2" : 3/4"
3/4" : 1"

R+M Nr.	P	ⓘ
570 20	400 bar	22 mm
570 30	400 bar	23 mm
570 50	400 bar	24 mm
570 60	400 bar	27 mm
570 80	400 bar	27 mm
571 00	250 bar	34 mm
571 20	150 bar	38 mm

R+M Nr.	P	ⓘ
570 29	500 bar	29 mm
570 39	500 bar	30 mm
570 59	500 bar	33 mm
570 69	500 bar	37 mm
570 89	500 bar	40 mm
571 09	400 bar	43 mm
571 29	250 bar	45 mm

R+M Nr.	P	ⓘ
570 28	500 bar	28 mm
570 38	500 bar	30 mm
570 58	500 bar	32 mm
570 68	500 bar	35 mm
570 88	500 bar	37 mm
570 858	400 bar	39 mm
571 08	400 bar	40 mm
571 28	250 bar	46 mm

Symbols IG female thread AG male thread ⓘ height P pressure

## Double nipples

Male thread : male thread



Brass

AG : AG
1/8" : 1/8"
1/4" : 1/4"
1/4" : 1/4"
3/8" : 3/8"
3/8" : 3/8"
1/2" : 1/2"
3/4" : 3/4"
1" : 1"

R+M Nr.	P	∅
570 10	400 bar	20 mm
570 40	400 bar	23 mm
570 45	400 bar	30 mm
570 70	400 bar	25 mm
570 71	400 bar	30 mm
570 90	400 bar	30 mm
571 10	250 bar	33 mm
571 30	150 bar	32 mm



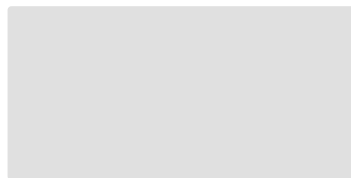
Stainless steel

R+M Nr.	P	∅
570 19	500 bar	25 mm
570 49	500 bar	29 mm
570 79	500 bar	35 mm
570 99	500 bar	42 mm
571 19	400 bar	44 mm
571 39	250 bar	43 mm



Zinc-plated steel

R+M Nr.	P	∅
570 18	500 bar	25 mm
570 48	500 bar	29 mm
570 78	500 bar	34 mm
570 98	500 bar	38 mm
571 18	400 bar	42 mm
571 38	250 bar	48 mm



Stainless steel

BSP-m : NPT-m
3/8" : 3/8"
1/2" : 1/2"

R+M Nr.	P	∅

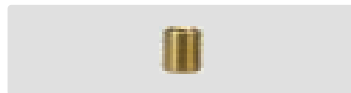


Zinc-plated steel

R+M Nr.	P	∅
570 892	315 bar	38 mm
570 999 2	200 bar	46 mm
570 782	280 bar	35 mm
570 982	200 bar	43 mm

## Reduction nipples

Female thread : male thread



Round. Brass

IG : AG
1/8" : 1/4"
1/8" : 3/8"
1/8" : 1/2"
1/4" : 3/8"
1/4" : 1/2"
3/8" : 1/2"
3/8" : 3/4"
1/2" : 3/4"
3/4" : 1"

R+M Nr.	P	∅
575 11	400 bar	13 mm



Hexagon. Brass

R+M Nr.	P	∅
575 10	400 bar	13 mm
575 20	400 bar	14 mm
575 45	400 bar	20 mm
575 30	400 bar	14 mm
575 40	400 bar	20 mm
575 50	400 bar	20 mm
575 60	250 bar	20 mm
575 70	250 bar	20 mm
575 80	150 bar	23 mm



Hexagon. Stainless steel

R+M Nr.	P	∅
575 19	500 bar	18 mm
575 29	500 bar	18 mm
575 459	500 bar	18 mm
575 39	500 bar	20 mm
575 49	500 bar	25 mm
575 59	500 bar	23 mm
575 69	250 bar	24 mm
575 79	250 bar	27 mm
575 89	150 bar	27 mm



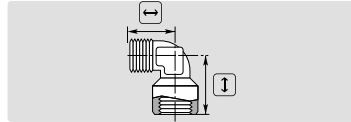
Hexagon. Zinc-plated steel

IG : AG
1/8" : 1/4"
1/8" : 3/8"
1/4" : 3/8"
1/4" : 1/2"
1/4" : 3/4"
3/8" : 1/2"
3/8" : 3/4"
1/2" : 3/4"
1/2" : 1"

R+M Nr.	P	∅
575 18	500 bar	18 mm
575 28	500 bar	20 mm
575 38	500 bar	20 mm
575 48	500 bar	25 mm
575 468	500 bar	27 mm
575 58	500 bar	24 mm
575 68	250 bar	27 mm
575 78	250 bar	27 mm
575 758	150 bar	30 mm

## Elbow

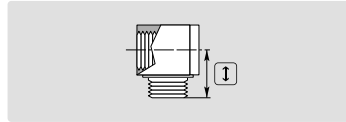
### Female thread : male thread



Brass

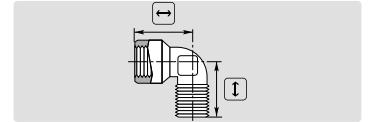
IG : AG
1/8" : 1/8"
1/4" : 1/4"
3/8" : 3/8"
1/2" : 1/2"

R+M Nr.	P	↔	↓
010 005 410	350 bar	29	29
010 005 400	350 bar	29	29



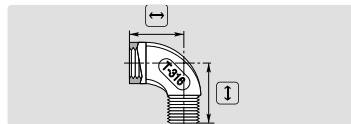
Brass (short version)

R+M Nr.	P	↓
572 00	250 bar	18 mm
572 10	250 bar	19 mm
572 20	250 bar	21 mm



Brass

R+M Nr.	P	↔	↓
572 30	150 bar	26	24
572 35	150 bar	26	24
572 36	150 bar	34	31

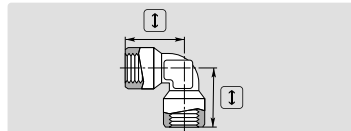


Stainless steel

IG : AG
1/4" : 1/4"
3/8" : 3/8"

R+M Nr.	P	↔	↓
579 15	150 bar	22	28
579 29	150 bar	23	31

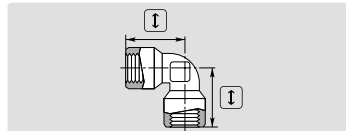
### Female thread : female thread



Brass

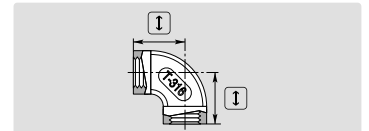
IG : IG
1/4" : 1/4"
3/8" : 3/8"
1/2" : 1/2"

R+M Nr.	P	↓
010 005 420	350 bar	29 mm
010 005 430	350 bar	29 mm



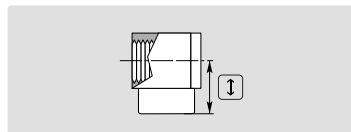
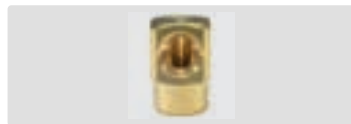
Nickel-plated brass

R+M Nr.	P	↓
572 40	150 bar	26 mm
572 50	150 bar	28 mm
572 51	150 bar	34 mm



Stainless steel

R+M Nr.	P	↓
579 10	150 bar	19 mm
575 25	150 bar	25 mm



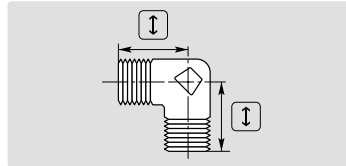
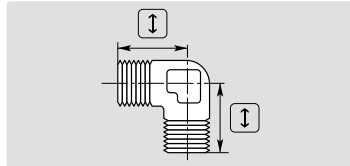
Brass (short version)

IG : IG
1/4" : 1/4"

R+M Nr.	P	↓
710 101 075	250 bar	19,5 mm

## Elbow

Male thread : male thread



Brass

Nickel-plated brass

IG : AG
1/4" : 1/4"
3/8" : 3/8"
1/2" : 1/2"

R+M Nr.	P	l
010 005 440	350 bar	29 mm
010 005 450	350 bar	29 mm

R+M Nr.	P	l
572 60	150 bar	24 mm
572 70	150 bar	27 mm
572 80	150 bar	32 mm

## Reduction extension nipples

Female thread : male thread



Brass

Stainless steel

IG : AG
1/4" : 1/8"
1/4" : 3/8"
3/8" : 1/4"
3/8" : 1/2"
1/2" : 3/8"
3/4" : 1/2"
1" : 1/2"
1" : 3/4"
1-1/4" : 3/4"

R+M Nr.	P	l
576 10	150 bar	25 mm
576 40	250 bar	29 mm
576 30	250 bar	26 mm
576 65	250 bar	34 mm
576 60	250 bar	32 mm
576 70	250 bar	34 mm
576 90	150 bar	26 mm

R+M Nr.	P	l
576 19	400 bar	25 mm
576 49	400 bar	27 mm
576 39	400 bar	26 mm
576 659	400 bar	34 mm
576 69	400 bar	32 mm
576 79	400 bar	34 mm
576 88	400 bar	49 mm
576 900 9	250 bar	51 mm
576 910 9	250 bar	55 mm

## Extension nipples

Female thread : male thread



Brass

Stainless steel

IG : AG
1/4" : 1/4"
3/8" : 3/8"
3/8" : 3/8"
1/2" : 1/2"

R+M Nr.	P	l
576 20	400 bar	28 mm
576 50	250 bar	29 mm
576 55	250 bar	40 mm
576 80	250 bar	34 mm

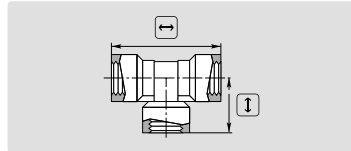
R+M Nr.	P	l
576 29	250 bar	26 mm
576 59	250 bar	29 mm
576 89	250 bar	34 mm

Symbols IG female thread AG male thread l length l height P pressure



## T-connections

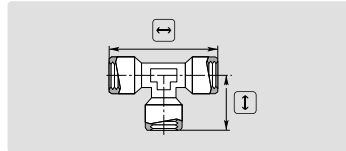
## Female thread



Brass

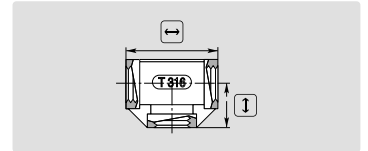
IG : IG
1/4" : 1/4"
3/8" : 3/8"
1/2" : 1/2"

R+M Nr.	P	↔	↓
010 005 480	350 bar	58	29



Brass

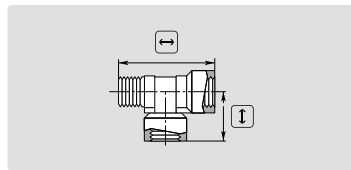
R+M Nr.	P	↔	↓
573 30	150 bar	51	25
573 32	150 bar	56	28
573 33	150 bar	70	35



Stainless steel

R+M Nr.	P	↔	↓
579 50	150 bar	39	20
579 60	150 bar	48	24
579 70	150 bar	52	26

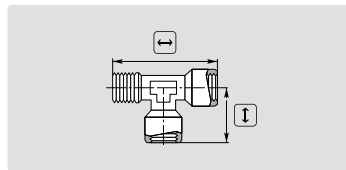
## Female thread : male thread



Brass

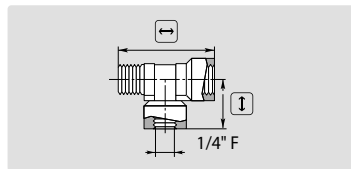
IG : AG
1/4" : 1/4"
3/8" : 3/8"
1/2" : 1/2"

R+M Nr.	P	↔	↓
010 005 470	350 bar	58	29



Nickel-plated brass

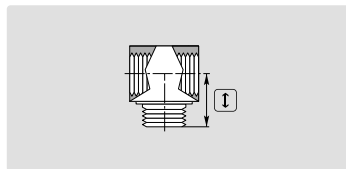
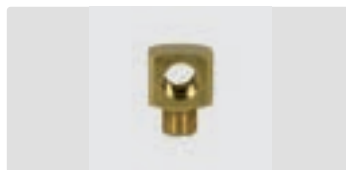
R+M Nr.	P	↔	↓
573 50	150 bar	49	26
573 60	150 bar	54	28
573 70	150 bar	67	32



Brass

IG : AG
1/8" : 1/8"
1/4" : 1/4"
3/8" : 3/8"
3/8" F : M : 1/4" F

R+M Nr.	P	↔	↓
010 005 460	350 bar	58	29



Brass (T-block)

R+M Nr.	P	↔	↓
573 00	250 bar	16	16
573 10	250 bar	22	20
573 20	250 bar	27	22

## Plugs

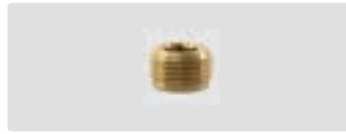
## Locknut

### Male thread



Brass. With hexagon

R+M Nr.	P	⊥
578 01	250 bar	11 mm
578 15	250 bar	13 mm
578 25	250 bar	15 mm
578 30	250 bar	18 mm
578 40	150 bar	24 mm



Brass. With hexagon

R+M Nr.	P	⊥
578 00	250 bar	8 mm
578 10	250 bar	10 mm
010 000 365	250 bar	10 mm

Nickel-plated brass

R+M Nr.	⊥
574 638	5.5 mm

AG
1/8"
1/4"
3/8"
1/2"
3/4"



Stainless steel. With hexagon

R+M Nr.	P	⊥
578 09	250 bar	11 mm
578 309	250 bar	18 mm



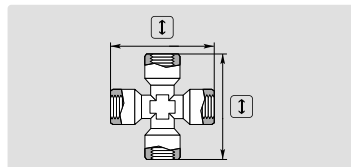
Stainless steel. With hexagon

R+M Nr.	P	⊥
578 109	250 bar	10 mm

AG
1/8"
1/4"
1/2"

## Distribution fittings

### Cross

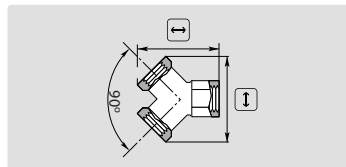


F. Nickel-plated brass

R+M Nr.	P	⊥
574 514	150 bar	51 mm

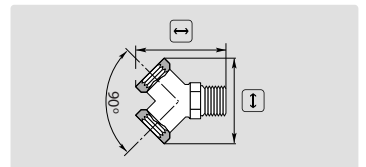
⊙
1/4"
3/8"
1/2"

### 3-way



F. Nickel-plated brass

R+M Nr.	P	↔	⊥
574 00	150 bar	32	36
574 10	150 bar	37	40
574 15	150 bar	45	53



F : M. Nickel-plated brass

R+M Nr.	P	↔	⊥
574 35	150 bar	42	40

## Swivel connectors

### Female thread : male thread



Zinc-plated steel

R+M Nr.	P	⊥
582 03	350 bar	34 mm
582 04	350 bar	42 mm
582 02	200 bar	44 mm
582 01	350 bar	44 mm



Stainless steel

R+M Nr.	P	⊥
582 039	350 bar	34 mm
582 049	350 bar	42 mm
582 029	200 bar	44 mm
582 019	350 bar	44 mm

IG : AG
1/4" : 1/4"
3/8" : 3/8"
1/2" : 1/2"
1/2" : 3/8"

Symbols IG female thread AG male thread ↔ length ⊥ height P pressure

### Compression fittings (bicone ring system)

#### Straight screw connectors



X-GE. Zinc-plated steel

R+M Nr.	TYP	AG	AG	I
580 90	6 LL	M10	1/8"	20
580 95	6 L	M12	1/8"	23
580 98	6 L	M12	1/4"	28
580 99	8 L	M14	1/8"	24
581 00	8 L	M14	1/4"	29
581 05	8 L	M14	3/8"	31
581 10	10 L	M16	1/4"	30
581 20	10 L	M16	3/8"	28
581 25	10 L	M16	1/2"	34
581 50	12 L	M18	1/4"	31
581 60	12 L	M18	3/8"	28
581 55	12 L	M18	1/2"	31
581 141 21	14 S	M22	1/2"	41



X-GE. Stainless steel

R+M Nr.	TYP	AG	AG	I
581 19	10 L	M16	1/4"	30
581 29	10 L	M16	3/8"	28
581 59	12 L	M18	1/4"	31
581 69	12 L	M18	3/8"	28
596 143 81	14 S	M22	3/8"	39
596 141 21	14 S	M22	1/2"	41

#### Straight screw connectors



X-GAI. Zinc-plated steel

R+M Nr.	TYP	IG	AG	I
580 00	6 L	1/4"	M12	25
580 10	8 L	1/4"	M14	31
580 20	10 L	1/4"	M16	32
580 50	10 L	3/8"	M16	28
580 30	12 L	1/4"	M18	33
580 40	12 L	3/8"	M18	33



X-GAI. Stainless steel

R+M Nr.	TYP	IG	AG	I
580 29	10 L	1/4"	M16	32
580 39	12 L	1/4"	M18	33

#### Nominal pressure according to DIN 2401

LL = light series

L = solid series

S = heavy duty series

Other connections are available on request.

TYP	Stainless steel	Zinc-plated steel
LL ( 4 - 8)	100 bar	100 bar
L ( 6 - 10)	315 bar	500 bar
L (12 - 18)	315 bar	400 bar
L (22 - 42)	160 bar	250 bar
S ( 6 - 10)	630 bar	800 bar
S (12 - 16)	490 bar	630 bar
S (20 - 38)	315 bar	420 bar

#### Double nipples / connectors



X-G. Zinc-plated steel

R+M Nr.	TYP	AG	I
581 30	10 L	M16	27
581 70	12 L	M18	28



X-G. Stainless steel

R+M Nr.	TYP	AG	I
581 79	12 L	M18	28

#### Elbows

WE-R. Zinc-plated steel.  
With nut & bicone ring

R+M Nr.	TYP	AG	Ø	I
583 00	6 L	1/8"	6	28
583 20	12 L	3/8"	12	35
583 121 4	12 L	1/4"	12	35

#### Pipe pieces

EG. Zinc-plated steel.  
Nut & bicone ring premounted

R+M Nr.	TYP	AG	Ø	I
581 12	8 L	M14	1/4"	8 42
581 11	10 L	M16	1/4"	10 40
581 138 2	10 L	M16	3/8"	10 44
581 61	12 L	M18	3/8"	12 47
581 619*	12 L	M18	3/8"	12 47
581 13	12 L	M18	1/4"	12 47

X-EG. Zinc-plated steel.  
Without nut & bicone ring

R+M Nr.	AG	Ø	I
582 25	M18	3/8"	12 47

#### Bicone rings



Zinc-plated steel

R+M Nr.	TYP	Ø
584 102	L / S	10
584 122	L / S	12

#### Nut



Zinc-plated steel

R+M Nr.	TYP	Ø
584 101	10 L	M16
584 121	12 L	M18

\* Stainless steel

## Removable screw connections

Male thread : male thread



Stainless steel

AG : AG	R+M Nr.	P
1/2" : 1/2"	574 812 009	max. 150 bar 67
3/4" : 3/4"	574 834 009	max. 150 bar 73

## Quick screw couplings ST-740 and nipples ST-741

Quick screw couplings ST-740 and nipples ST-741



M24 F : M.  
Max. 700 bar / 150 °C



M24 F : M.  
Max. 700 bar / 150 °C



M : M24 M.  
Max. 700 bar / 150 °C



M24 M : M24 M.  
Max. 700 bar / 150 °C

⊙	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
3/8"	200 740 501	200 740 601	200 741 501	
1/2"	200 740 503		200 741 503	
M24				200 741 600



M24 F : F.  
Max. 700 bar / 150 °C



M24 F : F.  
Max. 700 bar / 150 °C



F : M24 M.  
Max. 700 bar / 150 °C

⊙	R+M Nr.	R+M Nr.	R+M Nr.
1/4"	200 740 504	200 740 604	200 741 504
3/8"	200 740 502	200 740 602	200 741 502
M16x1	200 740 506		

### Seals



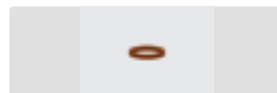
O-ring - ST-740

R+M Nr.
050 000 408



O-ring - ST-741

R+M Nr.
050 001 000



Back ring - ST-740

R+M Nr.
050 000 407

Symbols IG female thread AG male thread ⇄ length I height ⊙ thread ∅ diameter TYP type P pressure

## Suttner quick screw swivel couplings ST-44

## Quick screw coupling : male thread



M22 F : M. Max. 400 bar / 150 °C

⊙	
1/4"	
3/8"	
1/2"	
M18	
M22	

R+M Nr.	ⓘ
568 00	49 mm
568 25	70 mm
568 26	73 mm
568 30	76 mm
568 10	76 mm



M21 F : M. Max. 400 bar / 150 °C

R+M Nr.	ⓘ
568 50	49 mm
568 70	46 mm



M22 F : M. Max. 200 bar

R+M Nr.	ⓘ
200 044 510	49 mm

M22 F : M22 M. Stainless steel.  
Max. 400 bar / 150 °C

⊙	
M22	

R+M Nr.	ⓘ
568 19	56 mm

## Quick screw coupling : female thread



M22 F : F. Max. 400 bar / 150 °C

⊙	
1/4"	
3/8"	

R+M Nr.	ⓘ
568 15	67 mm



M22 F : F. Max. 400 bar / 150 °C

R+M Nr.	ⓘ
568 20	68 mm



M21 F : F. Max. 400 bar / 150 °C

R+M Nr.	ⓘ
568 80	67 mm

## Seals ST-44



O-ring

R+M Nr.	VPE
050 000 651	1
568 009 100	100



U-ring

R+M Nr.	
050 000 379	



O-ring (back)

R+M Nr.	TYP
568 011	small
568 010	big



Back ring

R+M Nr.	VPE
050 001 511	1
568 008 100	100



Seal kit

R+M Nr.	
568 001 1	

Symbols ⓘ height ⊙ thread VPE packing unit TYP type

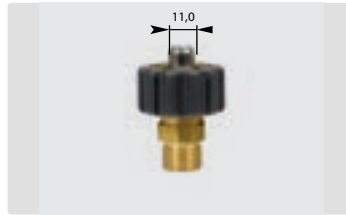


## Quick screw couplings ST-241

### Quick screw couplings with internal o-ring



1/2" F : F. Max. 300 bar / 150 °C

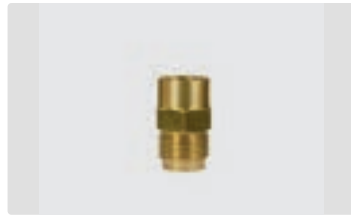


1/2" F : M. Max. 300 bar / 150 °C

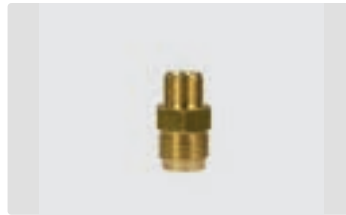
1/4"
3/8"
1/2"

R+M Nr.	ⓘ
200 241 500	52 mm
200 241 520	52 mm
200 241 540	53 mm

R+M Nr.	ⓘ
200 241 510	56 mm
200 241 530	56 mm
200 241 550	58 mm



F : 1/2" M. Max. 300 bar / 150 °C



M : 1/2" M. Max. 300 bar / 150 °C



O-ring nipple

1/4"
3/8"
1/2"

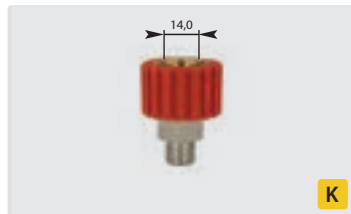
R+M Nr.	ⓘ
200 241 700	34 mm
200 241 720	34 mm
200 241 740	36 mm

R+M Nr.	ⓘ
200 241 710	38 mm
200 241 730	38 mm
200 241 750	40 mm

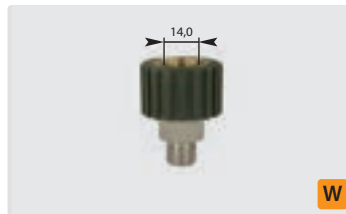
R+M Nr.	VPE
050 000 160	1
791 025 100	100

## Mosmatic quick screw swivel couplings

### Quick screw coupling : male thread



M22 F : M. Max. 250 bar / 120 °C



M21 F : M. Max. 250 bar / 120 °C



O-ring Swivel MSM

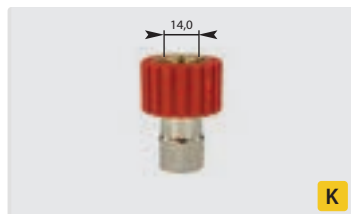
1/4"
3/8"
M18
M22

R+M Nr.	ⓘ
108 701 01	47 mm
108 701 03	48 mm
108 701 07	42 mm
108 701 09	46 mm

R+M Nr.	ⓘ
108 700 01	47 mm
108 700 03	48 mm
108 700 07	42 mm

R+M Nr.	VPE
790 35	1
790 351 00	100

### Quick screw coupling : female thread



M22 F : F. Max. 250 bar / 120 °C



M21 F : F. Max. 250 bar / 120 °C

1/4"
3/8"

R+M Nr.	ⓘ
108 701 02	47 mm
108 701 04	48 mm

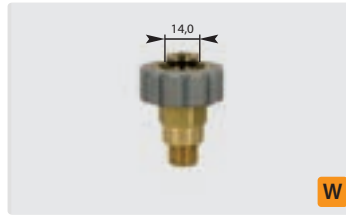
R+M Nr.	ⓘ
108 700 02	47 mm
108 700 04	48 mm

## Quick screw couplings

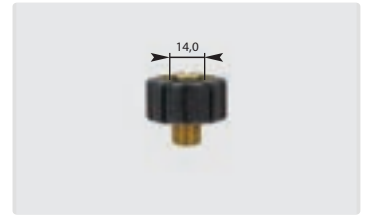
### Quick screw coupling : male thread



Standard M22 : M. Black.  
Max. 400 bar / 150 °C



Standard M21 : M. Grey.  
Max. 400 bar / 150 °C



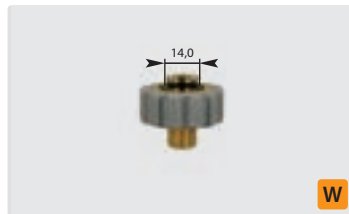
Short M22 : M. Black.  
Max. 400 bar / 150 °C

AG
1/4"
3/8"
1/2"
M16
M18
M21
M22

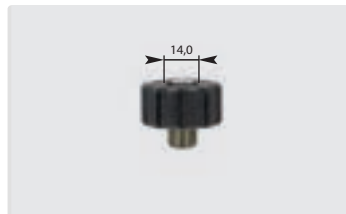
R+M Nr.	I
561 40	49 mm
561 60	46 mm
561 66	50 mm
561 80	51 mm
561 90	47 mm
561 98	49 mm
561 95	60 mm

R+M Nr.	I
564 20	44 mm
564 40	45 mm
564 50	43 mm
564 62	49 mm
564 60	60 mm

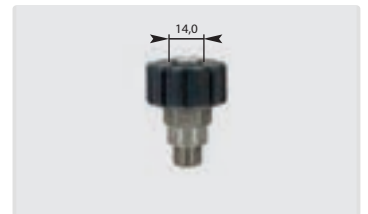
R+M Nr.	I
560 30	28 mm



Short M21 : M. Grey.  
Max. 400 bar / 150 °C



Short M22 : M. Stainless steel.  
Max. 400 bar / 150 °C



M22 : M. Stainless steel.  
Max. 500 bar

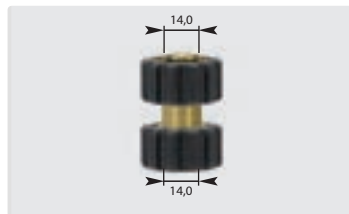
AG
1/4"
3/8"

R+M Nr.	I
563 20	27 mm

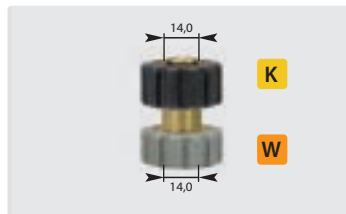
R+M Nr.	I
560 39	28 mm

R+M Nr.	I
561 49	48 mm
561 69	45 mm

### Quick screw coupling : quick screw coupling



M22 F : M22 F.  
Max. 400 bar / 150 °C



M22 F : M21 F.  
Max. 400 bar / 150 °C

⊙

R+M Nr.	I
561 96	50 mm

R+M Nr.	I
561 97	50 mm

## Quick screw couplings

### Quick screw coupling : female thread



Standard M22 : F. Black.  
Max. 400 bar / 150 °C

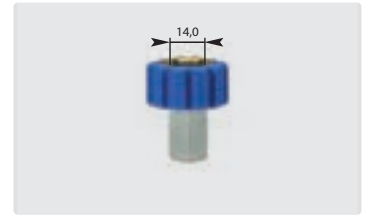
IG	
1/8"	
1/4"	
3/8"	
1/2"	

R+M Nr.	I
561 20	45 mm
561 30	45 mm
561 50	45 mm
561 65	45 mm



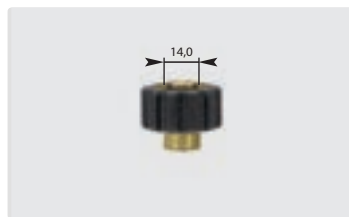
Standard M21: F. Grey.  
Max. 400 bar / 150 °C

R+M Nr.	I
564 00	42 mm
564 10	41 mm
564 30	41 mm



Standard 1/2" : F. Blue.  
Max. 400 bar / 150 °C

R+M Nr.	I
561 10	43 mm



Short M22 : F. Black.  
Max. 400 bar / 150 °C

IG	
1/8"	
1/4"	
3/8"	

R+M Nr.	I
560 10	31 mm
560 20	28 mm



M22 : F. Stainless steel.  
Max. 500 bar

R+M Nr.	I
561 39	45 mm
561 59	45 mm

### Seals



O-ring. 10x2.2. Viton

R+M Nr.	VPE
790 24	1
790 241 00	100



Back ring

R+M Nr.	VPE
050 001 440	1
787 001 100	100



O-ring. 10x2. Perbunan

R+M Nr.	VPE
790 10	1
790 100	100



O-ring. 10x2. Viton

R+M Nr.	VPE
790 20	1
790 201 00	100



O-ring. 10x2.2. Perbunan

R+M Nr.	VPE
790 25	1
790 251 00	100

Symbols thread female thread male thread height packing unit

## Quick screw nipples

Male thread : female thread



M22 M : F. Brass. Max. 400 bar

⊙	
1/8"	
1/4"	
3/8"	
1/2"	
M16	
M18	
M22	

R+M Nr.	i
565 10	29
565 20	29
565 40	29
565 65	29
565 90 *	34
565 66	33



M21 M : F. Brass. Max. 400 bar

R+M Nr.	i
567 10	30
567 20	29
567 40	29
567 60 *	30



1/2" M : F. Brass. Max. 400 bar

R+M Nr.	i
567 80	29



M22 M : F. Brass. Long.  
Max. 400 bar

⊙	
1/4"	
3/8"	
1/2"	

R+M Nr.	i
565 251	40
565 401	40



M22 M : F. Brass. With hexagon.  
Max. 400 bar

R+M Nr.	i
565 80	38



M22 M : F. Stainless steel.  
Max. 500 bar

R+M Nr.	i
565 29	29
565 49	29
565 659	30

## Quick screw nipples

Male thread : male thread



M22 M : M. Brass.  
Max. 400 bar

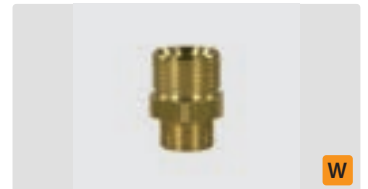
⊙	
1/4"	
3/8"	
1/2"	

R+M Nr.	i
565 30	29 mm
565 50	29 mm
565 60	29 mm



M22 M : M with cone (AGR). Brass.  
Max. 400 bar

R+M Nr.	i
565 301	31.5 mm
565 501	31.5 mm



M21 M : M. Brass.  
Max. 400 bar

R+M Nr.	i
567 30	32 mm
567 50	32 mm



M22 M : M. Brass. Long.  
Max. 400 bar

⊙	
1/4"	
3/8"	
1/2"	

R+M Nr.	i
565 311	40 mm
565 511	40 mm



M22 M : M. Stainless steel.  
Max. 500 bar

R+M Nr.	i
565 39	29 mm
565 59	29 mm
565 69	29 mm

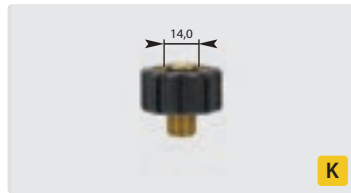


M22 M : M. Stainless steel.  
Max. 400 bar

R+M Nr.	i
565 312 9	42 mm

\* limited stock

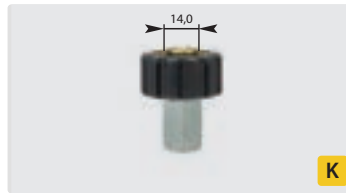
## Quick screw couplings suitable for system 2000



M22 F : M. Max. 400 bar / 150 °C

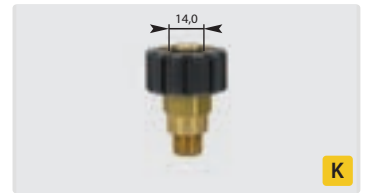
	1/4"
--	------

<b>R+M Nr.</b>	
560 302	30 mm



M22 F : F. Max. 400 bar / 150 °C

<b>R+M Nr.</b>	
561 302	45 mm



M22 F : M. Max. 400 bar / 150 °C

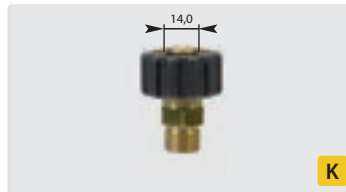
<b>R+M Nr.</b>	
561 402	49 mm



M22 F : F. Max. 400 bar / 150 °C

	3/8"
--	------

<b>R+M Nr.</b>	
561 502	47 mm



M22 F : M. Max. 400 bar / 150 °C

<b>R+M Nr.</b>	
561 602	50 mm

## Quick screw couplings US

### Quick screw couplings US



M22 F : F.  
Max. 400 bar / 150 °C

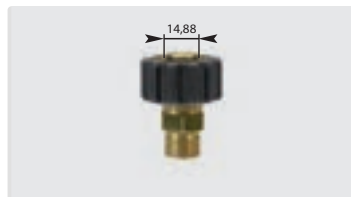
	3/8" F
--	--------

<b>R+M Nr.</b>	
561 501	45 mm



M22 : F.  
Max. 400 bar / 150 °C

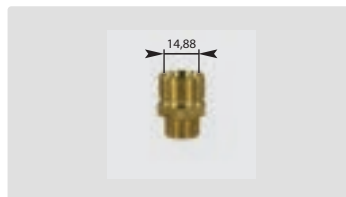
<b>R+M Nr.</b>	
565 402	29



M22 F : F.  
Max. 400 bar / 150 °C

	1/4" M
	3/8" M

<b>R+M Nr.</b>	
561 601	46 mm



M22 : M.  
Max. 400 bar / 150 °C

<b>R+M Nr.</b>	
565 302	29

### Seal



O-ring. Quick screw coupling US.  
10.77 x 2.62. NBR 70

<b>R+M Nr.</b>	
903 825 00	1
790 117 726 210 0	100

Symbols height thread type

## Quick screw couplings

## Quick screw couplings with long centric nipple



M22 F : F.  
Max. 400 bar / 150 °C



M22 M : M. Long.  
Max. 400 bar / 150 °C

⊙
1/4"
3/8"

<b>R+M Nr.</b>	<b>i</b>
561 31	36 mm

<b>R+M Nr.</b>	<b>i</b>
565 311	40 mm
565 511	40 mm



M22 M : F. Long.  
Max. 400 bar / 150 °C



M22 M : 1/4" M. Long.  
Max. 400 bar / 150 °C

⊙
1/4"
3/8"

<b>R+M Nr.</b>	<b>i</b>
565 251	40 mm
565 401	40 mm

<b>R+M Nr.</b>	<b>i</b>
565 311 9	40 mm

## QSC with hexagon centric nipple



M22 F : F.  
Max. 400 bar / 150 °C



M22 F : F. With hexagon.  
Max. 400 bar / 150 °C

⊙
1/4"

<b>R+M Nr.</b>	<b>i</b>
560 50	41 mm

<b>R+M Nr.</b>	<b>i</b>
565 80	38 mm



## Suttner swivels

### ST-300 swivels



3/8" M : 3/8" F. Stainless steel / nickel-plated brass. Max. 275 bar / 90 °C

<b>R+M Nr.</b>	
200 300 010	45 mm



Repair kit

<b>R+M Nr.</b>
200 300 100



1/4" F : 3/8" F. Stainl. steel / nickel-plated brass. Max. 275 bar / 90 °C

<b>R+M Nr.</b>	
200 300 050	57 mm



Repair kit

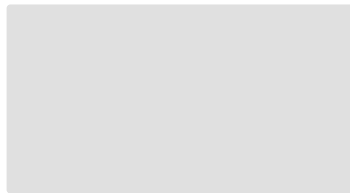
<b>R+M Nr.</b>
200 300 100

### ST-300 swivels



1/4" M : 1/4" F.  
Brass.  
Max. 275 bar / 90 °C

<b>R+M Nr.</b>	
200 300 040	44 mm



<b>R+M Nr.</b>
----------------

### ST-301 swivels



1/4" F : 3/8" F. Stainless steel / brass.  
Swivel with radial friction bearing.  
Max. 350 bar / 90 °C

<b>R+M Nr.</b>	
200 301 050	58 mm



Repair kit

<b>R+M Nr.</b>
200 300 100

### ST-301 swivels



1/4" F : M22 M. Stainless steel / brass.  
Swivel with radial friction bearing.  
Max. 350 bar / 90 °C

<b>R+M Nr.</b>	
200 301 060	62 mm



Repair kit

<b>R+M Nr.</b>
200 300 100

### ST-310 swivels



1/4" F : 3/8" F.  
Stainless steel.  
Max. 350 bar / 90 °C

<b>R+M Nr.</b>	
200 310 000	57 mm



Repair kit

<b>R+M Nr.</b>
200 300 100

### ST-310 swivels



3/8" M : 3/8" F. Stainless steel.  
Max. 350 bar / 90 °C

<b>R+M Nr.</b>	
200 310 010	45 mm



Repair kit

<b>R+M Nr.</b>
200 300 100



1/2" M : 1/2" F. Stainless steel.  
Max. 350 bar / 90 °C

<b>R+M Nr.</b>	
200 310 040	49 mm



Repair kit

<b>R+M Nr.</b>
200 300 100

## Suttner swivels

## ST-311 swivels



1/4" F : 3/8" F. Stainless steel.  
Swivel with radial friction bearing.  
Max. 350 bar / 90 °C

R+M Nr.	
200 311 050	58 mm



Repair kit

R+M Nr.
200 300 100



1/4" F : M22 M. Stainless steel.  
Swivel with radial friction bearing.  
Max. 350 bar / 90 °C

R+M Nr.	
200 311 060	58 mm



Repair kit

R+M Nr.
200 300 100

## ST-340 swivels



1/2" M : 1/2" F. Stainless steel.  
Max. 350 bar / 90 °C

R+M Nr.	
200 340 010	52 mm



Repair kit

R+M Nr.
200 340 100



1/4" F : 1/2" F. Stainless steel.  
Max. 350 bar / 90 °C

R+M Nr.	
200 340 050	73 mm



Repair kit

R+M Nr.
200 340 100



1/2" M : 1/2" F. Brass.  
Max. 250 bar / 90 °C

R+M Nr.	
200 340 510	52 mm



Repair kit

R+M Nr.
200 340 150



1/4" F : 1/2" F. Brass.  
Max. 250 bar / 90 °C

R+M Nr.	
200 340 520	73 mm



Repair kit

R+M Nr.
200 340 100

## ST-351 swivels



1/2" M : 1/2" F.  
Max. 600 bar

R+M Nr.	
200 351 510	72 mm



Repair kit swivel ST-351

R+M Nr.
200 351 400

## ST-350 swivels



3/8" M : 3/8" F. Stainless steel.  
Max. 500 bar / 90 °C

R+M Nr.	
200 350 010	45 mm



Repair kit

R+M Nr.
200 300 120

## ST-345 swivels



1/4" F : 1/4" M. 350 bar. Stainless

R+M Nr.
200 345 500



1/4" F : 1/4" M. 350 bar. Stainless.  
easywash365+ blue

R+M Nr.
200 345 510



1/4" F : 1/4" M. 350 bar. Stainless.  
RAL 5005

R+M Nr.
200 345 520



1/4" F : 1/4" M. 350 bar. Stainless

R+M Nr.
200 345 530

## Suttner swivels ST-320

Completely stainless steel. Swivel with slide ring as sealing element. DN 6



3/8" F : 3/8" M.  
Max. 400 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 320 500	48 mm



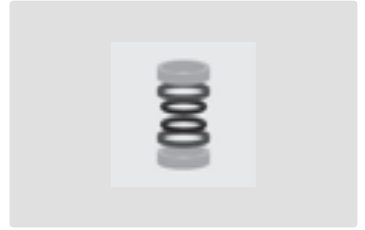
1/4" F : 1/4" M.  
Max. 400 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 320 550	48 mm



3/8" F : 3/8" M.  
Max. 400 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 320 502	48 mm



Repair kit swivels ST-320

R+M Nr.
200 320 490

## Suttner swivels ST-322

Completely stainless steel. Swivel with slide ring as sealing element. Field of application: Hose reels



3/8" F : 3/8" M. DN 10.  
Max. 400 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 322 500	65 mm



1/2" F : 3/8" M. DN 10.  
Max. 300 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 322 510	65 mm



1/2" F : 1/2" M. DN 12.  
Max. 300 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 322 520	67 mm



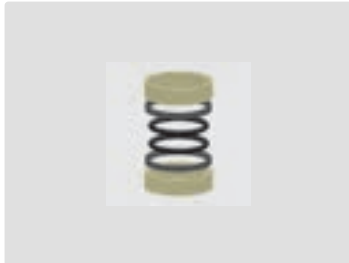
1/2" F : 1/2" M. DN 12.  
Max. 300 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 322 522	68 mm



M28 M. DN 12.  
For series R+M 434 - R+M 564.  
Max. 300 bar / 30 r.p.m. / 90 °C

R+M Nr.		
200 322 523	79.5 mm	1/2" F
200 322 525	79.5 mm	3/8" F



Repair kit swivels ST-322

R+M Nr.
200 322 490

Symbols height inlet

## easywash365+ swivels

Housing nickel-plated brass. Axle stainless steel. Field of application: Ceiling booms in self-service car wash



1/4" F : 1/4" M. DN 7.  
Max. 275 bar / 30 r.p.m. / 120 °C

R+M Nr.	Ø
562 390 503	46 mm



3/8" F : 1/4" M. DN 7.  
Max. 275 bar / 30 r.p.m. / 120 °C

R+M Nr.	Ø
562 390 505	46 mm



3/8" F : 3/8" M. DN 7.  
Max. 275 bar / 30 r.p.m. / 120 °C

R+M Nr.	Ø
562 390 507	46 mm



Repair kit **easywash365+** swivels

R+M Nr.
750 140 2

## easywash365+ swivels

Housing stainless steel / nickel-plated brass. Axle stainless steel. Maintenance-free. DN 6. Field of application: Swivels applicable to high pressure spray guns and hose connections, ceiling booms in self-service car wash



1/4" M : 1/4" F.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 600	63 mm	1
562 391 601	63 mm	25



1/4" M : 3/8" F.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 605	64 mm	1
562 391 606	64 mm	25



3/8" M : 1/4" F.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 610	63 mm	1
562 391 611	63 mm	25



3/8" M : 3/8" F.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 615	64 mm	1
562 391 616	64 mm	25



1/4" F : 1/4" F.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 620	69 mm	1
562 391 621	69 mm	25



3/8" F : 3/8" F.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 625	67 mm	1
562 391 626	67 mm	25



1/4" F : M18 M.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 630	62 mm	1
562 391 631	62 mm	25



1/4" F : M14 M.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 627	62 mm	1
562 391 628	62 mm	25

## Mosmatic swivels WDG

Housing nickel-plated brass. Axle stainless steel. Field of application: Ceiling booms in self-service car wash



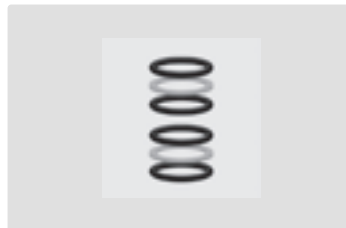
1/4" F : 1/4" M. DN 7.  
Max. 150 bar / 30 r.p.m. / 90 °C

R+M Nr.	Ø
750 140 11	46 mm



3/8" F : 1/4" M. DN 7.  
Max. 150 bar / 30 r.p.m. / 90 °C

R+M Nr.	Ø
750 140 1	46 mm



Repair kit  
Mosmatic swivels WDG

R+M Nr.
750 140 2

## Mosmatic swivels DGS / DGV / DGK

Housing stainless steel / nickel-plated brass. Axle stainless steel. DN 6. Rust-proof and maintenance-free. Field of application: Swivels applicable to high pressure spray guns and hose connections, ceiling booms in self-service car wash. Max. 275 bar / 30 r.p.m. / 120 °C



**DGS.** Double ball bearing system

**DGV.** Single ball bearing system

**DGK.** Single ball bearing system

R+M Nr.			
108 300 01	1/4" F	1/4" M	59 mm
108 300 02	1/4" F	1/4" F	62 mm
108 300 03	1/4" F	3/8" M	60 mm
108 300 04	1/4" F	3/8" F	63 mm
108 300 05	1/4" F	M14 M	57 mm
108 300 06	1/4" F	M16 M	57 mm
108 300 07	1/4" F	M18 M	57 mm
108 300 09	1/4" F	M22 M	61 mm
108 301 03	3/8" F	3/8" M	60 mm
108 301 04	3/8" F	3/8" F	63 mm
108 301 07	3/8" F	M18 M	57 mm
108 301 09	3/8" F	M22 M	61 mm

R+M Nr.			
108 325 11	1/4" M	1/4" M	60 mm
108 325 12	1/4" M	1/4" F	63 mm
108 325 13	1/4" M	3/8" M	61 mm
108 325 18	1/4" M	M21 M	62 mm
108 325 21	3/8" M	1/4" M	60 mm
108 325 24	3/8" M	3/8" F	61 mm
108 325 32	3/8" M	1/4" F	63 mm
108 325 33	3/8" M	3/8" M	61 mm
108 325 34	3/8" M	3/8" F	63 mm
108 325 37	3/8" M	M18 M	58 mm
108 325 39	3/8" M	M22 M	62 mm
108 325 82	1/4" F	1/4" F	67 mm
108 325 87	1/4" F	M18 M	62 mm

R+M Nr.			
108 320 31	1/4" M	DN 06	58 mm
108 320 33	1/4" F	DN 06	62 mm
108 321 32	3/8" M	DN 08	66 mm

## Mosmatic swivels DGVI

Stainless steel. DN 6. Rust-proof and maintenance-free. Field of application: Swivels applicable to high pressure spray guns and hose connections. Max. 500 bar / 30 r.p.m. / 120 °C



R+M Nr.			
108 327 02	1/4" M*	1/4" F	54
108 327 24	3/8" M*	3/8" F	56
108 327 34	3/8" M	3/8" F	64
108 328 14	1/2" M	1/2" F	75

R+M Nr.			
108 327 81	1/4" F	1/4" M	64
108 327 83	1/4" F	3/8" M	65

R+M Nr.			
108 327 82	1/4" F	1/4" F	66
108 327 84	1/4" F	3/8" F	68

R+M Nr.			
108 327 87	1/4" F	M18 M	62
108 327 88	1/4" F	M21 M	66
108 327 89	1/4" F	M22 M	66

## Mosmatic swivels DGE / DGEI

Stainless steel. Maintenance-free. Field of application: especially designed for high flow rates and low revolutions per minute as for example at automatic car wash plants. Max. 30 r.p.m. / 120 °C. DN 13 for 1/2". DN 25 for 1"



**DGE 90°.** Housing nickel-plated brass. Single ball bearing system. Rust-proof. Max. 275 bar

**DGE.** Housing nickel-plated brass. Single ball bearing system. Rust-proof. Max. 275 bar

**DGEI.** Housing stainless steel. Triple ball bearing system. Max. 350 bar

**DGEI 90°.** Housing stainless steel. Triple ball bearing system. Max. 350 bar

R+M Nr.			
108 348 23	1/2" F	1/2" M	91
108 348 25	1" F	1" M	113

R+M Nr.			
108 348 03	1/2" F	1/2" M	80
108 348 05	1" F	1" M	90

R+M Nr.			
108 347 03	1/2" F	1/2" M	80
108 347 05	1" F	1" M	95

R+M Nr.			
108 347 23	1/2" F	1/2" M	97
108 347 25	1" F	1" M	123

\* conical

Symbols height length mm outlet inlet packing unit

## Mosmatic high RPM swivels DY-Series

Axle stainless steel. Housing nickel-plated brass. Triple ball bearing system. DN 6. Rust-proof and maintenance-free. Field of application: especially designed for high revolutions per minute and self-rotating applications. Max. 275 bar / 2000 r.p.m. / 120 °C



DYF.

R+M Nr.	☺	☹	↔
108 580 03	1/4" F	3/8" M	80
108 581 03	3/8" F	3/8" M	80
108 580 00	1/4" F	M12 M	66



DYF.

R+M Nr.	☺	☹	↔
108 584 01	3/8" F	1/4" M	84



DYG.

R+M Nr.	☺	☹	↔
108 570 03	1/4" F	3/8" M	80
108 571 03	3/8" F	3/8" M	80



DYL.

R+M Nr.	☺	☹	↔
108 560 03	1/4" F	3/8" M	80
108 561 03	3/8" F	3/8" M	80
108 561 04	3/8" F	3/8" F	80
108 560 01	1/4" F	1/4" F	79



DYL 90°

R+M Nr.	☺	☹	↔
108 563 03	1/4" F	3/8" M	84
108 563 01	1/4" F	1/4" M	84

## Mosmatic seal kits



R+M Nr.	TYP
108 369 05	DY hard metal
108 369 01	DX ceramic

## Mosmatic swivels DGL



Axle stainless steel. Housing nickel-plated brass. Triple ball bearing system. DN 6. Rust-proof and maintenance-free. Field of application: designed for self-spinning applications. Very low torque required. Max. 275 bar / 1,000 r.p.m. / 30 °C. Max. 275 bar / 30 r.p.m. / 120 °C

R+M Nr.	☺	☹	↔
108 311 03	3/8" F	3/8" M	66

## Mosmatic high RPM swivels DY-Series / WDRS

Axle and housing stainless steel. Triple ball bearing system. Maintenance-free. DN 6 for 3/8". DN 13 for 1/2". DN 38 for 1.1/2"



**DYCI.** Triple ball bearing system. Field of application: especially designed for high revolutions per minute and self-rotating applications. Max. 350 bar / 2,000 r.p.m. / 120 °C

R+M Nr.	☺	☹	↔
108 550 03	1/4" F	3/8" M	95
108 551 03	3/8" F	3/8" M	95



**DYCI.** Triple ball bearing system. Field of application: especially designed for high revolutions per minute and self-rotating applications. Max. 350 bar / 2,000 r.p.m. / 120 °C

R+M Nr.	☺	☹	↔
108 552 53	M22	3/8" M	95



**DYDI.** Triple ball bearing system. Field of application: especially designed for high revolutions per minute and self-rotating applications. Max. 500 bar / 2,000 r.p.m. / 120 °C

R+M Nr.	☺	☹	↔
108 552 63	M22	3/8" M	95



**WDRS.** Double ball bearing system. Field of application: especially designed for high flow rates, e.g. automatic car wash. Max. 200 bar / 60 - 150 r.p.m. / 80 °C

R+M Nr.	☺	☹	↔
108 412 11	1/2" F	1/2" M	110
108 415 11	1.1/2" F	1.1/2" M	150

Axle and housing stainless steel. Quadruple ball bearing system. DN 6. Maintenance-free. Field of application: especially designed for high revolutions per minute and self-rotating applications. Max. 2,000 r.p.m. / 120 °C



DYT. Max. 350 bar

R+M Nr.	☺	☹	↔
108 590 03	1/4" F	3/8" M	107
108 591 01	3/8" F	1/4" M	109
108 591 03	3/8" F	3/8" M	109



DYT 90°. Max. 350 bar

R+M Nr.	☺	☹	↔
108 593 03	1/4" F	3/8" M	109
108 594 03	3/8" F	3/8" M	110



DYU. Max. 500 bar

R+M Nr.	☺	☹	↔
108 591 13	3/8" F	3/8" M	109



DYU 90°. Max. 500 bar

R+M Nr.	☺	☹	↔
108 594 13	3/8" F	3/8" M	110



## R+M swivels



3/4" F : 3/4" M. DN 19.  
Housing and axle stainless steel.  
Max. 200 bar / 90 °C

<b>R+M Nr.</b>	
750 400 1	80 mm



Repair kit swivel 750 400 1

<b>R+M Nr.</b>	
750 400 2	



3/8" M : 3/8" F.  
Brass.  
Max. 220 bar / 90 °C

<b>R+M Nr.</b>	
562 50	39 mm



1/4" F : 3/8" M. DN 6.  
Housing and axle stainless steel.  
Max. 600 bar / 90 °C

<b>R+M Nr.</b>	
750 280 0	59 mm



Seal kit swivel 750 280 0

<b>R+M Nr.</b>	
750 200 2	



3/8" M : 1/4" F.  
Brass.  
Max. 220 bar / 90 °C

<b>R+M Nr.</b>	
562 60	39 mm

## High pressure quick couplings

### Couplings 25KB



Coupling : F. Nickel-plated brass. With valve.  
Max. 35 bar / 100 °C

### Plugs 25SB



Plug : F.  $\varnothing$  12 mm. Brass. With valve.  
Max. 35 bar / 100 °C

### Back ring



25KF + 25KB

<b>R+M Nr.</b>
790 41

	DN
1/4"	7.4
3/8"	7.4

<b>R+M Nr.</b>	
553 20	55 mm
553 30	54 mm

<b>R+M Nr.</b>	
556 10	43 mm
556 30	43 mm

Symbols height length mm DN nominal diameter thread  $\varnothing$  diameter outlet inlet type

## High pressure quick couplings

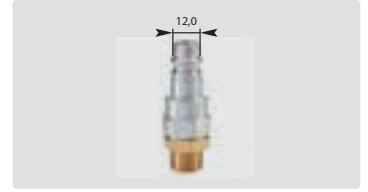
## Couplings CEJN 322 and plug



Coupling : F.  
Brass / steel, nickel-plated.  
Max. 200 bar / 100 °C



Plug : F.  $\varnothing$  12 mm.  
Hardened steel, chemically nickel-plated / zinc-plated.  
Max. 200 bar / 100 °C



Plug : M.  $\varnothing$  12 mm.  
Hardened steel, chemically nickel-plated / zinc-plated and brass.  
Max. 200 bar / 100 °C

$\varnothing$	DN
1/4"	7.4
3/8"	7.4

R+M Nr.	I
552 001	48 mm
552 002	50 mm

R+M Nr.	I
552 101	36 mm
552 102	38 mm

R+M Nr.	I
552 111	36 mm
552 112	38 mm

## Couplings SP-20 250 bar and plug



Coupling : F. Brass.  
Max. 250 bar / 100 °C



Coupling : M. Brass.  
Max. 250 bar / 100 °C



Plug : F.  $\varnothing$  14.8 mm. Zinc-plated steel. Max. 250 bar / 100 °C

$\varnothing$	DN
1/4"	8.0
3/8"	8.0
1/2"	8.0

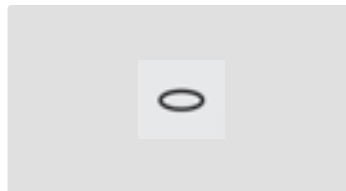
R+M Nr.	I
550 10	41 mm
550 30	42 mm

R+M Nr.	I
550 20	43 mm

R+M Nr.	I
551 11	40 mm
551 10	40 mm



Plug : M.  $\varnothing$  14.8 mm. Zinc-plated steel. Max. 250 bar / 100 °C



O-ring. [TYP] SP-20. 13.1x2.6.  
Max. 250 bar / 100 °C

$\varnothing$	DN
3/8"	8.0

R+M Nr.	I
551 20	43 mm

R+M Nr.	I
790 60	

## Suttner high pressure quick couplings ST-45-250 KW

### Couplings and plug ST-45-250 KW



Coupling : M.  
Stainless steel.  
Max. 250 bar / 150 °C



Coupling : F.  
Stainless steel.  
Max. 250 bar / 150 °C



Coupling : F.  
Stainless steel.  
Max. 250 bar / 150 °C



Plug : F.  
Hardened stainless steel.  
Max. 250 bar / 150 °C

⊙	DN
1/4"	10
3/8"	10
1/2"	10
M22	10

R+M Nr.	⊓
200 045 595	49 mm

R+M Nr.	⊓
200 045 570	41 mm
200 045 560	41 mm
200 045 550	41 mm
200 045 575	41 mm

R+M Nr.	⊓
200 045 565	43 mm
200 045 555	43 mm

R+M Nr.	⊓
040 005 482	38 mm



Plug : M.  
Stainless steel.  
Max. 250 bar / 150 °C



Plug : M.  
Hardened stainless steel.  
Max. 250 bar / 150 °C



Coupling : F.  
Nickel-plated brass.  
Max. 250 bar / 150 °C



Coupling : F.  
Nickel-plated brass.  
Max. 250 bar / 150 °C

⊙	DN
1/4"	10
3/8"	10
1/2"	10

R+M Nr.	⊓
557 206	44 mm

R+M Nr.	⊓
040 005 669	42 mm

R+M Nr.	⊓
200 045 510	41 mm

R+M Nr.	⊓
200 045 505	43 mm



Plug : F.  
Zinc-plated steel.  
Max. 250 bar / 150 °C



Plug : F.  
Stainless steel.  
Max. 250 bar / 150 °C



Plug : F.  
Hardened stainless steel.  
Max. 250 bar / 150 °C



O-ring. 20x2.5. EPDM

R+M Nr.	VPE
792 025 100	100

⊙	DN
3/8"	10
1/2"	10

R+M Nr.	⊓
557 204	38 mm

R+M Nr.	⊓
557 209	38 mm
557 29	45 mm

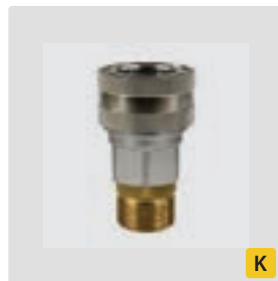
R+M Nr.	⊓
557 209 2	38 mm

O-ring. 18x2.5. EPDM

R+M Nr.	VPE
791 825 100	100



Plug : F.  
Zinc-plated steel + brass.  
Max. 250 bar / 150 °C



Coupling : M.  
Nickel-plated brass + brass.  
Max. 250 bar / 150 °C



Seal kit

R+M Nr.	M
557 104 11	EPDM
200 045 460	FKM

⊙	DN
M22	10

R+M Nr.	⊓
557 205	73 mm

R+M Nr.	⊓
557 105	63 mm

Symbols ⊓ height DN nominal diameter ⊙ thread VPE packing unit ∅ diameter TYP type M material

## Suttner high pressure quick couplings ST-3100

### Couplings and plug ST-3100



Coupling : F. Stainless steel.  
Max. 250 bar / 150 °C

⊙	DN
1/4"	10
3/8"	12
1/2"	12

R+M Nr.	ⓘ
203 100 466	44 mm
203 100 461	44 mm
203 100 460	44 mm



Coupling : F. Stainless steel.  
Max. 250 bar / 150 °C

R+M Nr.	ⓘ
203 100 456	50 mm
203 100 455	50 mm



Coupling : M. Stainless steel.  
60° cone. Max. 250 bar / 150 °C

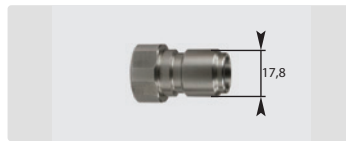
R+M Nr.	ⓘ
203 100 653	47 mm
203 100 474	50 mm
203 100 655	45 mm



Coupling : M. Stainless steel.  
60° cone. Max. 250 bar / 150 °C

⊙	DN
1/4"	10
3/8"	12
1/2"	12

R+M Nr.	ⓘ
203 100 652	53 mm
203 100 473	55 mm
203 100 656	54 mm



Plug : F. Stainless steel.  
Max. 250 bar / 150 °C

R+M Nr.	ⓘ
040 005 665	35 mm
040 005 667	41 mm
040 005 661	47 mm



Plug : M. Stainless steel. 60° cone.  
Max. 250 bar / 150 °C

R+M Nr.	ⓘ
040 005 668	47 mm
040 005 662	47 mm



Plug : F. Hardened stainless steel.  
Max. 250 bar / 150 °C

⊙	DN
1/4"	10
3/8"	12
1/2"	12

R+M Nr.	ⓘ
040 005 465	35 mm
040 005 467	41 mm
040 005 461	47 mm



Plug : M. Hardened stainless steel.  
60° cone. Max. 250 bar / 150 °C

R+M Nr.	ⓘ
040 005 459	47 mm
040 005 462	47 mm



Plug : F. Stainless steel. For moulded  
handles. Max. 250 bar / 150 °C

R+M Nr.	ⓘ
040 005 664	40 mm



Plug : F. Stainless steel + brass.  
Max. 250 bar / 150 °C

⊙	DN
M22	10

R+M Nr.	ⓘ
203 100 665	56 mm



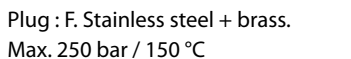
Coupling : M. Stainless steel.  
Max. 250 bar / 150 °C

R+M Nr.	ⓘ
203 100 660	57 mm



O-ring. 15.1x2.7

R+M Nr.	VPE
551 502 42	1
791 512 710	100



O-ring. 18x2

R+M Nr.	VPE
551 502 43	1
791 821 00	100

## Couplings "B"



Coupling : F. Stainless steel.  
Max. 150 bar / 90 °C

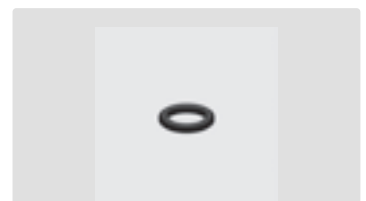
⊙	DN
1/2"	11

R+M Nr.	ⓘ
710 247 212 000	35 mm



Plug : M. Stainless steel.  
Max. 150 bar / 90 °C

R+M Nr.	ⓘ
710 247 112 100	44 mm



O-ring. 13x2

R+M Nr.	ⓘ
791 32	

## Suttner ultra high pressure quick couplings ST-45-600

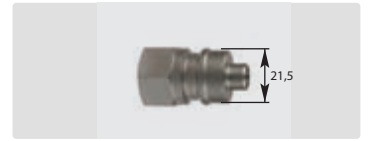
### Couplings and plug ST-45-600



Coupling : M. Stainless steel.  
Max. 600 bar / 150 °C



Coupling : M. Stainless steel.  
Max. 600 bar / 150 °C



Plug : F. Hardened stainless steel.  
Max. 600 bar / 150 °C

⊙	DN
1/4"	8

R+M Nr.	⊓
200 045 600	57 mm

R+M Nr.	⊓
200 045 605	57 mm

R+M Nr.	⊓
040 005 468	40 mm



O-ring. 11x1.5

R+M Nr.
050 000 020



Back ring. 11x14x1

R+M Nr.
050 001 430



O-ring. 10x2.5

R+M Nr.
050 000 160

## Suttner high pressure quick couplings ST-246

### Coupling and plug ST-246-8



Coupling : F. Stainless steel V2A.  
Max. 350 bar / 100 °C



Plug : F. Hardened stainless steel.  
Max. 350 bar / 100 °C



Plug : M. Hardened stainless steel.  
Max. 350 bar / 100 °C

⊙	DN
1/2"	11

R+M Nr.	⊓
710 246 412 000	41.0 mm

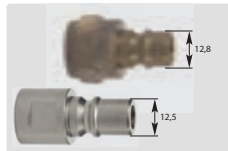
R+M Nr.	⊓
710 246 312 001	43.7 mm

R+M Nr.	⊓
710 246 312 101	45.2 mm

### Coupling and plug ST-246-6



Coupling : F.  
Stainless steel V2A.  
Max. 350 bar / 100 °C



Plug : F. Hardened stainless steel.  
Max. 350 bar / 100 °C



Plug : M.  
Stainless steel.  
Max. 350 bar / 100 °C



NBR 75

⊙	DN
3/8"	8.5
1/4"	6.0
M22 (CEL)	6.0

R+M Nr.	⊓
710 246 238 000	37.8

R+M Nr.	⊓
710 246 138 001	36.6
040 005 423	41.0

R+M Nr.	⊓
040 005 424	42.5

R+M Nr.	⊙	TYP
710 005 004	1/2"	ST-246-8
710 005 003	3/8"	ST-246-6

## Bonded seals



Bonded seals. Steel

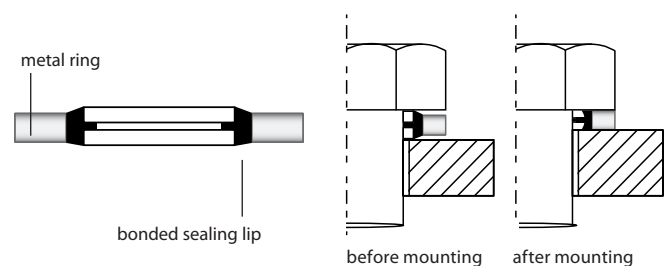


Bonded seals. Stainless steel

R+M Nr.	⊙	VPE
788 881 4	1/4"	1
788 881 410 0	1/4"	100
788 883 8	3/8"	1
788 883 810 0	3/8"	100
788 881 2	1/2"	1
788 881 210 0	1/2"	100
788 881	1"	1

R+M Nr.	⊙	VPE
788 881 49	1/4"	1
788 881 491 00	1/4"	100
788 883 89	3/8"	1
788 883 891 00	3/8"	100
788 881 29	1/2"	1
788 881 291 00	1/2"	100

### Functional principle of bonded seal



Symbols ⊓ height ⊓ nominal diameter ⊙ thread VPE packing unit TYP type

## Hose connectors



M22 M. Standard. Brass.  
Max. 400 bar

<b>R+M Nr.</b>
569 20



M21 M. Standard. Brass.  
Max. 400 bar

<b>R+M Nr.</b>
569 10



1/2" M. Standard. Brass.  
Max. 400 bar

<b>R+M Nr.</b>
569 30



M22 M. Standard. Stainless steel.  
Max. 400 bar

<b>R+M Nr.</b>
569 29



M22 M. Solid version stainless steel.  
Max. 500 bar

<b>R+M Nr.</b>
569 59



M22 M. DKOS stainless steel.  
Max. 500 bar

<b>R+M Nr.</b>
593 142



M24 M. Stainless steel.  
Max. 700 bar

<b>R+M Nr.</b>
200 741 600



M21 M : M22 M. Brass. Reduction.  
Max. 400 bar

<b>R+M Nr.</b>
569 15



M22 M. Solid version. Brass.  
Max. 400 bar

<b>R+M Nr.</b>
569 50



Rubber cover

<b>R+M Nr.</b>
569 60



M22 M. Solid version with rubber cover.  
Max. 400 bar

<b>R+M Nr.</b>
569 40



M22 M. Long with moulded handle.  
Max. 280 bar

<b>R+M Nr.</b>
569 70



M22 M. Solid version stainless steel with rubber cover.  
Max. 500 bar

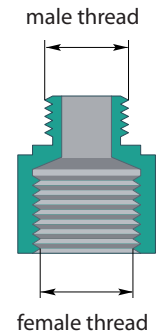
<b>R+M Nr.</b>
569 49

### Comparison chart of metric, bsp and trapezoidal thread

pipe	IG	AG	metric	IG	AG
1/8" ( 5x10)	8.566 mm	9.728 mm	M12x1.5	10.38 mm	12 mm
1/4" ( 8x13)	11.445 mm	13.157 mm	M14x1.5	12.38 mm	14 mm
3/8" (12x17)	14.950 mm	16.662 mm	M16x1.5	14.38 mm	16 mm
1/2" (15x21)	18.631 mm	20.955 mm	M18x1.5	16.38 mm	18 mm
3/4" (21x27)	24.117 mm	26.441 mm	M21x1.5	19.38 mm	21 mm
1" (26x34)	30.291 mm	33.249 mm	M22x1.5	20.38 mm	22 mm
1.1/4" (33x42)	38.952 mm	41.910 mm	M24x1.5	22.38 mm	24 mm
1.1/2" (40x49)	44.324 mm	47.803 mm	M27x1.5	25.38 mm	27 mm
2" (50x60)	56.656 mm	59.614 mm	M30x1.5	28.38 mm	30 mm

trapezoidal	IG	AG
TR20	18.1 mm	20 mm
TR22	20.1 mm	22 mm



## Hose adaptor



Plug 10 mm : M22 M.  
Max. 210 bar

<b>R+M Nr.</b>	<b>⊘</b>
316 951 0	190 mm



Plug 11 mm : M22 M.  
Max. 400 bar

<b>R+M Nr.</b>	<b>⊘</b>
316 961 1	190 mm



Plug 11 mm : M22 M.  
Max. 400 bar

<b>R+M Nr.</b>	<b>⊘</b>
316 961 2	145 mm
316 961 3	150 mm



M22 M : plug. Brass.  
Max. 250 bar / 100 °C

<b>R+M Nr.</b>	<b>⊘</b>
559 908 221	104 mm



Back ring

<b>R+M Nr.</b>	<b>⊘</b>
790 58	10 mm
790 59	11 mm



O-ring

<b>R+M Nr.</b>	<b>⊘</b>
790 55	10 mm
790 57	11 mm

Symbols IG) female thread AG) male thread ⊘) thread ⊓) height ⊘) diameter VPE) packing unit



## Hose adapter



Plug coupling 10 mm : 3/8" M.  
Max. 400 bar

<b>R+M Nr.</b>	
559 910 1	



Plug coupling 11 mm.  
Max. 400 bar

<b>R+M Nr.</b>	
559 911 12	1/2" M
559 911 38	3/8" M
559 911 22	M22 M
559 911 23	M22 F



M22 F : M22 M. K 2000. Brass.  
Max. 400 bar

<b>R+M Nr.</b>	
565 66	



Plug 10 mm : M22 M.  
Max. 250 bar

<b>R+M Nr.</b>	
559 910 2	



O-ring

<b>R+M Nr.</b>	
790 55	10 mm



M24 M : M. Brass \*.  
Max. 400 bar

<b>R+M Nr.</b>	
318 241 8	M18
318 242 1	M21



M27 M : M. Brass \*.  
Max. 400 bar

<b>R+M Nr.</b>	
318 271 8	M18
318 272 1	M21



M24 M : 3/8" F. Brass \*.  
Max. 400 bar

<b>R+M Nr.</b>	
318 24	



M27 M : 3/8" F. Brass \*.  
Max. 400 bar

<b>R+M Nr.</b>	
318 27	



Copper washer. K 2000

<b>R+M Nr.</b>	
781 519 1	18.8 mm



Back ring

<b>R+M Nr.</b>	
790 58	10 mm



O-ring

<b>R+M Nr.</b>	
791 42	M24



O-ring

<b>R+M Nr.</b>	
903 598 00	M27



O-ring. 10x2.2. Perbunan

<b>R+M Nr.</b>	
790 25	1
790 251 00	100



O-ring. 9.5x2

<b>R+M Nr.</b>	
050 002 456	1

## Reduction nipple

Female thread : male thread



Brass. Max. 400 bar

<b>R+M Nr.</b>	
710 100 032	
710 100 033	

<b>IG : AG</b>	
1/4" : M12x1	
M12x1 : 1/4"	

\* not to be used with patented WAP / Venturi inserts



### ST-247 coupling system

The new high-pressure hose and lance coupling system ST-247 can be added to existing high-pressure cleaning systems and provides for quick and reliable changing of accessories without any annoying screwing and jamming.

Thanks to its intuitive operation and very sturdy design, it offers all advantages of a quick coupling system.

Being made of a high-quality combination of brass and stainless steel, it is perfectly suitable for use in professional or industrial environments such as agriculture and cleaning of large surfaces ranging from transporters to public places and outside surfaces.

Thanks to the plastic coating of the handwheels, the coupling system is ideally suited for hot-water applications.

#### ST-247 couplings



Brass. TR22 F.  
Max. 400 bar / 150° C.

<b>R+M Nr.</b>
200 247 310



TR22 F. Brass.  
Incl. 2 heat resistant caps.  
Max. 400 bar / 150° C.

<b>R+M Nr.</b>
200 247 410



M22 F. Brass.  
Incl. 1 heat resistant cap.  
Max. 400 bar / 150° C.

<b>R+M Nr.</b>
200 247 420



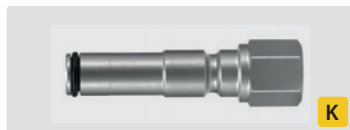
ST-247. Brass.  
Max. 310 bar / 45 l/min / 150° C

<b>R+M Nr.</b>
200 247 255



ST-247 : 1/4" M.  
Hardened stainless steel.  
Max. 400 bar / 150° C.

<b>R+M Nr.</b>
200 247 110



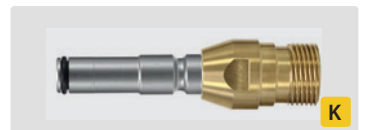
ST-247 : 1/4 " F.  
Hardened stainless steel.  
Max. 400 bar / 150° C.

<b>R+M Nr.</b>
200 247 100



ST-247 : M22 M.  
Hardened stainless steel.  
Max. 400 bar / 150° C

<b>R+M Nr.</b>
200 247 125



ST-247 : TR22 M.  
Brass/stainless steel.  
Max. 400 bar / 150° C.

<b>R+M Nr.</b>
200 247 120

## ST-247 coupling system

### TR22 adapters (old : new)



TR22 M : M22 F QSC. Alternative to adapter 2+3.  
Brass. Max. 400 bar / 150° C.

<b>R+M Nr.</b>
561 022 220



TR22 M : M22 F QSC. Brass. Swivel.  
Alternative to adapter 2+3.  
Max. 400 bar / 150° C.

<b>R+M Nr.</b>
568 022 220



TR22 M : M 22 F QSC. Brass. Swivel.  
Alternative to adapter 2+3.  
Max. 400 bar / 150° C.

<b>R+M Nr.</b>
568 022 221



TR22 F : 3/8" F. Swivel. Brass.  
Alternative to adapter 12.  
Incl. 1 heat resistant cap.  
Max. 400 bar / 150° C

<b>R+M Nr.</b>
200 301 110



TR22 F : M22 M. Swivel. Brass.  
Alternative to adapter 12.  
Incl. 1 heat resistant cap.  
Max. 400 bar / 150° C

<b>R+M Nr.</b>
200 301 100



3/8" M : TR22 M.  
Brass.  
Max. 400 bar / 150° C.

<b>R+M Nr.</b>
010 003 041



TR22 F : TR22 M.  
Brass.  
Max. 400 bar / 150° C

<b>R+M Nr.</b>
200 247 250



TR22 F : 3/8" M.  
Alternative to adapter 6.  
Brass.  
Max. 400 bar / 150° C

<b>R+M Nr.</b>
565 683



TR22 F : 3/8" F.  
Alternative to adapter 6.  
Brass.  
Max. 400 bar / 150° C

<b>R+M Nr.</b>
565 684



TR22 F : M22 M.  
Alternative to adapter 6.  
Brass.  
Max. 400 bar / 150° C

<b>R+M Nr.</b>
565 681



TR22 F : Plug coupling Ø 11  
mm. Brass/stainless steel.  
Max. 400 bar / 150° C

<b>R+M Nr.</b>
565 688

### TR20 adapters lances



TR20 F : M18 M.  
Alternative to adapter 8. Brass.  
Max. 400 bar / 150° C

<b>R+M Nr.</b>
565 686



TR20 F : 1/4" M.  
Stainless steel.  
Max. 400 bar / 150° C

<b>R+M Nr.</b>
565 685 19



1/4" F : TR20 M.  
Alternative to adapter 7. Brass.  
Max. 400 bar / 150° C

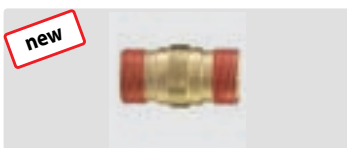
<b>R+M Nr.</b>
565 685



M18 IG : TR20 AG.  
Alternative to adapter 7. Brass.  
Max. 400 bar / 150° C

<b>R+M Nr.</b>
565 687

### Hose connectors



TR22 M. Alternative to adapter 9.  
Brass. Max. 400 bar

<b>R+M Nr.</b>
569 22



TR 22 M : M22 x 1,5 M. Alternative to  
adapter 1. Brass. Max. 400 bar

<b>R+M Nr.</b>
569 23

### Wrench



<b>R+M Nr.</b>	<b>SW</b>
100 000 235	27

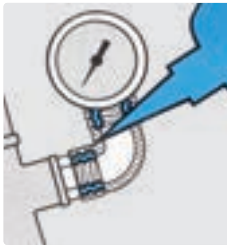
## Adhesives &amp; sealing materials

## Retaining



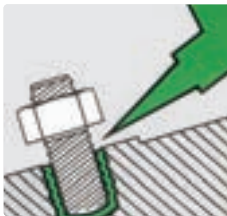
TYP	R+M Nr.	C	Ń	°C	Nm *	function
83.21	954 50	green	50 ml	-55 – +175 °C	25 - 35	high strength retaining and locking approved as sealant or pure Oxygen BAM.
83.21	954 55	green	250 ml	-55 – +175 °C	25 - 35	
83.05	954 830 505 0	green	50 ml	-55 – +200 °C	25 - 35	high tenacity, extremely quick hardening, suitable for passive surfaces as galvanized steel and steel without activator
83.05	954 830 525 0	green	250 ml	-55 – +200 °C	25 - 35	

## Threadsealing



TYP	R+M Nr.	C	Ń	°C	Nm *	function
53.14	954 531 405 0	brown	50 ml	-55 – +150 °C	12 - 16	brown small diameter pneumatic and hydraulic fittings connection, DVGW approved for gas
58.11	954 581 105 0	yellow	50 ml	-55 – +150 °C	18 - 22	yellow pipe sealant approved for DWGV, WRAS and BAM. Low screwing friction
58.11	954 581 125 0	yellow	250 ml	-55 – +150 °C	18 - 22	
85.86	954 858 605 0	green	50 ml	-55 – +200 °C	25 - 35	green DIN-DVGW/KTW approved for gas and potable water. High temperature sealing +200 °C

## Threadlocking



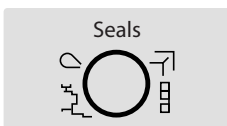
TYP	R+M Nr.	C	Ń	°C	Nm *	function
55.03	954 550 305 0	blue	50 ml	-55 – +150 °C	18 - 23	oil tolerant threadlock. DVGW/KTW approved. larger gap filling.
83.54	954 835 405 0	blue	50 ml	-55 – +150 °C	28 - 35	green studlocking general purpose high torque strength
54.03	954 540 350	blue	50 ml	-55 – +150 °C	14 - 18	medium-tight screw locking device for protection of threads in case of a push, vibration and pressure

## Liquid gasketing



TYP	R+M Nr.	C	Ń	°C	Nm *	function
58.14	954 581 407 5	orange	75 ml	-55 – +150 °C	5 - 8	orange general purpose flexible, small to medium size gear boxes sealing

## Superglue



TYP	R+M Nr.	C	Ń	°C	setting time	function
43	954 430 20	green	20 ml	-55 – +80 °C	2 - 5 sec.	multi use instant adhesive. Bonds ceramic, fabrics, aluminium, leather and most plastics

## Activator

TYP	R+M Nr.	Ń	function	fixture time
11	954 112 00	200 ml	for anaerobic adhesives	30 - 60 seconds



## Thread seal tape

\* shear strength



R+M Nr.	VPE
954 00	1 reel
954 10	10 reels
954 25	250 reels

## Grease for seals



R+M Nr.	Ń
953 55	40 g

## Threadsealing/threadlocking R+M



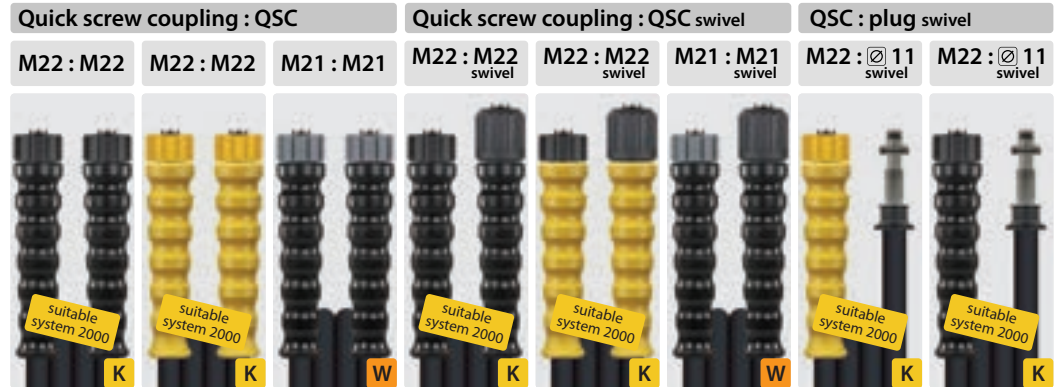
TYP	R+M Nr.	C	Ń	VPE	°C	Nm *	function
5353	954 535 302 2	green	1.8 gr.	20 pieces	-55 – +150 °C	40 - 50	high strength, for locking and sealing. High viscosity and high thixotropy, allows for higher tolerances

Symbols °C temperature Ń volume TYP type VPE packing unit C colour Ń weight





blufood® - food hose .....	150
CARWASH COMFORT - the new hose wonder in self-service washing bays .....	144-145
CARWASH COMFORT - you are invited to experience our blue hose wonder in DN 8! ....	146
Crimp cartridges suitable for different hose models .....	173
Crimp nipples .....	169-172
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High pressure hoses per metre .....	163-166
High pressure hoses per metre 1 ST .....	161
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High pressure hoses with smooth cover .....	129, 131, 133, 134, 137-140
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Hobby high pressure hoses .....	141
Hose bend restrictor .....	166-168
Hose bend restrictor in wave design - showing your company logo! .....	168
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PUReClean365+® - food hose .....	148-149
Quick screws .....	172
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Ultra high pressure hoses .....	156

High pressure hoses with *wrapped cover*Hoses with single wire braid and *wrapped cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	6	250 bar	150 °C	10 m	330 100 310		330 120 310	330 101 310		330 121 310		330 111 310
				15 m	330 100 315		330 120 315	330 101 315		330 121 315		330 111 315
				20 m	330 100 320		330 120 320	330 101 320		330 121 320		330 111 320
1SN	8	210 bar	150 °C	10 m	340 100 310	340 100 410	340 120 310	340 101 310	340 101 410	340 121 310	340 111 410	
				15 m	340 100 315	340 100 415	340 120 315	340 101 315	340 101 415	340 121 315	340 111 415	
				20 m	340 100 320	340 100 420	340 120 320	340 101 320	340 101 420	340 121 320	340 111 420	
1SN	8	315 bar	150 °C	10 m	343 100 310	343 100 410	343 120 310	343 101 310	343 101 410	343 121 310	343 111 410	
				15 m	343 100 315	343 100 415	343 120 315	343 101 315	343 101 415	343 121 315	343 111 415	
				20 m	343 100 320	343 100 420	343 120 320	343 101 320	343 101 420	343 121 320	343 111 420	
1SN	10	210 bar	150 °C	10 m	350 100 310	350 100 410	350 120 310	350 101 310	350 101 410	350 121 310		
				15 m	350 100 315	350 100 415	350 120 315	350 101 315	350 101 415	350 121 315		
				20 m	350 100 320	350 100 420	350 120 320	350 101 320	350 101 420	350 121 320		

Hoses with double wire braid and *wrapped cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SC	6	400 bar	150 °C	10 m	335 100 310		335 120 310	335 101 310		335 121 310		335 111 310
				15 m	335 100 315		335 120 315	335 101 315		335 121 315		335 111 315
				20 m	335 100 320		335 120 320	335 101 320		335 121 320		335 111 320
2SC	8	400 bar	150 °C	10 m	345 100 310	345 100 410	345 120 310	345 101 310	345 101 410	345 121 310	345 111 410	
				15 m	345 100 315	345 100 415	345 120 315	345 101 315	345 101 415	345 121 315	345 111 415	
				20 m	345 100 320	345 100 420	345 120 320	345 101 320	345 101 420	345 121 320	345 111 420	
2SC	10	400 bar	150 °C	10 m	355 100 310	355 100 410	355 120 310	355 101 310	355 101 410	355 121 310		
				15 m	355 100 315	355 100 415	355 120 315	355 101 315	355 101 415	355 121 315		
				20 m	355 100 320	355 100 420	355 120 320	355 101 320	355 101 420	355 121 320		

Hoses with single wire braid and *wrapped thick cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1ST	8	210 bar	150 °C	10 m	340 200 310	340 200 410	340 220 310	340 201 310	340 201 410	340 221 310	340 211 410	
				15 m	340 200 315	340 200 415	340 220 315	340 201 315	340 201 415	340 221 315	340 211 415	
				20 m	340 200 320	340 200 420	340 220 320	340 201 320	340 201 420	340 221 320	340 211 420	
1ST	10	210 bar	150 °C	10 m	350 200 310	350 200 410	350 220 310	350 201 310	350 201 410	350 221 310		
				15 m	350 200 315	350 200 415	350 220 315	350 201 315	350 201 415	350 221 315		
				20 m	350 200 320	350 200 420	350 220 320	350 201 320	350 201 420	350 221 320		

All fittings are made out of zinc-plated steel. The hoses are also available with stainless steel fittings.

Please be so kind as to state the following on your order: R+M Nr. plus number:

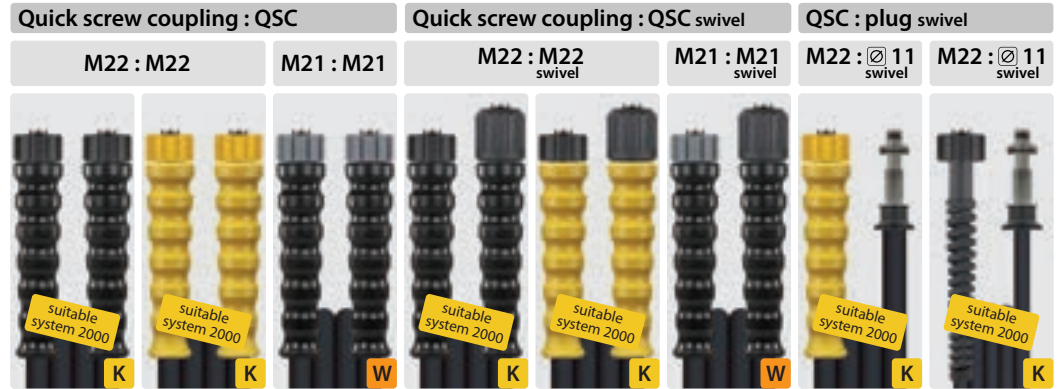
7 = plug and crimp stainless steel 8 = plug stainless steel 9 = plug, crimp and connection stainless steel

Our hose assemblies are durably marked on the crimp in accordance with EN 853 / EN 856 / EN 855.

Symbols  $\varnothing$  diameter DN nominal diameter P pressure °C temperature ↔ length TYP type



## High pressure hoses with *smooth cover*



### Hoses with single wire braid and *smooth cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
Flexy	6	300 bar	100 °C	10 m	390 000 210		390 020 210	390 001 210		390 021 210		390 011 210
				15 m	390 000 215		390 020 215	390 001 215		390 021 215		390 011 215
				20 m	390 000 220		390 020 220	390 001 220		390 021 220		390 011 220

### Hoses with single wire braid and *smooth cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	8	250 bar	150 °C	10 m	340 600 310	340 600 410	340 620 310	340 601 310	340 601 410	340 621 310	340 611 410	
				15 m	340 600 315	340 600 415	340 620 315	340 601 315	340 601 415	340 621 315	340 611 415	
				20 m	340 600 320	340 600 420	340 620 320	340 601 320	340 601 420	340 621 320	340 611 420	
1SN	10	210 bar	150 °C	10 m	350 600 310	350 600 410	350 620 310	350 601 310	350 601 410	350 621 310		
				15 m	350 600 315	350 600 415	350 620 315	350 601 315	350 601 415	350 621 315		
				20 m	350 600 320	350 600 420	350 620 320	350 601 320	350 601 420	350 621 320		

### Hoses with double wire braid and *smooth cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SN	8	400 bar	150 °C	10 m	345 600 310	345 600 410	345 620 310	345 601 310	345 601 410	345 621 310	345 611 410	
				15 m	345 600 315	345 600 415	345 620 315	345 601 315	345 601 415	345 621 315	345 611 415	
				20 m	345 600 320	345 600 420	345 620 320	345 601 320	345 601 420	345 621 320	345 611 420	
2SN	10	400 bar	150 °C	10 m	355 600 310	355 600 410	355 620 310	355 601 310	355 601 410	355 621 310		
				15 m	355 600 315	355 600 415	355 620 315	355 601 315	355 601 415	355 621 315		
				20 m	355 600 320	355 600 420	355 620 320	355 601 320	355 601 420	355 621 320		

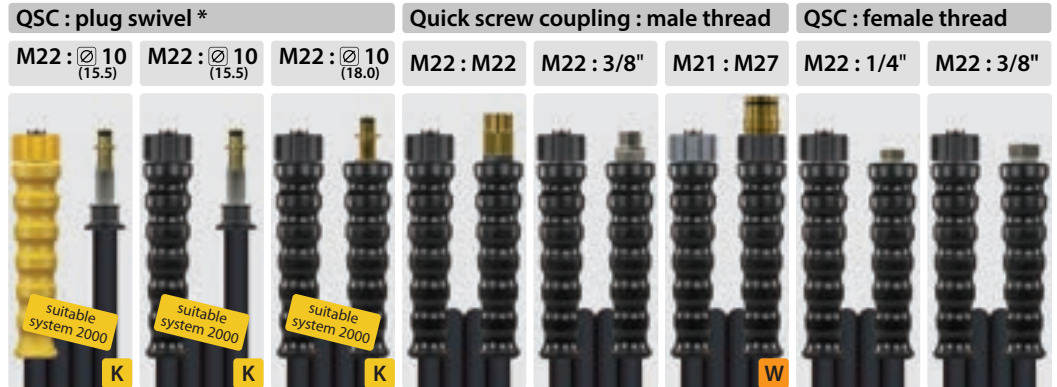
### With effect from today - high pressure hoses with smooth cover in our range!

We are talking about an excellent high pressure hose with a very smooth surface having all positive features with the Flexy high pressure hose in common. The high pressure hose with smooth cover is characterized by the following features:

- » a high grade of bending property by flexible structure and design
- » is easily cleaned due to the smooth cover
- » is easily pulled around any corner, does not get stuck!
- » a low abrasion due to reduced friction
- » particularly designed for the use on hose reels

The very clean, stain- and ozone-resistant, smooth surface can be easily cleaned and is branded with a durable printing which is vulcanized into the hose. By means of using a special rubber compound the hose's flexibility was considerably improved.



High pressure hoses with *wrapped cover*Hoses with single wire braid and *wrapped cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	6	250 bar	150 °C	10 m		330 110 310	330 128 310	330 104 310	330 103 310		330 112 310	330 113 310
				15 m		330 110 315	330 128 315	330 104 315	330 103 315		330 112 315	330 113 315
				20 m		330 110 320	330 128 320	330 104 320	330 103 320		330 112 320	330 113 320
1SN	8	210 bar	150 °C	10 m	340 110 410			340 104 310	340 103 310	340 194 310	340 112 310	340 113 310
				15 m	340 110 415			340 104 315	340 103 315	340 194 315	340 112 315	340 113 315
				20 m	340 110 420			340 104 320	340 103 320	340 194 320	340 112 320	340 113 320
1SN	8	315 bar	150 °C	10 m	343 110 410			343 104 310	343 103 310		343 112 310	343 113 310
				15 m	343 110 415			343 104 315	343 103 315		343 112 315	343 113 315
				20 m	343 110 420			343 104 320	343 103 320		343 112 320	343 113 320
1SN	10	210 bar	150 °C	10 m				350 104 310	350 103 310			350 113 310
				15 m				350 104 315	350 103 315			350 113 315
				20 m				350 104 320	350 103 320			350 113 320

Hoses with double wire braid and *wrapped cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SC	6	400 bar	150 °C	10 m		335 110 310	335 128 310	335 104 310	335 103 310		335 112 310	335 113 310
				15 m		335 110 315	335 128 315	335 104 315	335 103 315		335 112 315	335 113 315
				20 m		335 110 320	335 128 320	335 104 320	335 103 320		335 112 320	335 113 320
2SC	8	400 bar	150 °C	10 m	345 110 410			345 104 310	345 103 310		345 112 310	345 113 310
				15 m	345 110 415			345 104 315	345 103 315		345 112 315	345 113 315
				20 m	345 110 420			345 104 320	345 103 320		345 112 320	345 113 320
2SC	10	400 bar	150 °C	10 m				355 104 310	355 103 310			355 113 310
				15 m				355 104 315	355 103 315			355 113 315
				20 m				355 104 320	355 103 320			355 113 320

Hoses with single wire braid and *wrapped thick cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1ST	8	210 bar	150 °C	10 m	340 210 410			340 204 310	340 203 310		340 212 310	340 213 310
				15 m	340 210 415			340 204 315	340 203 315		340 212 315	340 213 315
				20 m	340 210 420			340 204 320	340 203 320		340 212 320	340 213 320
1ST	10	210 bar	150 °C	10 m				350 204 310	350 203 310			350 213 310
				15 m				350 204 315	350 203 315			350 213 315
				20 m				350 204 320	350 203 320			350 213 320

\* not to be used for patented Kärcher guns.

All fittings are made out of zinc-plated steel. The hoses are also available with stainless steel fittings.

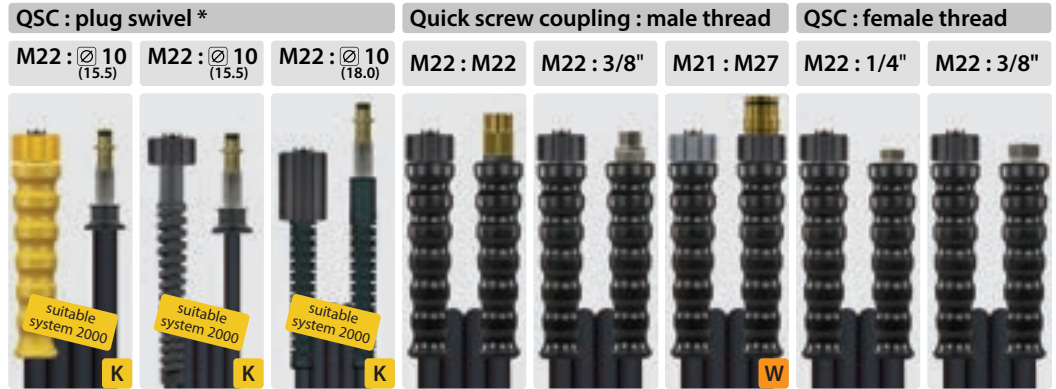
Please be so kind as to state the following on your order: R+M Nr. plus number:

7 = plug and crimp stainless steel    8 = plug stainless steel    9 = plug, crimp and connection stainless steel

Our hose assemblies are durably marked on the crimp in accordance with EN 853 / EN 856 / EN 855.

Symbols  $\varnothing$  diameter DN nominal diameter P pressure °C temperature ↔ length TYP type

## High pressure hoses with smooth cover



### Hoses with single wire braid and smooth cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
Flexy	6	300 bar	100 °C	10 m		390 010 210	390 028 210	390 004 210	390 003 210		390 012 210	390 013 210
				15 m		390 010 215	390 028 215	390 004 215	390 003 215		390 012 215	390 013 215
				20 m		390 010 220	390 028 220	390 004 220	390 003 220		390 012 220	390 013 220

### Hoses with single wire braid and smooth cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	8	250 bar	150 °C	10 m	340 610 410			340 604 310	340 603 310	340 694 310	340 612 310	340 613 310
				15 m	340 610 415			340 604 315	340 603 315	340 694 315	340 612 315	340 613 315
				20 m	340 610 420			340 604 320	340 603 320	340 694 320	340 612 320	340 613 320
1SN	10	210 bar	150 °C	10 m			350 604 310	350 603 310	350 694 310			350 613 310
				15 m			350 604 315	350 603 315	350 694 315			350 613 315
				20 m			350 604 320	350 603 320	350 694 320			350 613 320

### Hoses with double wire braid and smooth cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SN	8	400 bar	150 °C	10 m	345 610 410			345 604 310	345 603 310		345 612 310	345 613 310
				15 m	345 610 415			345 604 315	345 603 315		345 612 315	345 613 315
				20 m	345 610 420			345 604 320	345 603 320		345 612 320	345 613 320
2SN	10	400 bar	150 °C	10 m			355 604 310	355 603 310				355 613 310
				15 m			355 604 315	355 603 315				355 613 315
				20 m			355 604 320	355 603 320				355 613 320

### Plastic hoses with single fabric braid

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
Polya	6	160 bar	60 °C	8 m		460 010 208	460 028 208	460 004 208	460 003 208		460 012 208	460 013 208
				10 m		460 010 210	460 028 210	460 004 210	460 003 210		460 012 210	460 013 210
				15 m		460 010 215	460 028 215	460 004 215	460 003 215		460 012 215	460 013 215

## High pressure hoses with smooth cover - 500 bar



### Hoses with double wire braid and smooth cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
Flexy	6	500 bar	150 °C	10 m	338 000 310 9		424 300 010 9	424 301 010 9	424 344 010 9	
				15 m	338 000 315 9		424 300 015 9	424 301 015 9	424 344 015 9	
				20 m	338 000 320 9		424 300 020 9	424 301 020 9	424 344 020 9	

\* not to be used for patented Kärcher guns.

High pressure hoses with *wrapped cover*Hoses with single wire braid and *wrapped cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	6	250 bar	150 °C	10 m	330 174 310	330 176 310		330 152 310	330 154 310		330 142 310	330 144 310	
					330 174 315	330 176 315		330 152 315	330 154 315		330 142 315	330 144 315	
					330 174 320	330 176 320		330 152 320	330 154 320		330 142 320	330 144 320	
1SN	8	210 bar	150 °C	10 m	340 174 310	340 176 310		340 152 310	340 154 310		340 142 310	340 144 310	
					340 174 315	340 176 315		340 152 315	340 154 315		340 142 315	340 144 315	
					340 174 320	340 176 320		340 152 320	340 154 320		340 142 320	340 144 320	
1SN	8	315 bar	150 °C	10 m	343 174 310	343 176 310		343 152 310	343 154 310		343 142 310	343 144 310	
					343 174 315	343 176 315		343 152 315	343 154 315		343 142 315	343 144 315	
					343 174 320	343 176 320		343 152 320	343 154 320		343 142 320	343 144 320	
1SN	10	210 bar	150 °C	10 m		350 176 310			350 154 310	350 156 310	350 142 310	350 144 310	350 146 310
						350 176 315			350 154 315	350 156 315	350 142 315	350 144 315	350 146 315
						350 176 320			350 154 320	350 156 320	350 142 320	350 144 320	350 146 320
1SN	12	180 bar	150 °C	10 m			360 100 310			360 156 310			360 146 310
							360 100 315			360 156 315			360 146 315
							360 100 320			360 156 320			360 146 320

Hoses with double wire braid and *wrapped cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SC	6	400 bar	150 °C	10 m	335 174 310	335 176 310		335 152 310	335 154 310		335 142 310	335 144 310	
					335 174 315	335 176 315		335 152 315	335 154 315		335 142 315	335 144 315	
					335 174 320	335 176 320		335 152 320	335 154 320		335 142 320	335 144 320	
2SC	8	400 bar	150 °C	10 m	345 174 310	345 176 310		345 152 310	345 154 310		345 142 310	345 144 310	
					345 174 315	345 176 315		345 152 315	345 154 315		345 142 315	345 144 315	
					345 174 320	345 176 320		345 152 320	345 154 320		345 142 320	345 144 320	
2SC	10	400 bar	150 °C	10 m		355 176 310			355 154 310	355 156 310	355 142 310	355 144 310	355 146 310
						355 176 315			355 154 315	355 156 315	355 142 315	355 144 315	355 146 315
						355 176 320			355 154 320	355 156 320	355 142 320	355 144 320	355 146 320
2SC	12	300 bar	150 °C	10 m						365 156 310			365 146 310
										365 156 315			365 146 315
										365 156 320			365 146 320

Hoses with single wire braid and *wrapped thick cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	
1ST	8	210 bar	150 °C	10 m	340 274 310	340 276 310		340 252 310	340 254 310		340 242 310	340 244 310	
					340 274 315	340 276 315		340 252 315	340 254 315		340 242 315	340 244 315	
					340 274 320	340 276 320		340 252 320	340 254 320		340 242 320	340 244 320	
1ST	10	210 bar	150 °C	10 m		350 276 310			350 254 310	350 256 310	350 242 310	350 244 310	
						350 276 315			350 254 315	350 256 315	350 242 315	350 244 315	
						350 276 320			350 254 320	350 256 320	350 242 320	350 244 320	

Our hose assemblies are durably marked on the crimp in accordance with EN 853 / EN 856 / EN 855.

Symbols DN nominal diameter P pressure °C temperature ↔ length TYP type

## High pressure hoses with *smooth* cover



### Hoses with single wire braid and *smooth* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
Flexy	6	300 bar	100 °C	10 m	390 074 210	390 076 210		390 052 210	390 054 210		390 042 210	390 044 210
					390 074 215	390 076 215		390 052 215	390 054 215		390 042 215	390 044 215
					390 074 220	390 076 220		390 052 220	390 054 220		390 042 220	390 044 220

### Hoses with single wire braid and *smooth* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	8	250 bar	150 °C	10 m	340 674 310	340 676 310		340 652 310	340 654 310		340 642 310	340 644 310
					340 674 315	340 676 315		340 652 315	340 654 315		340 642 315	340 644 315
					340 674 320	340 676 320		340 652 320	340 654 320		340 642 320	340 644 320
1SN	10	210 bar	150 °C	10 m		350 676 310	350 668 310		350 654 310	350 656 310	350 642 310	350 644 310
						350 676 315	350 668 315		350 654 315	350 656 315	350 642 315	350 644 315
						350 676 320	350 668 320		350 654 320	350 656 320	350 642 320	350 644 320

### Hoses with double wire braid and *smooth* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SN	8	400 bar	150 °C	10 m	345 674 310	345 676 310		345 652 310	345 654 310		345 642 310	345 644 310
					345 674 315	345 676 315		345 652 315	345 654 315		345 642 315	345 644 315
					345 674 320	345 676 320		345 652 320	345 654 320		345 642 320	345 644 320
2SN	10	400 bar	150 °C	10 m		355 676 310	355 668 310		355 654 310	355 656 310	355 642 310	355 644 310
						355 676 315	355 668 315		355 654 315	355 656 315	355 642 315	355 644 315
						355 676 320	355 668 320		355 654 320	355 656 320	355 642 320	355 644 320

All fittings are made out of zinc-plated steel. The hoses are also available with stainless steel fittings.

Please be so kind as to state the following on your order: R+M Nr. plus number:

7 = plug and crimp stainless steel    8 = plug stainless steel    9 = plug, crimp and connection stainless steel

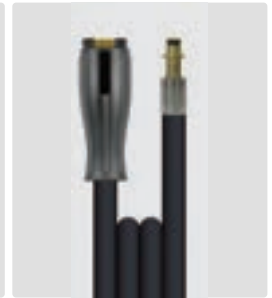
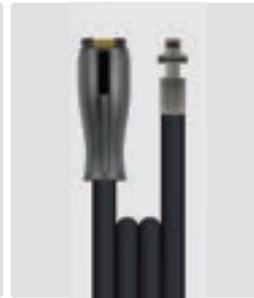
High pressure hoses with *smooth* cover

Quick screw couplings : quick screw couplings

QSC : plug swivel

QSC : plug

M22 : M22

M22 : M22  
swivelM22 :  $\varnothing$  11  
swivelM22 :  $\varnothing$  10  
(15.5)Hoses with single wire braid and *smooth* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
Flexy	6	300 bar	100 °C	10 m	390 000 321 0	390 001 121 0	390 011 321 0	390 010 321 0
				15 m	390 000 321 5	390 001 121 5	390 011 321 5	390 010 321 5
				20 m	390 000 322 0	390 001 122 0	390 011 322 0	390 010 322 0
1SN	8	250 bar	150 °C	10 m	340 600 321 0	340 601 121 0	340 611 321 0	340 610 321 0
				15 m	340 600 321 5	340 601 121 5	340 611 321 5	340 610 321 5
				20 m	340 600 322 0	340 601 122 0	340 611 322 0	340 610 322 0
1SN	8	315 bar	150 °C	10 m	343 600 321 0	343 601 121 0	343 611 321 0	343 610 321 0
				15 m	343 600 321 5	343 601 121 5	343 611 321 5	343 610 321 5
				20 m	343 600 322 0	343 601 122 0	343 611 322 0	343 610 322 0
1SN	10	210 bar	150 °C	10 m	350 600 321 0	350 601 121 0		
				15 m	350 600 321 5	350 601 121 5		
				20 m	350 600 322 0	350 601 122 0		

Hoses with double wire braid and *smooth* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SN	8	400 bar	150 °C	10 m	345 600 321 0	345 601 121 0	345 611 321 0	
				15 m	345 600 321 5	345 601 121 5	345 611 321 5	
				20 m	345 600 322 0	345 601 122 0	345 611 322 0	
2SN	10	400 bar	150 °C	10 m	355 600 321 0			
				15 m	355 600 321 5			
				20 m	355 600 322 0			

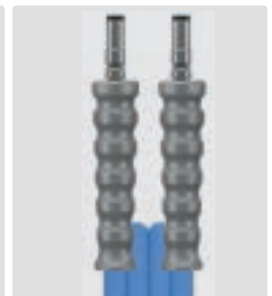
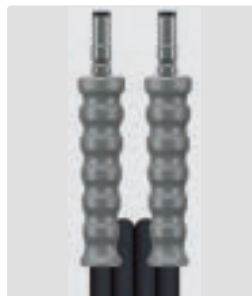
High pressure hoses with *wrapped* cover

plug : plug

ST-247 :  $\varnothing$  11 swivel

ST-247 : ST-247

stainless steel

Hoses with double wire braid and *wrapped* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SC	8	400 bar	150 °C	10 m	345 115 551 0	345 114 851 0	347 114 851 0	346 114 851 0
				15 m	345 115 551 5	345 114 851 5	347 114 851 5	346 114 851 5
				20 m	345 115 552 0	345 114 852 0	347 114 852 0	346 114 852 0

Our hose assemblies are durably marked on the crimp in accordance with EN 853 / EN 856 / EN 855.

Symbols  $\varnothing$  diameter DN nominal diameter P pressure °C temperature ↔ length TYP type



## High pressure hoses with *wrapped* cover and *smooth* cover



### Hoses with single wire braid and *wrapped* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	6	250 bar	150 °C	10 m	331 100 610	331 120 610	331 100 610 7	331 120 610 7	331 101 610	331 121 610	331 110 610	331 111 610
					331 100 615	331 120 615	331 100 615 7	331 120 615 7	331 101 615	331 121 615	331 110 615	331 111 615
					331 100 620	331 120 620	331 100 620 7	331 120 620 7	331 101 620	331 121 620	331 110 620	331 111 620
1SN	8	210 bar	150 °C	10 m	341 100 610	341 120 610	341 100 610 7	341 120 610 7	341 101 610	341 121 610	341 110 610	341 111 610
					341 100 615	341 120 615	341 100 615 7	341 120 615 7	341 101 615	341 121 615	341 110 615	341 111 615
					341 100 620	341 120 620	341 100 620 7	341 120 620 7	341 101 620	341 121 620	341 110 620	341 111 620
1SN	10	210 bar	150 °C	10 m	351 100 610	351 120 610	351 100 610 7	351 120 610 7	351 101 610	351 121 610		
					351 100 615	351 120 615	351 100 615 7	351 120 615 7	351 101 615	351 121 615		
					351 100 620	351 120 620	351 100 620 7	351 120 620 7	351 101 620	351 121 620		

### Hoses with single wire braid and *wrapped* thick cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1ST	8	210 bar	150 °C	10 m	341 200 610	341 220 610	341 200 610 7	341 220 610 7	341 201 610	341 221 610	341 210 610	341 211 610
					341 200 615	341 220 615	341 200 615 7	341 220 615 7	341 201 615	341 221 615	341 210 615	341 211 615
					341 200 620	341 220 620	341 200 620 7	341 220 620 7	341 201 620	341 221 620	341 210 620	341 211 620
1ST	10	210 bar	150 °C	10 m	351 200 610	351 220 610	351 200 610 7	351 220 610 7	351 201 610	351 221 610		
					351 200 615	351 220 615	351 200 615 7	351 220 615 7	351 201 615	351 221 615		
					351 200 620	351 220 620	351 200 620 7	351 220 620 7	351 201 620	351 221 620		

### Hoses with double wire braid and *wrapped* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SC	8	400 bar	150 °C	10 m	346 100 610	346 120 610	346 100 610 7	346 120 610 7	346 101 610	346 121 610	346 110 610	346 111 610
					346 100 615	346 120 615	346 100 615 7	346 120 615 7	346 101 615	346 121 615	346 110 615	346 111 615
					346 100 620	346 120 620	346 100 620 7	346 120 620 7	346 101 620	346 121 620	346 110 620	346 111 620
2SC	10	400 bar	150 °C	10 m	356 100 610	356 120 610	356 100 610 7	356 120 610 7	356 101 610	356 121 610		
					356 100 615	356 120 615	356 100 615 7	356 120 615 7	356 101 615	356 121 615		
					356 100 620	356 120 620	356 100 620 7	356 120 620 7	356 101 620	356 121 620		

### Hoses with single wire braid and *smooth* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	10	210 bar	150 °C	10 m	351 600 610	351 620 610	351 600 610 7	351 620 610 7	351 601 610	351 621 610		
					351 600 615	351 620 615	351 600 615 7	351 620 615 7	351 601 615	351 621 615		
					351 600 620	351 620 620	351 600 620 7	351 620 620 7	351 601 620	351 621 620		

### Hoses with double wire braid and *smooth* cover

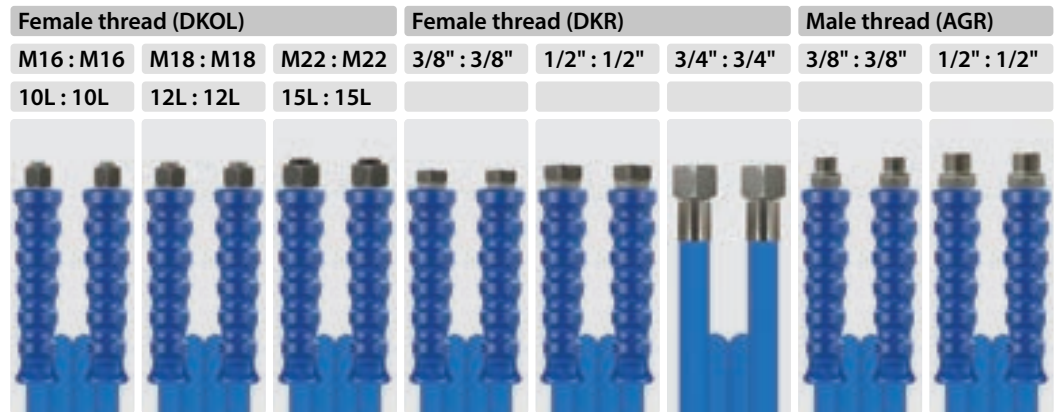
TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SN	8	400 bar	150 °C	10 m	346 600 610	346 620 610	346 600 610 7	346 620 610 7	346 601 610	346 621 610	346 610 610	346 611 610
					346 600 615	346 620 615	346 600 615 7	346 620 615 7	346 601 615	346 621 615	346 610 615	346 611 615
					346 600 620	346 620 620	346 600 620 7	346 620 620 7	346 601 620	346 621 620	346 610 620	346 611 620
2SN	10	400 bar	150 °C	10 m	356 600 610	356 620 610	356 600 610 7	356 620 610 7	356 601 610	356 621 610		
					356 600 615	356 620 615	356 600 615 7	356 620 615 7	356 601 615	356 621 615		
					356 600 620	356 620 620	356 600 620 7	356 620 620 7	356 601 620	356 621 620		

\* not to be used for patented Kärcher guns.

**All fittings are made out of zinc-plated steel. The hoses are also available with stainless steel fittings.**

Please be so kind as to state the following on your order: R+M Nr. plus number:

**7 = plug and crimp stainless steel   8 = plug stainless steel   9 = plug, crimp and connection stainless steel**

High pressure hoses with *wrapped cover*Hoses with single wire braid and *wrapped cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	6	250 bar	150 °C	10 m	331 174 610	331 176 610			331 156 610		331 144 610	
					331 174 615	331 176 615		331 154 615	331 156 615	331 144 615		
					331 174 620	331 176 620		331 154 620	331 156 620	331 144 620		
1SN	8	210 bar	150 °C	10 m	341 174 610	341 176 610					341 144 610	
					341 174 615	341 176 615		341 154 615		341 144 615		
					341 174 620	341 176 620		341 154 620		341 144 620		
1SN	10	210 bar	150 °C	10 m		351 176 610		351 154 610	351 156 610		351 144 610	351 146 610
						351 176 615		351 154 615	351 156 615		351 144 615	351 146 615
						351 176 620		351 154 620	351 156 620		351 144 620	351 146 620
1SN	12	180 bar	150 °C	10 m			361 100 610					361 146 610
							361 100 615			361 156 615		361 146 615
							361 100 620			361 156 620		361 146 620
1SN	16	130 bar	150 °C	20 m						371 158 020		
										371 158 025		
										371 158 030		

Hoses with single wire braid and *wrapped thick cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	
1ST	8	210 bar	150 °C	10 m	341 274 610	341 276 610		341 254 610			341 244 610	
					341 274 615	341 276 615		341 254 615		341 244 615		
					341 274 620	341 276 620		341 254 620		341 244 620		
1ST	10	210 bar	150 °C	10 m		351 276 610		351 254 610	351 256 610		351 244 610	351 246 610
						351 276 615		351 254 615	351 256 615		351 244 615	351 246 615
						351 276 620		351 254 620	351 256 620		351 244 620	351 246 620
1ST	12	180 bar	150 °C	10 m			361 200 610					361 246 610
							361 200 615			361 256 615		361 246 615
							361 200 620			361 256 620		361 246 620

Hoses with double wire braid and *wrapped cover*.

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	
2SC	8	400 bar	150 °C	10 m	346 174 610	346 176 610		346 154 610			346 144 610	
					346 174 615	346 176 615		346 154 615		346 144 615		
					346 174 620	346 176 620		346 154 620		346 144 620		
2SC	10	400 bar	150 °C	10 m		356 176 610		356 154 610	356 156 610		356 144 610	356 146 610
						356 176 615		356 154 615	356 156 615		356 144 615	356 146 615
						356 176 620		356 154 620	356 156 620		356 144 620	356 146 620
2SC	12	300 bar	150 °C	10 m			366 100 610					366 146 610
							366 100 615			366 156 615		366 146 615
							366 100 620			366 156 620		366 146 620

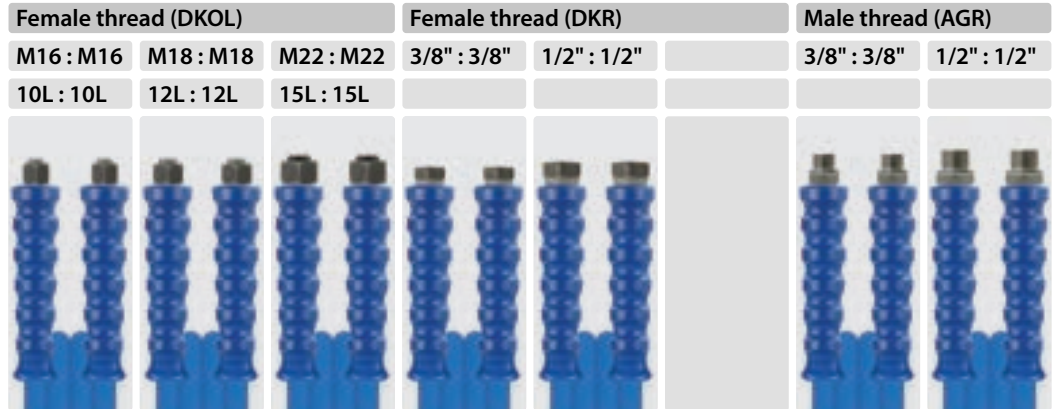
All fittings are made out of zinc-plated steel. The hoses are also available with stainless steel fittings.

Please be so kind as to state the following on your order: R+M Nr. plus number:

7 = plug and crimp stainless steel 8 = plug stainless steel 9 = plug, crimp and connection stainless steel

Symbols  $\varnothing$  diameter DN nominal diameter P pressure °C temperature ↔ length TYP type

## High pressure hoses with *smooth cover*



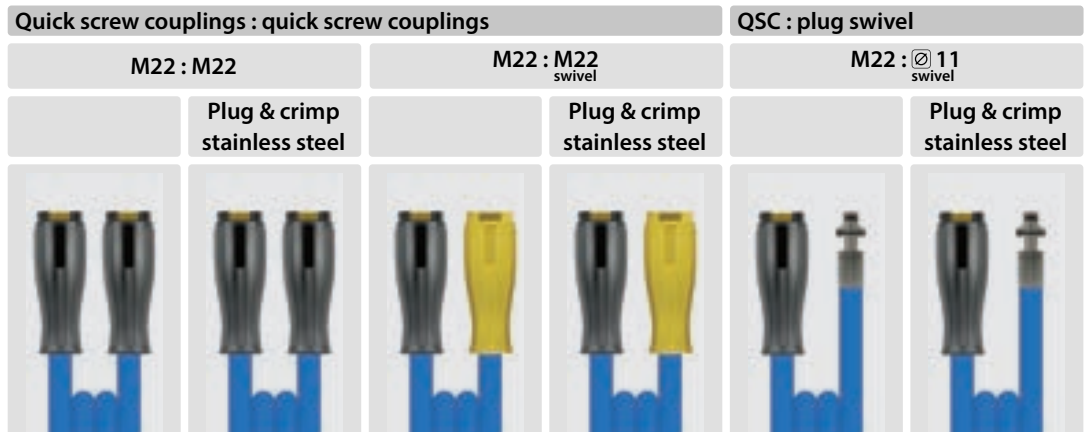
### Hoses with single wire braid and *smooth cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	10	210 bar	150 °C	10 m		351 676 610		351 654 610				351 646 610
				15 m		351 676 615		351 654 615				351 646 615
				20 m		351 676 620		351 654 620				351 646 620
1SN	12	180 bar	150 °C	10 m			361 668 610		361 656 610			361 646 610
				15 m			361 668 615		361 656 615			361 646 615
				20 m			361 668 620		361 656 620			361 646 620

### Hoses with double wire braid and *smooth cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SN	8	400 bar	150 °C	10 m	346 674 610	346 676 610		346 654 610			346 644 610	
				15 m	346 674 615	346 676 615		346 654 615			346 644 615	
				20 m	346 674 620	346 676 620		346 654 620			346 644 620	
2SN	10	400 bar	150 °C	10 m		356 676 610		356 654 610	356 656 610		356 644 610	356 646 610
				15 m		356 676 615		356 654 615	356 656 615		356 644 615	356 646 615
				20 m		356 676 620		356 654 620	356 656 620		356 644 620	356 646 620

## High pressure hoses with *smooth cover*



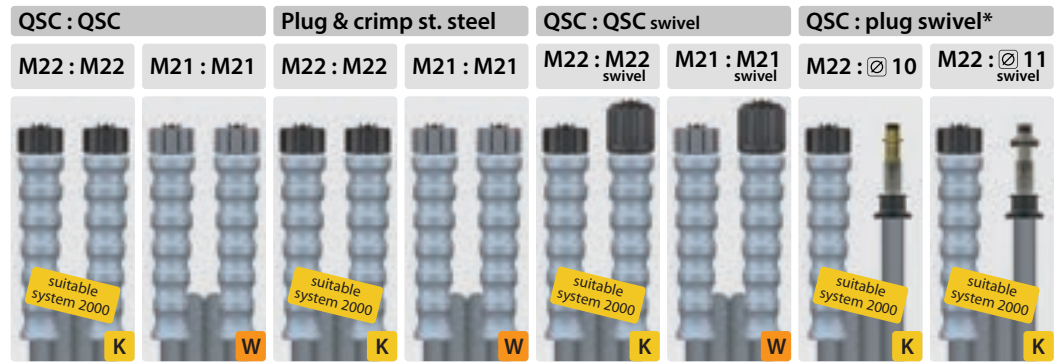
### Hoses with single wire braid and *smooth cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	10	210 bar	150 °C	10 m	351 600 321 0	351 600 321 07	351 601 121 0	351 601 121 07		
				15 m	351 600 321 5	351 600 321 57	351 601 121 5	351 601 121 57		
				20 m	351 600 322 0	351 600 322 07	351 601 122 0	351 601 122 07		

### Hoses with double wire braid and *smooth cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SN	8	400 bar	150 °C	10 m	346 600 321 0	346 600 321 07	346 601 121 0	346 601 121 07	346 611 321 0	346 611 321 07
				15 m	346 600 321 5	346 600 321 57	346 601 121 5	346 601 121 57	346 611 321 5	346 611 321 57
				20 m	346 600 322 0	346 600 322 07	346 601 122 0	346 601 122 07	346 611 322 0	346 611 322 07
2SN	10	400 bar	150 °C	10 m	356 600 321 0	356 600 321 07				
				15 m	356 600 321 5	356 600 321 57				
				20 m	356 600 322 0	356 600 322 07				

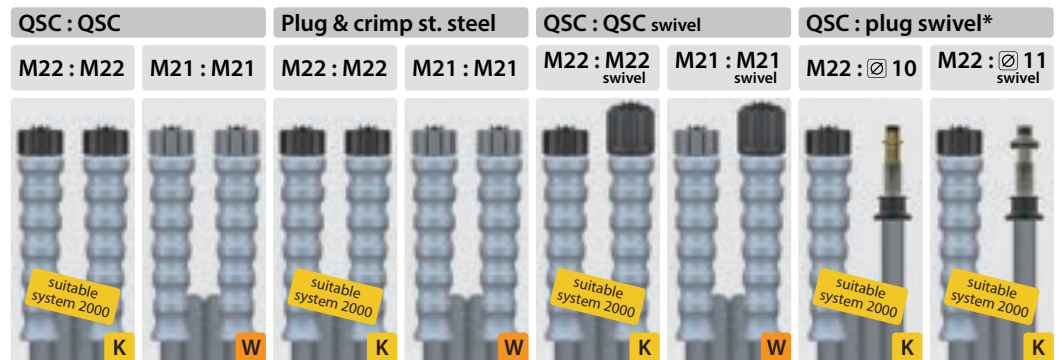
Our hose assemblies are durably marked on the crimp in accordance with EN 853 / EN 856 / EN 855.

High pressure hoses with *wrapped cover*Hoses with single wire braid and *wrapped cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	6	250 bar	150 °C	10 m	332 100 510	332 120 510	332 100 510 7	332 120 510 7	332 101 510	332 121 510	332 110 510	332 111 510
				15 m	332 100 515	332 120 515	332 100 515 7	332 120 515 7	332 101 515	332 121 515	332 110 515	332 111 515
				20 m	332 100 520	332 120 520	332 100 520 7	332 120 520 7	332 101 520	332 121 520	332 110 520	332 111 520
1SN	8	210 bar	150 °C	10 m	342 100 510	342 120 510	342 100 510 7	342 120 510 7	342 101 510	342 121 510	342 110 510	342 111 510
				15 m	342 100 515	342 120 515	342 100 515 7	342 120 515 7	342 101 515	342 121 515	342 110 515	342 111 515
				20 m	342 100 520	342 120 520	342 100 520 7	342 120 520 7	342 101 520	342 121 520	342 110 520	342 111 520
1SN	10	210 bar	150 °C	10 m	352 100 510	352 120 510	352 100 510 7	352 120 510 7	352 101 510	352 121 510		
				15 m	352 100 515	352 120 515	352 100 515 7	352 120 515 7	352 101 515	352 121 515		
				20 m	352 100 520	352 120 520	352 100 520 7	352 120 520 7	352 101 520	352 121 520		

Hoses with double wire braid and *wrapped cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SC	8	400 bar	150 °C	10 m	347 100 510	347 120 510	347 100 510 7	347 120 510 7	347 101 510	347 121 510	347 110 510	347 111 510
				15 m	347 100 515	347 120 515	347 100 515 7	347 120 515 7	347 101 515	347 121 515	347 110 515	347 111 515
				20 m	347 100 520	347 120 520	347 100 520 7	347 120 520 7	347 101 520	347 121 520	347 110 520	347 111 520
2SC	10	400 bar	150 °C	10 m	357 100 510	357 120 510	357 100 510 7	357 120 510 7	357 101 510	357 121 510		
				15 m	357 100 515	357 120 515	357 100 515 7	357 120 515 7	357 101 515	357 121 515		
				20 m	357 100 520	357 120 520	357 100 520 7	357 120 520 7	357 101 520	357 121 520		

High pressure hoses with *smooth cover*Hoses with double wire braid and *smooth cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SN	8	400 bar	150 °C	10 m	347 600 510	347 620 510	347 600 510 7	347 620 510 7	347 601 510	347 621 510	347 610 510	347 611 510
				15 m	347 600 515	347 620 515	347 600 515 7	347 620 515 7	347 601 515	347 621 515	347 610 515	347 611 515
				20 m	347 600 520	347 620 520	347 600 520 7	347 620 520 7	347 601 520	347 621 520	347 610 520	347 611 520
2SN	10	400 bar	150 °C	10 m	357 600 510	357 620 510	357 600 510 7	357 620 510 7	357 601 510	357 621 510		
				15 m	357 600 515	357 620 515	357 600 515 7	357 620 515 7	357 601 515	357 621 515		
				20 m	357 600 520	357 620 520	357 600 520 7	357 620 520 7	357 601 520	357 621 520		

\* not to be used for patented Kärcher guns.

Symbols ∅ diameter DN nominal diameter P pressure °C temperature ↔ length TYP type

## High pressure hoses with *wrapped* cover

Female thread (DKOL)		Female thread (DKR)		Male thread (AGR)			
M16 : M16	M18 : M18	3/8" : 3/8"	1/2" : 1/2"	3/8" : 3/8"	1/2" : 1/2"		
10L : 10L	12L : 12L						

### Hoses with single wire braid and *wrapped* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	6	250 bar	150 °C	10 m	332 174 510	332 176 510	332 154 510		332 144 510			
				15 m	332 174 515	332 176 515	332 154 515		332 144 515			
				20 m	332 174 520	332 176 520	332 154 520		332 144 520			
1SN	8	210 bar	150 °C	10 m	342 174 510	342 176 510	342 154 510		342 144 510			
				15 m	342 174 515	342 176 515	342 154 515		342 144 515			
				20 m	342 174 520	342 176 520	342 154 520		342 144 520			
1SN	10	210 bar	150 °C	10 m		352 176 510	352 154 510	352 156 510	352 144 510	352 146 510		
				15 m		352 176 515	352 154 515	352 156 515	352 144 515	352 146 515		
				20 m		352 176 520	352 154 520	352 156 520	352 144 520	352 146 520		

### Hoses with double wire braid and *wrapped* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SC	8	400 bar	150 °C	10 m	347 174 510	347 176 510	347 154 510		347 144 510			
				15 m	347 174 515	347 176 515	347 154 515		347 144 515			
				20 m	347 174 520	347 176 520	347 154 520		347 144 520			
2SC	10	400 bar	150 °C	10 m		357 176 510	357 154 510	357 156 510	357 144 510	357 146 510		
				15 m		357 176 515	357 154 515	357 156 515	357 144 515	357 146 515		
				20 m		357 176 520	357 154 520	357 156 520	357 144 520	357 146 520		

## High pressure hoses with *smooth* cover

Female thread (DKOL)		Female thread (DKR)		Male thread (AGR)			
M16 : M16	M18 : M18	3/8" : 3/8"	1/2" : 1/2"	3/8" : 3/8"	1/2" : 1/2"		
10L : 10L	12L : 12L						

### Hoses with double wire braid and smooth cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SN	8	400 bar	150 °C	10 m	347 674 510	347 676 510	347 654 510		347 644 510			
				15 m	347 674 515	347 676 515	347 654 515		347 644 515			
				20 m	347 674 520	347 676 520	347 654 520		347 644 520			
2SN	10	400 bar	150 °C	10 m		357 676 510	357 654 510	357 656 510	357 644 510	357 646 510		
				15 m		357 676 515	357 654 515	357 656 515	357 644 515	357 646 515		
				20 m		357 676 520	357 654 520	357 656 520	357 644 520	357 646 520		

Our hose assemblies are durably marked on the crimp in accordance with EN 853 / EN 856 / EN 855.

**All fittings are made out of zinc-plated steel.** The hoses are also available with stainless steel fittings.

Please be so kind as to state the following on your order: R+M Nr. plus number:

7 = plug and crimp stainless steel   8 = plug stainless steel   9 = plug, crimp and connection stainless steel

High pressure hoses with *smooth cover*

Quick screw couplings : quick screw couplings				QSC : plug swivel	
M22 : M22		M22 : M22 swivel		M22 : $\varnothing$ 11 swivel	
Plug & crimp stainless steel		Plug & crimp stainless steel		Plug & crimp stainless steel	

Hoses with double wire braid and *smooth cover*

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SN	8	400 bar	150 °C	10 m	347 600 321 0	347 600 321 07	347 601 121 0	347 601 121 07	347 611 321 0	347 611 321 07
				15 m	347 600 321 5	347 600 321 57	347 601 121 5	347 601 121 57	347 611 321 5	347 611 321 57
				20 m	347 600 322 0	347 600 322 07	347 601 122 0	347 601 122 07	347 611 322 0	347 611 322 07
2SN	10	400 bar	150 °C	10 m	357 600 321 0	357 600 321 07				
				15 m	357 600 321 5	357 600 321 57				
				20 m	357 600 322 0	357 600 322 07				

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## Hobby high pressure hoses

Quick screw coupling : male thread / plug

f thread

m thread



Hoses with single wire braid and *smooth* cover

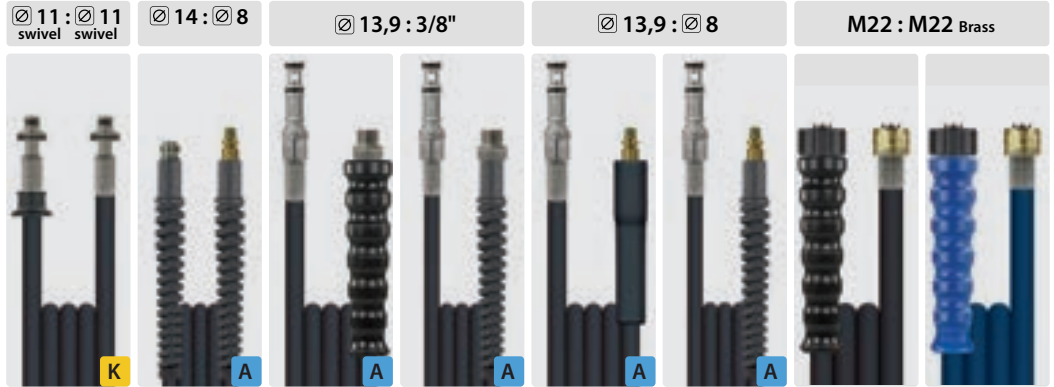
TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
Flexy	6	300 bar	100 °C	8 m	390 033 208	390 028 208		390 000 208	390 010 520 8	390 010 420 8	390 052 208	390 042 210
				9 m		390 028 209	390 010 209		390 010 520 9	390 010 420 9		
				10 m	390 033 210	390 028 210	390 010 210	390 000 210	390 010 521 0	390 010 421 0	390 052 210	
				15 m	390 033 215	390 028 215	390 010 215	390 000 215	390 010 521 5	390 010 421 5	390 052 215	390 042 215
				20 m	390 033 220	390 028 220	390 010 220	390 000 220	390 010 522 0	390 010 422 0	390 052 220	390 042 220

Plastic hoses with single fabric braid

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
Polya	6	160 bar	60 °C	8 m	460 033 208	460 028 208	460 010 208	460 000 208	460 010 520 8	460 010 420 8	460 052 208	460 042 208
				9 m		460 028 209	460 010 209		460 010 520 9	460 010 420 9		
				10 m	460 033 210	460 028 210	460 010 210	460 000 210	460 010 521 0	460 010 421 0	460 052 210	460 042 210
				15 m	460 033 215	460 028 215	460 010 215	460 000 215	460 010 521 5	460 010 421 5	460 052 215	460 042 215
				20 m				460 000 220	460 010 522 0	460 010 422 0		

Symbols  $\varnothing$  diameter DN nominal diameter P pressure °C temperature ↔ length TYP type

## High pressure hoses for hose reels



### Hoses with single wire braid and *smooth* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
Flexy	6	300 bar	100 °C	10 m	390 036 815	390 035 210		390 010 081 5		390 010 281 0		
				15 m		390 035 215				390 010 281 5		

### Hoses with single wire braid and *wrapped* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	6	250 bar	150 °C	10 m	330 136 810				330 110 281 0			
				15 m	330 136 815				330 110 281 5			
1SN	8	210 bar	150 °C	20 m							340 100 820 1	
				30 m							340 100 830 1	

### Hoses with double wire braid and *wrapped* cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SC	6	400 bar	150 °C	10 m	335 136 810							
				15 m	335 136 815							
				20 m	335 136 820							
2SC	8	400 bar	150 °C	10 m	345 136 810							
				15 m	345 136 815							
				20 m	345 136 820						345 100 820 1	346 100 820 1
				30 m							345 100 830 1	
				40 m							345 100 840 1	

Symbols  $\varnothing$  diameter DN nominal diameter P pressure °C temperature ↔ length TYP type

## High pressure hoses for hose reels



### Hoses with single wire braid and wrapped cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
1SN	6	250 bar	150 °C	15 m	330 113 381 5				330 107 815	
1SN	8	210 bar	150 °C	15 m	340 113 381 5					
1SN	8	250 bar	150 °C	15 m		340 601 815 1				
				20 m	R+M Nr.	340 601 820 1				

### Hose with single wire braid and smooth cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
flexy	6	300 bar	100 °C	10 m			390 007 810			
				15 m	390 013 381		390 007 815			

### Hoses with double wire braid and smooth cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SN	8	400 bar	150 °C	15 m		345 601 815 1			345 616 815	
				20 m		345 601 820 1			345 616 820	
				30 m					345 616 830	

### Hoses with double wire braid and wrapped cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SC	10	400 bar	150 °C	20 m						355 115 332 0

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**7** = plug and crimp stainless steel   **8** = plug stainless steel   **9** = plug, crimp and connection stainless steel

## CARWASH COMFORT - the new hose wonder in self-service washing bays

**Das Original**



- » High standard of easy and comfortable use in combination with spraying equipment, e.g. brush lance
- » Light weight, 92 g/m at DN 6. More than half in weight in comparison to an usual self-service hose
- » Chemically resistant, smooth interior made out of PES
- » Transparent surface made out of a thermoplastic elastomer, depending on colour: CCBL, CCRT, CCGR, CCGE, CCGN
- » Oil-, UV-, ozone-resistant and weatherproof
- » Flexible in case of low temperatures: -40 °C – +60 °C, -40 °F – +140 °F

- » High-tensile polyester reinforcing, working pressure of up to 200 bar with a fourfold guarantee that the hose does not burst
- » Outer diameter 12 mm at DN 6
- » Burst pressure > 800 bar

1/4" : 1/4"	3/8" : 3/8"	M14 : M14	M18 : M18	3/8" : 3/8"																																																																																																																																																						
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462 044 306		6.0 m																																																																																																																																																								

Our hose assemblies are durably marked on the crimp in accordance with EN 853 / EN 856 / EN 855.

## CARWASH COMFORT - the new hose wonder in self-service washing bays

1/4" : 1/4"



Female thread (DKR)

R+M Nr.	↔	length
463 052 703 5		3.5 m
463 052 703 7		3.7 m
463 052 704		4.0 m
463 052 704 2		4.2 m
463 052 704 5		4.5 m
463 052 704 7		4.7 m
463 052 705		5.0 m
463 052 705 5		5.5 m
463 052 706		6.0 m

3/8" : 3/8"



Female thread (DKR)

R+M Nr.	↔	length
463 054 703 5		3.5 m
463 054 703 7		3.7 m
463 054 704		4.0 m
463 054 704 2		4.2 m
463 054 704 5		4.5 m
463 054 704 7		4.7 m
463 054 705		5.0 m
463 054 705 5		5.5 m
463 054 706		6.0 m

M14 : M14



Female thread (DKOL)

R+M Nr.	↔	length
463 072 703 5		3.5 m
463 072 703 7		3.7 m
463 072 704		4.0 m
463 072 704 2		4.2 m
463 072 704 5		4.5 m
463 072 704 7		4.7 m
463 072 705		5.0 m
463 072 705 5		5.5 m
463 072 706		6.0 m

M18 : M18



Female thread (DKOL)

R+M Nr.	↔	length
463 076 703 5		3.5 m
463 076 703 7		3.7 m
463 076 704		4.0 m
463 076 704 2		4.2 m
463 076 704 5		4.5 m
463 076 704 7		4.7 m
463 076 705		5.0 m
463 076 705 5		5.5 m
463 076 706		6.0 m

3/8" : 3/8"



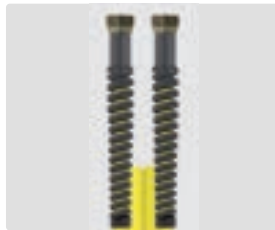
Male thread (AGR)

R+M Nr.	↔	length
463 044 703 5		3.5 m
463 044 703 7		3.7 m
463 044 704		4.0 m
463 044 704 2		4.2 m
463 044 704 5		4.5 m
463 044 704 7		4.7 m
463 044 705		5.0 m
463 044 705 5		5.5 m
463 044 706		6.0 m



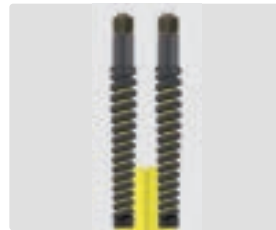
Female thread (DKR)

R+M Nr.	↔	length
464 052 303 5		3.5 m
464 052 303 7		3.7 m
464 052 304		4.0 m
464 052 304 2		4.2 m
464 052 304 5		4.5 m
464 052 304 7		4.7 m
464 052 305		5.0 m
464 052 305 5		5.5 m
464 052 306		6.0 m



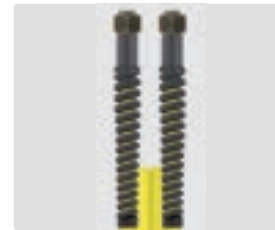
Female thread (DKR)

R+M Nr.	↔	length
464 054 303 5		3.5 m
464 054 303 7		3.7 m
464 054 304		4.0 m
464 054 304 2		4.2 m
464 054 304 5		4.5 m
464 054 304 7		4.7 m
464 054 305		5.0 m
464 054 305 5		5.5 m
464 054 306		6.0 m



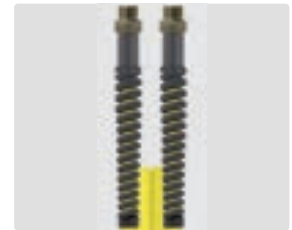
Female thread (DKOL)

R+M Nr.	↔	length
464 072 303 5		3.5 m
464 072 303 7		3.7 m
464 072 304		4.0 m
464 072 304 2		4.2 m
464 072 304 5		4.5 m
464 072 304 7		4.7 m
464 072 305		5.0 m
464 072 305 5		5.5 m
464 072 306		6.0 m



Female thread (DKOL)

R+M Nr.	↔	length
464 076 303 5		3.5 m
464 076 303 7		3.7 m
464 076 304		4.0 m
464 076 304 2		4.2 m
464 076 304 5		4.5 m
464 076 304 7		4.7 m
464 076 305		5.0 m
464 076 305 5		5.5 m
464 076 306		6.0 m



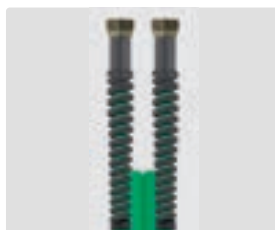
Male thread (AGR)

R+M Nr.	↔	length
464 044 303 5		3.5 m
464 044 303 7		3.7 m
464 044 304		4.0 m
464 044 304 2		4.2 m
464 044 304 5		4.5 m
464 044 304 7		4.7 m
464 044 305		5.0 m
464 044 305 5		5.5 m
464 044 306		6.0 m



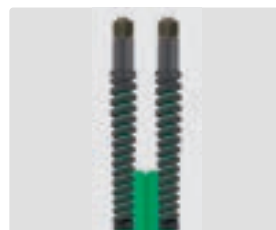
Female thread (DKR)

R+M Nr.	↔	length
465 052 303 5		3.5 m
465 052 303 7		3.7 m
465 052 304		4.0 m
465 052 304 2		4.2 m
465 052 304 5		4.5 m
465 052 304 7		4.7 m
465 052 305		5.0 m
465 052 305 5		5.5 m
465 052 306		6.0 m



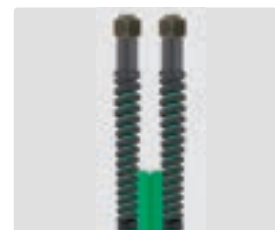
Female thread (DKR)

R+M Nr.	↔	length
465 054 303 5		3.5 m
465 054 303 7		3.7 m
465 054 304		4.0 m
465 054 304 2		4.2 m
465 054 304 5		4.5 m
465 054 304 7		4.7 m
465 054 305		5.0 m
465 054 305 5		5.5 m
465 054 306		6.0 m



Female thread (DKOL)

R+M Nr.	↔	length
465 072 303 5		3.5 m
465 072 303 7		3.7 m
465 072 304		4.0 m
465 072 304 2		4.2 m
465 072 304 5		4.5 m
465 072 304 7		4.7 m
465 072 305		5.0 m
465 072 305 5		5.5 m
465 072 306		6.0 m



Female thread (DKOL)

R+M Nr.	↔	length
465 076 303 5		3.5 m
465 076 303 7		3.7 m
465 076 304		4.0 m
465 076 304 2		4.2 m
465 076 304 5		4.5 m
465 076 304 7		4.7 m
465 076 305		5.0 m
465 076 305 5		5.5 m
465 076 306		6.0 m






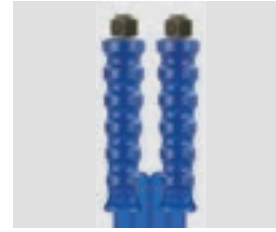











Male thread (AGR)

R+M Nr.	↔	length
465 044 303 5		3.5 m
465 044 303 7		3.7 m
465 044 304		4.0 m
465 044 304 2		4.2 m
465 044 304 5		4.5 m
465 044 304 7		4.7 m
465 044 305		5.0 m
465 044 305 5		5.5 m
465 044 306		6.0 m

Symbols ↔ length

## CARWASH COMFORT - you are invited to experience our blue hose wonder in DN 8!

High-tensile polyester reinforcing, working pressure of up to 200 bar. DN 8. -40 °C – +60 °C, -40 °F – +140 °F

1/4" : 1/4"		3/8" : 3/8"		M14 : M14		M18 : M18		3/8" : 3/8"	
									
Female thread (DKR)		Female thread (DKR)		Female thread (DKOL)		Female thread (DKOL)		Male thread (AGR)	
<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>
471 052 603 5	3.5 m	471 054 603 5	3.5 m	471 072 603 5	3.5 m	471 076 603 5	3.5 m	471 044 603 5	3.5 m
471 052 603 7	3.7 m	471 054 603 7	3.7 m	471 072 603 7	3.7 m	471 076 603 7	3.7 m	471 044 603 7	3.7 m
471 052 604	4.0 m	471 054 604	4.0 m	471 072 604	4.0 m	471 076 604	4.0 m	471 044 604	4.0 m
471 052 604 2	4.2 m	471 054 604 2	4.2 m	471 072 604 2	4.2 m	471 076 604 2	4.2 m	471 044 604 2	4.2 m
471 052 604 5	4.5 m	471 054 604 5	4.5 m	471 072 604 5	4.5 m	471 076 604 5	4.5 m	471 044 604 5	4.5 m
471 052 604 7	4.7 m	471 054 604 7	4.7 m	471 072 604 7	4.7 m	471 076 604 7	4.7 m	471 044 604 7	4.7 m
471 052 605	5.0 m	471 054 605	5.0 m	471 072 605	5.0 m	471 076 605	5.0 m	471 044 605	5.0 m
471 052 605 5	5.5 m	471 054 605 5	5.5 m	471 072 605 5	5.5 m	471 076 605 5	5.5 m	471 044 605 5	5.5 m
471 052 606	6.0 m	471 054 606	6.0 m	471 072 606	6.0 m	471 076 606	6.0 m	471 044 606	6.0 m
									
Female thread (DKR)		Female thread (DKR)		Female thread (DKOL)		Female thread (DKOL)		Male thread (AGR)	
<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>
471 405 230 35	3.5 m	471 405 430 35	3.5 m	471 407 230 35	3.5 m	471 407 630 35	3.5 m	471 404 430 35	3.5 m
471 405 230 37	3.7 m	471 405 430 37	3.7 m	471 407 230 37	3.7 m	471 407 630 37	3.7 m	471 404 430 37	3.7 m
471 405 230 4	4.0 m	471 405 430 4	4.0 m	471 407 230 4	4.0 m	471 407 630 4	4.0 m	471 404 430 4	4.0 m
471 405 230 42	4.2 m	471 405 430 42	4.2 m	471 407 230 42	4.2 m	471 407 630 42	4.2 m	471 404 430 42	4.2 m
471 405 230 45	4.5 m	471 405 430 45	4.5 m	471 407 230 45	4.5 m	471 407 630 45	4.5 m	471 404 430 45	4.5 m
471 405 230 47	4.7 m	471 405 430 47	4.7 m	471 407 230 47	4.7 m	471 407 630 47	4.7 m	471 404 430 47	4.7 m
471 405 230 5	5.0 m	471 405 430 5	5.0 m	471 407 230 5	5.0 m	471 407 630 5	5.0 m	471 404 430 5	5.0 m
471 405 230 55	5.5 m	471 405 430 55	5.5 m	471 407 230 55	5.5 m	471 407 630 55	5.5 m	471 404 430 55	5.5 m
471 405 230 6	6.0 m	471 405 430 6	6.0 m	471 407 230 6	6.0 m	471 407 630 6	6.0 m	471 404 430 6	6.0 m
									
Female thread (DKR)		Female thread (DKR)		Female thread (DKOL)		Female thread (DKOL)		Male thread (AGR)	
<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>
471 205 230 35	3.5 m	471 205 430 35	3.5 m	471 207 230 35	3.5 m	471 207 630 35	3.5 m	471 204 430 35	3.5 m
471 205 230 37	3.7 m	471 205 430 37	3.7 m	471 207 230 37	3.7 m	471 207 630 37	3.7 m	471 204 430 37	3.7 m
471 205 230 4	4.0 m	471 205 430 4	4.0 m	471 207 230 4	4.0 m	471 207 630 4	4.0 m	471 204 430 4	4.0 m
471 205 230 42	4.2 m	471 205 430 42	4.2 m	471 207 230 42	4.2 m	471 207 630 42	4.2 m	471 204 430 42	4.2 m
471 205 230 45	4.5 m	471 205 430 45	4.5 m	471 207 230 45	4.5 m	471 207 630 45	4.5 m	471 204 430 45	4.5 m
471 205 230 47	4.7 m	471 205 430 47	4.7 m	471 207 230 47	4.7 m	471 207 630 47	4.7 m	471 204 430 47	4.7 m
471 205 230 5	5.0 m	471 205 430 5	5.0 m	471 207 230 5	5.0 m	471 207 630 5	5.0 m	471 204 430 5	5.0 m
471 205 230 55	5.5 m	471 205 430 55	5.5 m	471 207 230 55	5.5 m	471 207 630 55	5.5 m	471 204 430 55	5.5 m
471 205 230 6	6.0 m	471 205 430 6	6.0 m	471 207 230 6	6.0 m	471 207 630 6	6.0 m	471 204 430 6	6.0 m



## High pressure hoses for self-service washing bays

Hoses with single wire braid and wrapped cover. 1SN. Nominal diameter 6. Max. 210 bar /150 °C

1/4" : 1/4"



Female thread (DKR)

R+M Nr.	↔	length
331 152 803 5		3.5 m
331 152 804 2		4.2 m
331 152 805		5.0 m

3/8" : 3/8"



Female thread (DKR)

R+M Nr.	↔	length
331 154 803 5		3.5 m
331 154 804 2		4.2 m
331 154 805		5.0 m

1/4" : 1/4"



Female thread (DKR)

R+M Nr.	↔	length
331 152 603 5		3.5 m
331 152 604		4.0 m
331 152 604 2		4.2 m
331 152 605 5		5.5 m

M14 : M14



Female thread (DKOL) VA


R+M Nr.	↔	length
331 172 803 59		3.5 m
331 172 804 29		4.2 m
331 172 804 79		4.7 m

M14 : M14



Female thread (DKOL)

R+M Nr.	↔	length
331 172 803 5		3.5 m
331 172 804		4.0 m
331 172 805		5.0 m

M22 : 10  swivel



QSC - swivel disc plug



QSC - swivel disc plug

Further high pressure hoses suitable for self-service washing bays are available on request.

R+M Nr.	↔	length
330 117 303 5		3.5 m
330 117 304		4.0 m
330 117 304 2		4.2 m
330 117 310		10.0 m

R+M Nr.	↔	length
331 117 303 5		3.5 m
331 117 304		4.0 m
331 117 304 2		4.2 m
331 117 305		5.0 m
331 117 310		10.0 m

Symbols  length

### PURClean365+® - food hose

PURClean365+® - Food hose according to (EG) 1935/2004, (EU) 10/2011 and (EG) 2023/2006. Designed for industrial foam applications

- » Field of application: foam hose and pre-spraying hose in the food industry. Suitable for contact with liquid food products
- » Suitable for water and water mixes of usual cleaning detergents
- » PVC hose with three layers and a smooth surface
- » Increased 1-layer rot-proof textile mesh.
- » **About 20 % lighter and more flexible than comparable hose types**



#### PURClean365+® 40

Female thread DKR 1/2"

Male thread (AGR) 1/2"

-20 °C - +70 °C. Fittings stainless steel



R+M Nr.	↔	
476 056 602 59	2.5 m	
476 056 610 9	10.0 m	
476 056 615 9	15.0 m	
476 056 620 9	20.0 m	
476 056 625 9	25.0 m	
476 056 630 9	30.0 m	
476 056 635 9	35.0 m	
476 056 640 9	40.0 m	

R+M Nr.	↔	
476 046 602 59	2.5 m	
476 046 610 9	10.0 m	
476 046 615 9	15.0 m	
476 046 620 9	20.0 m	
476 046 625 9	25.0 m	
476 046 630 9	30.0 m	
476 046 635 9	35.0 m	
476 046 640 9	40.0 m	

#### PURClean365+® 100

Female thread DKR 1/2"

Male thread (AGR) 1/2"

-20 °C - +100 °C. Fittings stainless steel



R+M Nr.	↔	
477 056 602 59	2.5 m	
477 056 610 9	10.0 m	
477 056 615 9	15.0 m	
477 056 620 9	20.0 m	
477 056 625 9	25.0 m	
477 056 630 9	30.0 m	
477 056 635 9	35.0 m	
477 056 640 9	40.0 m	

R+M Nr.	↔	
477 046 602 59	2.5 m	
477 046 610 9	10.0 m	
477 046 615 9	15.0 m	
477 046 620 9	20.0 m	
477 046 625 9	25.0 m	
477 046 630 9	30.0 m	
477 046 635 9	35.0 m	
477 046 640 9	40.0 m	

#### PURClean365+® 40 per metre

R+M Nr.	DN	↔	⏏	P 20 °C	P 70 °C	BP 20 °C	⊞
303 660 40	12	10 - 100 m	4.5	100 bar	45 bar	≥ 250 bar	0.25 kg

#### PURClean365+® 100 per metre

R+M Nr.	DN	↔	⏏	P 20 °C	P 100 °C	BP 20 °C	⊞
303 661 00	12	10 - 100 m	4.5	40 bar	18 bar	≥ 200 bar	0.25 kg

#### PURClean365+® 40



R+M Nr.	↔	
476 356 402 59	2.5 m	
476 356 410 9	10.0 m	
476 356 415 9	15.0 m	
476 356 420 9	20.0 m	
476 356 425 9	25.0 m	
476 356 430 9	30.0 m	
476 356 435 9	35.0 m	
476 356 440 9	40.0 m	

R+M Nr.	↔	
476 346 402 59	2.5 m	
476 346 410 9	10.0 m	
476 346 415 9	15.0 m	
476 346 420 9	20.0 m	
476 346 425 9	25.0 m	
476 346 430 9	30.0 m	
476 346 435 9	35.0 m	
476 346 440 9	40.0 m	

#### PURClean365+® 40 per metre

R+M Nr.	DN	↔	⏏	P 20 °C	P 70 °C	BP 20 °C	⊞
303 660 41	12	10 - 100 m	4.5	100 bar	45 bar	≥ 250 bar	0.25 kg

Symbols ↔ length DN nominal diameter P pressure ⏏ wall thickness BP burst pressure ⊞ weight

## PURClean365+® - food hose

### PURClean365+® 40

#### Female thread DKR 1/2"

#### Male thread (AGR) 1/2"

#### Female thread DKR 1/2"

#### Male thread (AGR) 1/2"

-20 °C - +70 °C. Fittings stainless steel

-20 °C - +70 °C. Fittings stainless steel



R+M Nr.	↔	↔
476 456 202 59	2.5 m	
476 456 210 9	10.0 m	
476 456 215 9	15.0 m	
476 456 220 9	20.0 m	
476 456 225 9	25.0 m	
476 456 230 9	30.0 m	
476 456 235 9	35.0 m	
476 456 240 9	40.0 m	

R+M Nr.	↔	↔
476 446 202 59	2.5 m	
476 446 210 9	10.0 m	
476 446 215 9	15.0 m	
476 446 220 9	20.0 m	
476 446 225 9	25.0 m	
476 446 230 9	30.0 m	
476 446 235 9	35.0 m	
476 446 240 9	40.0 m	

R+M Nr.	↔	↔
476 256 702 59	2.5 m	
476 256 710 9	10.0 m	
476 256 715 9	15.0 m	
476 256 720 9	20.0 m	
476 256 725 9	25.0 m	
476 256 730 9	30.0 m	
476 256 735 9	35.0 m	
476 256 740 9	40.0 m	

R+M Nr.	↔	↔
476 246 702 59	2.5 m	
476 246 710 9	10.0 m	
476 246 715 9	15.0 m	
476 246 720 9	20.0 m	
476 246 725 9	25.0 m	
476 246 730 9	30.0 m	
476 246 735 9	35.0 m	
476 246 740 9	40.0 m	

#### PURClean365+® 40 per metre

#### PURClean365+® 40 per metre

R+M Nr.	DN	↔	↔	P 20 °C	P 70 °C	BP 20 °C	⊠
303 660 42	12	10 - 100 m	4.5	100 bar	45 bar	≥ 250 bar	0.25 kg

R+M Nr.	DN	↔	↔	P 20 °C	P 70 °C	BP 20 °C	⊠
303 660 43	12	10 - 100 m	4.5	100 bar	45 bar	≥ 250 bar	0.25 kg

#### Screw fittings for PURClean365+®



1/2" M with 60° cone. Stainless steel.  
Max. 50 bar

1/2" F with 60° cone. Stainless steel.  
Max. 50 bar

1/2" F. Stainless steel. Max. 50 bar. Flat sealing

R+M Nr.	DN
329 412 129	12

R+M Nr.	DN
329 512 129	12

R+M Nr.	DN
329 612 129	12

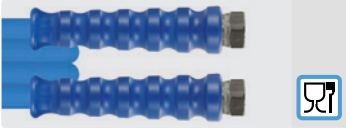
## blufood® - food hose

blufood® - Food hose according to (EC)2002/72, (EU) 10/2011, (EG) 1935/2004 and (EG) 2023/2006. Designed for industrial foam applications

- » Field of application: foam hose and pre-spraying hose in the food industry. Suitable for contact with liquid food products
- » Suitable for water and water mixes of usual cleaning detergents
- » PVC hose with five layers and a smooth surface

- » Reinforcing by twofold textile meshwork
- » -20 °C - +70 °C

## Female thread DKR 1/2"



Fittings stainless steel

R+M Nr.	↔
475 056 602 59	2.5 m
475 056 610 9	10.0 m
475 056 615 9	15.0 m
475 056 620 9	20.0 m
475 056 625 9	25.0 m
475 056 630 9	30.0 m
475 056 635 9	35.0 m
475 056 640 9	40.0 m

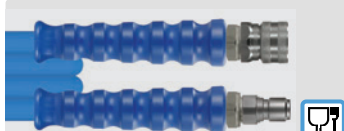
## Male thread (AGR) 1/2"



Fittings stainless steel

R+M Nr.	↔
475 046 602 59	2.5 m
475 046 610 9	10.0 m
475 046 615 9	15.0 m
475 046 620 9	20.0 m
475 046 625 9	25.0 m
475 046 630 9	30.0 m
475 046 635 9	35.0 m
475 046 640 9	40.0 m

## ST-3100 Coupling : Plug



Coupling ST-3100 : plug ST-3100

R+M Nr.	↔
475 012 262 09	20 m
475 012 262 59	25 m
475 012 263 09	30 m

## blufood® per metre

R+M Nr.	DN	↔	⊗	P 20 °C	P 70 °C	BP 20 °C	⊗
303 70	12	10 - 100 m	5	50 bar	30 bar	≥ 240 bar	0.32 kg
303 700 019	19	10 - 60 m	6	40 bar	15 bar	≥ 200 bar	0.61 kg

Made out of plastics intended to come into contact with foodstuffs according to Regulation (EC) No. 1935/2004. Especially designed for applications in the food industry.



## Screw fittings for blufood®



1/2" M with 60° cone. Stainless steel.  
Max. 50 bar

R+M Nr.	DN
329 012 129	12



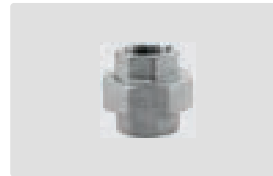
1/2" F with 60° cone. Stainless steel.  
Max. 50 bar

R+M Nr.	DN
329 112 129	12



1/2" F. Stainless steel.  
Max. 50 bar.  
Flat sealing

R+M Nr.	DN
329 312 129	12



Detachable fitting.  
3/4" F. Stainless steel.  
Max. 15 bar

R+M Nr.	DN
574 734 009	19



Hose barb 3/4" M.  
60° cone. Stainless steel.  
Max. 15 bar

R+M Nr.	DN
711 341 909	19

## Fittings for blufood®

## Hose clamps

## Heavy duty clamp

Heavy duty clamp completely stainless steel X5CrNi1810. According to DIN 1.4301/AISI 304



Clamp with hexagon bolt. W4. ⊥ 20 mm

R+M Nr.	VPE	⊗	R+M Nr.	VPE	⊗
736 029 401	1	29 - 31 mm	736 032 401	1	32 - 35 mm

Symbols ↔ length DN nominal diameter P pressure ⊗ wall thickness BP burst pressure ⊗ weight ⊗ diameter VPE packing unit

## Foodjet - food hose with textile meshwork

**Foodjet** - High pressure hose according to DIN EN 854. Particularly resistant to animal and poultry fats

- » Field of application: cleaning hose designed for the poultry processing industry
- » Suitable for: oil, water, water-in-oil emulsion and water mixes with up to 50 % detergent

- » Surface synthetic rubber. Particularly abrasion-, oil-, ozone-resistant and weatherproof.
- » Interior synthetic, oil-resistant rubber
- » 1 tight textile meshwork
- » **Max. 80 bar.** Burst pressure > 240 bar. -40 °C - +150 °C

Female thread DKR

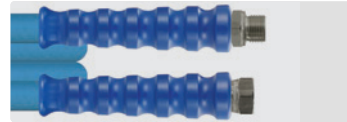
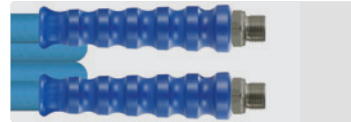
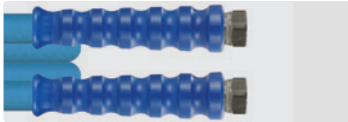
Male thread (AGR)

Male thread (AGR) : DKR

Foodjet per metre

1/2" : 1/2"

DN 12



Fittings stainless steel

Fittings stainless steel

Fittings stainless steel

R+M Nr.	
303 60	10 - 95 m

R+M Nr.	
490 056 002 59	2.5 m
490 056 010 9	10.0 m
490 056 015 9	15.0 m
490 056 020 9	20.0 m
490 056 025 9	25.0 m
490 056 030 9	30.0 m
490 056 035 9	35.0 m
490 056 040 9	40.0 m

R+M Nr.	
490 046 002 59	2.5 m
490 046 010 9	10.0 m
490 046 015 9	15.0 m
490 046 020 9	20.0 m
490 046 025 9	25.0 m
490 046 030 9	30.0 m
490 046 035 9	35.0 m
490 046 040 9	40.0 m

R+M Nr.	
490 057 002 59	2.5 m
490 057 610 9	10.0 m
490 057 615 9	15.0 m
490 057 620 9	20.0 m
490 057 625 9	25.0 m
490 057 630 9	30.0 m
490 057 635 9	35.0 m
490 057 640 9	40.0 m

## Foodjet 1500 - food hose with textile meshwork

**Foodjet 1500** - High pressure hose according to DIN EN 854. Particularly resistant to animal and poultry fats

- » Field of application: cleaning hose designed for the poultry processing industry
- » Suitable for: oil, water, water-in-oil emulsion and water mixes with up to 50 % detergent

- » Surface synthetic rubber. Particularly abrasion-, oil-, ozone-resistant and weatherproof.
- » Interior synthetic, oil-resistant rubber
- » 1 tight textile meshwork
- » **Max. 125 bar.** Burst pressure > 375 bar. -40 °C - +150 °C

Female thread DKR

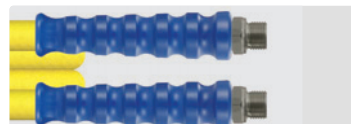
Male thread (AGR)

Male thread (AGR) : DKR

Foodjet 1500 per metre

1/2" : 1/2"

DN 12



Fittings stainless steel

Fittings stainless steel

Fittings stainless steel

R+M Nr.	
303 601 500	70 - 100 m

R+M Nr.	
490 445 660 259	2.5 m
490 445 661 09	10.0 m
490 445 661 59	15.0 m
490 445 662 09	20.0 m
490 445 662 59	25.0 m
490 445 663 09	30.0 m
490 445 663 59	35.0 m
490 445 664 09	40.0 m

R+M Nr.	
490 444 660 259	2.5 m
490 444 661 09	10.0 m
490 444 661 59	15.0 m
490 444 662 09	20.0 m
490 444 662 59	25.0 m
490 444 663 09	30.0 m
490 444 663 59	35.0 m
490 444 664 09	40.0 m

R+M Nr.	
490 445 760 259	2.5 m
490 445 761 09	10.0 m
490 445 761 59	15.0 m
490 445 762 09	20.0 m
490 445 762 59	25.0 m
490 445 763 09	30.0 m
490 445 763 59	35.0 m
490 445 764 09	40.0 m

Fittings zinc-plated steel

Fittings zinc-plated steel

Fittings zinc-plated steel

R+M Nr.	
490 445 660 25	2.5 m
490 445 661 0	10.0 m
490 445 661 5	15.0 m
490 445 662 0	20.0 m
490 445 662 5	25.0 m
490 445 663 0	30.0 m
490 445 663 5	35.0 m
490 445 664 0	40.0 m

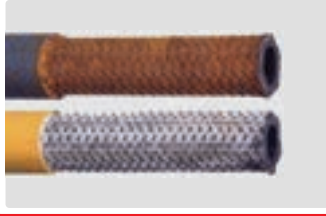
R+M Nr.	
490 444 660 25	2.5 m
490 444 661 0	10.0 m
490 444 661 5	15.0 m
490 444 662 0	20.0 m
490 444 662 5	25.0 m
490 444 663 0	30.0 m
490 444 663 5	35.0 m
490 444 664 0	40.0 m

R+M Nr.	
490 445 760 25	2.5 m
490 445 761 0	10.0 m
490 445 761 5	15.0 m
490 445 762 0	20.0 m
490 445 762 5	25.0 m
490 445 763 0	30.0 m
490 445 763 5	35.0 m
490 445 764 0	40.0 m

## Galvanator - food hose

Interior synthetic rubber. Resistant to usual detergents. Very temperature-resistant. Double zinc-plated steel wire braid. Surface special synthetic rubber. **Resistant to poultry fats.** Non Marking (soot free). Field of application: poultry farms, slaughterhouses, fishing, bakeries etc. Not suitable for swimming baths, standard and industrial cleaning applications.

The advantages of the zinc-plated steel braids become obvious when effecting a salt water test. The Galvanator has been soaked in a 5 % salt water solution at 45 °C for 48 hours.



Quick screw couplings			QSC: QSC	Female thread (DKR)		M (AGR)
M22 : M22			M22 : M22 swivel	1/2" : 1/2"		3/8" : 3/8"
Nipple & crimp VA	Stainless steel	Zinc-plated steel	Nipple & crimp VA	Stainless steel	Zinc-plated steel	Stainless steel

### Hoses with double wire braid made out of zinc-plated steel and wrapped cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	
Galvanator	10	350 bar	121 °C	10 m	359 100 410 7	359 100 410 9	359 100 410	359 101 410 7	359 156 410 9	359 156 410	359 144 410 9	
					15 m	359 100 415 7	359 100 415 9	359 100 415	359 101 415 7	359 156 415 9	359 156 415	359 144 415 9
					20 m	359 100 420 7	359 100 420 9	359 100 420	359 101 420 7	359 156 420 9	359 156 420	359 144 420 9
					25 m	359 100 425 7	359 100 425 9	359 100 425	359 101 425 7	359 156 425 9	359 156 425	359 144 425 9
					30 m	359 100 430 7	359 100 430 9	359 100 430	359 101 430 7	359 156 430 9	359 156 430	359 144 430 9
					35 m	359 100 435 7	359 100 435 9	359 100 435	359 101 435 7	359 156 435 9	359 156 435	359 144 435 9
				40 m	359 100 440 7	359 100 440 9	359 100 440	359 101 440 7	359 156 440 9	359 156 440	359 144 440 9	

## Food hoses

- » Interior synthetic rubber. Very temperature-resistant. Resistant to usual detergents.
- » Surface special synthetic rubber. Non marking (soot free). Resistant to animal fats.
- » **Field of application:** slaughterhouses, fishing, bakeries etc. Not suitable for swimming baths, poultry fat, standard and industrial cleaning applications.

Quick screw couplings			
M22 : M22			M22 : M22 swivel
Nipple & crimp VA	Stainless steel	Zinc-pl. steel	Nipple & crimp VA

**Other lengths or connections are available on request.**

### Hoses with double wire braid and wrapped cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
2SC	8	400 bar	150 °C	10 m	349 100 410 7	349 100 410 9	349 100 410	349 101 121 07
				15 m	349 100 415 7	349 100 415 9	349 100 415	349 101 121 57
				20 m	349 100 420 7	349 100 420 9	349 100 420	349 101 122 07
2SC	10	400 bar	150 °C	10 m	381 100 410 7	381 100 410 9	381 100 410	
				15 m	381 100 415 7	381 100 415 9	381 100 415	
				20 m	381 100 420 7	381 100 420 9	381 100 420	

**All fittings are made out of zinc-plated steel.** The hoses are also available with stainless steel fittings. Please be so kind as to state the following on your order: R+M Nr. plus number:  
**7 = plug and crimp stainless steel    8 = plug stainless steel    9 = plug, crimp and connection stainless steel**

**Symbols** DN nominal diameter P pressure °C temperature ↔ length TYP type BP burst pressure VPE packing unit



## High pressure hoses for special applications

### Superball

- » High pressure cleaning hose with double steel wire braids for hot water
- » Equipped with assembled protection balls which simplify the hose's application
- » Lower friction, easy to pull the hose around any corner, does not get stuck, free water flow under the hose is guaranteed, a very clean and hygienic cleaning hose
- » Increased durability due to lower abrasive wear. Ideal for cleaning swimming baths
- » -40 °C - +150 °C

QSC : QSC

M22 : M22



Male thread (AGR)

3/8" : 3/8"



### Hose assemblies

TYP	DN	P	BP	°C	↔
2SN	10	400 bar	>1,400 bar	150 °C	25 m

R+M Nr.
356 600 625 10

R+M Nr.
356 644 625 10



### Superball-Sliding Balls

For high pressure cleaning hose outer- $\varnothing$  19 mm. Set consisting of 1 sliding ball with 2 stainless steel screws.  
Outer- $\varnothing$  34 mm

R+M Nr.	Set-VPE	for Hose--↔
329 190 100	10	5 m
329 190 240	24	10 m
329 190 370	37	15 m
329 190 490	49	20 m
329 190 610	61	25 m

### powershield365+®

- » Ideal for cleaning applications on rough floors which need to be cleaned by very non-abrasive hoses.
- » Compact hose with corrosion-protected steel wire.
- » Interior and surface synthetic rubber.
- » Very abrasion-resistant UHMPE-coating
- » Particularly abrasion-, oil-, ozone-resistant and weatherproof.
- » Considerably increased durability compared to usual high pressure hoses.
- » MSHA-permission
- » -40 °C - +100 °C

QSC: QSC

M22 : M22



QSC: QSC  
Stainl. steel

Male thread  
(AGR)

3/8" : 3/8"



Male thread  
Stainl. steel

1/2" : 1/2"

### Hose assemblies

TYP	DN	P	BP	°C	↔
2SC	8	400 bar	>1,600 bar	100 °C	10 m
					15 m
					20 m
					25 m
					30 m
2SC	10	375 bar	>1,500 bar	100 °C	10 m
					15 m
					20 m
					25 m
					30 m
2SC	12	310 bar	>1,240 bar	100 °C	10 m
					15 m
					20 m
					25 m
					30 m
					35 m

R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
345 500 310	345 500 310 9	345 544 310	
345 500 315	345 500 315 9	345 544 315	
345 500 320	345 500 320 9	345 544 320	
345 500 325	345 500 325 9	345 544 325	
345 500 330	345 500 330 9	345 544 330	
345 500 335	345 500 335 9	345 544 335	
355 500 310	355 500 310 9	355 544 310	
355 500 315	355 500 315 9	355 544 315	
355 500 320	355 500 320 9	355 544 320	
355 500 325	355 500 325 9	355 544 325	
355 500 330	355 500 330 9	355 544 330	
355 500 335	355 500 335 9	355 544 335	
365 500 310			365 546 310 9
365 500 315			365 546 315 9
365 500 320			365 546 320 9
365 500 325			365 546 325 9
365 500 330			365 546 330 9
365 500 335			365 546 335 9

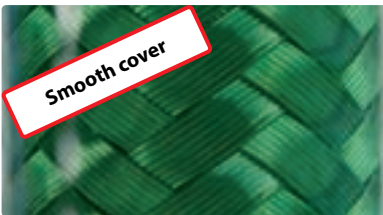
## High pressure hoses for special applications

### easyfarm365+ high pressure hose for the agriculture



- » Especially developed for the use in the agriculture
- » For the professional cot and machine cleaning.
- » Considerably longer working life in comparison to common high pressure hoses
- » Ideal for the use on rough floors under hardest conditions
- » Transparent surface made out of thermoplastic elastomer

- » Oil-, UV-, ozone-resistant and weatherproof
- » Brass-plated wire braid for high stability
- » Excellent ease of use and high safety
- » -40 °C - +120 °C. -40 °F - +250 °F



Female thread (DKR)		Male thread (AGR)		Male thread (AGR) : Female thread (DKR)		QSC : QSC	QSC : plug swivel
3/8" : 3/8"	1/2" : 1/2"	3/8" : 3/8"	1/2" : 1/2"	3/8" : 3/8"	1/2" : 1/2"	M22 : M22	M22 :  11 swivel

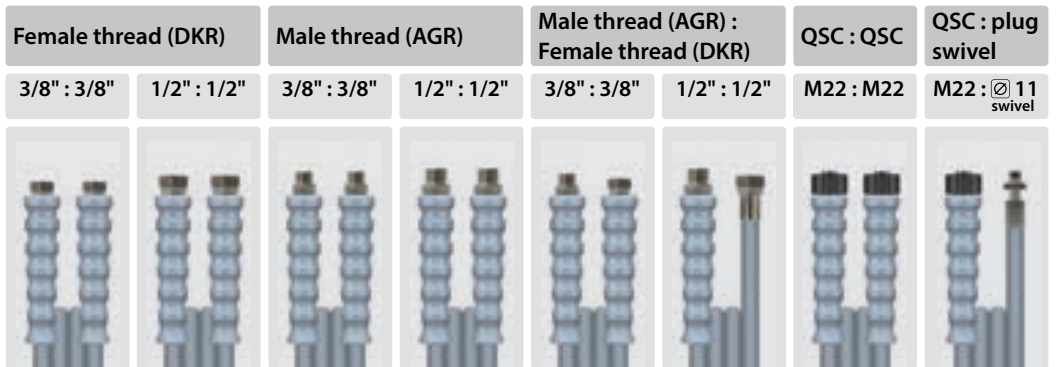
TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	
easyfarm365+ 8	250 bar	120 °C	10 m		348 201 543 10		348 201 443 10		348 201 558 10		348 201 003 10	348 201 113 10	
					348 201 543 15		348 201 443 15		348 201 558 15		348 201 003 15	348 201 113 15	
					348 201 543 20		348 201 443 20		348 201 558 20		348 201 003 20	348 201 113 20	
					348 201 543 25		348 201 443 25		348 201 558 25		348 201 003 25	348 201 113 25	
					348 201 543 30		348 201 443 30		348 201 558 30		348 201 003 30	348 201 113 30	
					348 201 543 40		348 201 443 40		348 201 558 40		348 201 003 40	348 201 113 40	
easyfarm365+ 10	275 bar	120 °C	10 m		354 201 543 10	354 201 563 10	354 201 443 10	354 201 463 10	354 201 558 10	354 201 578 10	354 201 003 10	354 201 113 10	
					354 201 543 15	354 201 563 15	354 201 443 15	354 201 463 15	354 201 558 15	354 201 578 15	354 201 003 15	354 201 113 15	
					354 201 543 20	354 201 563 20	354 201 443 20	354 201 463 20	354 201 558 20	354 201 578 20	354 201 003 20	354 201 113 20	
					354 201 543 25	354 201 563 25	354 201 443 25	354 201 463 25	354 201 558 25	354 201 578 25	354 201 003 25	354 201 113 25	
					354 201 543 30	354 201 563 30	354 201 443 30	354 201 463 30	354 201 558 30	354 201 578 30	354 201 003 30	354 201 113 30	
					354 201 543 40	354 201 563 40	354 201 443 40	354 201 463 40	354 201 558 40	354 201 578 40	354 201 003 40	354 201 113 40	
easyfarm365+ 12	180 bar	120 °C	20 m		354 201 543 50	354 201 563 50	354 201 443 50	354 201 463 50	354 201 558 50	354 201 578 50	354 201 003 50	354 201 113 50	
						363 201 563 20		363 201 463 20		363 201 578 20		363 201 003 20	
						363 201 563 25		363 201 463 25		363 201 578 25		363 201 003 25	
						363 201 563 30		363 201 463 30		363 201 578 30		363 201 003 30	
						363 201 563 40		363 201 463 40		363 201 578 40		363 201 003 40	
						363 201 563 50		363 201 463 50		363 201 578 50		363 201 003 50	
			60 m		363 201 563 60		363 201 463 60		363 201 578 60		363 201 003 60		
					363 201 563 80		363 201 463 80		363 201 578 80		363 201 003 80		

Symbols diameter **DN** nominal diameter **P** pressure **°C** temperature **↔** length **TYP** type shipment by truck

## High pressure hoses for special applications

### greyflex – high pressure hose

- » Ideal field of application: food and beverage industry, fish farming and swimming pools
- » Plug, crimp and connection stainless steel
- » Excellent ease of use, extremely light weight and flexible in case of low temperatures
- » Smooth and stain-resistant surface made out of thermoplastic elastomer
- » Ideal for the use on rough floors due to high abrasion resistance
- » Grease, oil-, UV-, ozone-resistant and weatherproof
- » Brass-plated wire braid
- » Suitable for working pressures of max. 275 bar.  
DN 10. -40 °C - +120 °C, -40 °F - +248 °F



TYP	DN	P	°C	↔	Female thread (DKR)		Male thread (AGR)		Male thread (AGR) : Female thread (DKR)		QSC : QSC	QSC : plug swivel
					3/8" : 3/8"	1/2" : 1/2"	3/8" : 3/8"	1/2" : 1/2"	3/8" : 3/8"	1/2" : 1/2"	M22 : M22	M22 : 11 swivel
greyflex	8	250 bar	120 °C	10 m	342 201 545 109		342 201 445 109	342 201 465 109	342 201 555 109	342 201 578 109	342 201 005 109	342 201 115 109
					342 201 545 159		342 201 445 159	342 201 465 159	342 201 555 159	342 201 578 159	342 201 005 159	342 201 115 159
					342 201 545 209		342 201 445 209	342 201 465 209	342 201 555 209	342 201 578 209	342 201 005 209	342 201 115 209
					342 201 545 259		342 201 445 259	342 201 465 259	342 201 555 259	342 201 578 259	342 201 005 259	342 201 115 259
					342 201 545 309		342 201 445 309	342 201 465 309	342 201 555 309	342 201 578 309	342 201 005 309	342 201 115 309
greyflex	10	275 bar	120 °C	10 m	352 201 545 109	352 201 565 109	352 201 445 109	352 201 465 109	352 201 555 109	352 201 578 109	352 201 005 109	352 201 115 109
					352 201 545 159	352 201 565 159	352 201 445 159	352 201 465 159	352 201 555 159	352 201 578 159	352 201 005 159	352 201 115 159
					352 201 545 209	352 201 565 209	352 201 445 209	352 201 465 209	352 201 555 209	352 201 578 209	352 201 005 209	352 201 115 209
					352 201 545 259	352 201 565 259	352 201 445 259	352 201 465 259	352 201 555 259	352 201 578 259	352 201 005 259	352 201 115 259
					352 201 545 309	352 201 565 309	352 201 445 309	352 201 465 309	352 201 555 309	352 201 578 309	352 201 005 309	352 201 115 309

## Ultra high pressure hoses

Hoses with double wire braid and wrapped cover. Type 2SC. Nominal diameter 10. Safety factor 3.5. Fittings stainless steel. Max. 150 °C

### Female thread (DKOS)

M22 : M22



maxpressure. Type 2SC.  
Max. 500 bar

R+M Nr.	Length
358 177 310 9	10 m
358 177 315 9	15 m
358 177 320 9	20 m
358 177 330 9	30 m

### Male thread (AGR)

3/8" : 3/8"

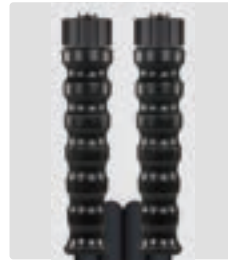


maxpressure. Type 2SC.  
Max. 500 bar

R+M Nr.	Length
358 144 310 9	10 m
358 144 315 9	15 m
358 144 320 9	20 m
358 144 330 9	30 m

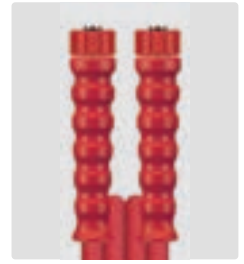
### Quick screw couplings

M22 : M22



maxpressure. Type 2SC.  
Max. 500 bar

R+M Nr.	Length
358 100 310 9	10 m
358 100 315 9	15 m
358 100 320 9	20 m
358 100 330 9	30 m



Type 2SC.  
Max. 500 bar

R+M Nr.	Length
364 100 310 9	10 m
364 100 315 9	15 m
364 100 320 9	20 m
364 100 330 9	30 m

Hoses with double wire braid and wrapped cover. Nominal diameter 10. Fittings stainless steel. Max. 150 °C

### Quick screw couplings

M24 : M24



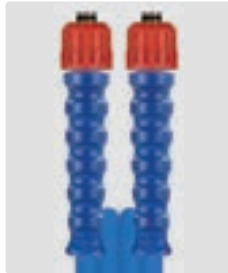
maxpressure. 2SC.  
Max. 500 bar

R+M Nr.	Length
358 197 310 9	10 m
358 197 315 9	15 m
358 197 320 9	20 m
358 197 330 9	30 m



2SC.  
Max. 500 bar

R+M Nr.	Length
364 197 310 9	10 m
364 197 315 9	15 m
364 197 320 9	20 m
364 197 330 9	30 m



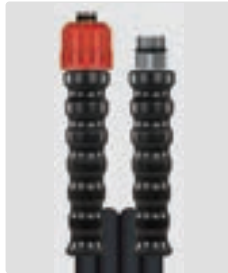
2SN.  
Max. 600 bar

R+M Nr.	Length
368 697 610 9	10 m
368 697 615 9	15 m
368 697 620 9	20 m
368 697 630 9	30 m

Hoses with double wire braid and wrapped cover. Nominal diameter 10. Fittings stainless steel. Max. 150 °C

### Quick screw couplings : male thread

M24 : M24



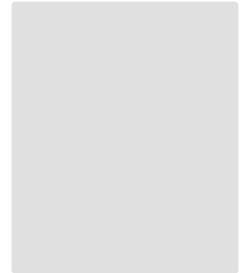
maxpressure. 2SC.  
Max. 500 bar

R+M Nr.	Length
358 114 431 09	10 m
358 114 431 59	15 m
358 114 432 09	20 m
358 114 433 09	30 m



2SC.  
Max. 500 bar

R+M Nr.	Length
364 114 471 09	10 m
364 114 471 59	15 m
364 114 472 09	20 m
364 114 473 09	30 m



R+M Nr.	Length

Hoses with double wire braid and smooth cover. Nominal diameter 6. Fittings stainless steel. Max. 150 °C

### Quick screw couplings / male thread (AGR)

M22 : M22



maxpressure. flexy 500.  
Max. 500 bar

R+M Nr.	Length
338 000 310 9	10 m
338 000 315 9	15 m
338 000 320 9	20 m
338 000 330 9	30 m

M22 : 1/8"



flexy 500.  
Max. 500 bar

R+M Nr.	Length
424 300 010 9	10 m
424 300 015 9	15 m
424 300 020 9	20 m
424 300 030 9	30 m

1/4" : 1/4"



flexy 500.  
Max. 500 bar

R+M Nr.	Length
424 344 010 9	10 m
424 344 015 9	15 m
424 344 020 9	20 m
424 344 030 9	30 m



## High pressure hoses

### Quick screw couplings

M22 : M22

M22 : M22  
plug VA

M22 : M22  
swivel



### Hoses with single wire braid and wrapped cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.
1SN	8	315 bar	150 °C	10 m	344 100 710	344 100 710 8	344 101 710
				15 m	344 100 715	344 100 715 8	344 101 715
				20 m	344 100 720	344 100 720 8	344 101 720

Symbols **DN** nominal diameter **P** pressure **°C** temperature **↔** length **TYP** type

## High pressure hoses per metre 1SN

- » Interior synthetic rubber
- » Very temperature-resistant
- » Resistant to usual detergents
- » **Single wire braid**

- » Surface synthetic rubber
- » Abrasion-, oil-, ozone-resistant and weatherproof
- » -40 °C - +150 °C
- » DIN EN 853

## 1SN black - wrapped cover



**Field of application:** suitable for versatile, universal applications such as industrial plants, agriculture, petrol stations etc.

R+M Nr.	TYP	DN	Ø	P	BP	°C
301 00	1SN	6	13.0	250 bar	≥840 bar	-40 °C - +150 °C
301 10	1SN	8	14.7	210 bar	≥840 bar	-40 °C - +150 °C
301 15	1SN	8	14.7	315 bar	≥1,260 bar	-40 °C - +150 °C
302 10	1SN	10	16.8	210 bar	≥840 bar	-40 °C - +150 °C
302 15	1SN	12	20.0	180 bar	≥720 bar	-40 °C - +150 °C

## 1SN black - smooth cover



**Field of application:** suitable for versatile, universal applications such as industrial plants, agriculture, petrol stations etc.

R+M Nr.	TYP	DN	Ø	P	BP	°C
301 11	1SN	8	15,2	250 bar	≥840 bar	-40 °C - +150 °C
301 151	1SN	8	15,0	315 bar	≥1,000 bar	-40 °C - +150 °C
302 120 1	1SN	10	16,9	210 bar	≥840 bar	-40 °C - +150 °C

## 1SN blue - wrapped cover



Non Marking (soot free). **Field of application:** suitable for versatile, universal applications such as self service car wash, swimming baths, offices and plants being equipped with e.g. tiles or special flooring

R+M Nr.	TYP	DN	Ø	P	BP	°C
301 07	1SN	6	13.0	250 bar	≥840 bar	-40 °C - +150 °C
301 45	1SN	8	14.7	210 bar	≥840 bar	-40 °C - +150 °C
301 16	1SN	8	14.7	315 bar	≥1,260 bar	-40 °C - +150 °C
302 45	1SN	10	16.8	210 bar	≥840 bar	-40 °C - +150 °C
302 90	1SN	12	20.0	180 bar	≥720 bar	-40 °C - +150 °C
303 16	1SN	16	23.2	130 bar	≥520 bar	-40 °C - +150 °C

## 1SN blue - smooth cover



Non Marking (soot free). **Field of application:** suitable for versatile, universal applications such as self service car wash, swimming baths, offices and plants being equipped with e.g. tiles or special flooring

R+M Nr.	TYP	DN	Ø	P	BP	°C
301 072	1SN	6	13.0	250 bar	≥900 bar	-40 °C - +150 °C
302 452	1SN	10	17.5	210 bar	≥720 bar	-40 °C - +150 °C
302 902	1SN	12	20.8	180 bar	≥640 bar	-40 °C - +150 °C

## 1SN grey - wrapped cover



Non Marking (soot free). **Field of application:** suitable for versatile, universal applications such as self service car wash, swimming baths, offices and plants being equipped with e.g. tiles or special flooring

R+M Nr.	TYP	DN	Ø	P	BP	°C
301 06	1SN	6	13.0	250 bar	≥840 bar	-40 °C - +150 °C
301 46	1SN	8	14.7	210 bar	≥840 bar	-40 °C - +150 °C
302 46	1SN	10	16.8	210 bar	≥840 bar	-40 °C - +150 °C

## 1SN red - wrapped cover



Non Marking (soot free). **Field of application:** industrial plants, offices and plants. Red colour for warning at hot water installations or for avoiding trips and falls / protection against being run over

R+M Nr.	TYP	DN	Ø	P	BP	°C
301 18	1SN	8	15.0	315 bar	≥1,260 bar	-40 °C - +150 °C

Symbols DN nominal diameter Ø diameter TYP type P pressure BP burst pressure °C temperature



## High pressure hoses per metre 2 SC / 2 SN

- » Interior synthetic rubber
- » Very temperature-resistant
- » Resistant to usual cleaning agents
- » Double wire braid

- » Surface synthetic rubber
- » Abrasion-, oil-, ozone-resistant and weatherproof
- » -40 °C - +150 °C
- » DIN EN 853 / 857

### 2SC blue - wrapped cover



DIN EN 857. Non Marking (soot free). **Field of application:** suitable for versatile, universal applications such as self service car wash, swimming baths, offices and plants being equipped with e.g. tiles or special flooring

R+M Nr.	TYP	DN	Ø	P	BP	°C
302 95	2SC	12	20.0	300 bar	≥1,200 bar	-40 °C - +150 °C

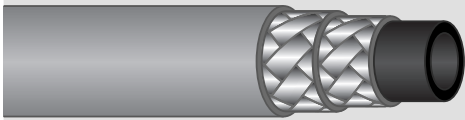
### 2SN blue - smooth cover



DIN EN 853. Non Marking (soot free). **Field of application:** suitable for versatile, universal applications such as self service car wash, swimming baths, offices and plants being equipped with e.g. tiles or special flooring

R+M Nr.	TYP	DN	Ø	P	BP	°C
302 052	2SN	8	16.7	400 bar	≥1,600 bar	-40 °C - +150 °C
302 653	2SN	10	18.9	400 bar	≥1,600 bar	-40 °C - +150 °C

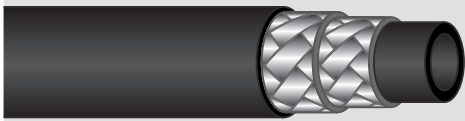
### 2SN grey - smooth cover



DIN EN 853. Non Marking (soot free). **Field of application:** suitable for versatile, universal applications such as self service car wash, swimming baths, offices and plants being equipped with e.g. tiles or special flooring

R+M Nr.	TYP	DN	Ø	P	BP	°C
302 062	2SN	8	16.7	400 bar	≥1,600 bar	-40 °C - +150 °C
302 662	2SN	10	18.9	400 bar	≥1,600 bar	-40 °C - +150 °C

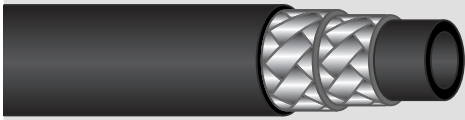
### 2SC black - wrapped cover



DIN EN 857. **Field of application:** suitable for versatile, universal applications such as industrial plants, agriculture, petrol stations etc.

R+M Nr.	TYP	DN	Ø	P	BP	°C
302 81	2SC	12	20.0	300 bar	≥1,200 bar	-40 °C - +150 °C

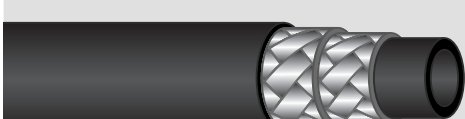
### 2SN black - smooth cover



DIN EN 853. **Field of application:** suitable for versatile, universal applications such as industrial plants, agriculture, petrol stations etc.

R+M Nr.	TYP	DN	Ø	P	BP	°C
301 52	2SN	8	16.7	400 bar	≥1,600 bar	-40 °C - +150 °C
302 52	2SN	10	18.9	400 bar	≥1,600 bar	-40 °C - +150 °C

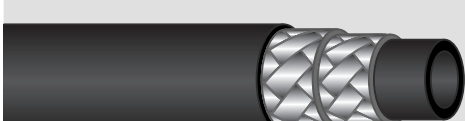
### 2SC black - wrapped cover



DIN EN 857. **Field of application:** suitable for versatile, universal applications such as industrial plants, agriculture, petrol stations etc.

R+M Nr.	TYP	DN	Ø	P	BP	°C
301 02	2SC	6	13.2	400 bar	≥1,600 bar	-40 °C - +150 °C
301 50	2SC	8	14.5	400 bar	≥1,400 bar	-40 °C - +150 °C
302 50	2SC	10	16.8	400 bar	≥1,320 bar	-40 °C - +150 °C

### maxpressure®



DIN EN 857. Black. Wrapped cover. **Field of application:** suitable for versatile, universal applications such as industrial plants, agriculture, petrol stations etc.

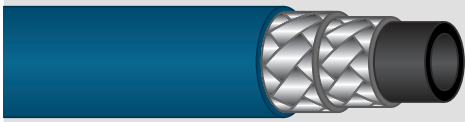
R+M Nr.	TYP	DN	Ø	P	BP	°C
302 551	2SC	10	17.5	500 bar	≥1,500 bar	-40 °C - +150 °C

## High pressure hoses per metre 2 SC

- » Interior synthetic rubber
- » Very temperature-resistant
- » Resistant to usual detergents
- » Double wire braid

- » Surface synthetic rubber
- » Non Marking (soot free)
- » Abrasion-, oil-, ozone-resistant and weatherproof
- » DIN EN 857. -40 °C - +150 °C

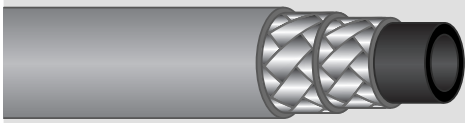
## 2SC blue - wrapped cover



**Field of application:** suitable for versatile, universal applications such as self service car wash, swimming baths, offices and plants being equipped with e.g. tiles or special flooring

R+M Nr.	TYP	DN	Ø	P	BP	°C
302 05	2SC	8	14.5	400 bar	≥1,400 bar	-40 °C - +150 °C
302 65	2SC	10	16.8	400 bar	≥1,320 bar	-40 °C - +150 °C

## 2SC grey - wrapped cover



**Field of application:** suitable for versatile, universal applications such as self service car wash, swimming baths, offices and plants being equipped with e.g. tiles or special flooring

R+M Nr.	TYP	DN	Ø	P	BP	°C
302 06	2SC	8	14.5	400 bar	≥1,400 bar	-40 °C - +150 °C
302 66	2SC	10	16.8	400 bar	≥1,320 bar	-40 °C - +150 °C

## 2SC red - wrapped cover



**Field of application:** industrial plants, offices and plants. Red colour for warning at hot water installations or for avoiding trips and falls / protection against being run over

R+M Nr.	TYP	DN	Ø	P	BP	°C
302 56	2SC	10	17.7	500 bar	≥1,700 bar	-40 °C - +150 °C

## 2SC green - wrapped cover



**Field of application:** industrial plants, offices and plants

R+M Nr.	TYP	DN	Ø	P	BP	°C
302 60	2SC	10	17.7	400 bar	≥1,600 bar	-40 °C - +150 °C

## High pressure hoses per metre 2 SC

- » Interior synthetic rubber
- » Very temperature-resistant
- » Resistant to usual detergents
- » Double wire braid

- » Surface special synthetic rubber
- » Non Marking (soot free)
- » Resistant to animal fats, not resistant to poultry fats
- » DIN EN 857. -40 °C - +150 °C

## 2SC yellow - wrapped cover



**Field of application:** slaughterhouses, fishing, bakeries etc. Not suitable for swimming baths, standard and industrial cleaning applications. The hoses should be cleaned with hot water but not with any solvents or chemicals as this makes them harden and unserviceable

R+M Nr.	TYP	DN	Ø	P	BP	°C
302 08	2SC	8	15.3	400 bar	≥1,600 bar	-40 °C - +150 °C
302 68	2SC	10	17.7	400 bar	≥1,600 bar	-40 °C - +150 °C

Please note that the hose dimensions given may vary within the DIN.  
Hose sold by the metre may be supplied only in production lengths, otherwise cut costs will arise.

## High pressure hoses per metre 1 ST

- » Interior synthetic rubber
- » Very temperature-resistant
- » Resistant to usual detergents
- » **Single wire braid**

- » Surface synthetic rubber
- » Abrasion-, oil-, ozone-resistant and weatherproof
- » -40 °C - +150 °C
- » DIN EN 853

### 1ST black - wrapped thick cover



**Field of application:** suitable for versatile, universal applications such as industrial plants, agriculture, petrol stations etc.

R+M Nr.	TYP	DN	∅	P	BP	°C
301 20	1ST	8	17.5	210 bar	≥840 bar	-40 °C - +150 °C
302 20	1ST	10	19.8	210 bar	≥840 bar	-40 °C - +150 °C

### 1ST blue - wrapped thick cover



Non Marking (soot free). **Field of application:** suitable for versatile, universal applications such as self service car wash, swimming baths, offices and plants being equipped with e.g. tiles or special flooring

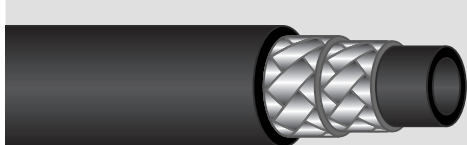
R+M Nr.	TYP	DN	∅	P	BP	°C
301 40	1ST	8	17.5	210 bar	≥840 bar	-40 °C - +150 °C
302 40	1ST	10	19.8	210 bar	≥840 bar	-40 °C - +150 °C
302 70	1ST	12	23.0	180 bar	≥720 bar	-40 °C - +150 °C

## High pressure hoses per metre 2 ST

- » Interior synthetic rubber
- » Very temperature-resistant
- » Resistant to usual detergents
- » **Double wire braid**

- » Surface synthetic rubber
- » Abrasion-, oil-, ozone-resistant and weatherproof
- » -40 °C - +150 °C
- » DIN EN 853

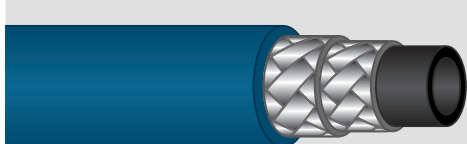
### 2ST black - wrapped thick cover



**Field of application:** suitable for versatile, universal applications such as industrial plants, agriculture, petrol stations etc.

R+M Nr.	TYP	DN	∅	P	BP	°C
301 35	2ST	8	19.1	400 bar	≥1,600 bar	-40 °C - +150 °C
302 35	2ST	10	21.4	330 bar	≥1,320 bar	-40 °C - +150 °C

### 2ST blue - wrapped thick cover



Non Marking (soot free). **Field of application:** suitable for versatile, universal applications such as self service car wash, swimming baths, offices and plants being equipped with e.g. tiles or special flooring

R+M Nr.	TYP	DN	∅	P	BP	°C
302 36	2ST	10	21.4	330 bar	≥1,320 bar	-40 °C - +150 °C

Symbols DN nominal diameter ∅ diameter TYP type P pressure BP burst pressure °C temperature

## Food high pressure hoses per metre

- » Food hose according to (EG) 1935/2004, (EU) 10/2011 and (EG) 2023/2006 » Increased 1-layer rot-proof textile mesh
- » Suitable for: water and water mixes of usual cleaning detergents
- » Especially designed for industrial foam cleaning applications
- » Threefold coated PVC hose with a flush surface



## PUREClean365+® 40 / PUREClean365+® 100



**Field of application:** foam hose and pre-spraying hose for the food industry.  
**Suitable for the contact with liquid food products**

R+M Nr.	TYP	↔	DN	∅	P 20 °C	P 70 °C	BP 20 °C	°C
303 660 40	40	10 - 100 m	12	21.6	100 bar	45 bar	≥ 250 bar	-10 °C - + 70 °C
303 661 00	100	10 - 100 m	12	21.6	40 bar	18 bar	≥ 200 bar	-10 °C - +100 °C



R+M Nr.	TYP	↔	DN	∅	P 20 °C	P 70 °C	BP 20 °C	°C
303 660 41	40	10 - 100 m	12	21.6	100 bar	45 bar	≥ 250 bar	-10 °C - + 70 °C



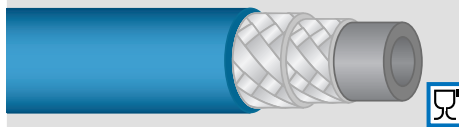
R+M Nr.	TYP	↔	DN	∅	P 20 °C	P 70 °C	BP 20 °C	°C
303 660 42	40	10 - 100 m	12	21.6	100 bar	45 bar	≥ 250 bar	-10 °C - + 70 °C



R+M Nr.	TYP	↔	DN	∅	P 20 °C	P 70 °C	BP 20 °C	°C
303 660 43	40	10 - 100 m	12	21.6	100 bar	45 bar	≥ 250 bar	-10 °C - + 70 °C

- » Food hose according to (EC)2002/72, (EU) 10/2011, (EG) 1935/2004 and (EG) 2023/2006. » **Twofold textile meshwork**
- » Especially designed for industrial foam cleaning applications » Suitable for: water and water mixes of usual cleaning detergents
- » Fivefold coated PVC hose with a flush surface

## blufood®



**Field of application:** foam hose and pre-spraying hose for the food industry.  
**Suitable for the contact with liquid food products**

R+M Nr.	TYP	DN	∅	P 20 °C	P 70 °C	BP 20 °C	°C
303 70	blufood	12	22	50 bar	30 bar	≥ 240 bar	-20 °C - +70 °C
303 700 019	blufood	19	31	40 bar	15 bar	≥ 200 bar	-20 °C - +70 °C

**Symbols** DN nominal diameter ∅ diameter TYP type P pressure BP burst pressure °C temperature ↔ length

## High pressure hoses per metre

### Foodjet



- » High pressure hose according to DIN EN 854
- » **Particularly resistant to animal and poultry fats**
- » Surface synthetic rubber
- » **Interior synthetic, oil-resistant rubber, tight textile meshwork.**
- » Suitable for: oil, water, water-in-oil emulsion and water mixes with up to 50 % detergent
- » Particularly abrasion-, oil-, ozone-resistant and weatherproof

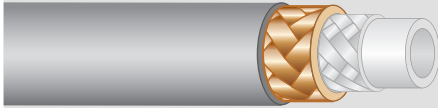
**Field of application:** cleaning hose designed for the poultry processing industry

R+M Nr.	TYP	DN	Ø	P	BP	°C
303 60	Foodjet	12	19.7	80 bar	240	-40 °C - +150 °C



R+M Nr.	TYP	DN	Ø	P	BP	°C
303 601 500	Foodjet 1500	12	21.8	125 bar	375	-40 °C - +150 °C

### greyflex



- » Especially developed to meet highest requirements to hygiene and ergonomics
- » Smooth surface made out of thermoplastic elastomer
- » **Brass-plated wire braid, fabric braid, high-tensile polyester meshwork and PES-interior very resistant to detergents**
- » Suitable for: oil, water, water-oil emulsion and water-detergent mixture.
- » Particularly abrasion-, UV-, grease-, oil-, ozone-resistant and weatherproof
- » extremely light weight and flexible in case of low temperatures
- » Roll at 100 m

**Field of application:** Food and beverage industry, fish farming and swimming pools

R+M Nr.	TYP	DN	Ø	P	BP	°C
300 201 108	greyflex	8	15,2	250 bar	1.000	-40 °C - +120 °C
300 201 110	greyflex	10	17,4	275 bar	1.100	-40 °C - +120 °C

### easyfarm365+



- » Especially developed for the use in the agriculture
- » Excellent ease of use and high safety
- » Smooth transparent surface made out of thermoplastic elastomer
- » **Brass-plated wire braid, fabric braid, high-tensile polyester meshwork and PES-interior very resistant to detergents**
- » Suitable for: oil, water, water-oil emulsion and water-detergent mixture
- » Particularly abrasion-, UV-, oil-, ozone-resistant and weatherproof
- » Ideal for the use on rough floors under hardest conditions
- » Roll at 100 m

**Field of application:** Professional cot and machine cleaning in the agriculture

R+M Nr.	TYP	DN	Ø	P	BP	°C
300 201 408	easyfarm365+	8	15.1	250 bar	1,000	-40 °C - +120 °C
300 201 410	easyfarm365+	10	17.4	275 bar	1,100	-40 °C - +120 °C
300 201 412	easyfarm365+	12	20.8	180 bar	720	-40 °C - +120 °C

**Please note that the hose dimensions given may vary within the DIN.  
Hose sold by the metre may be supplied only in production lengths, otherwise cut costs will arise.**

## High pressure hoses per metre

## Ultra high pressure hose



- » Interior synthetic rubber
- » Very temperature-resistant
- » Resistant to usual detergents
- » **Double wire braid**
- » Surface synthetic rubber
- » Abrasion-, oil-, ozone-resistant and weatherproof
- » DIN EN 1829-2

**Field of application:** suitable for versatile, universal applications such as industrial plants, agriculture, petrol stations etc.

R+M Nr.	TYP	DN	∅	P	BP	°C
302 54	2SN/DIN EN 853	10	18.7	600 bar	1,500 bar	-40 °C - +150 °C

## powershield365+®



- » Interior synthetic rubber
- » **Corrosion-protected steel wire**
- » Surface synthetic rubber
- » Very abrasion-resistant UHMPE-coating
- » Abrasion-, oil-, ozone-resistant and weatherproof.
- » Ideal for cleaning applications on rough floors which must be very non-abrasive
- » Considerably increased durability compared to usual hp hoses
- » MSHA-permission

**Field of application:** Highly abrasion charged application areas, e.g. underground coal mining.

R+M Nr.	TYP	DN	∅	P	BP	°C
302 278	1SN/DIN EN 853	10	16.7	210 bar	> 840 bar	-40 °C - +100 °C
302 178	1SN/DIN EN 853	12	19.9	180 bar	> 720 bar	-40 °C - +100 °C
301 578	2SC/DIN EN 857	8	14.5	400 bar	>1,600 bar	-40 °C - +100 °C
302 578	2SC/DIN EN 857	10	16.5	375 bar	>1,500 bar	-40 °C - +100 °C
302 878	2SC/DIN EN 857	12	19.9	310 bar	>1,240 bar	-40 °C - +100 °C

## Galvanator



- » Interior synthetic rubber
- » Resistant to usual detergents
- » Very temperature-resistant
- » **Double steel zinc plated wire braid**
- » Surface special synthetic rubber
- » **Resistant to poultry fats**
- » Non Marking (soot free)

**Field of application:** Poultry farms, slaughterhouses, fishing, bakeries etc. Not suitable for swimming baths, standard and industrial cleaning applications. The hoses should be cleaned with hot water but not with any solvents or chemicals as this makes them harden and unserviceable

R+M Nr.	TYP	DN	∅	P	BP	°C
302 67	Galvanator	10	18.0	350 bar	≥ 1,400 bar	-29 °C - +121 °C

Symbols DN nominal diameter ∅ diameter TYP type P pressure BP burst pressure °C temperature



## High pressure hoses per metre

### CARWASH COMFORT

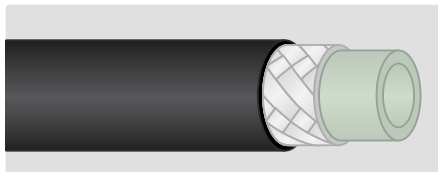


- » Special PES interior very resistant to detergents temperatures
- » High-tensile polyester reinforcing » DN 8 ideally used at foam lances, excellent bending behaviour
- » Transparent and thermoplastic surface made out of polyurethane » DN 8: roll at 100 m
- » Oil-, UV-, ozone-resistant and weatherproof » DN 6: roll at 200 m
- » Light weight and flexible in case of low

Field of application: self-service washing bays

R+M Nr.	TYP	DN	Ø	P	BP	°C
300 100 6	blue	6	12.0	200 bar	>800 bar	-40 °C - +60 °C
300 110 6	grey	6	12.0	200 bar	>800 bar	-40 °C - +60 °C
300 120 6	red	6	12.0	200 bar	>800 bar	-40 °C - +60 °C
300 140 6	green	6	12.0	200 bar	>800 bar	-40 °C - +60 °C
300 150 6	yellow	6	12.0	200 bar	>800 bar	-40 °C - +60 °C
300 100 8	blue	8	15.0	200 bar	>800 bar	-40 °C - +60 °C
300 120 8	red	8	15.0	200 bar	>800 bar	-40 °C - +60 °C
300 140 8	green	8	15.0	200 bar	>800 bar	-40 °C - +60 °C

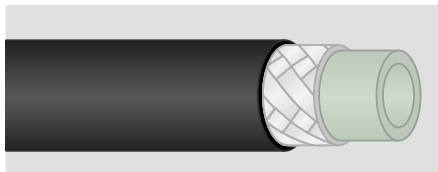
### Plastic



- » Interior polyethylene » Limited oil-resistance
- » Polyester inlay free of rotting, high-tensile » Roll at 400 m
- » PVC-surface

Field of application: Semi-professional hp cleaning & pipe cleaning

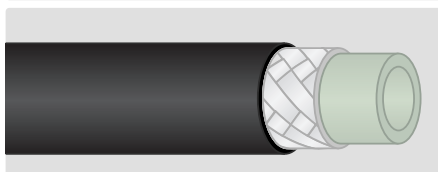
R+M Nr.	TYP	DN	Ø	P	BP	°C
304 01	black	5	9.9	120 bar	≥440 bar	-20 °C - 60 °C



- » Interior polyethylene » Limited oil-resistance
- » Polyester inlay free of rotting, high-tensile » Roll at 400 m
- » PVC-surface

Field of application: Semi-professional hp cleaning & pipe cleaning

R+M Nr.	TYP	DN	Ø	P	BP	°C
304 10	black	5	10.4	200 bar	≥800 bar	-30 °C - 60 °C



- » Interior polyethylene » Limited oil-resistance
- » Polyester inlay free of rotting, high-tensile » Roll at 400 m
- » PVC-surface

Field of application: Semi-professional hp cleaning & pipe cleaning

R+M Nr.	TYP	DN	Ø	P	BP	°C
300 01	black	6	11.6	160 bar	≥640 bar	-20 °C - 65 °C

### blupur



- » Interior polyethylene » Limited oil-resistance
- » Polyester inlay free of rotting, high-tensile » Roll at 400 m. \* Roll at 100 m
- » PVC-surface

Field of application: Semi-professional hp cleaning & pipe cleaning

R+M Nr.	TYP	DN	Ø	P	BP	°C
304 15	blupur	5	10.3	200 bar	≥800 bar	-40 °C - 60 °C
304 18*	blupur	8	13.0	180 bar	≥640 bar	-20 °C - 60 °C

Please note that the hose dimensions given may vary within the DIN.  
Hose sold by the metre may be supplied only in production lengths, otherwise cut costs will arise.

## High pressure hoses per metre

## R+M 1 / Bronze



- » Interior polyester / elastomer
- » Very elastic version

- » **Single wire braid**
- » Surface polyurethane

**Field of application:** Semi-professional hp cleaning & pipe cleaning

R+M Nr.	TYP	DN	∅	P	BP	°C
304 20	R+M 1	4	9.2	300 bar	≥ 1,000 bar	-40 °C - +98 °C

## Flexy



- » Interior synthetic rubber
- » Very elastic version

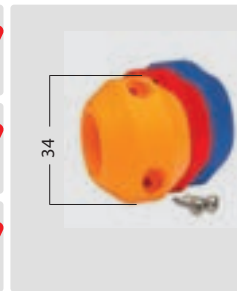
- » **Single wire braid, \* double wire braid**
- » Surface synthetic rubber
- » Abrasion-, oil-resistant and weatherproof

**Field of application:** Professional hp cleaning & pipe cleaning

R+M Nr.	TYP	DN	∅	P	BP	°C
300 95	Flexy 300	6	10.8	300 bar	≥ 800 bar	-40 °C - +100 °C
300 97 *	Flexy 500	6	14.5	600 bar	≥ 2,000 bar	-40 °C - +150 °C

## Sliding Balls Superball / Suttner

For high pressure cleaning hose outer-∅  
12 / 15,8 / 17,5 / 18 mm.  
Set consisting of 1 sliding ball with 2 stainless steel screws.  
Outer-∅ 34 mm

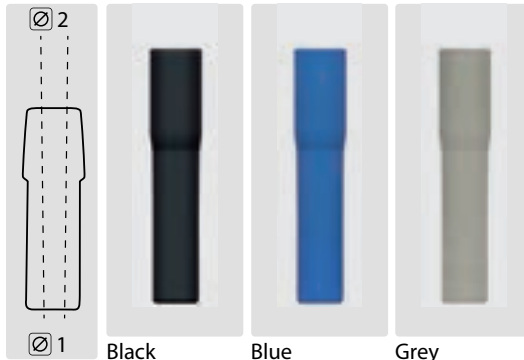


R+M Nr.	C	TYP	for Hose- ∅	Set- VPE	for Hose- →
329 191 240	blue	Suttner	12	24	10 m
329 191 370	blue	Suttner	12	37	15 m
329 191 490	blue	Suttner	12	49	20 m
329 191 610	blue	Suttner	12	61	25 m
329 192 240	orange	Suttner	15,8	24	10 m
329 192 370	orange	Suttner	15,8	37	15 m
329 192 490	orange	Suttner	15,8	49	20 m
329 192 610	orange	Suttner	15,8	61	25 m
329 193 240	red	Suttner	17,5	24	10 m
329 193 370	red	Suttner	17,5	37	15 m
329 193 490	red	Suttner	17,5	49	20 m
329 193 610	red	Suttner	17,5	61	25 m
329 190 240	orange	Superball	19	24	10 m
329 190 370	orange	Superball	19	37	15 m
329 190 490	orange	Superball	19	49	20 m
329 190 610	orange	Superball	19	61	25 m

## Hose bend restrictor

## Hose bend restrictor - elastomer, short

Special material which is substantially more UV- and ozone-resistant than usual rubber.  
Conical fit



DN	∅ 1	∅ 2	R+M Nr.	R+M Nr.	R+M Nr.
6	15,1	15,5	308 50	308 51	308 53

## Packing units

Hose bend restrictor - elastomer	175 pieces
Hose bend restrictor - elastomer short	350 pieces

## Hose bend restrictor

### Hose bend restrictor - elastomer

Special material which is substantially more UV- and ozone-resistant than usual rubber.



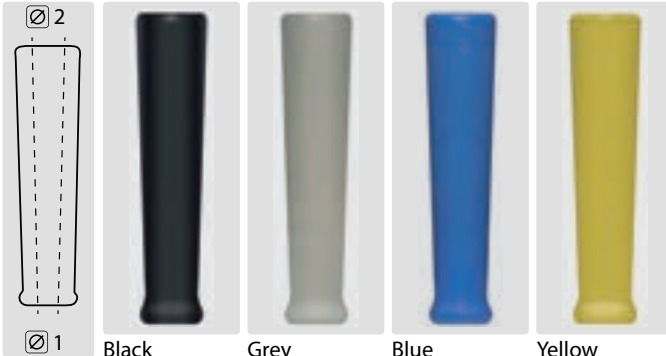
The lip that engages behind the holder avoids any loosening.

DN	∅
6	15.5 mm
8	19.5 mm
10	20.5 mm
12	23.5 mm
12	23.5 mm bluflood

Further colours of the hose bend restrictor are available on request.

Black	Blue	Blue	Grey	Yellow	Red
R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
308 505		308 515			
308 605		309 055	309 005	308 805	308 855
308 705	309 156 06	309 155	309 105	308 905	308 955
308 765		309 165		309 185	309 175
		309 166 01*			

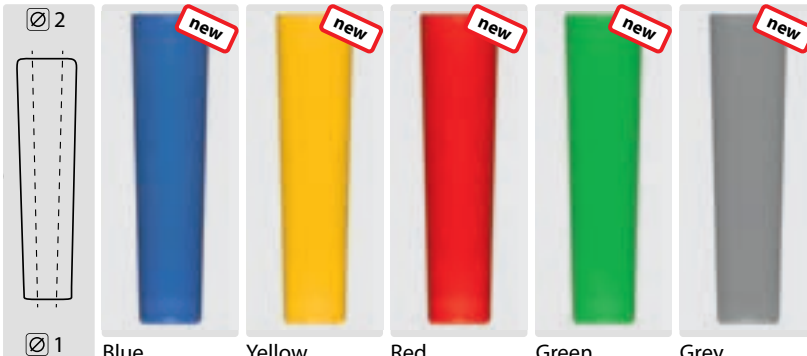
Special material which is substantially more UV- and ozone-resistant than usual rubber. Conical fit



DN	∅ 1	∅ 2	Black	Grey	Blue	Yellow
			R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
8	15.6	18.2	308 60	309 00	309 05	308 80
10	19.4	20.5	308 70	309 10	309 15	308 90
12	22.5	25.0	308 76		309 16	

**Packing units**  
 Hose bend restrictor - elastomer 175 pieces  
 Hose bend restrictor - elastomer short 350 pieces

Special material which is substantially more UV- and ozone-resistant than usual rubber. Conical fit



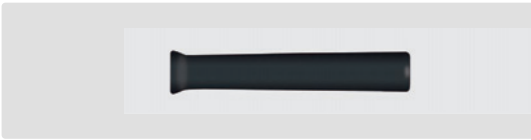
DN	∅ 1	∅ 2	Blue	Yellow	Red	Green	Grey
			R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
12	22.5	25.0	020 000 710	020 000 718	020 000 716	020 000 719	020 000 717

\* FDA-Compliant and 1935/2004 / EC (food contact safe plastics)

Symbols DN nominal diameter ∅ diameter TYP type P pressure BP burst pressure °C temperature VPE packing unit C colour ↔ length

## Hose bend restrictor

## Hose bend restrictor - plastic



Black	
R+M Nr.	⊘
308 52	13.5 mm

## Cartridge for plugs



For plugs placed at the gun

R+M Nr.	DN
316 960 6	6
316 960 8	8

## Hose protection



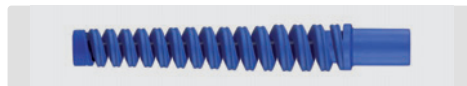
PVC

R+M Nr.	VPE	⊘	⊘
308 491 620	per metre	20 mm	16 mm
308 491 621	roll at 20 m	20 mm	16 mm

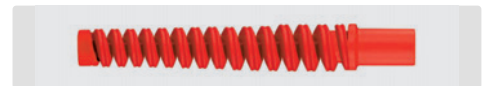
## Hose bend restrictor - plastic / spiral



Spiral black	
R+M Nr.	⊘
308 55	13.2 mm



Spiral blue	
R+M Nr.	⊘
308 551	13.2 mm



Spiral red	
R+M Nr.	⊘
308 552	13.2 mm

## Packing units

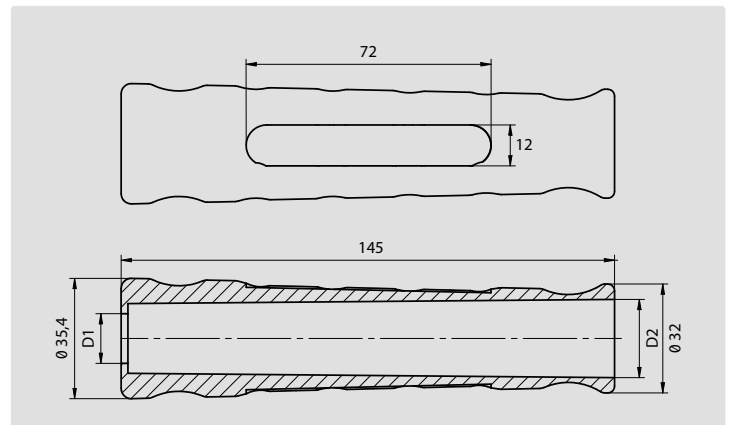
Hose bend restrictor - plastic	500 pieces
Hose bend restrictor - plastic / spiral	400 pieces

## Hose bend restrictor in wave design - showing your company logo!

We offer you the possibility to combine your personal spray guns ST-2300 and ST-2600 with your individual hose bend restrictor, this is possible from 525 pieces. You are invited to choose your favourite colour of your hose bend restrictor and to think about what you would like to have written on it or which logo you would like to see on it. It is really up to you as you can give free rein to your creativity! The lettering on the two fields is solely determined by you. By means of labelling your personal hose bend restrictor you succeed in enhancing the product itself and also in making your company and brand better known.

The hose bend restrictor very bendable and also flexible at low temperature is equipped with a lip that engages behind the crimp cartridge and avoids any loosening. It is characterized by a very smooth surface structure, oil and abrasion resistance.

The black and yellow versions are recommended to be used for outdoor applications. The blue and grey hose bend restrictor is especially designed for being used inside as for example in the food industry. It is generally phthalate-free, resistant to chemicals as well as chlorine- and grease resistant in all colours.



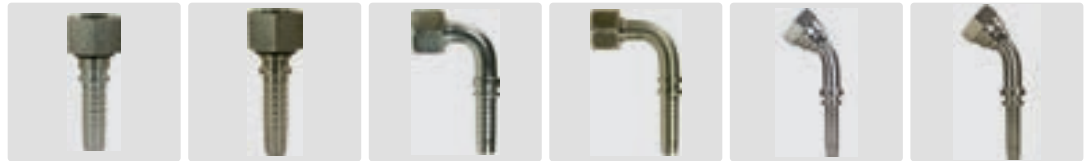
colour	colour-number	nominal diameter	D1	D2
red	1040	DN 8	14.6	21.7
		DN 10	14.6	23.0
		DN 12	21.0	26.6
		DN 12 *	21.0	26.5
black	660	DN 8	14.6	21.7
		DN 10	14.6	23.0
		DN 12	21.0	26.6
		DN 12 *	21.0	26.5
blue	1010	DN 8	14.6	21.7
		DN 10	14.6	23.0
		DN 12	21.0	26.6
		DN 12 *	21.0	26.5
grey	1020	DN 8	14.6	21.7
		DN 10	14.6	23.0
		DN 12	21.0	26.6
		DN 12 *	21.0	26.5
yellow	1030	DN 8	14.6	21.7
		DN 10	14.6	23.0
		DN 12	21.0	26.6
		DN 12 *	21.0	26.5

\* hose bend restrictor for bluflood

Symbols ⊘ nominal diameter ⊙ thread VPE packing unit ⊗ diameter

## Crimp nipples

### Nipples with cone, metric thread DKOL / DKOS



DN	⊘	Zinc-plated steel	Stainless steel	90°. Zinc-pl. steel	90°. Stainless steel	45°. Zinc-pl. steel	45°. Stainless steel
		R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
6	M12 x 1.5 (6L)	316 45	316 459	316 452	316 452 9		
6	M14 x 1.5 (8L)	316 46	316 469	316 462			
6	M16 x 1.5 (10L)	316 49	316 499	316 041 61		316 041 62	
6	M18 x 1.5 (12L)	316 60	316 69	316 041 81		316 041 82	
8	M14 x 1.5 (8L)	316 140 8					
8	M16 x 1.5 (10L)	316 50	316 59	316 51	316 519		
8	M18 x 1.5 (12L)	316 70	316 79	316 71	316 719	316 72	
8	M18 x 1.5 (10S)	316 180 82	316 180 829	316 180 83	316 739		
10	M16 x 1.5 (10L)		316 161 09				
10	M18 x 1.5 (12L)	316 80	316 89	316 061 81	316 819	316 82	316 829
10	M20 x 1.5 (12S)		317 449				
10	M22 x 1.5 (15L)	316 221 0	316 221 09	316 73		316 74	
10	M22 x 1.5 (14S)	317 710	317 710 9		316 221 019		
10	M24 x 1.5 (16S)		316 241 09				
12	M18 x 1.5 (12L)	316 181 2				316 181 21	
12	M22 x 1.5 (15L)	317 40	317 49	317 45	317 492	317 44	
12	M24 x 1.5 (16S)	317 46	316 746 9				
12	M26 x 1.5 (18L)						
16	M22 x 1.5 (15L)	316 221 6					
16	M26 x 1.5 (18L)	316 261 6					
16	M30 x 2 (20S)	316 301 6		316 301 69			
20	M30 x 2 (22L)		316 302 09				
25	M36 x 2 (28L)	316 362 5		316 362 590		316 362 545	

### Nipples with cone, pipe thread DKR / AGR



DN	⊘	Zinc-plated steel	Stainless steel	45°. Zinc-pl. steel	90°. Zinc-pl. steel	90°. Stainless steel	Zinc-plated steel	Stainless steel
		R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
4	1/4"	316 05						
5	1/8"	315 95					315 11	
6	1/8"							315 069
6	1/4"	316 10	316 19	316 12	316 11	316 119	315 20	315 29
6	3/8"	316 15	316 16		316 151		315 46	315 469
6	1/2"	316 18						
8	1/4"	316 00	316 09				315 30	315 39
8	3/8"	316 20	316 29	316 22	316 21	316 219	315 50	315 59
8	1/2"	316 105 08	316 105 09					
10	1/4"						315 45	315 459
10	3/8"	316 30	316 25		316 31	316 319	315 60	315 69
10	1/2"	316 40	316 409		316 41	316 419	315 61	315 619
12	3/8"	316 38	316 381 2				315 080 6	315 080 69
12	1/2"	316 42	316 429	316 080 81	316 43	316 439	315 65	315 66
12	3/4"	316 081 2	316 081 29					
16	1/2"		316 449					315 64
16	3/4"	316 48	316 489		316 101 21		315 67	315 679
20	3/4"	316 342 0	316 342 9		316 101 20	316 342 29	315 68	315 689
20	1"		316 121 69					
25	3/4"	316 47					315 161 2	
25	1"	316 161 6	316 161 69				315 161 6	

## Crimp nipples

### Nipples with cone, metric thread CEL



Zinc-plated steel      Stainless steel

DN	⊘	R+M Nr.	R+M Nr.
6	M12 x 1.5 (6L)		
6	M14 x 1.5 (8L)	316 461	
6	M16 x 1.5 (10L)		
6	M18 x 1.5 (12L)	315 806	
8	M14 x 1.5 (8L)		
8	M16 x 1.5 (10L)	315 70	
8	M18 x 1.5 (12L)	315 808	315 809
8	M18 x 1.5 (10S)		
10	M16 x 1.5 (10L)		
10	M18 x 1.5 (12L)	315 80	315 800 9
10	M20 x 1.5 (12S)		
10	M22 x 1.5 (15L)	315 85	315 859
10	M22 x 1.5 (14S)		
10	M24 x 1.5 (16S)		
12	M18 x 1.5 (12L)	315 812	
12	M22 x 1.5 (15L)		315 869
12	M24 x 1.5 (16S)		
12	M26 x 1.5 (18L)	315 826 120	
16	M22 x 1.5 (15L)		
16	M26 x 1.5 (18L)		
16	M30 x 2 (20S)		
20	M30 x 2 (22L)	315 90	315 909
25	M36 x 2 (28L)		

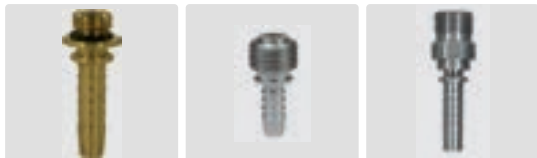
### Double crimp nipples



Zinc-plated steel

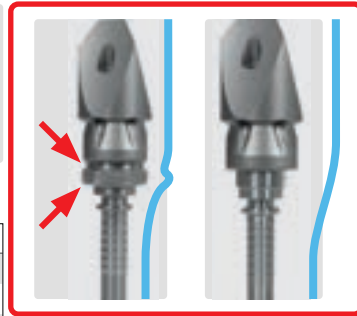
R+M Nr.	DN
318 506	6
318 508	8
318 510	10
318 513	12
318 516	16

### Nipples, pipe thread RR



Brass. O-ring      Stainless steel      Stainless steel.  
Flat sealing

DN	⊘	R+M Nr.	R+M Nr.	R+M Nr.
4	1/8"		315 03	
5	1/8"	315 10		
6	1/8"	315 06		
6	1/4"	315 00		
8	1/4"			315 393
8	3/8"			315 593
10	3/8"			315 693
12	1/2"			315 663



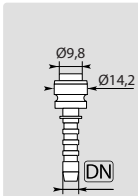
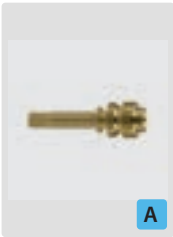
- AGR = pipe male thread
- CEL = male threads for connection pieces 24°, universal sealing head and cutting ring
- DKOL = conical nipple with O-ring, light series
- DKOS = conical nipple with O-ring, heavy series
- DKR = conical nipple with pipe thread
- RR = for sewer cleaning hoses

Symbols  $\text{DN}$  nominal diameter  $\text{⊘}$  thread  $\text{⊘}$  diameter



## Crimp nipples

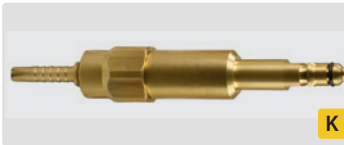
### Crimp nipples



X-TRA.  
Brass

R+M Nr.	DN
317 521 6	6

### Crimp nipples



Brass. Swivel

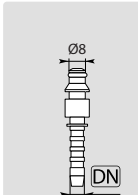
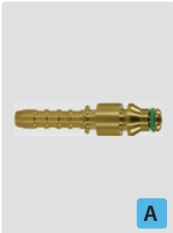
R+M Nr.	DN
316 951 9	6

### Crimp nipples with pipe pieces



Zinc-plated steel. BEL - BES

DN	Ø	R+M Nr.
6	08	316 65
6	10	316 61
6	12	316 62
8	12	316 612 08
10	15	316 63



Plug.  
Brass

R+M Nr.	DN
317 520 6	6



Brass

R+M Nr.	DN
200 000 092	6

### Crimp nipples premounted



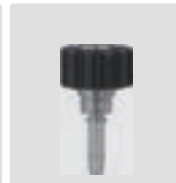
ST-44.  
Stainless steel.  
M22 F swivel

R+M Nr.	DN
317 25	6
317 20	8
317 30	10



ST-44.  
Stainless steel.  
M21 F swivel

R+M Nr.	DN
317 26	6
317 21	8
317 31	10



M22 F. Brass.  
Crimp nipple zinc-plated steel  
Type 01

R+M Nr.	DN
316 902 2	6
317 002 2	8
317 102 2	10



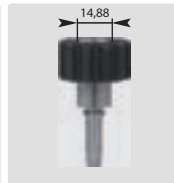
M22 F. Stainless steel.  
Screw nut stainless steel  
Type 02

R+M Nr.	DN
316 902 29	6
317 002 29	8
317 102 29	10



1/2" F. Brass.  
Crimp nipple stainless steel.  
Type 01

R+M Nr.	DN
316 901 2	6
317 001 2	8
317 101 2	10



M22 F. Brass.  
Crimp nipple stainless steel.  
US-Version 14.88.  
Type 05

R+M Nr.	DN
317 606	6
317 608	8
317 610	10



M22 F. 90°.  
Zinc-plated steel.  
Type 01

R+M Nr.	DN
317 02	6
317 01	8
317 03	10



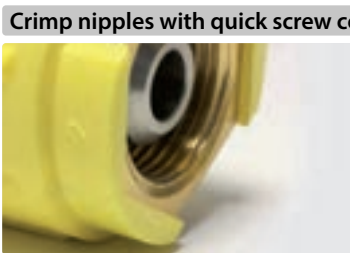
ST-740.  
M24 x 1.5

R+M Nr.	DN
317 102 49	10



ST-740.  
M24 x 1.5

R+M Nr.	DN
040 001 980	10



- » Hard PVC cover in yellow / black
- » Brass screw nut
- » Stainless steel swivel



QSC. M22.  
Crimp nipple zinc-plated steel

R+M Nr.	DN
200 088 516	6
200 088 518	8
200 088 520	10



QSC. M22. Swivel.  
Crimp nipple stainless steel

R+M Nr.	DN
200 088 506	6
200 088 508	8
200 088 510	10



1/4" M. Stainless steel. Single ball bearing.  
Max. 275 bar / 120 °C

R+M Nr.	DN
108 320 31	6



3/8" M. Stainless steel. Single ball bearing.  
Max. 275 bar / 120 °C

R+M Nr.	DN
108 321 32	8



1/4" F. Stainless steel. Single ball bearing.  
Max. 275 bar / 120 °C

R+M Nr.	DN
108 320 33	6

### Crimp nipples with quick screw coupling for hose reels



QSC. M22. Screw nut brass.  
Crimp nipple stainless steel

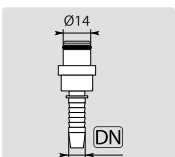
R+M Nr.	DN
317 062 209	6
317 082 209	8

### Crimp nipples



For quick screw.  
Zinc-plated steel.  
Type 01

R+M Nr.	DN
100 001 942	6
100 001 940	8
100 001 944	10



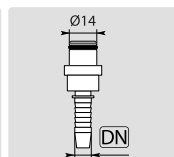
For quick screw.  
Stainless steel.  
Type 02

R+M Nr.	DN
040 001 942	6
040 001 940	8
040 001 944	10
040 001 945	12



For quick screw.  
Zinc-plated steel.  
Type 01

R+M Nr.	DN
317 00	8
317 10	10



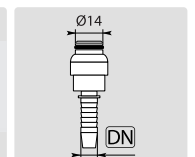
For quick screw.  
Zinc-plated steel.  
Type 01

R+M Nr.	DN
317 00	8
317 10	10



For quick screw.  
Zinc-plated steel.  
Type 01

R+M Nr.	DN
317 00	8
317 10	10







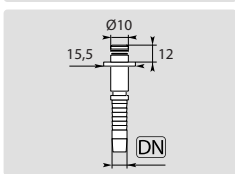
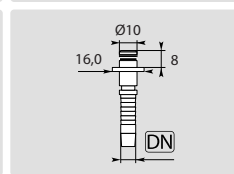
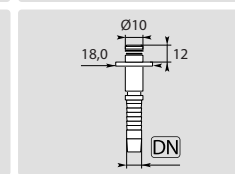
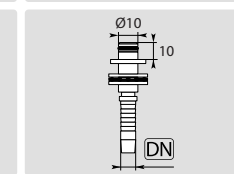
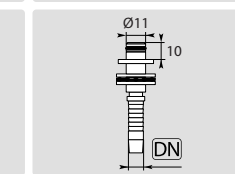
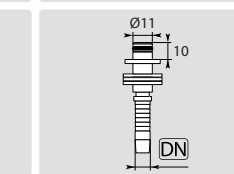


For quick screw.  
Zinc-plated steel.  
Type 01

R+M Nr.	DN
317 00	8
317 10	10

## Crimp nipples

### Crimp nipples








					
					
Plug. Zinc-plated steel. Type 03 & 04	Plug. Brass. Type 03	Plug. Zinc-plated steel. Type 03 & 04	Swivel $\varnothing$ 10 mm. Stainless steel. Type 03 & 04	Swivel $\varnothing$ 11 mm. Stainless steel. Type 03 & 04	Swivel $\varnothing$ 11 mm. Zinc-plated steel. Type 03 & 04
<b>R+M Nr.</b> $\varnothing$ DN	<b>R+M Nr.</b> $\varnothing$ DN	<b>R+M Nr.</b> $\varnothing$ DN	<b>R+M Nr.</b> $\varnothing$ DN	<b>R+M Nr.</b> $\varnothing$ DN	<b>R+M Nr.</b> $\varnothing$ DN
316 95 6 316 98 8	316 951 6 6	316 951 8 6	316 93 6	316 94 6 316 96 8 316 961 0 10	316 961 8

## Crimp nipples

### Crimp nipples

### Seal kits crimp nipples






### Seal kit ST-44

	1/4" F. Stainless steel						
<b>R+M Nr.</b> $\varnothing$ DN		O-ring. Type 01	O-ring. Viton. Type 02	O-ring. Type 03	Back ring. Type 04	O-ring. Type 05	Seal kit ST-44
314 79 6 314 89 8 314 99 10		<b>R+M Nr.</b> $\varnothing$ VPE	<b>R+M Nr.</b> $\varnothing$ VPE	<b>R+M Nr.</b> $\varnothing$ TYP	<b>R+M Nr.</b> $\varnothing$ TYP	<b>R+M Nr.</b>	<b>R+M Nr.</b>
		790 10 1 790 100 100	790 20 1 790 201 00 100	790 55 10 mm 790 57 11 mm	790 58 10 mm 790 59 11 mm	791 032 4	568 001 1

## Quick screws


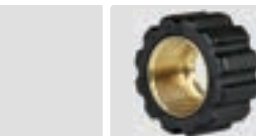
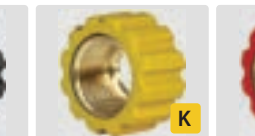

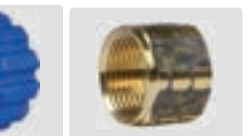
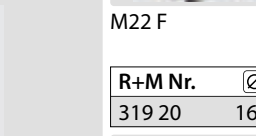
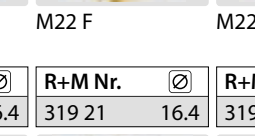
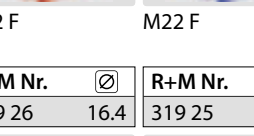
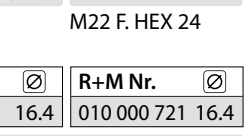
### Quick screw for crimp nipples

- » M22 F.
- » Stainless steel.
- » Max. 500 bar

				
				HEX 24
<b>R+M Nr.</b> $\varnothing$	<b>R+M Nr.</b> $\varnothing$	<b>R+M Nr.</b> $\varnothing$	<b>R+M Nr.</b> $\varnothing$	<b>R+M Nr.</b> $\varnothing$
319 209 16.4	319 219 16.4	319 269 16.4	319 259 16.4	040 000 824 16.4

### Quick screw for crimp nipples

- » Brass.
- » Max. 400 bar

				
	M22 F	M22 F	M22 F	M22 F. HEX 24
<b>R+M Nr.</b> $\varnothing$	<b>R+M Nr.</b> $\varnothing$	<b>R+M Nr.</b> $\varnothing$	<b>R+M Nr.</b> $\varnothing$	<b>R+M Nr.</b> $\varnothing$
319 201 17.3	319 20 16.4	319 21 16.4	319 26 16.4	319 25 16.4
				010 000 721 16.4
				
	M22 F	M21 F	M21 F	M22 F
<b>R+M Nr.</b> $\varnothing$	<b>R+M Nr.</b> $\varnothing$	<b>R+M Nr.</b> $\varnothing$	<b>R+M Nr.</b> $\varnothing$	<b>R+M Nr.</b> $\varnothing$
319 201 17.3	200 042 154 16.4	319 10 16.4	319 231	17.3

### Quick screw for crimp nipples

- » Zinc-plated steel.
- » Max. 400 bar

	M22 x 1.5 F
<b>R+M Nr.</b> $\varnothing$	
319 28	16.3

## Crimp cartridges suitable for different hose models

### Plastic

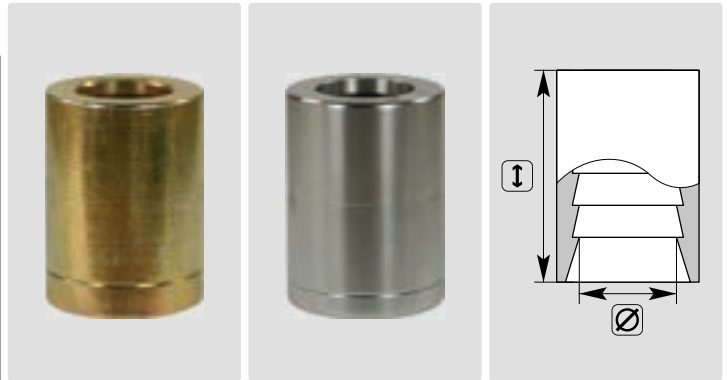
DN	R+M Nr.	hoses	TYP	∅	h	M
5	310 10	RR-120	ns	11.2 mm	17 mm	zinc-plated steel
5	310 10	RR-200	ns	11.2 mm	17 mm	zinc-plated steel
6	310 20	6-160	ns	13.3 mm	25 mm	zinc-plated steel
5	310 10	blupur	ns	11.2 mm	17 mm	zinc-plated steel
6	310 20	CARWASH COMFORT	ns	13.3 mm	25 mm	zinc-plated steel
6	310 209	CARWASH COMFORT	ns	13.3 mm	25 mm	stainless steel
8	310 807 08	CARWASH COMFORT	ns	15.3 mm	30 mm	zinc-plated steel
12	313 301	blufood	ns	23.0 mm	34 mm	zinc-plated steel
12	313 329	blufood	ns	23.0 mm	34 mm	stainless steel
12	313 329	PURClean365+®	ns	23.0 mm	34 mm	stainless steel

### 1ST

DN	R+M Nr.	hoses	TYP	∅	h	M
8	312 10	1ST	s	14.0 mm	31 mm	zinc-plated steel
8	312 19	1ST	s	14.0 mm	31 mm	stainless steel
10	313 10	1ST	s	16.6 mm	32 mm	zinc-plated steel
10	313 19	1ST	s	16.6 mm	32 mm	stainless steel
12	313 30	1ST	s	20.5 mm	34 mm	zinc-plated steel
12	313 39	1ST	s	19.4 mm	34 mm	stainless steel
16	313 40	1ST	s	24.0 mm	37 mm	zinc-plated steel
16	313 49	1ST	s	24.0 mm	37 mm	stainless steel
20	314 00	1ST	s	27.1 mm	43 mm	zinc-plated steel
20	313 59	1ST	s	27.8 mm	43 mm	stainless steel

### 1SC / 1SN

DN	R+M Nr.	hoses	TYP	∅	h	M
6	312 05	1SC compact	s	12.3 mm	31 mm	zinc-plated steel
6	312 00	1SN	s	13.2 mm	30 mm	zinc-plated steel
6	312 001	1SN	ns	14.4 mm	31 mm	zinc-plated steel
6	312 09	1SN	s	13.1 mm	30 mm	stainless steel
8	312 10	1SN 210 bar	s	14.0 mm	31 mm	zinc-plated steel
8	312 101	1SN 210 bar	ns	16.0 mm	30 mm	zinc-plated steel
8	312 19	1SN 210 bar	s	14.0 mm	31 mm	stainless steel
8	312 191	1SN 210 bar	ns	17.8 mm	31 mm	stainless steel
8	312 10	1SN 315 bar	s	14.0 mm	31 mm	zinc-plated steel
8	312 101	1SN 315 bar	ns	16.0 mm	30 mm	zinc-plated steel
8	312 19	1SN 315 bar	s	14.0 mm	31 mm	stainless steel
8	312 191	1SN 315 bar	ns	17.8 mm	31 mm	stainless steel
10	313 10	1SN	s	16.6 mm	32 mm	zinc-plated steel
10	313 101	1SN	ns	18.3 mm	32 mm	zinc-plated steel
10	313 19	1SN	s	16.6 mm	32 mm	stainless steel
10	313 191	1SN	ns	20.0 mm	34 mm	stainless steel
10	313 192	1SN	ns	19.6 mm	32 mm	stainless steel
12	313 30	1SN	s	20.5 mm	34 mm	zinc-plated steel
12	313 39	1SN	s	19.4 mm	34 mm	stainless steel
12	313 319	1SN	ns	22.7 mm	34 mm	stainless steel
16	313 40	1SN	s	24.0 mm	37 mm	zinc-plated steel
16	313 401	1SN	ns	26.0 mm	37 mm	zinc-plated steel
16	313 49	1SN	s	24.0 mm	37 mm	stainless steel
20	314 00	1SN	s	27.1 mm	43 mm	zinc-plated steel
20	313 59	1SN	s	27.8 mm	43 mm	stainless steel
20	313 69	1SN	ns	30.3 mm	42 mm	stainless steel
25	313 601	1SN	ns	36.8 mm	50 mm	zinc-plated steel
25	313 659	1SN	ns	39.0 mm	48 mm	stainless steel



### 2ST / 2SN

DN	R+M Nr.	hoses	TYP	∅	h	M
6	312 04	2ST / 2SN	s	14.2 mm	30 mm	zinc-plated steel
8	312 20	2ST / 2SN	s	15.7 mm	30 mm	zinc-plated steel
8	312 29	2ST / 2SN	s	15.7 mm	30 mm	stainless steel
8	312 201	2SN	ns	17.5 mm	30 mm	zinc-plated steel
10	313 192	2SN	ns	19.6 mm	32 mm	stainless steel
10	313 192	2ST	s	19.6 mm	32 mm	stainless steel
10	313 20	2ST / 2SN	s	18.1 mm	32 mm	zinc-plated steel
10	313 29	2ST / 2SN	s	18.0 mm	32 mm	stainless steel
10	313 201	2SN	ns	18.0 mm	32 mm	zinc-plated steel
12	313 35	2ST / 2SN	s	22.0 mm	34 mm	zinc-plated steel
12	313 359	2ST / 2SN	s	21.0 mm	35 mm	stainless steel
20	313 69	2SN	ns	30.3 mm	42 mm	stainless steel
20	313 69	2ST	s	30.3 mm	42 mm	stainless steel
25	313 601	2SN	ns	36.8 mm	50 mm	zinc-plated steel
25	313 659	2SN	ns	39.0 mm	48 mm	stainless steel
25	313 659	2ST	s	39.0 mm	48 mm	stainless steel

### 2SC

DN	R+M Nr.	hoses	TYP	∅	h	M
6	312 00	2SC	s	13.2 mm	30 mm	zinc-plated steel
6	312 09	2SC	s	13.1 mm	30 mm	stainless steel
8	312 10	2SC	s	14.0 mm	31 mm	zinc-plated steel
8	312 19	2SC	s	14.0 mm	31 mm	stainless steel
10	313 10	2SC	s	16.6 mm	32 mm	zinc-plated steel
10	313 19	2SC	s	16.6 mm	32 mm	stainless steel
10	313 192	2SC	ns	19.6 mm	32 mm	stainless steel
12	313 39	2SC	s	19.4 mm	34 mm	stainless steel
20	313 69	2SC	ns	30.3 mm	42 mm	stainless steel
25	313 659	2SC	ns	39.0 mm	48 mm	stainless steel

### R+M

DN	R+M Nr.	hoses	TYP	∅	h	M
4	310 05	R+M 1 Bronze	ns	10.3 mm	12 mm	zinc-plated steel
6	310 20	Flexy 300	ns	13.3 mm	25 mm	zinc-plated steel
6	310 209	Flexy 300	ns	13.3 mm	25 mm	stainless steel
6	312 09	Flexy 500	ns	13.1 mm	30 mm	stainless steel
10	313 10	Galvanator	s	16.5 mm	32 mm	zinc-plated steel
10	313 19	Galvanator	s	16.6 mm	32 mm	stainless steel
10	313 15	2SC 500 bar	s	18.3 mm	34 mm	zinc-plated steel
10	313 29	2SN 500 bar	s	18.0 mm	32 mm	stainless steel
10	313 19	2SC 500 bar	s	16.6 mm	32 mm	stainless steel
12	313 301	Foodjet	ns	23.0 mm	34 mm	zinc-plated steel
12	313 319	Foodjet	ns	22.7 mm	34 mm	stainless steel

s = to skive, ns = not to skive

Symbols DN nominal diameter ∅ diameter h height M material TYP type VPE packing unit

## Re-usable screw nipples

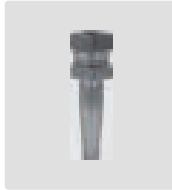
## Re-usable screw nipples, BSP thread

» Zinc-plated steel



## Re-usable screw nipples with metric thread

» Zinc-plated steel



DN	Ø	R+M Nr.	TYP	R+M Nr.	TYP	DN	Ø	R+M Nr.	TYP	R+M Nr.	TYP	R+M Nr.	TYP
6	1/4"	328 05	DKR			6	M14 x 1.5	328 48	DKOL				
8	3/8"	328 20	DKR	328 10	AGR	8	M16 x 1.5	328 60	DKOL	328 50	CEL		
10	3/8"	328 40	DKR	328 30	AGR	8	M22 x 1.5					320 60	QSC
12	1/2"	328 46	DKR	328 45	AGR	10	M18 x 1.5	328 80	DKOL	328 70	CEL		

## Screw cartridges

» Zinc-plated steel  
» Not to skive

## Hose with single wire braid - SAE 100

R+M Nr.	DN	hose
327 05	6	1SN 06
327 15	8	1SN 08
327 35	10	1SN 10
327 55	12	1SN 12

## Hose with double wire braid - DIN standard

R+M Nr.	DN	hose
327 25	8	2SN 08
327 45	10	2SN 10

## Screw fittings for bluflood®

1/2" M with 60° cone. Stainless steel.  
Max. 50 bar

R+M Nr.	DN
329 012 129	12

1/2" F with 60° cone. Stainless steel.  
Max. 50 bar

R+M Nr.	DN
329 112 129	12

DKR 1/2" flat sealing. Stainless steel.  
Max. 50 bar.

R+M Nr.	DN
329 312 129	12

## Screw fittings for PUREClean365+®

1/2" M with 60° cone. Stainless steel.  
Max. 50 bar

R+M Nr.	DN
329 412 129	12

1/2" F with 60° cone. Stainless steel.  
Max. 50 bar

R+M Nr.	DN
329 512 129	12

1/2" F. Stainless steel. Max. 50 bar.  
Flat sealing

R+M Nr.	DN
329 612 129	12

## Hose fittings pre-assembled

suitable for bluflood and PUREClean365+®

AGR 1/2". Stainless steel.  
Max. 150 bar

R+M Nr.	DN
315 665	12

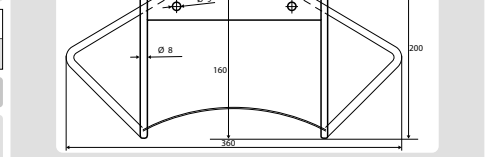
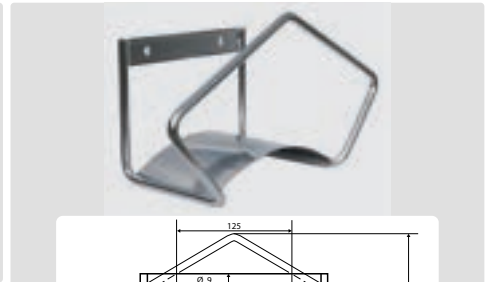
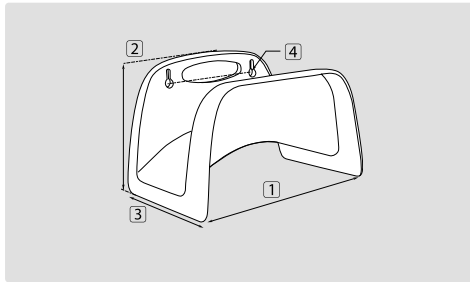
DKR 1/2". Stainless steel.  
Max. 150 bar

R+M Nr.	DN
316 429 5	12



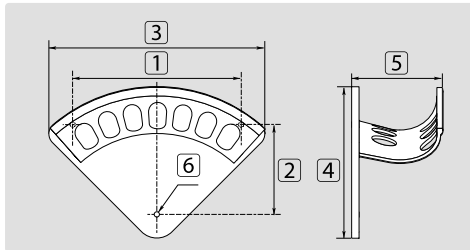
## Hose holder

### Hose holder



R+M Nr.	M	holding capacity	1	2	3	4
110 00	plastic	1/2" = 40 m / 3/4" = 30 m	260	170	170	140

### Hose holder aluminium



Holding capacity 1/2" = 40 m / 3/4" = 30 m. Hole size 125 mm. W x H x D = 360 x 200 x 170 mm

R+M Nr.	M
110 06	polished stainless steel, 1.4301

### Hose holder

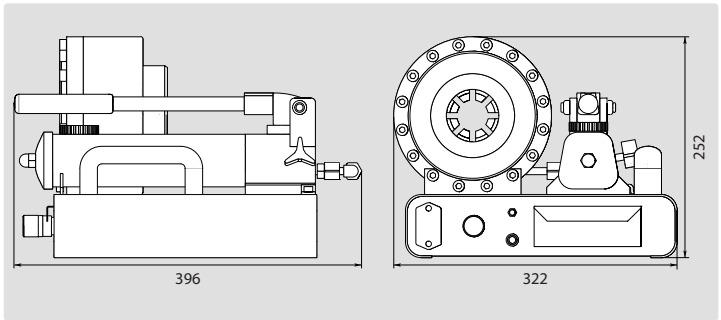


Holder with hooks. Suitable for scaffolding

R+M Nr.	TYP	holding capacity	1	2	3	4	5	6
110 01	S	1/4" = 30 m / 3/8" = 20 m	155	77	188	145	70	⊘ 5.5
110 02	M	3/8" = 30 m / 1/2" = 20 m	255	107	266	200	108	⊘ 6.0
110 03	L	1/2" = 30 m / 3/4" = 20 m	272	145	348	255	143	⊘ 8.0
110 031	XL	3/4" = 30 m / 1" = 20 m	366	162	417	307	187	⊘ 10.0

R+M Nr.	M
110 10	zinc-plated steel

## Hose press



R+M Nr.	pressing jaws incl.
300 0	5 sets (12 - 27 mm)

The P16 HP hose press is an innovative, high quality machine which is especially designed for the assembly and repair of hose lines. The handling of the press is easily learnt. Fundamental features of the P16 HP:

- » access to press head on both sides
- » compact model
- » two-stage hand pump
- » variable adjustment of press measures
- » check of press measures by signal light
- » carrying handle
- » integrated drawer in the housing for storing the pressing jaws

\* pressing jaws excluded

### Spare pressing jaws

TYP	press area	R+M Nr.
P16 HP-10 *	10 - 12 mm	300 001 0
P16 HP-12	12 - 14 mm	300 001 2
P16 HP-14	14 - 16 mm	300 001 4
P16 HP-16	16 - 19 mm	300 001 6
P16 HP-19	19 - 23 mm	300 001 9
P16 HP-23	23 - 27 mm	300 002 3
P16 HP-27 *	27 - 31 mm	300 002 7
P16 HP-31 *	31 - 36 mm	300 003 1

### Technical specifications

length of basic jaws	64 mm
max. opening diameter	min. press diameter + 20 mm
press performance	2-steel wire hose up to DN 25
press area	⊘ 10 - 45 mm
max. press power	720 kN
power	3.62 cm <sup>3</sup> / 0.90 cm <sup>3</sup>
pressure	14 bar / 630 bar
weight (without oil)	20 kg

Symbols ⊘ diameter M material TYP type 🚚 shipment by truck DN nominal diameter ⊙ thread

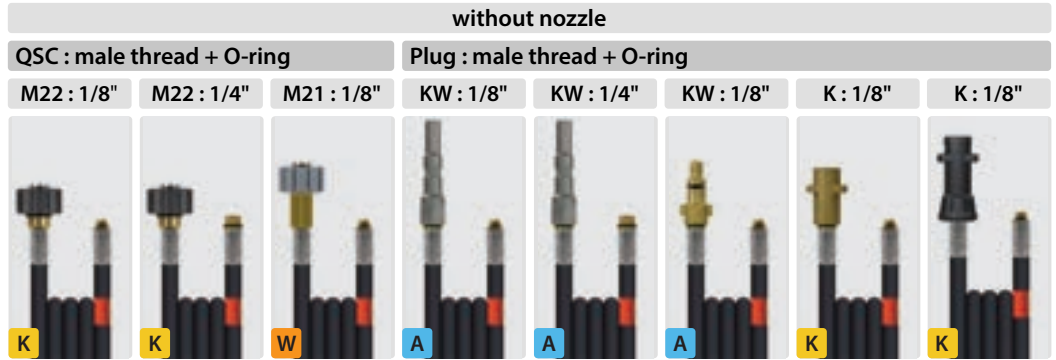






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Sewer cleaning hose assemblies

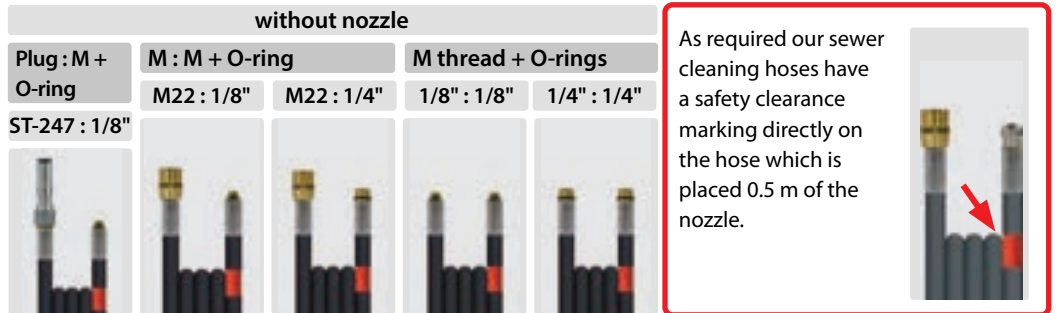


Hoses with single wire braid and smooth cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	
Flexy	6	300 bar	100 °C	10 m	420 300 010	420 301 010	420 315 010	420 335 010	420 336 010	420 330 010	420 345 010		
					15 m	420 300 015	420 301 015	420 315 015	420 335 015	420 336 015	420 330 015	420 345 015	
					20 m	420 300 020	420 301 020	420 315 020	420 335 020	420 336 020	420 330 020	420 345 020	
					25 m	420 300 025	420 301 025	420 315 025	420 335 025	420 336 025	420 330 025	420 345 025	
					30 m	420 300 030	420 301 030	420 315 030	420 335 030	420 336 030	420 330 030	420 345 030	

Plastic hoses with single fabric braid

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	
Polya	5	200 bar	20 °C	10 m	410 000 010		410 015 010	410 035 010		410 030 010		410 045 010	
					15 m	410 000 015		410 015 015	410 035 015		410 030 015		410 045 015
					20 m	410 000 020		410 015 020	410 035 020		410 030 020		410 045 020
					25 m	410 000 025		410 015 025	410 035 025		410 030 025		410 045 025
					30 m	410 000 030		410 015 030	410 035 030		410 030 030		410 045 030
Polya	5	120 bar	20 °C	10 m	400 000 010		400 015 010	400 035 010		400 030 010		400 045 010	
					15 m	400 000 015		400 015 015	400 035 015		400 030 015		400 045 015
					20 m	400 000 020		400 015 020	400 035 020		400 030 020		400 045 020
					25 m	400 000 025		400 015 025	400 035 025		400 030 025		400 045 025
					30 m	400 000 030		400 015 030	400 035 030		400 030 030		400 045 030



Hoses with single wire braid and smooth cover

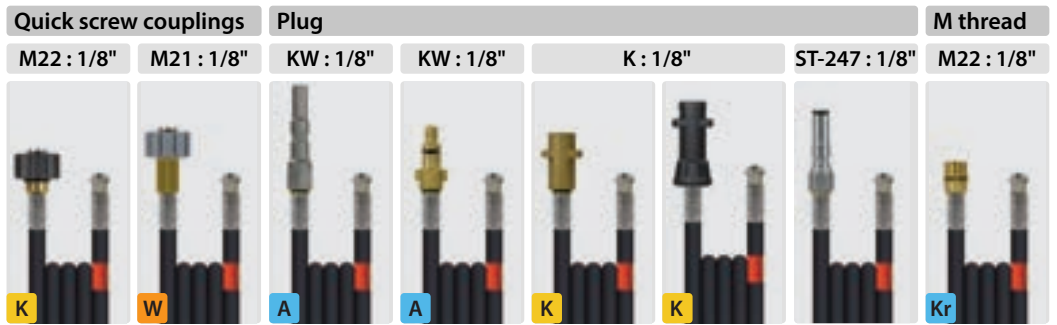
TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	
Flexy	6	300 bar	100 °C	10 m	420 361 010	420 310 010	420 311 010	420 340 010	420 342 010	
					15 m	420 361 015	420 310 015	420 311 015	420 340 015	420 342 015
					20 m	420 361 020	420 310 020	420 311 020	420 340 020	420 342 020
					25 m	420 361 025	420 310 025	420 311 025	420 340 025	420 342 025
					30 m	420 361 030	420 310 030	420 311 030	420 340 030	420 342 030

Plastic hoses with single fabric braid

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	
Polya	5	200 bar	20 °C	10 m		410 010 010		410 040 010		
					15 m		410 010 015		410 040 015	
					20 m		410 010 020		410 040 020	
					25 m		410 010 025		410 040 025	
					30 m		410 010 030		410 040 030	
Polya	5	120 bar	20 °C	10 m		400 010 010		400 040 010		
					15 m		400 010 015		400 040 015	
					20 m		400 010 020		400 040 020	
					25 m		400 010 025		400 040 025	
					30 m		400 010 030		400 040 030	

## Sewer cleaning hose assemblies

with nozzle



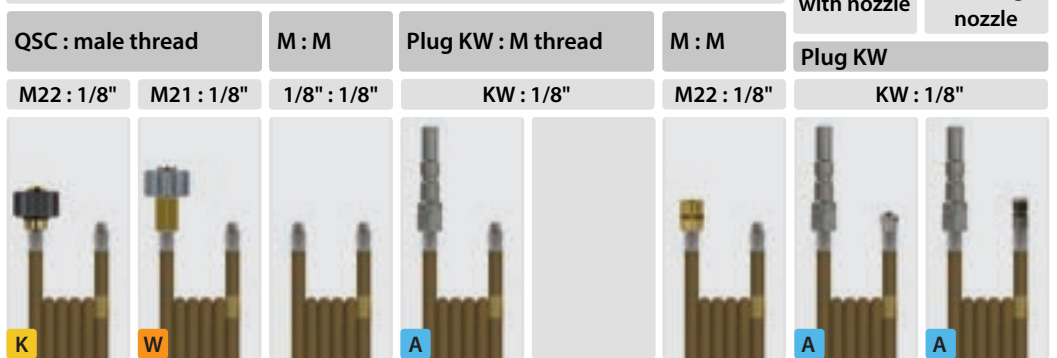
### Hoses with single wire braid and smooth cover

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	
Flexy	6	300 bar	100 °C	10 m	420 302 010	420 317 010	420 337 010	420 332 010	420 347 010		420 363 010	420 312 010	
					15 m	420 302 015	420 317 015	420 337 015	420 332 015	420 347 015		420 363 015	420 312 015
					20 m	420 302 020	420 317 020	420 337 020	420 332 020	420 347 020		420 363 020	420 312 020
					25 m	420 302 025	420 317 025	420 337 025	420 332 025	420 347 025		420 363 025	420 312 025
					30 m	420 302 030	420 317 030	420 337 030	420 332 030	420 347 030		420 363 030	420 312 030

### Plastic hoses with single fabric braid

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
Polya	5	200 bar	20 °C	8 m	410 002 008	410 017 008	410 037 008	410 032 008		410 047 008		410 012 008
				10 m	410 002 010	410 017 010	410 037 010	410 032 010		410 047 010		410 012 010
				15 m	410 002 015	410 017 015	410 037 015	410 032 015		410 047 015		410 012 015
				20 m	410 002 020	410 017 020	410 037 020	410 032 020		410 047 020		410 012 020
				25 m	410 002 025	410 017 025	410 037 025	410 032 025		410 047 025		410 012 025
				30 m	410 002 030	410 017 030	410 037 030	410 032 030		410 047 030		410 012 030
Polya	5	120 bar	20 °C	10 m	400 002 010	400 017 010	400 037 010	400 032 010		400 047 010		400 012 010
				15 m	400 002 015	400 017 015	400 037 015	400 032 015		400 047 015		400 012 015
				20 m	400 002 020	400 017 020	400 037 020	400 032 020		400 047 020		400 012 020
				25 m	400 002 025	400 017 025	400 037 025	400 032 025		400 047 025		400 012 025
				30 m	400 002 030	400 017 030	400 037 030	400 032 030		400 047 030		400 012 030

without nozzle

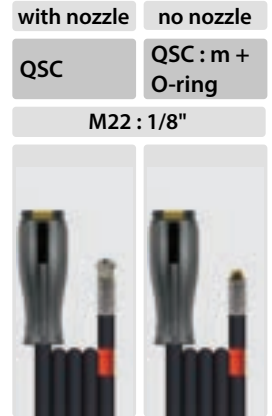
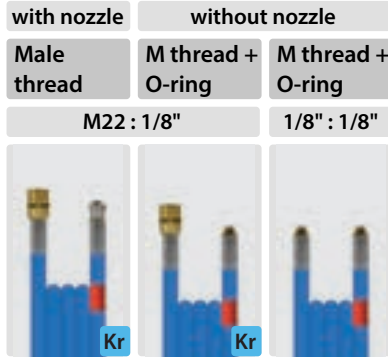


### Plastic hoses with single wire braid

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	
R+M 1	4	300 bar	99 °C	10 m	411 000 010	411 015 010	411 040 010	411 035 010		411 010 010	411 037 010	411 038 010
				15 m	411 000 015	411 015 015	411 040 015	411 035 015		411 010 015	411 037 015	411 038 015
				20 m	411 000 020	411 015 020	411 040 020	411 035 020		411 010 020	411 037 020	411 038 020
				25 m	411 000 025	411 015 025	411 040 025	411 035 025		411 010 025	411 037 025	411 038 025
				30 m	411 000 030	411 015 030	411 040 030	411 035 030		411 010 030	411 037 030	411 038 030

Symbols DN nominal diameter P pressure °C temperature ↔ length TYP type

**Sewer cleaning hose assemblies**



**Plastic hoses with single fabric braid**

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.
Polya	5	200 bar	20 °C	8 m	412 012 008	412 010 008	412 040 008
				10 m	412 012 010	412 010 010	412 040 010
				15 m	412 012 015	412 010 015	412 040 015
				20 m	412 012 020	412 010 020	412 040 020
				25 m	412 012 025	412 010 025	412 040 025
				30 m	412 012 030	412 010 030	412 040 030
40 m	412 012 040	412 010 040	412 040 040				

**Hoses with single wire braid and smooth cover**

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.
Flexy	6	300 bar	100 °C	10 m	420 302 321 0	420 300 321 0
				15 m	420 302 321 5	420 300 321 5
				20 m	420 302 322 0	420 300 322 0
				25 m	420 302 322 5	420 300 322 5
				30 m	420 302 323 0	420 300 323 0

**High pressure hoses with smooth cover - 500 bar**



**Hoses with double wire braid and smooth cover**

TYP	DN	P	°C	↔	R+M Nr.	R+M Nr.	R+M Nr.
Flexy	6	500 bar	150 °C	10 m	424 300 010 9	424 301 010 9	424 344 010 9
				15 m	424 300 015 9	424 301 015 9	424 344 015 9
				20 m	424 300 020 9	424 301 020 9	424 344 020 9

**Sewer cleaning hose assemblies with mini-nozzle**



Heat exchangers in thermal power stations or conveyor pipes in the food industry are often sewers of 10 to 12 mm in diameter. In order to clean them effectively from the inside a device for sewer cleaning with small diameters and high pressures is required.

We have also in this case the best possible solution for you!

"small" as desired and "powerful" with great performance.

We are talking about the new mini-device for sewer cleaning. Being only 9 mm in diameter the nozzle withstands the working pressure of up to 500 bar. Completely sensational or what do you think? The nozzle for sewer cleaning is made out of stainless steel and equipped with three jet outlets to the back and one forward.

The mini-nozzle for sewer cleaning is supplied with a black plastic hose with a nominal diameter of 2 and assembled with 1/8" M. The device is so suitable for all common high pressure cleaner.

R+M Nr.	DN	D	P	°C	↔
495 334 000 5	2	03	350 - 500 bar	60 °C	0.5 m
495 334 002 0	2	03	350 - 500 bar	60 °C	2.0 m
495 334 005 0	2	03	350 - 500 bar	60 °C	5.0 m
495 334 008 0	2	03	350 - 500 bar	60 °C	8.0 m
495 334 010 0	2	03	350 - 500 bar	60 °C	10.0 m
495 334 015 5	2	03	350 - 500 bar	60 °C	15.5 m
495 334 020	2	03	350 - 500 bar	60 °C	20.0 m
495 334 025	2	03	350 - 500 bar	60 °C	25.0 m

## Sewer cleaning hose assemblies

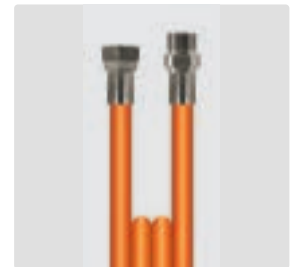
### sewerclean365+ PU-sewer cleaning hose

- » cut- and abrasion-resistant
- » extremely long operating life
- » highly tearproof by two-fold braid of aramid fibres and polyurethane surface
- » good swimming features
- » ageing resistant and weather-resistant surface
- » -40 °C - +60 °C, -40 °F - +140 °F



DKR : M

1/2" : 1/2"



All hoses are supplied together with a test certificate according to EN 10204.3.1.1.

DN	P	⊙	⊘	BP	↔
12	275 bar	12.7 mm	23.4 mm	840 bar	40 m
					60 m
					80 m
					100 m
					120 m

R+M Nr.
432 457 120 040
432 457 120 060
432 457 120 080
432 457 120 100
432 457 120 120

### sewerstar365+ rubber-sewer cleaning hose

- » highly abrasion-resistant with an extremely long operating life
- » high flexibility by especially developed rubber compound
- » extremely abrasion-resistant, ageing resistant and weather-resistant surface
- » easy handling by low weight
- » excellent pressure resistance and tensile strength
- » very low bending radius
- » wire braid for high stability
- » interior and surface are made out of NBR/SBR
- » -40 °C - +150 °C, -40 °F - +302 °F

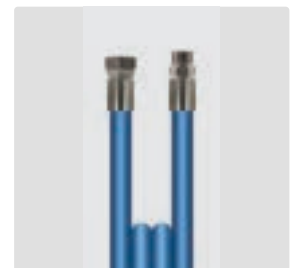
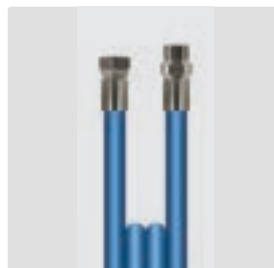
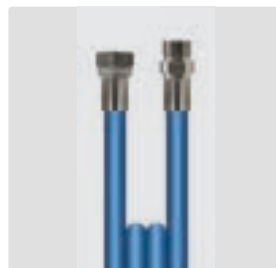


DKR : M

1/2" : 1/2"

3/8" : 3/8"

3/8" : 1/4"



DN	P	⊙	⊘	BP	↔
08	500 bar	7.9 mm	15.0 mm	1,260 bar	40 m
					80 m
10	280 bar	9.8 mm	16.9 mm	740 bar	40 m
					60 m
					80 m
					100 m
					120 m
12	250 bar	12.7 mm	22.6 mm	640 bar	40 m
					60 m
					80 m
					100 m
					120 m

R+M Nr.
432 557 100 040
432 557 100 060
432 557 100 080
432 557 100 100
432 557 100 120
432 557 120 040
432 557 120 060
432 557 120 080
432 557 120 100
432 557 120 120

R+M Nr.
432 558 080 040
432 558 080 080
432 558 100 040
432 558 100 060
432 558 100 080
432 558 100 100
432 558 100 120

R+M Nr.
432 556 080 040
432 556 080 080

Symbols DN nominal diameter ⊙ internal diameter ⊘ diameter P pressure BP burst pressure °C temperature shipment by truck D nozzle



### ST-71 hose reel with sewer cleaning hose



The ST-71 hose reel is equipped with a 15 m Flexy sewer cleaning hose DN 6. The frame of the reel is made out of stainless steel and the reel is made out of plastic.

The space-saving and orderly solution can either be hung up at the wall or refitted in high pressure cleaner.

The hose can be used as extension of high pressure hoses or as sewer cleaning hose.

Max. 300 bar / 100 °C

R+M Nr.	☺	☻
200 071 615	1/4" M	M22 M
200 071 620	1/8" M	M22 M
200 071 625	M22 F	M22 M
200 071 626	M22 F swivel	M22 M

### ST-540 foot valves



Incl. HP-gun ST-2605. Material housing powder-coated steel.  
Rubber feet.  
Max. 350 bar / 45 l/min / 150 °C



Incl. HP-gun ST-2750. Material housing powder-coated steel.  
Rubber feet.  
Max. 500 bar / 30 l/min / 150 °C



Incl. HP-gun ST-2750. Material housing powder-coated steel.  
Rubber feet.  
Max. 500 bar / 30 l/min / 150 °C

R+M Nr.	☺	☻
200 540 500	1/4" M	3/8" F

R+M Nr.	☺	☻
200 540 550	1/4" M	3/8" F

R+M Nr.	☺	☻
200 540 560	M22 M	M22 M

### ST-33 high Pressure Filter



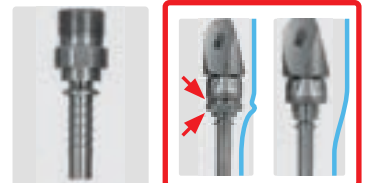
Brass with stainless steel filter. Bidirectional.  
Max. 400 bar / 40 l/min. / 150 °C

R+M Nr.	⌈	⊙	⊙
200 033 855	45.6 mm	1/4" M	1/4" F

### Crimp nipples

Stainless steel. Flat sealing

R+M Nr.	DN	⊙
315 393	8	1/4"
315 593	8	3/8"
315 693	10	3/8"
315 663	12	1/2"



### Reduction nipple



Stainless steel. 500 bar

R+M Nr.	☺	☻
040 002 207	1/4" F	1/8" M

Protective clothing is shown on the pages 537-538.

Symbols ⊞ nozzle DN nominal diameter ☺ outlet ☻ inlet ⊘ diameter ⊙ thread ⌈ height



## Suttner nozzles for sewer cleaning ST-49

### Nozzles without centric hole

With 3 or 4 rear jets (45°) for maximum thrust and simultaneously, a flushing away of the waste material. Stainless steel. Max. 250 bar



1/8" F. Ø 15 mm. Stainless steel



1/4" F. Ø 19 mm. Stainless steel



3/8" F. Ø 24 mm. Stainless steel

D
035
04
045
05
055
06
07
090
12

R+M Nr.
650 01
650 05
650 00
650 09
650 10
650 40

R+M Nr.
651 05
651 04
651 00
651 08
651 16
651 10
651 40
651 48

R+M Nr.
651 84

### Nozzles with centric hole

Cleaning of clogged pipes. With centric front jet and 3 or 4 rear jets (45°). Front jet for penetrating of completely clogged pipes and frozen pipelines, rear jets for flushing away of the waste material. Stainless steel. Max. 250 bar



1/8" F. Ø 15 mm. Stainless steel



1/4" F. Ø 19 mm. Stainless steel



3/8" F. Ø 24 mm. Stainless steel

D
035
04
045
05
055
06
065
075
08
090
10
11
12
15
20

R+M Nr.
122 370 170
650 60
650 50
650 55
650 56
650 20
650 30

R+M Nr.
651 14
651 12
651 13
651 15
651 18
651 20
651 25
651 30
651 46

R+M Nr.
651 88
651 87
651 89
651 86
651 85
651 83
651 82
651 81

**Suttner rotating nozzles for sewer cleaning ST-49.1**

Rotating nozzles ST-49.1 without centric hole



1/8" F.  $\varnothing$  19 mm. Max. 250 bar



1/4" F.  $\varnothing$  19 mm. Max. 250 bar



3/8" F.  $\varnothing$  24 mm. Max. 250 bar

D
04
045
05
055
06
07
08
090
10
12
15
20

R+M Nr.
200 049 825
200 049 830
200 049 835
200 049 840
200 049 845
200 049 850

R+M Nr.
200 049 794
200 049 795
200 049 800
200 049 805
200 049 810
200 049 815
200 049 820
200 049 821
200 049 822
200 049 823
200 049 824

R+M Nr.
651 61 *

R+M Nr.
651 62 **

R+M Nr.
200 049 860
200 049 870
200 049 880
200 049 890
200 049 891
200 049 892
200 049 893
200 049 894
200 049 895

ST-49.1 with centric hole



3/8" F.  $\varnothing$  24 mm. Max. 250 bar

D
10
12
15
18

R+M Nr.
200 049 896
200 049 897
200 049 898
200 049 899

**Suttner mini rotating nozzles for sewer cleaning ST-49.3**

1/8" F. Nozzle with thrust.  $\varnothing$  12 mm.  
 Ideal for cleaning or flushing out pipes as well as adjoining lateral pipes at any angle. Small pump capacities required, only. 2 rotating radial jets (90°) to the pipe wall for best cleaning results.  
 2 rotating rear jets (45°) for forward thrust and flushing away of the waste material. Suitable for pipes from 14 - 50 mm. Hardened stainless steel. Max. 500 bar

- Applications:**
- » Cleaning of deposits
  - » Cleaning of grease, fat and organic deposits
  - » To clean heat exchangers



R+M Nr.	D
200 049 950	05
200 049 970	07



\* Two side jets

\*\* Additional two side jets and three front jets. Reduced thrust, only.

Symbols  $\square$  nozzle  $\varnothing$  diameter  $\odot$  inlet  $\triangle$  rear jets  $\rightarrow$  flow

## ST-49 nozzles for sewer cleaning

### Sewer cleaning nozzles with male thread



Due to its conical front design this is the ideal solution to make its way through tight bends and traps. Ideal for hobby and semi-professional use. rear jets for maximum thrust. Nozzle drillings as stepped bore for protection against mechanical impact.

Outside  $\varnothing$  15 mm.

Brass.

Max. 210 bar / 16 l/min



Due to its conical front design this is the ideal solution to make its way through tight bends and traps. rear jets for maximum thrust and high cleaning impact. Front jet to blast through roots and scale or de-icing. Nozzle drillings as stepped bore for best protection against mechanical impact.

Outside  $\varnothing$  15 mm.

Stainless steel.

Max. 350 bar / 17 l/min



Due to its conical front design this is the ideal solution to make its way through tight bends and traps. rear jets for maximum thrust and best wall coverage. Front jet to blast through roots and scale or de-icing. Nozzle drillings as stepped bore for best protection against mechanical impact.

Outside  $\varnothing$  17 mm.

Stainless steel.

Max. 350 bar / 25 l/min

R+M Nr.		D	
121 000 360	1/4" M	035	3

R+M Nr.		D	
121 160 360	1/4" M	040	3

R+M Nr.		D	
123 160 860	3/8" M	060	8



Compact and heavy construction with rear jets. For standard cleaning and desilting applications. Outside  $\varnothing$  25 mm. Stainless steel.

Max. 500 bar / 40 l/min

R+M Nr.		D	
120 000 312	1/2" M	080	3



Drain cleaning nozzle suitable for use on most van and trailer mounted cleaning machines. rear jets for higher thrust.

Front jet to blast through roots and scale or de-icing.

Conical head for tight bends and offsets.

Outside  $\varnothing$  24.2 mm. Stainless steel. Max. 500 bar / 45 l/min

R+M Nr.		D	
120 110 410	1/2" M	090	4 (30°)

### Sewer cleaning nozzles with female thread



Due to its very compact design this is the ideal solution for tight elbows. rear jets for maximum thrust and powerful cleaning impact.

\*Front jet to blast through roots and scale or de-icing.

1/8" F. Outside  $\varnothing$  15 mm.

Hardened stainless steel.

Max. 500 bar



Due to its very compact design this is the ideal solution for tight elbows. rear jets for maximum thrust and powerful cleaning impact.

Front jet to blast through roots and scale or de-icing.

Outside  $\varnothing$  22 mm.

Hardened stainless steel.

Max. 500 bar / 30 l/min.



Due to its very compact design this is the ideal solution for tight elbows. rear jets for maximum thrust and best wall coverage.

Outside  $\varnothing$  22 mm.

Hardened stainless steel.

Max. 500 bar / 30 l/min



Due to its conical front design this is the ideal solution to make its way through tight bends and traps.

rear jets for maximum thrust and powerful cleaning impact.

Front jet to blast through roots and scale or de-icing.

Outside  $\varnothing$  22 mm.

Hardened stainless steel.

Max. 500 bar / 25 l/min

R+M Nr.	D		
120 155 375*	035	17 l/min	3
120 000 655	055	30 l/min	6
120 155 655*	055	35 l/min	6

R+M Nr.		D	
120 163 391	1/4" F	050	3

R+M Nr.		D	
120 000 675	1/4" F	060	6

R+M Nr.		D	
120 163 390	1/4" F	045	3
120 163 397	1/4" F	065	6
120 163 398	1/4" F	080	6

## ST-49 nozzles for sewer cleaning

## Sewer cleaning nozzles with female thread

## Hydro Mole

With its 3 very strong concentrated forward jets the Hydro Mole will tear through almost any kind of blockage.  
Front jets to blast thru roots and scale or for de-icing.

Nozzle drilling as stepped bore for best protection against mechanical impact.  
Made of wear-resistant, hardened stainless steel.



Outside  $\varnothing$  22 mm.  
Hardened stainless steel.  
Max. 500 bar / 35 l/min.

R+M Nr.		
120 460 385	1/4" F	070



Outside  $\varnothing$  22 mm.  
Hardened stainless steel.  
Max. 500 bar / 32 l/min.

R+M Nr.		
120 163 392	1/4" F	065



Outside  $\varnothing$  25 mm.  
Hardened stainless steel.  
Max. 500 bar / 32 l/min.

R+M Nr.		
120 163 393	3/8" F	065

## Grease ball



rear jets for extreme thrust and highest wall coverage of the pipe. Designed for the ability to clean grease off the sidewall of pipes but has proven to be great on root chokes, too. Completely spherical shape.

Nozzle drilling as stepped bore for best protection against mechanical impact.

Hardened stainless steel.  
Max. 500 bar

R+M Nr.			
120 000 860	1/4" F	080	8 (0,6 mm)

## Root rat



Equipped with rear jets for maximum thrust and 3 additional nozzles (45°) right behind its nose for better cleaning results and wall coverage the nozzle has proven to be ideal on root chokes.

Hardened stainless steel.  
Max. 500 bar / 30 l/min

R+M Nr.			
120 155 672	1/4" F	060	3 (30°)

## Mini-nozzles for sewer cleaning

Heat exchangers in thermal power stations or conveyor pipes in the food industry are often sewers of 10 to 12 mm in diameter. In order to clean them effectively from the inside a device for sewer cleaning with small diameters and high pressures is required.

Being only 9.8 mm in diameter the nozzle withstands the working pressure of up to 500 bar.

Together with our R+M 1 / Bronze hose (30420) the complete sewer cleaning unit will be rated up to 300 bar and 100° C



Crimp nipple.  
DN 4.  
M7 M.  
Stainless steel.  
Max. 500 bar

R+M Nr.	
040 001 946	22



M7 F. rear jets for maximum thrust and powerful cleaning impact.  
Outside  $\varnothing$  9.8 mm.  
Stainless steel.  
Max. 500 bar

R+M Nr.		
120 000 380	030	3
120 001 380	065	3



M7 F. rear jets for maximum thrust. Additional 3 side jets (90°) for powerful cleaning impact and optimal wall coverage.  
Outside  $\varnothing$  9.8 mm. Stainless steel.  
Max. 500 bar

R+M Nr.		
120 373 373	065	3

## Milling Type Nozzles ST-49

With its 3 to 4 very strong concentrated forward jets and the sharp cutting edges the milling type nozzles will tear through almost any kind of blockage. The sharp edges cut, break and penetrate through every kind of blockage. Made out of wear-resistant, hardened stainless steel. All nozzles are equipped with replaceable hardened stainless steel rear and

centric front jets. Due to this feature the efficiency is considerably higher compared to those nozzles with drilled holes and the service life is several times longer. Max. 300 / 350 bar

### Applications:

- » Penetration of completely clogged pipes
- » Opening of root masses
- » Opening of frozen pipelines
- » Hydraulic thrust boring flushing operations

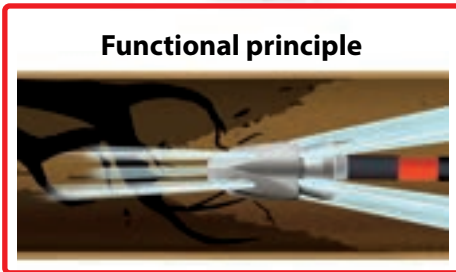


350 bar. 1/4" F.  $\leftarrow$  50 mm,  $\varnothing$  = 25 mm,  $\boxplus$  0.13 kg. For tubes > 30 mm.

350 bar. 3/8" F.  $\leftarrow$  55 mm,  $\varnothing$  = 28 mm,  $\boxplus$  0.13 kg. For tubes > 50 mm.

Lateral front jets 0.5 mm drilled

Lateral front jets with hardened stainless steel nozzle inserts



Functional principle

R+M Nr.	D	Front	$\boxplus$
649 010 234 045	045	3	4
649 010 234 050	050	3	4
649 010 234 055	055	3	4
649 010 244 060	060	4	4
649 010 244 070	070	4	4
649 010 244 080	080	4	4
649 010 244 085	085	4	4
649 010 244 100	100	4	4
649 010 244 120	120	4	4
649 010 244 150	150	4	4
649 010 244 200	200	4	4

R+M Nr.	D	Front	$\boxplus$
649 010 336 055	055	3	6
649 010 346 070	070	4	6
649 010 346 080	080	4	6
649 010 346 100	100	4	6
649 010 346 120	120	4	6
649 010 346 150	150	4	6
649 010 346 200	200	4	6
649 010 346 250	250	4	6
649 010 346 270	270	4	6



350 bar. 1/2" F.  $\leftarrow$  68 mm,  $\varnothing$  = 31 mm,  $\boxplus$  0.17 kg. For tubes > 60 mm

300 bar. 3/4" F.  $\leftarrow$  80 mm,  $\varnothing$  = 38 mm,  $\boxplus$  0.29 kg. For tubes > 60 mm

300 bar. 1" F.  $\leftarrow$  100 mm,  $\varnothing$  = 50 mm,  $\boxplus$  0.64 kg. For tubes > 100 mm

Lateral front jets with hardened stainless steel nozzle inserts

Lateral front jets with hardened stainless steel nozzle inserts

Lateral front jets with hardened stainless steel nozzle inserts

R+M Nr.	D	Front	$\boxplus$
649 010 446 100	100	4	6
649 010 446 120	120	4	6
649 010 446 150	150	4	6
649 010 446 200	200	4	6
649 010 446 250	250	4	6
649 010 446 270	270	4	6
649 010 446 310	310	4	6
649 010 446 495	495	4	6
649 010 446 580	580	4	6

R+M Nr.	D	Front	$\boxplus$
649 010 546 120	120	4	6
649 010 546 150	150	4	6
649 010 546 180	180	4	6
649 010 546 200	200	4	6
649 010 546 250	250	4	6
649 010 546 270	270	4	6
649 010 546 310	310	4	6
649 010 546 450	450	4	6
649 010 546 495	495	4	6

R+M Nr.	D	Front	$\boxplus$
649 010 549 120	120	4	9
649 010 549 150	150	4	9
649 010 549 180	180	4	9
649 010 549 200	200	4	9
649 010 549 265	265	4	9
649 010 549 285	285	4	9
649 010 549 345	345	4	9
649 010 549 445	445	4	9
649 010 549 545	545	4	9

Symbols  $\square$  nozzle  $\square$  inlet  $\varnothing$  diameter  $\leftarrow$  length mm  $\boxplus$  weight  $\boxplus$  rear jets



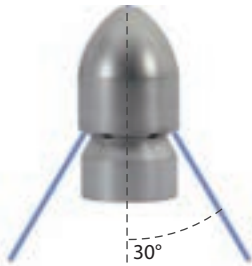
**ST-49 Ball type nozzle, 30°**

Made out of wear-resistant, hardened stainless steel provided with front jet insert or blind plug (interchangeable). Angle of jet is 30°, sturdy wall thickness, long service life and a minimum of wear and tear. All nozzles are provided with hardened stainless steel inserts. Due to this feature the

efficiency is considerably higher compared with those nozzles with drilled holes and the service life is several times longer.  
Max. 500 bar

**Applications:**

- » Suitable for removal of sludge deposits
- » Desilting of pipes
- » Opening of frozen pipelines



1/4" F.  
Outside  $\varnothing$  25 mm.  
rear jets, with front jet

R+M Nr.	D	rear jets
649 030 216 060	060	6
649 030 216 080	080	6
649 030 216 100	100	6
649 030 216 120	120	6
649 030 216 150	150	6
649 030 216 200	200	6



3/8" F.  
Outside  $\varnothing$  30 mm.  
rear jets, with front jet

R+M Nr.	D	rear jets
649 030 314 060	060	4
649 030 314 080	080	4
649 030 314 100	100	4
649 030 314 120	120	4
649 030 314 150	150	4
649 030 314 200	200	4



3/8" F.  
Outside  $\varnothing$  30 mm.  
rear jets, with front jet

R+M Nr.	D	rear jets
649 030 316 060	060	6
649 030 316 080	080	6
649 030 316 100	100	6
649 030 316 120	120	6
649 030 316 150	150	6
649 030 316 200	200	6



1/2" M. MR cone.  
Outside  $\varnothing$  30 mm.  
rear jets, with front jet

R+M Nr.	D	rear jets
649 040 416 060	060	6
649 040 416 080	080	6
649 040 416 100	100	6
649 040 416 120	120	6
649 040 416 150	150	6
649 040 416 200	200	6



1/2" F.  
Outside  $\varnothing$  30 mm.  
rear jets, with front jet

R+M Nr.	D	rear jets
649 030 416 060	060	6
649 030 416 080	080	6
649 030 416 100	100	6
649 030 416 120	120	6
649 030 416 150	150	6
649 030 416 200	200	6
649 030 416 315	315	6



3/4" F.  
Outside  $\varnothing$  38 mm.  
rear jets, with front jet

R+M Nr.	D	rear jets
649 030 516 100	100	6
649 030 516 120	120	6
649 030 516 150	150	6
649 030 516 170	170	6
649 030 516 200	200	6
649 030 516 250	250	6



1" F.  
Outside  $\varnothing$  48 mm.  
rear jets, with front jet

R+M Nr.	D	rear jets
649 030 618 120	120	8
649 030 618 150	150	8
649 030 618 170	170	8
649 030 618 210	210	8
649 030 618 260	260	8
649 030 618 315	315	8
649 030 618 390	390	8



M22x1.5 M.  
Outside  $\varnothing$  25 mm.  
rear jets

R+M Nr.	D	rear jets
120 000 833*	090	6



TR22 M\*\*.  
Outside  $\varnothing$  25 mm.  
rear jets

R+M Nr.	D	rear jets
120 000 832	090	6

\*\* thread coated with microencapsulated thread locking fluid  
\* stainless steel

Symbols  $\varnothing$  nozzle  $\varnothing$  diameter rear jets



## ST-49 Ball type nozzle, 20°

Made out of stainless steel provided with front jet insert or blind plug (interchangeable). Angle of jet is 20°, sturdy wall thickness, long service life and a minimum of wear and tear. All nozzles are provided with hardened stainless steel inserts. Due to this feature the efficiency is considerably

higher compared with those nozzles with drilled holes and the service life is several times longer.  
Max. 500 bar

### Applications:

- » Suitable for removal of sludge deposits
- » Desilting of pipes
- » Opening of frozen pipelines



1/4" F.  
Outside  $\varnothing$  25 mm.  
rear jets

R+M Nr.	D	Ⓐ
649 090 206 060	060	6
649 090 206 080	080	6
649 090 206 100	105	6
649 090 206 120	120	6
649 090 206 160	160	6
649 090 206 200	200	6



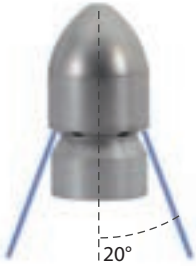
1/4" F.  
Outside  $\varnothing$  25 mm.  
rear jets, with front jet

R+M Nr.	D	Ⓐ
649 090 216 060	060	6
649 090 216 080	080	6
649 090 216 100	100	6
649 090 216 120	120	6
649 090 216 150	150	6
649 090 216 200	200	6



3/8" F.  
Outside  $\varnothing$  30 mm.  
rear jets

R+M Nr.	D	Ⓐ
649 090 306 060	060	6
649 090 306 080	080	6
649 090 306 100	105	6
649 090 306 120	120	6
649 090 306 160	160	6
649 090 306 200	200	6



3/8" F.  
Outside  $\varnothing$  30 mm.  
rear jets, with front jet

R+M Nr.	D	Ⓐ
649 090 316 060	060	6
649 090 316 080	080	6
649 090 316 100	100	6
649 090 316 120	120	6
649 090 316 150	150	6
649 090 316 200	200	6

**Jet angle INFO**

**30° = more efficient wall cleaning**

**20° = better traction**

**Coupling-system ST-245**

**Nipple ST-245**



☉ 1/4" M.  
Stainless steel.  
Max. 350 bar

<b>R+M Nr.</b>	☉
040 005 447	27.5



☉ 1/4" M.  
Stainless steel.  
Max. 350 bar

<b>R+M Nr.</b>	☉
040 005 446	33.5



☉ 1/4" M. Stainless  
steel. Max. 350 bar.  
For wear cone

<b>R+M Nr.</b>	☉
040 005 445 <b>3</b>	42.0



4

Suitable for all  
1/4" F nozzles for  
sewer cleaning.

4

3

2

1

**ST-245 Coupling / wear cone ST-245**



<b>R+M Nr.</b>	☉
200 245 500 <b>1</b>	1/4" F



<b>R+M Nr.</b>	☉
200 245 510 <b>1</b>	3/8" M



Stainless steel.  
For 040 005 445

<b>R+M Nr.</b>
040 005 431 <b>2</b>



POM. Red.  
For 040 005 445

<b>R+M Nr.</b>
020 005 432 <b>2</b>



POM. Black.  
For 040 005 445

<b>R+M Nr.</b>
020 005 431 <b>2</b>

Symbols ☉ outlet ☉ inlet ☉ length

## Small plough jet nozzle

For 2 fan jets 1/4" M NPT



Fitted with two rear facing fan jets the small plough jet nozzle is great for desilting drains and sewers. The heavy forged brass construction keeps the jet firmly planted in the base of the pipe where the silt deposits collect and blasts them back towards the manhole.

Width approx. 72 mm. Weight 1.5 kg.

Max. 420 bar / 150° C / 80 l/min.

1/4"-nozzles need to be assembled under 45° to achieve best cleaning results. Select nozzle size according to pressure and flow rate of the machine.

R+M Nr.		
010 000 399	1/2" F	2 x 1/4" F NPT

For 2 ST-357 rotating nozzles



Fitted with two rear facing ST-357 rotating nozzles the small plough jet nozzle is the ideal solution for desilting drains and sewers.

The heavy forged brass construction keeps the jet firmly planted in the base of the pipe where the silt deposits collect and blasts them back towards the manhole.

Width approx. 88 mm. Weight 2.5 kg.

Max. 350 bar / 90° C / 80 l/min.

Select rotor nozzle size symmetric according to pressure and flow rate of the machine.

R+M Nr.		
200 049 410	3/8" F	2 x 1/4" M

Our rotating nozzles are on page 283.

## Rotating nozzle adaptor

Designed for connecting the ST-357 rotating nozzle to a sewer cleaning hose. Hardened stainless steel body with extra sharp edges.

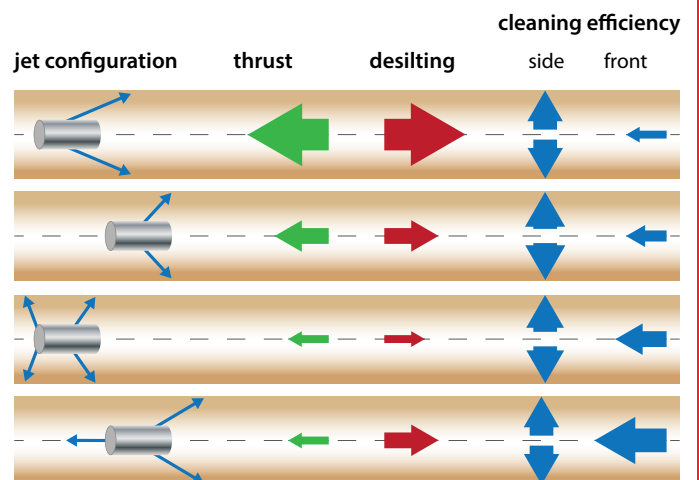
Max. 400 bar

For ST-357 rotating nozzle



R+M Nr.		
200 049 405	1/4" F	1/4" M

## Possible jet configurations



**Jetter Valves**



Jetter valves are special valve assemblies which allow to shut off one particular intake valve. The jetter valve cuts off the flow of one of the three pistons of the jetter pump. Due to this the pump starts pulsating which causes significant vibrations at the nozzle and an increased cleaning effect at a reduced flow rate (approx. -1/3 of the full flow rate of the pump). Jetter valves create vibrations to help the hose sliding around tight bends in small lines. Jetter valves should not be combined with pulsation dampers in one jetter unit. Pulsation can be started or stopped by a lever or hand wheel at the jetter valve.

R+M Nr.	TYP
170 402 35	XT, XM
170 401 61	RK
170 402 36	XW

**Tip cleaner**



High speed steel (HSS) with aluminium shaft.  
 ⇄ 42 mm

R+M Nr.	∅
200 049 042	0.5

**Drain jet extension**

**Lance with female thread**

1/4" M : 1/4" F BSP.  
 Drain jet extension for cleaning pipes and shafts of large diameter to prevent reversal in direction of travel.  
 Max. 400 bar



R+M Nr.	⇄	M
070 000 097	100 mm	stainless steel
070 000 098	150 mm	stainless steel
070 000 099	200 mm	stainless steel
070 000 095	250 mm	stainless steel
070 000 101	350 mm	stainless steel

**Towing-Eye Kit ST-49**



For M5 nozzle bodies

R+M Nr.	∅
200 049 015	0,5



**Sting extension**



Hardened stainless steel.  
 For M5 nozzle bodies

R+M Nr.	∅
040 075 090	M5 M



**Functional principle**



Symbols ∅ diameter TYP type ⇄ length M material

## ST-49.2 Rotating nozzles

Stainless steel. Brazen rotating body. Excellent cleaning by rotating nozzle jets. Exchangeable inserts included.

Excellent pulling power by min. 4 rear jets specially placed. Pressure max. 350 bar.



1/4" F. rear jets. 3 side jets.  
Outside  $\varnothing$  30 mm.  
317 g.

3/8" F. rear jets. 3 side jets.  
Outside  $\varnothing$  30 mm.  
307 g.

1/2" F. rear jets. 3 side jets.  
Outside  $\varnothing$  38 mm.  
585 g.

3/4" F. rear jets. 3 side jets.  
Outside  $\varnothing$  38 mm.  
554 g.

R+M Nr.	D	rear jets	side jets	Length
649 050 234 060	060	4	69 mm	
649 050 234 080	080	4	69 mm	
649 050 234 105	105	4	69 mm	
649 050 234 130	130	4	69 mm	
649 050 234 150	150	4	69 mm	
649 050 234 200	200	4	69 mm	

R+M Nr.	D	rear jets	side jets	Length
649 050 334 080	080	4	69 mm	
649 050 334 105	105	4	69 mm	
649 050 334 130	130	4	69 mm	
649 050 334 150	150	4	69 mm	
649 050 334 200	200	4	69 mm	
649 050 334 250	250	4	69 mm	

R+M Nr.	D	rear jets	side jets	Length
649 050 435 100	100	5	84 mm	
649 050 435 120	120	5	84 mm	
649 050 435 150	150	5	84 mm	
649 050 435 200	200	5	84 mm	
649 050 435 250	250	5	84 mm	
649 050 435 300	300	5	84 mm	

R+M Nr.	D	rear jets	side jets	Length
649 050 536 130	130	6	84 mm	
649 050 536 150	150	6	84 mm	
649 050 536 200	200	6	84 mm	
649 050 536 250	250	6	84 mm	
649 050 536 300	300	6	84 mm	
649 050 536 375	375	6	84 mm	

## ST-49.2 VIBRA Rotating nozzles

Stainless steel. Brazen rotating body. Excellent cleaning by rotating nozzle jets and vibration for the reduction of the friction between hose and pipe wall. Exchangeable inserts included.

Excellent pulling power by min. 4 rear jets specially placed. Pressure max. 350 bar.



1/4" F. rear jets. 3 side jets.  
Outside  $\varnothing$  30 mm.  
314 g.

3/8" F. rear jets. 3 side jets.  
Outside  $\varnothing$  30 mm.  
305 g.

1/2" F. rear jets. 3 side jets.  
Outside  $\varnothing$  38 mm.  
580 g.

3/4" F. rear jets. 3 side jets.  
Outside  $\varnothing$  38 mm.  
550 g.

R+M Nr.	D	rear jets	side jets	Length
649 070 234 060	060	4	69 mm	
649 070 234 080	080	4	69 mm	
649 070 234 105	105	4	69 mm	
649 070 234 130	130	4	69 mm	
649 070 234 150	150	4	69 mm	
649 070 234 200	200	4	69 mm	

R+M Nr.	D	rear jets	side jets	Length
649 070 334 080	080	4	69 mm	
649 070 334 105	105	4	69 mm	
649 070 334 130	130	4	69 mm	
649 070 334 150	150	4	69 mm	
649 070 334 200	200	4	69 mm	
649 070 334 250	250	4	69 mm	

R+M Nr.	D	rear jets	side jets	Length
649 070 435 100	100	5	84 mm	
649 070 435 130	130	5	84 mm	
649 070 435 150	150	5	84 mm	
649 070 435 200	200	5	84 mm	
649 070 435 250	250	5	84 mm	
649 070 435 300	300	5	84 mm	

R+M Nr.	D	rear jets	side jets	Length
649 070 536 130	130	6	84 mm	
649 070 536 150	150	6	84 mm	
649 070 536 200	200	6	84 mm	
649 070 536 250	250	6	84 mm	
649 070 536 300	300	6	84 mm	
649 070 536 375	375	6	84 mm	

### Functional principle





**Rotating nozzles with drivers**

Rotor nozzle driver and rotor nozzles are the perfect combination for drilling through blockages with its rotary forward facing jet. Driven up to the blockage by 6 powerful rear facing hardened stainless steel nozzles the high speed forward facing spinning jet creates a cone shape that has

enough cutting force to blast through roots and scale. It is also ideal for cutting up and shredding tissue and fat deposits



ST-357.1. Max. 250 bar / 100 °C

R+M Nr.	D	G
649 140 216 065	065	1/4" F
649 140 216 085	085	1/4" F
649 140 216 095	095	1/4" F
649 140 216 110	110	1/4" F
649 140 216 120	120	1/4" F
649 140 216 130	130	1/4" F
649 140 216 140	140	1/4" F

R+M Nr.	D	G
649 140 316 100	100	3/8" F
649 140 316 135	135	3/8" F
649 140 316 145	145	3/8" F
649 140 316 160	160	3/8" F
649 140 316 180	180	3/8" F
649 140 316 200	200	3/8" F
649 140 316 235	235	3/8" F



ST-458.1. Max. 400 bar / 100 °C

R+M Nr.	D	G
649 160 316 125	125	3/8" F
649 160 316 145	145	3/8" F
649 160 316 160	160	3/8" F
649 160 316 180	180	3/8" F
649 160 316 200	200	3/8" F
649 160 316 235	235	3/8" F
649 160 316 250	250	3/8" F

R+M Nr.	D	G
649 160 416 150	150	1/2" F
649 160 416 170	170	1/2" F
649 160 416 195	195	1/2" F
649 160 416 215	215	1/2" F
649 160 416 240	240	1/2" F
649 160 416 275	275	1/2" F
649 160 416 300	300	1/2" F

**Functional principle**



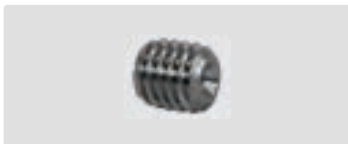
**Driver for rotating nozzles**



Hardened stainless steel. 6 M5 threads for nozzle inserts (see table below)

R+M Nr.	G	G	for	P
040 075 200	1/4" F	1/4" M	ST-357/ST-456	350 bar
040 075 205	3/8" F	1/4" M	ST-357/ST-456	350 bar
040 075 210	3/8" F	1/4" M	ST-458/ST-559	500 bar
040 075 215	1/2" F	1/4" M	ST-458/ST-559	500 bar

**Nozzle Inserts**

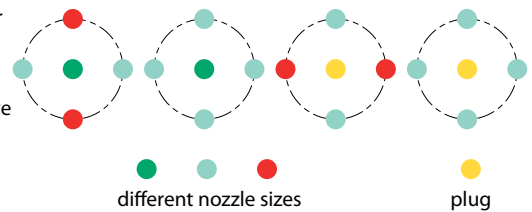


Full jet. 500 bar.  
Hex for allen key 2.5 mm.  
Hardened stainless steel

R+M Nr.	TYP	hole-∅	nozzle size
040 075 000	M5	plug	0
040 075 005	M5	0.50 mm	0066
040 075 006	M5	0.60 mm	0085
040 075 007	M5	0.70 mm	0117
040 075 008	M5	0.75 mm	0133
040 075 009	M5	0.80 mm	0161
040 075 010	M5	1.00 mm	0237
040 075 012	M5	1.10 mm	0293
040 075 015	M5	1.30 mm	0458
040 075 020	M5	1.90 mm	0885

**Nozzle configuration**

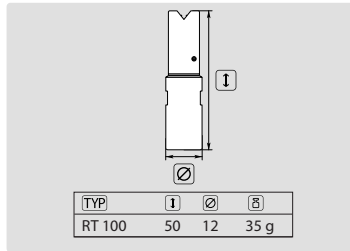
Nozzle inserts for sewer cleaning nozzles and nozzle driver have to be installed **symmetrically**.





## Sewer cleaning nozzles

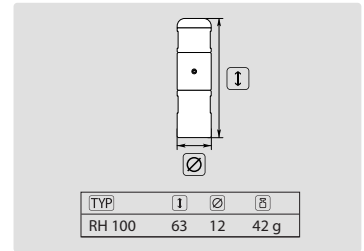
### Rotating nozzles RT . 1,000 bar



Stainless steel. Rotating body hp-bronze. Compact model, universally applicable. Extreme cleaning performance, removes hard deposits. Pressure max. 1,000 bar

R+M Nr.	TYP	⊖	⊙	side jet	front jet
652 710 006	RT 100	6 l/100 bar	1/8" F	2	2
652 710 014	RT 100	14 l/100 bar	1/8" F	2	2

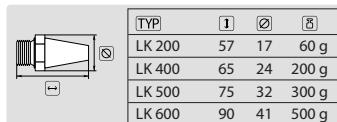
### Rotating nozzles RH . 1,000 bar



Stainless steel. Rotating body hp-bronze. Compact model, universally applicable. Extreme cleaning performance, removes hard deposits. Pressure max. 1,000 bar

R+M Nr.	TYP	⊖	⊙	side jet
652 810 006	RH 100	6 l/100 bar	1/8" F	2
652 810 010	RH 100	10 l/100 bar	1/8" F	2
652 810 014	RH 100	14 l/100 bar	1/8" F	2

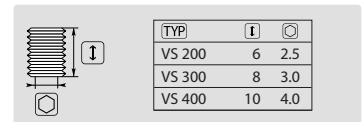
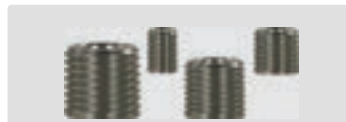
### Cone shape nozzles LK . 500 bar \*



Stainless steel. Extremely high impact force. Long reach. Pressure max. 500 bar. Applications: cleaning of shafts. Delivery time of approx. 3 - 4 weeks

R+M Nr.	TYP	orifice ∅	⊙
652 400 01	LK 200	2 - 5 mm	1/4" M
652 400 02	LK 400	3 - 6 mm	1/2" M
652 400 03	LK 500	3 - 7 mm	3/4" M
652 400 04	LK 600	4 - 8 mm	1" M

### Nozzle inserts solid stream VS . 500 bar



Stainless steel. Pressure max. 500 bar

R+M Nr.	TYP	orifice ∅	⊙
652 600 02	VS 200	0.6 - 2.0 mm	M6
652 600 03	VS 300	0.6 - 2.5 mm	M8
652 600 04	VS 400	0.6 - 3.8 mm	M10

**\* When placing an order, please state flow rate + pressure!**

Symbols TYP type ⊙ thread R pipe ⊖ flow ⊗ weight ∅ diameter ⊖ length mm ⊕ inlet ⊗ outlet I height

**HYDRO-Excavation Nozzles**

In all geological areas fast and effective:

- » Areas difficult to access
- » Safe removal of contaminated material
- » 50 percent faster than usual digging by hand



Hardened stainless steel.  
3 x lateral front jets 15 °and centric front jet.  
Max. 500 bar /100 °C

R+M Nr.	⊕	D
649 130 413 060	1/2" F	060
649 130 413 090	1/2" F	090
649 130 413 120	1/2" F	120

**Principle of operation HYDRO-Excavation Nozzle**



**Hydro-Excavation-Nozzle ST-458**

Particularly durable, powerful and effective in all geological soil types:

- » Overmoulding of the rotor nozzle at the outlet with an extension to reduce contamination of the ceramic parts of the nozzle
- » For areas difficult to access

- » Safe removal of contaminated soil material
- » Max. 400 bar / 100° C

**Repair Kit**



R+M Nr.	⊕	D
200 458 983	1/2" F	035
200 458 984	1/2" F	04
200 458 985	1/2" F	045
200 458 986	1/2" F	05
200 458 987	1/2" F	055
200 458 988	1/2" F	06
200 458 990	1/2" F	07
200 458 981	1/2" F	08
200 458 991	1/2" F	09
200 458 992	1/2" F	100

R+M Nr.
200 458 235
200 458 240
200 458 245
200 458 250
200 458 255
200 458 260
200 458 270
200 458 280
200 458 290
200 458 210

R+M Nr.
200 458 190
200 458 110

**Symbols** TYP type ⊕ thread R pipe ← flow Ⓢ weight ∅ diameter ↔ length mm ⊕ inlet I height

## Egg-type Radial-Nozzles

Best performing and most durable design for higher efficiency. These are light and agile used as a great all around nozzle with replaceable inserts. They include a forward jet. The egg-type radial nozzle is wear resistant and cost competitive. Great for sanitary applications. With unrivaled cleaning power on heavy encrusted grease and sludge, hardened stainless steel body and replaceable nozzle inserts for longer life.

The ideal tool for the toughest applications of hard grease and scale that may be encrusted on the interior wall of the pipe. Material: Hardened stainless steel. Max. 500 bar / 150 °C



1/4" F. 6x 75° 3x 30° +1x 0°. 25-70 l/min. For  $\text{R}$   $\text{D}$  75-150 mm. Outside  $\text{D}$  30 mm.  $\text{W}$  223 g.



3/8" F. 6x 75° 3x 30° +1x 0°. 30-100 l/min. For  $\text{R}$   $\text{D}$  100-200 mm. Outside  $\text{D}$  35 mm.  $\text{W}$  314 g.



1/2" F. 6x 75° 3x 30° +1x 0°. 80-140 l/min. For  $\text{R}$   $\text{D}$  120-250 mm. Outside  $\text{D}$  40 mm.  $\text{W}$  630 g.



3/4" F. 6x 75° 3x 30° +1x 0°. 100-250 l/min. For  $\text{R}$   $\text{D}$  150-300 mm. Outside  $\text{D}$  50 mm.  $\text{W}$  1,367 g.

R+M Nr.	D	W
649 110 219 065	065	50
649 110 219 080	080	50
649 110 219 100	100	50
649 110 219 120	120	50
649 110 219 150	150	50
649 110 219 200	200	50

R+M Nr.	D	W
649 110 319 065	065	55
649 110 319 080	080	55
649 110 319 100	100	55
649 110 319 120	120	55
649 110 319 150	150	55
649 110 319 200	200	55

R+M Nr.	D	W
649 110 419 080	080	70
649 110 419 100	100	70
649 110 419 120	120	70
649 110 419 150	150	70
649 110 419 200	200	70
649 110 419 250	250	70

R+M Nr.	D	W
649 110 519 100	100	100
649 110 519 120	120	100
649 110 519 150	150	100
649 110 519 200	200	100
649 110 519 250	250	100
649 110 519 310	310	100

## Egg-type Nozzles

Best performing and most durable design for higher efficiency. These are light and agile used as a great all around nozzle with replaceable inserts. They include a forward jet. The egg-type nozzle is wear resistant and cost competitive. Great for sanitary applications.

Threaded inserts can easily be serviced/replaced for longer life span. Material: Hardened stainless steel. Max. 500 bar / 150 °C



1/4" F. 6x 75° +1x 0°. 20-50 l/min. For  $\text{R}$   $\text{D}$  50-100 mm. Outside  $\text{D}$  30 mm.  $\text{W}$  127 g.



3/8" F. 6x 75° +1x 0°. 25-70 l/min. For  $\text{R}$   $\text{D}$  75-150 mm. Outside  $\text{D}$  35 mm.  $\text{W}$  207 g.



1/2" F. 6x 75° +1x 0°. 30-100 l/min. For  $\text{R}$   $\text{D}$  100-200 mm. Outside  $\text{D}$  40 mm.  $\text{W}$  281 g.



3/4" F. 6x 75° +1x 0°. 30-100 l/min. For  $\text{R}$   $\text{D}$  120-250 mm. Outside  $\text{D}$  50 mm.  $\text{W}$  567 g.



1" F. 8x 75° +1x 0°. 100-250 l/min. For  $\text{R}$   $\text{D}$  150-300 mm. Outside  $\text{D}$  62 mm.  $\text{W}$  1,265 g.

R+M Nr.	D	W
649 120 216 065	065	40
649 120 216 080	080	40
649 120 216 100	100	40
649 120 216 120	120	40
649 120 216 150	150	40
649 120 216 200	200	40

R+M Nr.	D	W
649 120 316 065	065	50
649 120 316 080	080	50
649 120 316 100	100	50
649 120 316 120	120	50
649 120 316 150	150	50
649 120 316 200	200	50

R+M Nr.	D	W
649 120 416 080	080	55
649 120 416 100	100	55
649 120 416 120	120	55
649 120 416 150	150	55
649 120 416 200	200	55
649 120 416 250	250	55

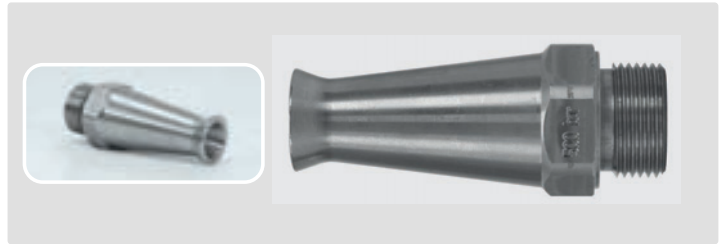
R+M Nr.	D	W
649 120 516 100	100	70
649 120 516 120	120	70
649 120 516 150	150	70
649 120 516 200	200	70
649 120 516 250	250	70
649 120 516 315	315	70

R+M Nr.	D	W
649 120 618 100	100	100
649 120 618 120	120	100
649 120 618 150	150	100
649 120 618 210	210	100
649 120 618 260	260	100
649 120 618 320	320	100

### Long Cast Nozzle

- » Stainless steel
- » Applications: cleaning of shafts
- » Extremely high impact force
- » Long reach
- » Nozzle protection
- » Max. 500 bar / 150 °C

R+M Nr.		
040 001 963	5 mm	3/4" M



Industrial high-flow gun ST-3500, lance 500 mm with side handle.  
Long Cast Nozzle.  
Max. 350 bar / 200 l/min / 150 °C

#### Application:

- » Man hole cleaning
- » Paper Industry. Removal of snow balls during fibre jetting
- » Cleaning Tasks in Off-Shore or Marine Applications

R+M Nr.		
203 500 560	750 mm	1/2" F swivel



Symbols  inlet  length  diameter



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## Suttner high pressure spray guns



Spray gun:	ST-860D	ST-4000	ST-1200	ST-1200	ST-3240	ST-3225	ST-3100	ST-2725
Max. pressure	20 bar	20 bar	24 bar	24 bar	310 bar	24,5 / 60 bar	60 bar	80 bar
Max. flow	30 l/min	50 l/min	100 l/min	100 l/min	120 l/min	120 l/min	100 l/min	80 l/min
Max. temperature	200 °C	200 °C	50 °C	50 °C	100 °C	100 °C	150 °C	150 °C
Inlet	front	front	rear	rear	linear	linear	rear	rear
Swivel at inlet	-	-	-	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemical resistance	very high	-	-	-	high	high	high	high
Freeze stop version	-	-	-	-	-	-	-	-
Weep version	-	<input type="checkbox"/>	-	-	-	-	-	-
LTF technology	-	-	-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>
Material valve housing	brass	aluminium	brass	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
Material valve	special material	PEEK / stainless steel	brass / stainless steel	stainless steel	PEEK / stainless steel	PEEK / stainless steel	PEEK / stainless steel	PEEK / stainless steel
Food safe	-	-	-	-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
One-piece valve kit	-	-	-	-	-	-	-	-
Quick coupling	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quick coupling	-	-	-	-	-	-	-	-
Progressive closing	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Private label	<input type="checkbox"/>	<input type="checkbox"/>	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Swivel at outlet	-	-	-	-	-	-	-	-
Catalogue page	19 / 214	19 / 214	16	16	224	215, 325, 331, 332	217	217



Spray gun:	ST-2720	ST-810 ND	ST-3300	kommunal365+	ST-810 HD	ST-860	ST-1100	R+M EcoLine ONE
Max. pressure	125 bar	140 bar	150 bar	150 bar	210 bar	210 bar	250 bar	250 bar
Max. flow	80 l/min	30 l/min	100 l/min	80 l/min	30 l/min	30 l/min	30 l/min	45 l/min
Max. temperature	150 °C	80 °C	150 °C	150 °C	150 °C	100 °C	150 °C	150 °C
Inlet	rear	front	rear	rear	front	front	rear	rear
Swivel at inlet	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	-	-	<input type="checkbox"/>	-
Chemical resistance	high	high	high	-	-	high	-	-
Freeze stop version	-	-	-	-	-	-	-	-
Weep version	-	-	-	-	-	-	<input type="checkbox"/>	-
LTF technology	<input checked="" type="checkbox"/>	-	-	-	-	-	-	-
Material valve housing	stainless steel	brass	stainless steel	brass	brass	brass	brass	brass
Material valve	PEEK / stainless steel	POM / stainless steel	stainless steel	brass / stainless steel	stainless steel	PEEK / stainless steel	brass / stainless steel	brass / stainless steel
Food safe	-	-	<input checked="" type="checkbox"/>	-	-	-	-	-
One-piece valve kit	-	-	-	-	-	-	-	<input checked="" type="checkbox"/>
Quick coupling	<input type="checkbox"/>	-	<input type="checkbox"/>	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
Quick coupling	-	-	-	-	-	-	-	-
Progressive closing	-	-	-	-	-	-	-	-
Private label	<input type="checkbox"/>	-	-	<input type="checkbox"/>	-	<input type="checkbox"/>	-	-
Swivel at outlet	-	-	-	-	-	-	-	-
Catalogue page	216, 217	17, 231	218, 324	223, 481	210	17, 210, 214	211 / 228	213

Symbols  standard  optional outlet inlet



## Suttner high pressure spray guns



Spray gun:	easyfarm365+	ST-1500	ST-2000	ST-601	ST-3500	easywash365+	ST-2300	ST-2600
Max. pressure	250 bar	275 bar	275 bar	275 bar	350 bar	310 bar	310 bar	310 bar
Max. flow	60 l/min	45 l/min	45 l/min	45 l/min	200 l/min	45 l/min	45 l/min	45 l/min
Max. temperature	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C
Inlet	rear	rear	rear	linear	rear	rear	rear	rear
Swivel at inlet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemical resistance	high	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	-	-	-
Freeze stop version	-	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Weep version	-	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LTF technology	<input checked="" type="checkbox"/>	-	-	-	-	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>
Material valve housing	brass	brass	brass	brass	stainless steel	brass	brass	brass
Material valve	PEEK / stainless steel	brass / stainless steel	brass / stainless steel	brass / stainless steel	stainless steel	brass / stainless steel	brass / stainless steel	brass / stainless steel
Food safe	-	-	-	-	-	-	-	-
One-piece valve kit	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Quick coupling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quick coupling	-	-	-	-	-	-	-	<input type="checkbox"/>
Progressive closing	-	-	-	-	-	-	-	-
Private label	<input type="checkbox"/>	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Swivel at outlet	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Spray gun:	ST-2700	ST-2315	ST-2605	ST-2615	ST-2635	ST-2715	ST-2750	ST-3600
Max. pressure	310 bar	350 bar	350 bar	350 bar	400 bar	350 bar	500 bar	600 bar
Max. flow	45 l/min	45 l/min	45 l/min	45 l/min	35 l/min	45 l/min	30 l/min	80 l/min
Max. temperature	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C
Inlet	rear	rear	rear	rear	rear	rear	rear	rear
Swivel at inlet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>
Chemical resistance	-	high	-	high	-	high	-	-
Freeze stop version	-	-	-	-	-	-	-	-
Weep version	-	-	-	-	-	-	-	-
LTF technology	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-
Material valve housing	stainless steel	brass	brass	brass	brass	stainless steel	stainless steel	stainless steel
Material valve	stainless steel	stainless steel / ceramic	brass / stainless steel	ceramic / stainless steel	carbide / stainless steel	ceramic / stainless steel	stainless steel / carbide	stainless steel
Food safe	<input checked="" type="checkbox"/>	-	-	-	-	<input checked="" type="checkbox"/>	-	-
One-piece valve kit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Quick coupling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	-	<input type="checkbox"/>
Quick coupling	-	-	-	-	-	-	-	-
Progressive closing	-	-	-	-	-	-	-	-
Private label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Swivel at outlet	-	-	-	-	-	-	-	-
Catalogue page	215-216, 322	208	208	208	209, 485	214, 318	222, 373	219-222, 370

## Suttner high pressure spray guns

ST-2300



Professional gun.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 500	1/4" F	3/8" F



Professional gun.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 550	1/4" F	3/8" F swivel



Professional gun.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 520	1/4" F	M22 M



Professional gun.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 553	1/4" F	M22 M swivel



Professional gun.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 730	M21 M	M21 M



Professional gun.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 760	M22 F	M22 M



Professional gun with insulated outlet suitable for lances with swivel screw coupling.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 710	M22 M	M22 M



Professional gun with insulated outlet suitable for lances with swivel screw coupling.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 720	M22 M	M22 M swivel



Professional gun with lance swivel ST-345.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 801	1/4" F swivel	3/8" F swivel



Professional gun with Variopress. Variopress regulates the water quantity and serves for the adjustment of pressure.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 810	1/4" F	3/8" F



Professional gun with Variopress. Variopress regulates the water quantity and serves for the adjustment of pressure.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 830	M22 M	M22 M swivel



Professional gun with Variopress and coupling KW. Variopress regulates the water quantity and serves for the adjustment of pressure.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 631	coupling KW	3/8" F

Symbols ☺ outlet ☺ inlet

## Suttner high pressure spray guns

ST-2600



**LTF**

Professional gun with patented LTF technology.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 500	1/4" F	3/8" F



**LTF**

Professional gun with patented LTF technology.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 550	1/4" F	3/8" F swivel



**LTF**

Professional gun with patented LTF technology.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 520	1/4" F	M22 M



**LTF**

Professional gun with patented LTF technology.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 553	1/4" F	M22 M swivel



**LTF**

Professional gun with patented LTF technology.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 730	M21 M	M21 M



**LTF**

Professional gun with patented LTF technology.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 760	M22 F	M22 M



**LTF**

Professional gun with patented LTF technology and insulated outlet suitable for lances with swivel screw coupling.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 710	M22 M	M22 M



**LTF**

Professional gun with patented LTF technology and insulated outlet suitable for lances with swivel screw coupling.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 720	M22 M	M22 M swivel



**LTF**

Professional gun with lance swivel ST-345.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 801	1/4" F swivel	3/8" F swivel



**LTF**

Professional gun with patented LTF technology and Variopress. Variopress regulates the water quantity and serves for the adjustment of pressure. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 810	1/4" F	3/8" F



**LTF**

Professional gun with patented LTF technology and Variopress. Variopress regulates the water quantity and serves for the adjustment of pressure. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 830	M22 M	M22 M swivel



**LTF**

Professional gun with patented LTF technology and Variopress and coupling KW. Variopress regulates the water quantity and serves for the adjustment of pressure. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 632	coupling KW	3/8" F swivel

## Suttner high pressure spray guns

ST-2300



A

Professional gun with coupling KW.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 560	coupling KW	3/8" F



G

Professional gun with extension ST-9.1 260 mm and coupling KW.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 681	coupling KW	3/8" F



A

Professional gun with coupling KW.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 570	coupling KW	3/8" F swivel



G

Professional gun with extension ST-9.1 260 mm and coupling KW.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 682	coupling KW	3/8" F swivel



Kr

Professional gun with coupling KW.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 300 605	coupling KW	M22 M swivel



Kr

Professional gun with extension ST-9.1 260 mm and coupling KW.  
Max. 310 bar / 45 l/min / 150 °C

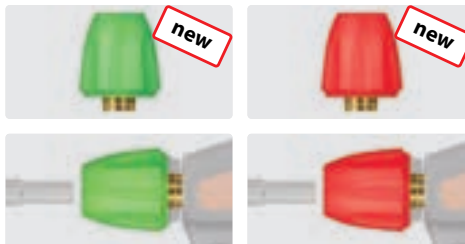
R+M Nr.	☺	☺
202 300 684	coupling KW	M22 M

### Coupling KW

Spare coupling for ST-2300 / ST-2600 with coupling KW



R+M Nr.	R+M Nr.
202 300 301	202 300 306



R+M Nr.	R+M Nr.
202 300 304	202 300 303

### Plug KW



Plug KW : 1/4" F

R+M Nr.
040 001 255

### O-ring



O-ring for coupling KW

R+M Nr.
050 000 248

Symbols ☺ outlet ☺ inlet



## Suttner high pressure spray guns

ST-2600



Professional gun with patented LTF technology. Gun with extension ST-9.1 260 mm and coupling KW. Max. 310 bar / 45 l/min / 150 °C

Professional gun with patented LTF technology and coupling KW. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 600 581	coupling KW	3/8" F

R+M Nr.		
202 600 540	coupling KW	3/8" F



Professional gun with patented LTF technology. Gun with extension ST-9.1 260 mm and coupling KW. Max. 310 bar / 45 l/min / 150 °C

Professional gun with patented LTF technology and coupling KW. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 600 582	coupling KW	3/8" F swivel

R+M Nr.		
202 600 545	coupling KW	3/8" F swivel



Professional gun with patented LTF technology. Gun with extension ST-9.1 260 mm and coupling KW. Max. 310 bar / 45 l/min / 150 °C

Professional gun with patented LTF technology and coupling KW. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 600 684	coupling KW	M22 M

Professional gun with patented LTF technology and coupling KW. Max. 310 bar / 45 l/min / 150 °C

ST-345 lance swivel

ST-345 lance swivel



1/4" F : 3/8" F

1/4" F : M22 M

R+M Nr.
200 301 050

R+M Nr.
200 301 060



Repair kit ST-301

ST-2300 / ST-2600

R+M Nr.
200 300 100

R+M Nr.
202 300 490

R+M Nr.
200 345 500

R+M Nr.		
202 600 625	coupling KW	M22 M swivel



**LTF - Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.

## Suttner high pressure spray guns

ST-2300

Valves complete



IP Kr

202 300 860 and  
202 300 701

R+M Nr.

202 300 490

Professional gun with extension ST-9.1 350 mm and M22 F. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 300 860	M22 F	M22 M



IP Kr

Professional gun with extension ST-9.9 370 mm and M22 F. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 300 701	M22 F	M22 M swivel

ST-2600

Valves complete



IP Kr

202 600 860 and  
202 600 701

R+M Nr.

202 300 490

LTF

Professional gun with patented LTF technology. Gun with extension ST-9.1 350 mm and M22 F.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 600 860	M22 F	M22 M



IP Kr

Professional gun with patented LTF technology. Gun with extension ST-9.9 370 mm and M22 F.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 600 701	M22 F	M22 M swivel



## Suttner high pressure spray guns

ST-2300

Valves complete



202 300 640

R+M Nr.  
202 300 490

IPC

Professional gun with extension 340 mm and M22 F. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 300 640	M22 F	M22 M swivel

ST-2300

Valves complete



202 300 645

R+M Nr.  
202 315 490

Professional gun with extension 340 mm and M22 F. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 300 685	M22 F	3/8" M

Symbols  outlet  inlet

## Suttner high pressure spray guns

ST-2315



Professional gun. Ceramic ball, chemically resistant valve and acid-resistant stain. steel sealing seat. Designed for applications e.g. in the prewash of vehicles.

Max. 350 bar / 45 l/min / 150 °C

R+M Nr.		
202 315 500	1/4" F	3/8" F



Professional gun. Ceramic ball, chemically resistant valve and acid-resistant stain. steel sealing seat. Designed for applications e.g. in the prewash of vehicles.

Max. 350 bar / 45 l/min / 150 °C

R+M Nr.		
202 315 550	1/4" F	3/8" F swivel

ST-2600



LTF

Professional gun with patented LTF technology. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 600 560	1/4" F	3/8" F

ST-2600



LTF

Professional gun with patented LTF technology. Coupling ST-247 stainless steel. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 600 747	ST-247 swivel	ST-247 swivel

ST-2605



LTF

Professional gun with patented LTF technology. Max. 350 bar / 45 l/min / 150 °C

R+M Nr.		
202 605 500	1/4" F	3/8" F stainless steel

ST-2615



LTF

Professional gun. Ceramic ball, chemically resistant valve and acid-resistant stainless steel sealing seat. Designed for applications e.g. in the prewash of vehicles. Max. 350 bar / 45 l/min / 150 °C

R+M Nr.		
202 615 500	1/4" F	3/8" F

ST-2615



LTF


Professional gun. Ceramic ball, chemically resistant valve and acid-resistant stainless steel sealing seat. Designed for applications e.g. in the prewash of vehicles. Max. 350 bar / 45 l/min / 150 °C

R+M Nr.		
202 615 550	1/4" F	3/8" F swivel



LTF

Professional gun. Ceramic ball, chemically resistant valve and acid-resistant stainless steel sealing seat. Designed for applications e.g. in the construction industry, road works or mining. Max. 350 bar / 45 l/min / 150 °C

R+M Nr.		
202 615 615	1/4" F	3/8" F swivel



LTF

Professional gun. Ceramic ball, chemically resistant valve and acid-resistant stainless steel sealing seat. Designed for applications e.g. in the construction industry, road works or mining. Max. 350 bar / 45 l/min / 150 °C

R+M Nr.		
202 615 525	coupling KW	3/8" F swivel

Symbols  outlet  inlet

## Suttner high pressure spray guns

ST-2635 Industrial



**LTF+**

Professional gun. Patented valve kit. Especially wear-resistant ball made out of carbide.  
Max. 400 bar / 35 l/min / 150 °C

R+M Nr.			Swivel	Trigger
202 635 550	1/4" F	3/8" F swivel	ST-311	black
202 635 555	1/4" F	3/8" F swivel	ST-303	grey



**LTF+**

**K**

Professional gun with insulated outlet suitable for lances with swivel screw coupling. Patented valve kit. Especially wear-resistant ball made out of carbide. Swivel made out of stainless steel.  
Max. 400 bar / 35 l/min / 150 °C

R+M Nr.		
202 635 720	M22 M	M22 M swivel

ST-311 swivel



1/4" F : 3/8" F

1/4" F : M22 M

R+M Nr.	200 311 050
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R+M Nr.	200 311 060
---------	-------------



Repair kit ST-311

R+M Nr.	200 300 100
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**LTF+**

Professional gun with coupling KW. Patented valve kit. Especially wear-resistant ball made out of carbide. Max. 400 bar / 35 l/min / 150 °C

R+M Nr.			Swivel	Trigger
202 635 570	Coupling KW	3/8" F swivel	ST-311	black
202 635 575	Coupling KW	3/8" F swivel	ST-303	grey

## easyfarm365+



**LTF**

Professional gun with coupling KW.  
Max. 250 bar / 60 l/min / 150 °C

R+M Nr.		
202 620 655	coupling KW	1/2" F swivel



**LTF**

Professional gun with coupling ST-3100.  
Max. 250 bar / 60 l/min / 150 °C

R+M Nr.		
202 620 650	coupling ST-3100	1/2" F swivel

ST-340 swivel



1/4" F : 1/2" F

Repair kit ST-340

R+M Nr.	200 340 520
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R+M Nr.	200 340 150
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Valves complete



ST-2315, ST-2615

ST-2600

ST-2605

ST-2635 Industrial

easyfarm365+

R+M Nr.	202 315 490
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R+M Nr.	202 300 490
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R+M Nr.	202 300 490
---------	-------------

R+M Nr.	202 300 492
---------	-------------

R+M Nr.	202 620 491
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**LTF - Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.



**LTF+ - Low Trigger Force +** 90 % reduced holding force and 55 % reduced trigger force against usual market guns.

## Suttner high pressure spray guns

ST-810





Max. 210 bar / 30 l/min / 150 °C

R+M Nr.		
200 810 740	M22 M	M22 M



Gun with extension 340 mm and M22 F. Max. 210 bar / 30 l/min / 150 °C

R+M Nr.		
200 810 750	M22 F	M22 M

IP Kr



Max. 210 bar / 30 l/min / 150 °C

R+M Nr.		
200 810 530	1/4" F	1/4" F

ST-810



Valve complete

R+M Nr.
200 810 492

ST-860



Gun with PEEK piston.

Max. 210 bar / 30 l/min / 100 °C

R+M Nr.		
200 860 500	1/4" F	1/4" F



Gun with PEEK piston.

Max. 210 bar / 30 l/min / 100 °C

R+M Nr.		
200 860 520	M22 M	M22 M

ST-860



Valve complete

R+M Nr.
200 860 490

Symbols  outlet  inlet  length

## Suttner high pressure spray guns

ST-1100



Professional gun.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 500	1/4" F	3/8" F



Professional gun.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 540	1/4" F	3/8" F swivel



Professional gun.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 545	M22 M	M22 M



Professional gun. Weep version.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 535	1/4" F	3/8" F



Professional gun. Weep version.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 530	1/4" F	3/8" F swivel



Professional gun ST-1100 with coupling KW.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 560	coupling KW	3/8" F



Professional gun without valve.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 570	1/4" F	3/8" F swivel



Professional gun with extension 340 mm,  
max. 210 bar / 25 l/min / 150 °C.  
Inlet / outlet M22 F. Hose: 6 - 160 (polyester interi-  
or), max. 160 bar / 20 °C

R+M Nr.	hose	
201 100 700	6 - 160	8 m



Professional gun with extension 340 mm,  
max. 210 bar / 25 l/min / 150 °C.  
Inlet / outlet M22 F. Hose: Flexy (single wire  
braid), max. 300 bar / 100 °C

R+M Nr.	hose	
201 100 710	Flexy	8 m



Professional gun with extension 340 mm and M22 F.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 522	M22 F	3/8" F



Professional gun with extension 340 mm and M22 F.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 523	M22 F	M22 M



## Suttner high pressure spray guns

### ST-1500



Professional gun.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 500	1/4" F	3/8" F



Professional gun.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 560	1/4" F	3/8" F swivel



Professional gun.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 550	1/4" F	M22 M



Professional gun.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 545	M22 M	M22 M



Professional gun.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 760	M22 F	M22 M



Professional gun. Freeze stop version.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 580	1/4" F	3/8" F



Professional gun. Freeze stop version.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 581	1/4" F	3/8" F swivel



Professional gun. Weep version.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 620	1/4" F	3/8" F



Professional gun without valve.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 750	1/4" F	3/8" F

### ST-300 swivel



1/4" F : 3/8" F. ST-1500

R+M Nr.
200 300 050



Repair kit ST-300

R+M Nr.
200 300 100

### Repair kit



ST-1100. Swivel

R+M Nr.
200 300 100

### Seal kit



ST-1100

R+M Nr.
201 100 401

### Valves complete



ST-1500

R+M Nr.
202 000 044



ST-1500 weep

R+M Nr.
202 000 045



ST-1500 freeze stop

R+M Nr.
202 000 101

Symbols outlet inlet



## R+M EcoLine No. ONE

### R+M EcoLine No. ONE



Professional gun R+M EcoLine No. ONE.  
Max. 250 bar / 45 l/min / 150 °C

R+M Nr.		
507 001 500	1/4" F	3/8" F



Professional gun R+M EcoLine No. ONE.  
Max. 250 bar / 45 l/min / 150 °C

R+M Nr.		
507 001 550	1/4" F	M22 M



Professional gun R+M EcoLine No. ONE.  
Max. 250 bar / 45 l/min / 150 °C

R+M Nr.		
507 001 580	M22 M	M22 M



Professional gun R+M EcoLine No. ONE.  
Max. 250 bar / 45 l/min / 150 °C

R+M Nr.		
507 001 590	M22 M	10 mm



Professional gun R+M EcoLine No. ONE.  
Max. 250 bar / 45 l/min / 150 °C

R+M Nr.		
507 001 591	M22 M	11 mm



Professional gun R+M EcoLine No. ONE with coupling KW.  
Max. 250 bar / 45 l/min / 150 °C

R+M Nr.		
507 001 560	coupling KW	3/8" F
507 001 562	coupling KW	M22 M

## R+M EcoLine No. ONE ergonomic design - innovative - reliable

### R+M EcoLine No. ONE



Professional gun R+M EcoLine No. ONE with lance 900 mm zinc-plated steel, insulation ST-28 Cool & Compact 300 mm and nozzle protector ST-10 without nozzle. Max. 250 bar / 45 l/min / 150 °C

R+M Nr.		
507 001 790	1/4" F NPT	3/8" F

### Valve complete



R+M Nr.
202 000 044

### Piston rod



R+M Nr.
201 000 900

### ST-300 swivel



3/8" M : 3/8" F

R+M Nr.
200 300 010



Professional gun R+M EcoLine No. ONE with lance 900 mm zinc-plated steel, insulation ST-28 Cool & Compact 300 mm and nozzle protector without tip. Max. 250 bar / 45 l/min / 150 °C

R+M Nr.		
507 001 951	nozzle protector	M22 M



Repair kit ST-300

R+M Nr.
200 300 100

## Suttner steam guns

The steam guns of the series ST-4000 and ST-860D are the ideal solution for cleaning tasks with steam. Both series are designed for a medium temperature of up to 200 °C and for a working pressure of max. 20 bar. By means of a specifically produced valve housing with 3/4" F made out of aluminium the ST-4000 is suitable for extremely high flow rates. The ST-860D is unbeatable in case of small and medium flow rates.

Apart from being enormously resistant to high temperatures the sealing copolymer is suitable for all liquids based on mineral oil as well as for inorganic acids, alkaline solutions, alcohol and anti-corrosion liquids based on amines and seawater or on their mixtures.

The fact that the hose connection is positioned in the front of the gun positively effects the professional handling with the gun as well as the heat radiation close to hand and body.

## ST-860D steam gun



Professional steam gun ST-860D.  
Max. 20 bar / 200 °C

R+M Nr.	↔	⊕
200 860 550	1/4" F	1/4" F

## ST-860D steam gun with lance



Professional steam gun with lance stainless steel 400 mm, vented handle ST-9.1 220 mm and nozzle protector ST-12 without nozzle. Max. 20 bar / 200 °C

R+M Nr.	↔	⊕
200 860 555	nozzle protector ST-12	1/4" F

## ST-4000 steam guns with lance



Professional steam gun with lance stainless steel, vented handle ST-9 380 mm and steam low pressure nozzle made out of stainless steel. Max. 20 bar / 200 °C

R+M Nr.	↔	⊕
204 000 500	500 mm	3/4" F
204 000 520	1,000 mm	3/4" F

## ST-4000 steam gun weep version with lance



Professional steam gun ST-4000 weep version with lance stainless steel, vented handle ST-9 380 mm and steam low pressure nozzle made out of stainless steel. Max. 20 bar / 200 °C

R+M Nr.	↔	⊕
204 000 560	1,000 mm	3/4" F

## Suttner foam guns

### ST-3225 HP



LTF



Professional hp gun with progressive closing system and coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 120 l/min / 100 °C

R+M Nr.		
203 225 550	coupling ST-3100	1/2" F swivel



LTF



Professional hp gun with progressive closing system. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 120 l/min / 100 °C

R+M Nr.		
203 225 545	1/2" F	1/2" F swivel



LTF



Professional hp gun with coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 120 l/min / 100 °C

R+M Nr.		
203 225 540	coupling ST-3100	1/2" F swivel

### ST-3225 LP



LTF



Professional gun with progressive closing system, locking in opened position and coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 24.5 bar / 120 l/min / 100 °C

R+M Nr.		
203 225 650	coupling ST-3100	1/2" F swivel



LTF



Professional gun with progressive closing system and locking in opened position. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 24.5 bar / 120 l/min / 100 °C

R+M Nr.		
203 225 645	1/2" F	1/2" F swivel



LTF



Professional gun with locking in opened position and coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 24.5 bar / 120 l/min / 100 °C

R+M Nr.		
203 225 640	coupling ST-3100	1/2" F swivel

## Suttner spray guns

### ST-2700 KW



LTF



Professional gun with patented LTF technology. Stainless steel. Gun with coupling KW. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 700 560	coupling KW	3/8" F

### ST-2700 KW



LTF



Professional gun with patented LTF technology. Stainless steel. Gun with coupling KW. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 700 575	coupling KW	3/8" F swivel

### ST-2700 KW



LTF



Professional gun with patented LTF technology. Stainless steel. Gun with coupling KW. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 700 565	coupling KW	M22 M

Symbols outlet inlet length

## Suttner spray guns

ST-2700



Professional gun with patented LTF technology. Stainless steel. Gun for industrial cleaning applications. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 700 500	1/4" F	3/8" F

ST-2715



Professional gun with patented LTF technology. Stainless steel. Ceramic ball, chemically resistant valve and acid-resistant stainless steel sealing seat. Gun for industrial cleaning applications with abrasive mediums. Max. 350 bar / 45 l/min / 150 °C

R+M Nr.		
202 715 500	1/4" F	3/8" F



Professional gun with patented LTF technology. Stainless steel. Ceramic ball, chemically resistant valve and acid-resistant stainless steel sealing seat. Gun for industrial cleaning applications with abrasive mediums. Max. 350 bar / 45 l/min / 150 °C

R+M Nr.		
202 715 580	M22 M	M22 M swivel

ST-2720



Professional gun with patented LTF technology. Stainless steel. Particularly designed for high flow rates. Suitable for e.g. municipal cleaning applications. Max. 125 bar / 80 l/min / 150 °C

R+M Nr.		
202 720 500	1/4" F	3/8" F

### Coupling KW



Spare coupling for ST-2700 with coupling KW

R+M Nr.
202 700 301

Spare coupling for ST-2700 with coupling KW

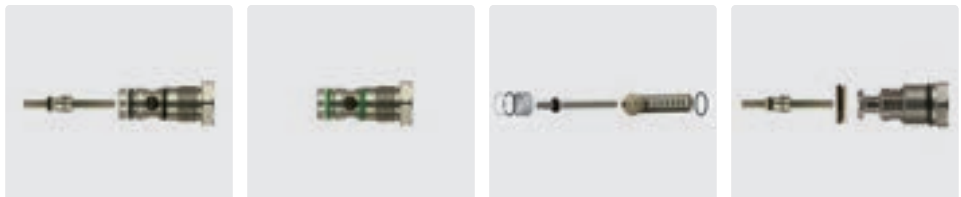
R+M Nr.
202 700 306



Made out of plastics intended to come into contact with food-stuffs according to Regulation (EC) No. 1935/2004. Especially designed for applications in the food industry.



### Valves complete



ST-2700

R+M Nr.
202 700 490

ST-2715. Ceramic ball

R+M Nr.
202 700 445

ST-2720

R+M Nr.
202 710 490

ST-2725

R+M Nr.
202 725 490

### ST-340 swivel



1/4" F : 1/2" F

R+M Nr.
200 340 050

Repair kit ST-340

R+M Nr.
200 340 100

LTF - Low Trigger Force 90 % reduced holding force and 40 % reduced trigger force against usual market guns.

Symbols outlet inlet

## Suttner foam guns

ST-2725 with coupling ST-3100



LTF



Professional gun with patented LTF technology and progressive closing system. Gun with coupling ST-3100. Field of application: foam and rinsing applications in the food industry etc. Stainless steel. Chemically resistant valve piston stainless steel. PEEK piston. Max. 80 bar / 80 l/min / 150 °C

R+M Nr.		
202 725 550	coupling ST-3100	1/2" F swivel

ST-2725



LTF



Professional gun with patented LTF technology and progressive closing system. Field of application: foam and rinsing applications in the food industry etc. Stainless steel. Chemically resistant valve piston stainless steel. PEEK piston. Max. 80 bar / 80 l/min / 150 °C

R+M Nr.		
202 725 535	1/2" F	1/2" F swivel

ST-2720



LTF



Professional gun with patented LTF technology. Stainless steel. Suitable for e.g. huge water amounts in the food industry. PEEK valve cone enables use in low pressure. Max. 125 bar / 80 l/min / 150 °C

R+M Nr.		
202 720 530	3/8" F	1/2" F

ST-2720 with coupling ST-3100



LTF



Professional gun with patented LTF technology. Gun with coupling ST-3100. Stainless steel. Suitable for e.g. huge water amounts in the food industry. PEEK valve cone enables use in low pressure. Max. 125 bar / 80 l/min / 150 °C

R+M Nr.		
202 720 550	coupling ST-3100	1/2" F swivel

ST-2620



LTF

Professional gun with patented LTF technology. Gun with insulated stainless steel lance 300 mm and nozzle 50° 200. Gun brass. Lance stainless steel. Field of application: foam applications in the prewash of vehicles etc. Max. 125 bar / 80 l/min / 150 °C

R+M Nr.		
202 620 910	nozzle 50° 200	1/2" F swivel

## Wall mount



Stainless steel. Wall mount for Suttner high pressure guns with lance or twin lance

R+M Nr.
040 002 055



Made out of plastics intended to come into contact with foodstuffs according to Regulation (EC) No. 1935/2004. Especially designed for applications in the food industry.



**LTF - Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.



## Suttner foam guns

## ST-3100



Professional gun with progressive closing system. Gun with coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 100 l/min / 150 °C

R+M Nr.		
203 100 805	coupling ST-3100	1/2" F swivel



Professional gun with progressive closing system. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 100 l/min / 150 °C

R+M Nr.		
203 100 840	3/8" F	1/2" F



Professional gun with progressive closing system. Gun with coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 100 l/min / 150 °C

R+M Nr.		
203 100 810	coupling ST-3100	1/2" F

## ST-3100



Professional gun with progressive closing system. Gun with coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 100 l/min / 150 °C

R+M Nr.		
203 100 820	coupling ST-3100	1/2" F

## ST-340



1/2" M : 1/2" F

R+M Nr.
200 340 010



Repair kit ST-340

R+M Nr.
200 340 100

## ST-3100



Seal kit

R+M Nr.
203 100 400

## ST-3300



Seal kit

R+M Nr.
203 300 490

## ST-3300



Professional high-flow gun. Gun with coupling ST-45. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Max. 150 bar / 100 l/min / 150 °C

R+M Nr.		
203 300 500	coupling ST-45	1/2" F



Professional high-flow gun. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Max. 150 bar / 100 l/min / 150 °C

R+M Nr.		
203 300 510	1/2" F	1/2" F

Symbols outlet inlet length



## Suttner 600 bar ultra high pressure guns

### ST-3600



Professional ultra high pressure gun.  
Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 545	1/4" F	1/2" F



Professional ultra high pressure gun.  
Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 550	1/2" F	1/2" F



Professional ultra high pressure gun.  
Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 570	1/2" F	1/2" F swivel



Professional ultra high pressure gun with coupling ST-45. Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 655	coupling ST-45	3/8" F



Professional ultra high pressure gun with coupling ST-45. Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 650	coupling ST-45	1/2" F



**ST-3900 shoulder supports.** New European Union guidelines imperatively prescribe the use of shoulder supports for cleaning applications exceeding an operating reaction force of 150 N. Variably adjustable ST-3900. Swiveling coupling. Suitable for guns ST-3600 / ST-3500.

R+M Nr.	telescope	
203 900 500	340 - 500 mm	505 - 675 mm

### ST-351 swivel



1/2" M : 1/2" F.  
Max. 600 bar

R+M Nr.
200 351 510



Repair kit swivel ST-351

R+M Nr.
200 351 400

### Seal kits ST-740



O-ring

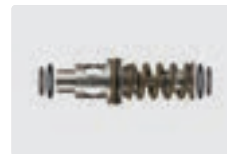
R+M Nr.
050 000 408



Back ring

R+M Nr.
050 000 407

### Seal kits ST-3600




R+M Nr.
203 600 490

## Suttner 600 bar ultra high pressure guns

ST-3600





Professional ultra high pressure gun with extension ST-9.1 380 mm and quick screw coupling ST-740. Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 532	M24 F	M24 M swivel



Professional ultra high pressure gun with extension ST-9.1 380 mm and quick screw coupling ST-740. Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 530	M24 F	M24 M

## Ultra high pressure lances



M24 M. Lance 400 mm with nozzle protector ST-10 without nozzle. Lance for ultra high pressure guns with extension ST-9. Max. 600 bar / 150 °C

R+M Nr.		
203 600 470	1/4" F NPT	M24 M

Symbols  outlet  inlet  length

## Suttner 500 bar ultra high pressure guns

ST-3600



F

Professional ultra high pressure gun.  
Max. 500 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 556	M22 F	M22 M



Professional ultra high pressure gun.  
Max. 500 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 555	1/4" F	M22 M



**ST-3900 shoulder supports.** New European Union guidelines imperatively prescribe the use of shoulder supports for cleaning applications exceeding an operating reaction force of 150 N. Variably adjustable ST-3900. Swiveling coupling. Suitable for guns ST-3600 / ST-3500.

R+M Nr.	telescope	
203 900 500	340 - 500 mm	505 - 675 mm



Professional ultra high pressure gun with extension ST-9 380 mm, grip and M22 F. Max. 500 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 535	M22 F	M22 M

### Ultra high pressure lance



M22 M. Lance 335 mm with nozzle protector ST-10 without nozzle. Lance for ultra high pressure guns with extension ST-9. Max. 500 bar / 150 °C

R+M Nr.		
200 000 231	1/4" F NPT	M22 M

### Seal kit ST-3600



R+M Nr.
203 600 490

**ST-2750 - the lightweight among the 500 bar spray guns**

ST-2750



**LTF**

Professional ultra high pressure gun with patented LTF.  
Max. 500 bar / 30 l/min / 150 °C

R+M Nr.	☺	☻
202 750 500	1/4" F	3/8" F



**LTF**

Professional ultra high pressure gun with patented LTF.  
Max. 500 bar / 30 l/min / 150 °C

R+M Nr.	☺	☻
202 750 535	M22 F	M22 M



**LTF**

**K**

Professional ultra high pressure gun with patented LTF. Gun with insulated outlet suitable for lances with swivel screw coupling.  
Max. 500 bar / 30 l/min / 150 °C

R+M Nr.	☺	☻
202 750 570	M22 M	M22 M



**LTF**

Professional ultra high pressure gun with extension ST-9.1 240 mm and quick screw coupling ST-740.  
Max. 500 bar / 30 l/min / 150 °C

R+M Nr.	☺	☻
202 750 610	M24 F	3/8" F



**LTF**

Professional ultra high pressure gun with extension ST-9.1 340 mm and quick screw coupling ST-740.  
Max. 500 bar / 30 l/min / 150 °C

R+M Nr.	☺	☻
202 750 620	M24 F	3/8" F

**Valve complete**



ST-2750

R+M Nr.
202 750 495

**LTF - Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.

**Ultra high pressure lance**



M24 M. Lance 400 mm with nozzle protector ST-10 without nozzle. Lance for ultra high pressure guns with extension ST-9.1.  
Max. 600 bar / 150 °C

R+M Nr.	☺	☻
203 600 470	1/4" F NPT	M24 M

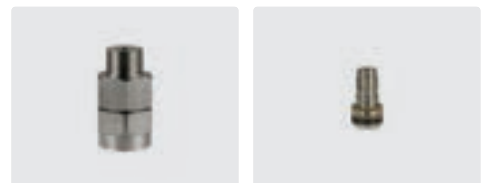
**Shoulder supports**



New European Union guidelines imperatively prescribe the use of shoulder supports for cleaning applications exceeding an operating reaction force of 150 N.

R+M Nr.
202 705 590

**ST-350 swivel**



3/8" M : 3/8" F.  
Max. 500 bar

Repair kit ST-350

R+M Nr.	R+M Nr.
200 350 010	200 300 120

Symbols ☺ outlet ☻ inlet

## ST-2750 - the lightweight among the 500 bar spray guns

ST-2750



LTF

Professional ultra high pressure gun with patented LTF and lance with insulation ST-9, side handle and nozzle protector ST-10 without high pressure nozzle. Max. 500 bar / 30 l/min / 150 °C

R+M Nr.			ISO		
202 750 900	1/4" F NPT	3/8" F	760 mm	1,000 mm	stainless steel

## kommunal365+

ST-2320



Professional gun.  
Max. 150 bar / 80 l/min / 150 °C

R+M Nr.		
202 320 500	1/4" F	1/2" F



Professional gun.  
Max. 150 bar / 80 l/min / 150 °C

R+M Nr.		
202 320 510	1/2" F	1/2" F



Professional gun.  
Max. 150 bar / 80 l/min / 150 °C

R+M Nr.		
202 320 520	1/2" F	1/2" F swivel

ST-340 swivel



1/4" F : 1/2" F

R+M Nr.
200 340 520



Repair kit ST-340

R+M Nr.
200 340 100

Seal kit



R+M Nr.
202 320 495

Shoulder support



New European Union guidelines imperatively prescribe the use of shoulder supports for cleaning applications exceeding an operating reaction force of 150 N.

R+M Nr.
202 705 590

## Suttner high pressure spray guns

ST-2000



Professional gun.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
202 000 500	1/4" F	3/8" F



Professional gun.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
202 000 590	1/4" F	3/8" F swivel

ST-300 swivel



1/4" F : 3/8" F. ST-2000

R+M Nr.
200 300 050



Repair kit ST-300

R+M Nr.
200 300 100

Valve complete



ST-2000

R+M Nr.
202 000 044



ST-2000, resistant to chemicals

R+M Nr.
202 000 054

## Suttner high pressure spray guns

ST-3240



LTF

Professional In-Line Spray Gun.  
Stainless Steel.Application e.g. municipal cleaning, hydro-excavation, agricultural industry.  
Max. 310 bar / 120 l/min / 100 °C

R+M Nr.		
203 240 500	1/2" F	1/2" F

## ST-3500 high-flow spray guns

Professional high-flow gun. Stainless steel.  
Industrial high pressure cleaning and jetting gun  
for municipal cleaning and other industrial cleaning  
tasks. Valve piston hardened stainless steel.  
Max. 350 bar / 200 l/min / 150 °CProfessional high-flow gun. Stainless steel.  
Industrial high pressure cleaning and jetting gun  
for municipal cleaning and other industrial cleaning  
tasks. Valve piston hardened stainless steel. Swivel  
stainless steel.  
Max. 350 bar / 200 l/min / 150 °C

## Shoulder support ST-3900

**ST-3900 shoulder supports.** New European  
Union guidelines imperatively prescribe the use  
of shoulder supports for cleaning applications  
exceeding an operating reaction force of 150 N.  
Variably adjustable ST-3900. Swiveling coupling.  
Suitable for guns ST-3600 / ST-3500.

R+M Nr.		
203 500 500	1/2" F	1/2" F

R+M Nr.		
203 500 550	1/2" F	1/2" F swivel

R+M Nr.	telescope	
203 900 500	340 - 500 mm	505 - 675 mm

## Longcast nozzle

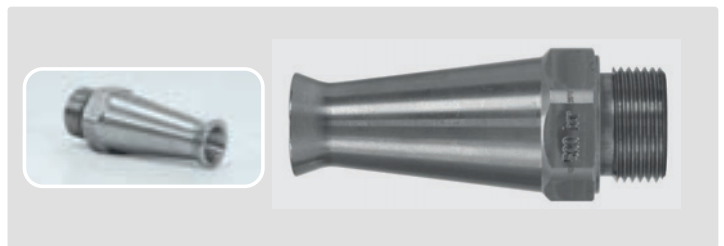
- » Stainless steel
- » Applications: cleaning of shafts
- » Extremely high impact force
- » Long reach
- » Nozzle protection
- » Max. 500 bar / 150 °C

R+M Nr.		
040 001 963	5 mm	3/4" M

Industrial high-flow gun ST-3500, lance 500 mm with side handle. Long  
Cast Nozzle.  
Max. 350 bar / 200 l/min / 150 °C**Application:**

- » Man hole cleaning
- » Paper Industry. Removal of snow balls during fibre jetting
- » Cleaning Tasks in Off-Shore or Marine Applications

R+M Nr.		
203 500 560	750 mm	1/2" F swivel



Symbols outlet inlet nozzle length diameter



## Longcast lances



3/8" F. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, gun ST-2300, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 280 bar / 45 l/min / 100 °C

R+M Nr.		
200 078 510	nozzle protector without nozzle	3/8" F



1/2" F. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, gun ST-2320, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 150 bar / 80 l/min / 100 °C

R+M Nr.		
200 078 520	nozzle protector without nozzle	1/2" F



**LTF**

1/2" F. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, gun easyfarm365+, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 250 bar / 60 l/min / 100 °C

R+M Nr.		
200 078 530	nozzle protector without nozzle	1/2" F swivel



1/4" M. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 280 bar / 130 l/min / 100 °C

R+M Nr.		
200 078 500	nozzle protector without nozzle	1/4" M

The longcast lance can be connected to a low pressure pump, to a high pressure pump, to the public water system or to the extinguishing water network.

The lance works in the medium pressure range. By means of its very good solidity, good handling and compactness the lance is especially suitable for the intensive use.

The lateral hand grip makes a stepless adjustment of the water jet during the operation possible. A long casting point jet or a progressive, conical spray jet can be set.

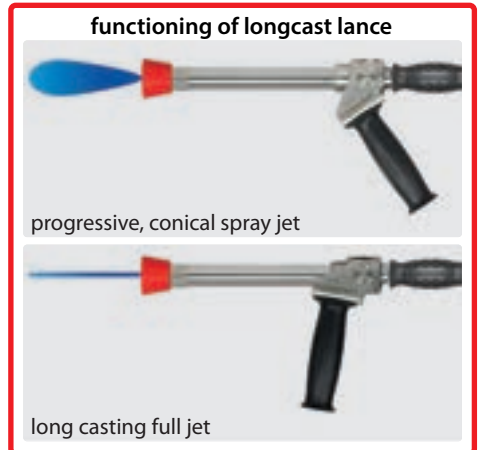
In order to realize ideal cleaning results the nozzle size needs to be adapted to the pump performance (pressure and flow rate).

### Nozzles for longcast lances



M15x1 M. Stainless steel

R+M Nr.	D
200 078 412	1.2 mm
200 078 415	1.5 mm
200 078 418	1.8 mm
200 078 420	2.0 mm
200 078 423	2.3 mm
200 078 425	2.5 mm
200 078 430	3.0 mm
200 078 435	3.5 mm

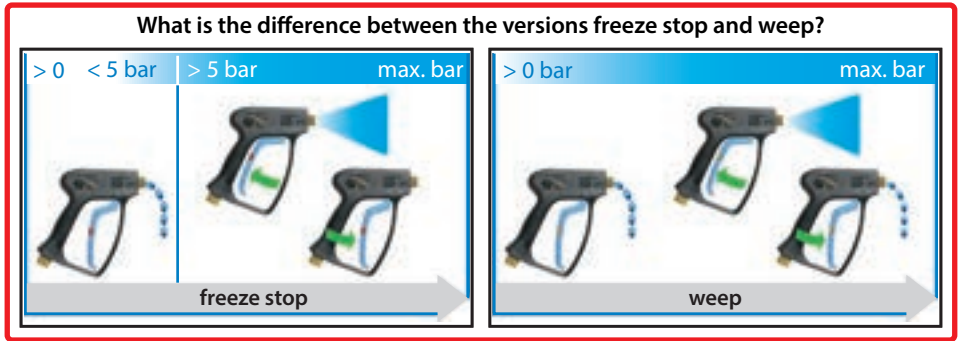


**easywash365+ spray guns by Suttner**

Freeze stop valves in **easywash365+** spray guns and freeze stop spray guns

The valves are made entirely of non-rusting materials.

Contrary to all commercially available freeze stop valves, the actual internal valve body is made of a very wear-resistant, partially crystalline thermoplastic. This difference significantly increases the robustness, reliability as well as preciseness in switching.



**easywash365+ standard**



**LTF**

Professional gun. Standard.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☻
202 600 518	1/4" F	3/8" F swivel

**easywash365+ weep**



**LTF**

Professional gun. Weep version.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☻
202 600 528	1/4" F	3/8" F swivel

**easywash365+ freeze stop**



**LTF**

Professional gun. Freeze stop version.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☻
202 600 538	1/4" F	3/8" F swivel

**LTF - Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.

**easywash365+ standard**



**LTF**

Professional gun with lance swivel ST-345.  
Standard.

Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☻
202 600 802	1/4" F	3/8" F swivel

**easywash365+ weep**



**LTF**

Professional gun with lance swivel ST-345. Weep version.

Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☻
202 600 803	1/4" F	3/8" F swivel

**easywash365+ freeze stop**



**LTF**

Professional gun with lance swivel ST-345. Freeze stop version.

Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☻
202 600 804	1/4" F	3/8" F swivel

**Valves complete - easywash365+**



Standard

R+M Nr.
202 300 490



Weep

R+M Nr.
202 300 491



Freeze stop

R+M Nr.
202 300 457

**ST-301 swivel - easywash365+**



1/4" F : 3/8" F

R+M Nr.
200 301 050



Repair kit ST-301

R+M Nr.
200 300 100

Symbols ☺ outlet ☻ inlet

## easywash365+ spray guns with swivels running in ball bearings by Suttner

- » High-quality, integrated maintenance-free swivel joint, corrosion-resistant and very smooth-running.
- » Extra-long service life of connected hoses guaranteed by the swivel protecting the hoses from twisting.
- » Convenient 360° handling in any cleaning application.
- » Max. 310 bar / 45 l/min / 150 °C.
- » Gun inlet: 3/8" F, swivelling, gun outlet: 1/4" F.
- » All guns with integrated ball-bearing swivel also feature the proven Low Trigger Force technology and are available with weep and freeze stop option or as standard version.



easywash365+ standard



Professional gun.  
Standard.  
With integrated ball bearing swivel.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 514	1/4" F	3/8" F swivel

easywash365+ weep



Professional gun.  
Weep version.  
With integrated ball bearing swivel.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 524	1/4" F	3/8" F swivel

easywash365+ freeze stop



Professional gun.  
Freeze stop version.  
With integrated ball bearing swivel.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☺
202 600 534	1/4" F	3/8" F swivel

**LTF - Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.

Valves complete - easywash365+



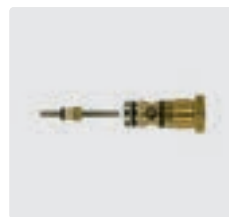
Standard

R+M Nr.
202 300 490



Weep

R+M Nr.
202 300 491



Freeze stop

R+M Nr.
202 300 457

easywash365+ - ball bearing swivel ST-303



1/4" F : 3/8" F. Stainless steel / nickel-plated brass

R+M Nr.
200 303 050

## Suttner high pressure spray guns for self-service car wash

ST-1100 weep



Professional gun. Weep version.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 535	1/4" F	3/8" F

ST-1100 weep



Professional gun. Weep version.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 530	1/4" F	3/8" F swivel

ST-1100 without trigger



Professional gun without valve.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 570	1/4" F	3/8" F swivel

ST-1100



Repair kit swivel

R+M Nr.
200 300 100

ST-2300 freeze stop



Professional gun. Freeze stop version.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 300 582	1/4" F	3/8" F swivel

ST-2300 weep



Professional gun. Weep version.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 300 580	1/4" F	3/8" F

ST-2300 weep



Professional gun. Weep version.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 300 581	1/4" F	3/8" F swivel

ST-2600 freeze stop



LTF

Professional gun with patented LTF technology.  
Freeze stop version.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 600 536	1/4" F	3/8" F swivel

ST-2600 weep



LTF

Professional gun with patented LTF technology.  
Weep version.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 600 544	1/4" F	3/8" F swivel

Symbols  outlet  inlet

## Suttner high pressure spray guns

ST-601 linear standard



Standard.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
200 601 600	1/4" F	3/8" F

ST-601 linear freeze stop



Freeze stop version.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
200 601 601	1/4" F	3/8" F

ST-601 linear weep



Weep version.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
200 601 602	1/4" F	3/8" F

ST-1500 freeze stop



Professional gun. Freeze stop version.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 580	1/4" F	3/8" F

ST-1500 freeze stop



Professional gun. Freeze stop version.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 581	1/4" F	3/8" F swivel

ST-1500 weep



Professional gun. Weep version.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 620	1/4" F	3/8" F

ST-1500 without trigger



Professional gun without trigger.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 750	1/4" F	3/8" F

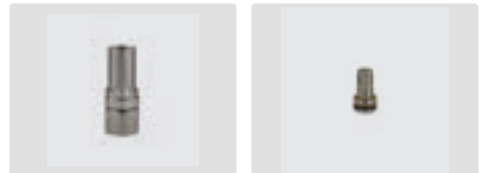
ST-1500C



Professional gun. Ceramic ball, chemical resistant valve and acid and alkali resistant PEEK sealing seat.  
FKM seals.  
Stainless steel in- and outlet.  
By using PEEK as sealing seat material, the gun is also particularly suitable for pre-spray and pre-wash applications in vehicle washing  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 572	1/4" F	3/8" F

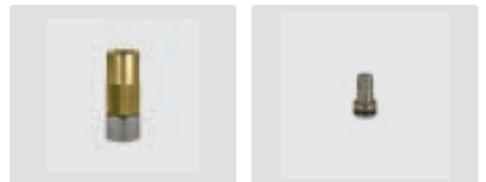
ST-300 swivel



1/4" F : 3/8" F. ST-1500      Repair kit ST-300

R+M Nr.	R+M Nr.
200 300 050	200 300 100

ST-301 swivel



1/4" F : 3/8" F. ST-2300      Repair kit ST-301

R+M Nr.	R+M Nr.
200 301 050	200 300 100

### Valves



ST-601

R+M Nr.
202 000 044



ST-2300. Freeze stop

R+M Nr.
202 300 457



ST-2300. Weep

R+M Nr.
202 300 491



ST-1500. Freeze stop

R+M Nr.
202 000 101



ST-1500. Weep

R+M Nr.
202 000 045



ST-1500C. ST-601 Resistant to chemicals

R+M Nr.
202 000 054



## easywash365+ handles by Suttner



Stainless steel. Handle 20° bended.  
Max. 350 bar / 150 °C

R+M Nr.	☺	☺
200 009 650	1/4" F	1/4" M



Stainless steel. Handle 20° bended.  
**easywash365+ blue.** Max. 350 bar / 150 °C

R+M Nr.	☺	☺
200 009 655	1/4" F	1/4" M



Stainless steel. Handle 20° bended.  
Max. 350 bar / 150 °C

R+M Nr.	☺	☺
200 009 665	1/4" F	1/4" M



Stainless steel. Handle 20° bended.  
Max. 350 bar / 150 °C

R+M Nr.	☺	☺
200 009 657	1/4" F	M18 M (CEL)



Stainless steel. Handle 20° bended.  
Max. 350 bar / 150 °C

R+M Nr.	☺	☺
200 009 659	M18 F (DKOL)	M18 M (CEL)



Stainless steel. Retrofit kit.  
M18 F (DKOL) : 1/4" M

R+M Nr.		
200 009 480		

## easywash365+ lance swivels ST-345 by Suttner

The **easywash365+** lance swivel guarantees improved ergonomics in the professional car wash and in the cleaning industry. The lance swivel is mounted between the brush lance or spray lance and the high pressure gun or the brush grip.



1/4" F : 1/4" M. 350 bar. Stainless.  
RAL 5005

R+M Nr.
200 345 520



1/4" F : 1/4" M. 350 bar. Stainless

R+M Nr.
200 345 530



1/4" F : 1/4" M. 350 bar. Stainless

R+M Nr.
200 345 500



1/4" F : 1/4" M. 350 bar. Stainless.  
**easywash365+ blue**

R+M Nr.
200 345 510



## Low pressure pre-spraying unit



Hose flexy



Pre-spraying unit with gun ST-810, lance ST-28 Cool & Compact zinc-plated steel, nozzle protector ST-10 and nozzle 65° 01 with filter. Max. 140 bar / 150 °C

<b>R+M Nr.</b>				<b>R+M Nr.</b>
200 810 785	nozzle 65° 01	500 mm	1/4" M swivel	390 052 208

## High pressure spray guns

RL22



Max. 310 bar / 40 l/min / 160 °C

<b>R+M Nr.</b>		
500 522 00	1/4" F	3/8" F



Max. 310 bar / 40 l/min / 160 °C

<b>R+M Nr.</b>			
500 522 01	1/4" F	3/8" F swivel	

SPECK star



Max. 280 bar / 40 l/min / 150 °C

<b>R+M Nr.</b>		
506 00	1/4" F	3/8" F

## ST-550 foot valves



Housing stainless steel. Valve stainless steel. Rubber feet.  
Max. 500 bar / 80 l/min / 150 °C

<b>R+M Nr.</b>		
200 550 600	1/4" F	1/4" F



Housing stainless steel. Valve stainless steel. Rubber feet.  
Max. 500 bar / 80 l/min / 150 °C

<b>R+M Nr.</b>		
200 550 620	M22 F	M22 M

## ST-540 foot valves



Incl. HP-gun ST-2605. Material housing powdercoated steel. Rubber feet.  
Max. 350 bar / 45 l/min / 150 °C

<b>R+M Nr.</b>			
200 540 500	1/4" M	3/8" F	



Incl. HP-gun ST-2750. Material housing powdercoated steel. Rubber feet.  
Max. 500 bar / 30 l/min / 150 °C

<b>R+M Nr.</b>			
200 540 550	1/4" M	3/8" F	

Symbols outlet inlet length

### Half-shell kits: Makeover of your gun



With effect from today, we enlarge the range of colours for our gun family ST-2300, ST-2600, and ST-2700. You can choose from green, blue, red, and yellow!

By means of our half-shell kits, it is possible to adapt the guns individually to your company's colour or to the one of your customers. By using different colours, the affiliation to a certain unit (e.g. rental business), user, or application is possible in an easy way, too.

Moreover, the guns can be used for allocation to different areas within the scope of the HACCP directive. In this respect, we offer further interesting products in different colours for lance clips, nozzle protectors, and plugs for rotating nozzles in Chapter 13, HACCP. This product range now features coloured insulated handles for lances with a length of 900 mm.

**What would you like to mark in your colour? Select your appropriate half-shell kit, here!**

If you like to have your corporate logo on the logo plate, please follow the instructions given on the following page: "Design your own Suttner gun".

Kit contains half shells, logo plate, trigger and trigger lock



R+M Nr.  
202 300 473



R+M Nr.  
202 300 474



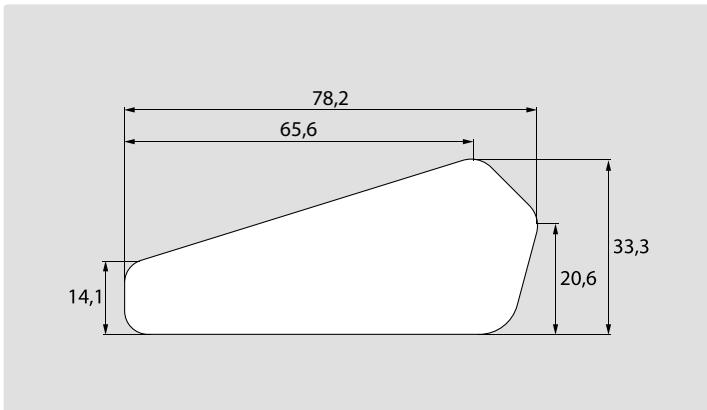
R+M Nr.  
202 300 471



R+M Nr.  
202 300 472

Symbols outlet inlet VPE packing unit type

## Create your individual Suttner spray gun



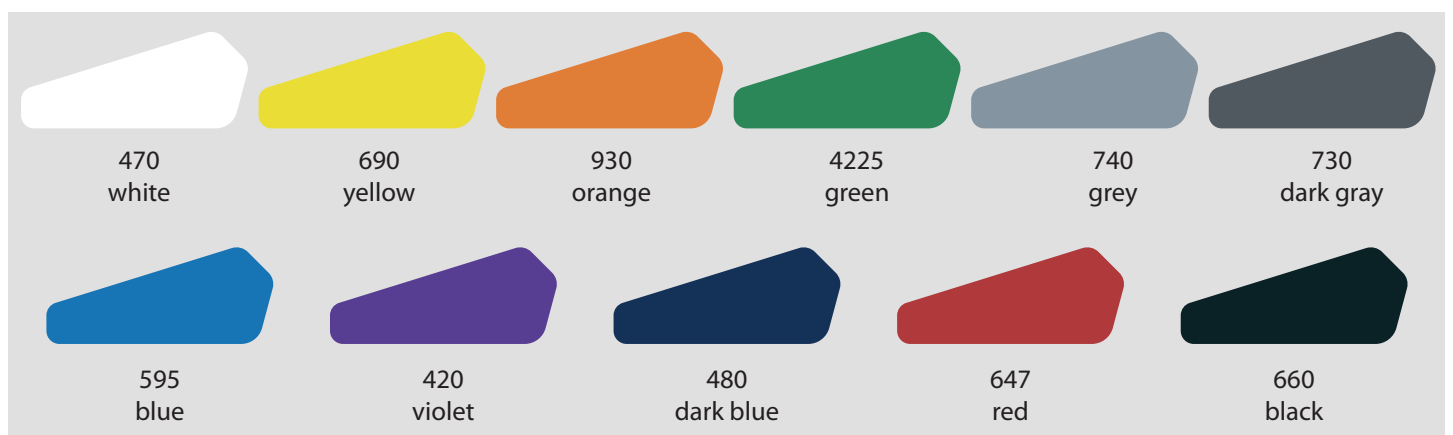
If you are honest with yourselves, will you not appreciate seeing your company's logo on your Suttner spray gun? Or do you prefer having the telephone number of your favourite restaurant or the web site of your football team on your spray gun? It's up to you. We will certainly let your dream come true.

In the following passage we show you how that works. These seven steps have to be made:

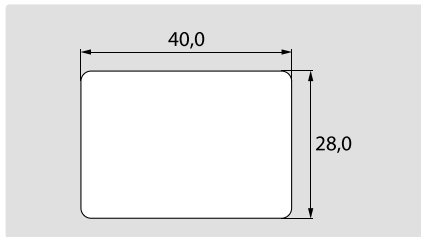
- Step 1 choose your model: ST-2300 or ST-2600
- Step 2 determine your desired version
- Step 3 state your favourite colour
- Step 4 fill in the file with the label and return it to R+M. Please provide us your logo in one of the most common kinds of file (BMP, FES, GIF) and inform us about the typeface and typesize which you have used
- Step 5 release the processed logo in writing
- Step 6 arrange for a one-time transfer of € 300.00 for the production of the tools needed for the label
- Step 7 place an order with us for 250 labels and one packing unit of spray guns (35 or 50 guns) without label

R+M Nr.	TYP	⊖	⊕	VPE
202 600 501	ST-2600	1/4" F	3/8" F	50
202 600 549	ST-2600	coupling KW	3/8" F swivel	35
202 600 557	ST-2600	1/4" F	3/8" F swivel	50

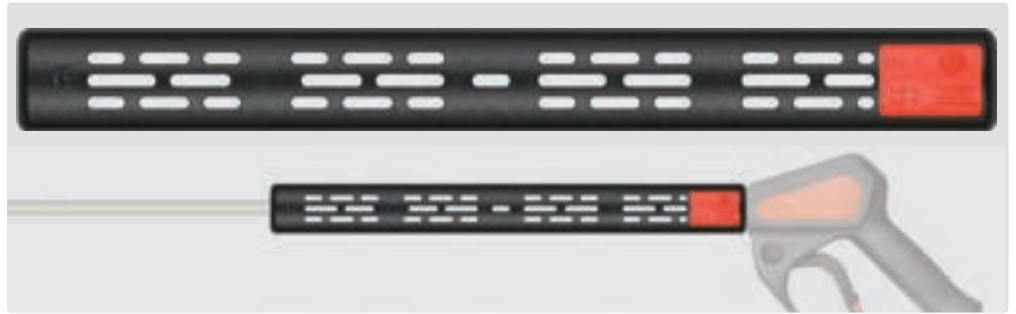
R+M Nr.	TYP	⊖	⊕	VPE
202 300 501	ST-2300	1/4" F	3/8" F	50
202 300 521	ST-2300	1/4" F	M 22 M	50
202 300 551	ST-2300	1/4" F	3/8" F swivel	50
202 300 562	ST-2300	coupling KW	3/8" F	35
202 300 571	ST-2300	coupling KW	3/8" F swivel	35



### Create your individual Suttner vented handle



R+M Nr.			
200 009 051	380 mm		max. 150 °C



With effect from today we offer you the possibility to combine your personal spray guns ST-2300 and ST-2600 with your individual vented handle ST-9. It is suitable for all 1/4" lances and if required, a grip can be mounted on the side at any time. Furthermore, the vented handle can be pushed over the outlet of all Suttner spray guns so that both products form an aesthetic whole. In case of hot water applications the user is steadily protected.

Try to determine your favourite colour of your personal label and already start thinking about what you would like to have written on it or which emblem you would like to see on it. It is really up to you as you can give free rein to your creativity. We will certainly let your dream come true. By means of labelling your personal ST-9 you succeed in enhancing the product itself and also in making your company and brand better known.

Get to your personal vented handle ST-9 in only 5 steps!

- Step 1 determine your favourite colour
- Step 2 fill in the file with the label and return it to R+M. Please provide us your logo in one of the most common kinds of files (BMP, FES, GIF) and inform us about the typeface and type size which you have used
- Step 3 release the processed label in writing
- Step 4 arrange for a one-time transfer of € 300.00 for the production of the tools needed for the label
- Step 5 place an order with us for 240 labels and 1 packing unit of vented handles (80 pieces, R+M Nr. 200 009 051) without label



Symbols VPE packing unit length °C temperature diameter diameter

## Gun exit connections

### Connections for spray guns with coupling KW



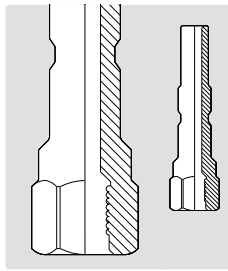
Plug KW : 1/4" F. Stainless steel. SW 17. For lances with vented handle

R+M Nr.
040 003 080



Plug KW : 1/4" F. Stainless steel. SW 19. Plug for moulded handles

R+M Nr.
040 001 255



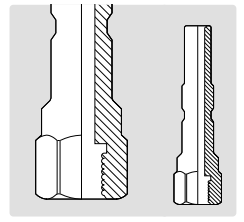
Plug KW : 1/4" F. SW 19. Polished stainless steel. For moulded handles. Plug for aluminium washer

R+M Nr.
040 001 248



Plug KW : 1/4" M. Polished stainless steel.

R+M Nr.
040 001 258



Aluminium washer for 1/4" F.  $\varnothing$  11 mm

R+M Nr.	VPE
781 130 841	100



Plug KW : M21 M. stainless steel. Brass. Lances with quick screw coupling

R+M Nr.
559 101



Plug KW : M22 M. stainless steel. Brass. Lances with quick screw coupling

R+M Nr.
559 103



Plug KW : plug ST-45. stainless steel. Zinc-plated steel

R+M Nr.
559 102



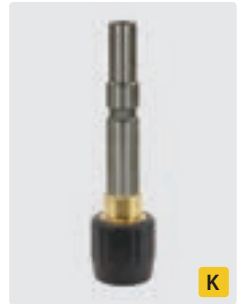
Plug KW : M22 F. stainless steel. Brass

R+M Nr.
559 104



Plug KW : 1/4" M. stainless steel

R+M Nr.
040 001 256



Nozzle protector with plug KW. Without tip. Max. 400 bar / 150 °C

R+M Nr.
559 105

### Coupling KW for spray guns



Coupling KW : 1/4" M. Brass

R+M Nr.
559 26



Coupling KW : 1/4" M. Stainless steel

R+M Nr.
202 700 350



Coupling KW : 1/4" M. Stainless steel

R+M Nr.
202 700 355

### Coupling KW with ST-52.1 Variopress



Coupling KW : 1/4" M. Brass

R+M Nr.
559 264

### Bajonet adapter



1/4" F

R+M Nr.
200 000 440



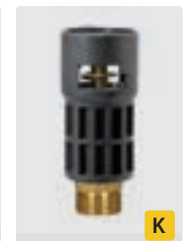
M22 F long

R+M Nr.
559 980 500



HV M22 short

R+M Nr.
559 980 505



M22 M

R+M Nr.
559 980 510



Coupling KW : M21 F. Brass

R+M Nr.
559 261



Coupling KW : M22 F. Brass

R+M Nr.
559 262



Coupling KW : M22 M. Brass

R+M Nr.
559 263



Coupling KW : M22 F. Brass

R+M Nr.
202 300 488

### O-ring



O-ring for coupling KW

R+M Nr.
050 000 248

### Lip seals



Tool for assembly of lip seal

R+M Nr.
202 300 365

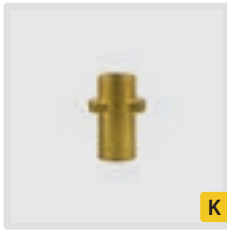


Lip seal for coupling KW

R+M Nr.
050 000 249

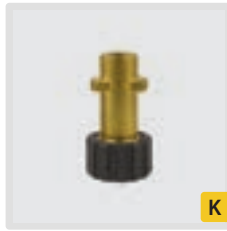
## Half lance exit connections

### Connections for hobby half lances



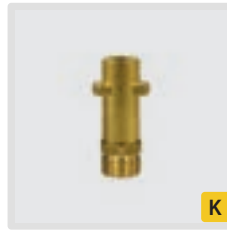
Plug K : 1/4" F

R+M Nr.
200 000 435



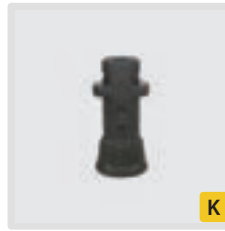
Plug K : M22 F

R+M Nr.
559 93



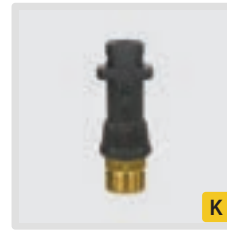
Plug K : M22 M

R+M Nr.
559 94



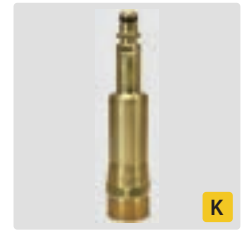
Plug K : 1/4" F.  
Plastic with brass  
thread

R+M Nr.
200 000 436



Plug K : M22 M.  
Plastic with brass  
thread

R+M Nr.
559 95



Plug 8.8 :  
M22 M. Brass.  
Max. 250 bar / 100 °C

R+M Nr.
559 908 221



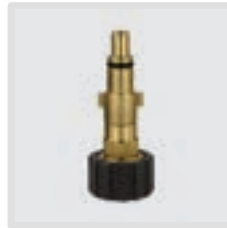
Plug Aqua : 1/4" F

R+M Nr.
559 21



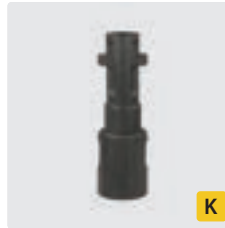
Plug KW : 1/4" F

R+M Nr.
559 20



Plug KW : M22 F

R+M Nr.
559 201



Plug K : bayonet KW

R+M Nr.
559 55



M22 M : bayonet KW

R+M Nr.
559 56



Plug : 1/4" F.  
Suitable for Anнови

R+M Nr.
200 000 438



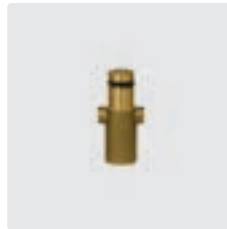
Bayonet KW.  
Suitable for Lavor,  
Annovi & Alto

R+M Nr.
559 58



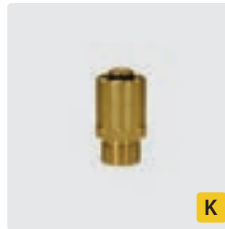
Bayonet KW.  
Suitable for Faip & Aqua

R+M Nr.
559 59



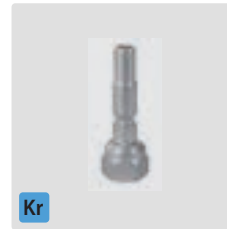
Plug Pro : 1/4" F

R+M Nr.
200 000 439



M22 F : M22 M.  
Suitable for Servopress

R+M Nr.
565 67



Plug KR-Hobby : 1/4" F.  
Stainless steel.  
HEX 19.

R+M Nr.	⊗
040 001 209	10

## Wall mount



Stainless steel. Wall mount for Suttner high pressure spray guns with lance or twin lance

R+M Nr.
040 002 055



Symbols ⊗ outlet ISO insulation ↔ length M material



## Gun extensions



1/4" M. Lance with insulation ST-28 Cool & Compact.  
Max. 400 bar / 150 °C

R+M Nr.	⊖	ISO	↔	Ⓜ
200 028 303	1/4" M	300 mm	330 mm	zinc-plated steel



1/4" M. Lance with insulation ST-9.9 and M22 F.  
Max. 400 bar / 150 °C

R+M Nr.	⊖	↔	Ⓜ
200 009 945	M22 F	370 mm	zinc-plated steel



1/4" M. Lance with insulation ST-29 Cool & Compact. Max. 400 bar / 150 °C

R+M Nr.	⊖	ISO	↔	Ⓜ
200 029 303	1/4" M	300 mm	330 mm	stainless steel



1/4" M. Lance with insulation ST-9.9 and M22 F.  
Max. 400 bar / 150 °C

R+M Nr.	⊖	↔	Ⓜ
200 009 940	M22 F	370 mm	zinc-plated steel



1/4" M. Lance with insulation ST-9.1 and M22 F.  
Max. 400 bar / 150 °C

R+M Nr.	⊖	↔	Ⓜ
200 009 730	M22 F	350 mm	stainless steel
200 009 731	M22 F	350 mm	zinc-plated steel



1/4" M. Lance with moulded handle.  
Max. 400 bar / 150 °C

R+M Nr.	⊖	ISO	↔	Ⓜ
070 004 340	1/4" M	400 mm	440 mm	stainless steel



1/4" M. Lance with insulation ST-9.1 and coupling KW.  
Max. 400 bar / 150 °C

R+M Nr.	⊖	↔	Ⓜ
200 009 750	coupling KW	260 mm	stainless steel



1/4" M. Lance with moulded handle.  
Max. 400 bar / 150 °C

R+M Nr.	⊖	ISO	↔	Ⓜ
070 000 330	1/4" M	300 mm	330 mm	zinc-plated steel
070 000 240	1/4" M	400 mm	440 mm	zinc-plated steel



1/4" M. Lance with insulation and M22 F.  
Max. 400 bar / 150 °C

R+M Nr.	⊖	↔	Ⓜ
202 300 400	M22 F	340 mm	zinc-plated steel

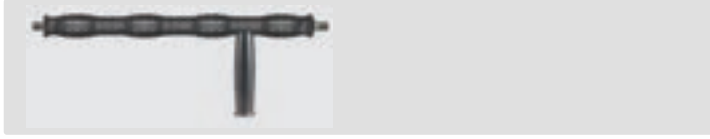


1/4" M. Lance with moulded handle.  
Max. 400 bar / 150 °C

R+M Nr.	⊖	ISO	↔	Ⓜ
070 003 229	1/4" M	300 mm	330 mm	stainless steel

### Gun extensions with handle

1/4" M. Lance with handle and insulation ST-28.2/ST-29.2 Cool & Compact. Max. 400 bar / 150 °C



R+M Nr.	☺	ISO	↔	M
200 028 204	1/4" M	400 mm	430 mm	zinc-plated
200 029 204	1/4" M	400 mm	430 mm	stainless steel



R+M Nr.	☺	ISO	↔	M
200 028 210	1/4" M	400 mm	1,000 mm	zinc-plated
200 029 210	1/4" M	400 mm	1,000 mm	stainless steel

### Insulations for lances

#### Insulations ST-9.9



Insulation 330 mm. Suitable for 1/4" lances. Max. 150 °C

R+M Nr.
200 009 935



Insulation 330 mm. Suitable for 1/4" lances. Max. 150 °C

R+M Nr.
200 009 936

#### Vented handles ST-9



Vented handle 380 mm. Suitable for 1/4" lances. Max. 150 °C

R+M Nr.
200 009 510

### Adapter for lances



M18 M : TR20 F. K-Lock 8. Brass.  
Max. 400 bar / 150° C

R+M Nr.
565 686

Symbols ☺ outlet ISO insulation ↔ length M material



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Lances

Flat jet lances



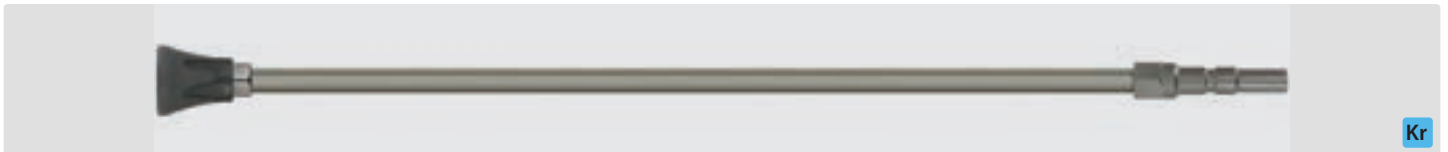
Kr

M22 M. Lance with nozzle protector ST-10 and nozzle. Max. 400 bar / 150 °C

R+M Nr.	D	↔	(M)
512 903 039	2503	430 mm	stainless steel
512 904 039	2504	430 mm	stainless steel
512 904 539	25045	430 mm	stainless steel
513 103 039	2503	500 mm	stainless steel
513 104 039	2504	500 mm	stainless steel
513 104 539	25045	500 mm	stainless steel
513 107 539	2507	500 mm	stainless steel
513 203 539	25035	600 mm	stainless steel
513 204 039	2504	600 mm	stainless steel
513 204 539	25045	600 mm	stainless steel
513 205 039	2505	600 mm	stainless steel
513 206 039	2506	600 mm	stainless steel
513 207 039	2507	600 mm	stainless steel
513 208 039	2508	600 mm	stainless steel
513 210 039	2510	600 mm	stainless steel
513 211 039	2511	600 mm	stainless steel
513 212 539	25125	600 mm	stainless steel

M22 M. Lance with nozzle protector ST-10 and nozzle. Max. 400 bar / 150 °C

R+M Nr.	D	↔	(M)
512 903 03	2503	430 mm	zinc-plated steel
512 904 03	2504	430 mm	zinc-plated steel
512 904 53	25045	430 mm	zinc-plated steel
513 103 03	2503	500 mm	zinc-plated steel
513 104 03	2504	500 mm	zinc-plated steel
513 104 53	25045	500 mm	zinc-plated steel
513 107 53	2507	500 mm	zinc-plated steel
513 203 53	25035	600 mm	zinc-plated steel
513 204 03	2504	600 mm	zinc-plated steel
513 204 53	25045	600 mm	zinc-plated steel
513 205 03	2505	600 mm	zinc-plated steel
513 206 03	2506	600 mm	zinc-plated steel
513 207 03	2507	600 mm	zinc-plated steel
513 208 03	2508	600 mm	zinc-plated steel
513 210 03	2510	600 mm	zinc-plated steel
513 211 03	2511	600 mm	zinc-plated steel
513 212 53	25125	600 mm	zinc-plated steel



Kr

Plug KW. Lance with protector ST-10 without nozzle. Max. 400 bar / 150 °C

R+M Nr.	↔	(M)
513 100 079	500 mm	stainless steel
513 200 079	600 mm	stainless steel

Plug KW. Lance with protector ST-10 with nozzle. Max. 400 bar / 150 °C

R+M Nr.	D	↔	(M)
512 903 049	2503	430 mm	stainless steel

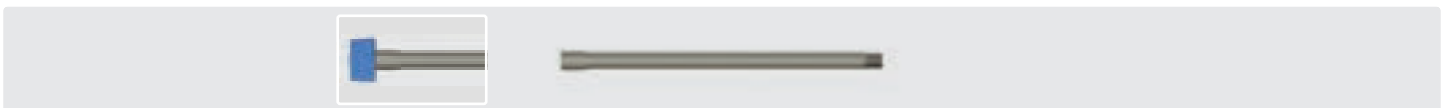
Lances with female thread



1/4" M. Lance with moulded handle Cool & Compact. Comfortable grip and ergonomic shape. Heat-proof insulation. Max. 400 bar / 150 °C

R+M Nr.	⊖	ISO	↔	(M)
200 129 140	1/4" F BSP	300 mm	500 mm	stainless steel
200 129 145	1/4" F BSP	400 mm	700 mm	stainless steel
200 129 150	1/4" F BSP	400 mm	800 mm	stainless steel

R+M Nr.



1/4" M. Lance. Max. 400 bar / 150 °C

R+M Nr.	⊖	↔	(M)
070 000 097	1/4" F BSP	100 mm	stainless steel
070 000 098	1/4" F BSP	150 mm	stainless steel
070 000 099	1/4" F BSP	200 mm	stainless steel
070 000 095	1/4" F BSP	250 mm	stainless steel
070 000 101	1/4" F BSP	350 mm	stainless steel

R+M Nr.

## Lances

ST-001



1/4" M. Lance with male thread. Max. 400 bar / 150 °C

R+M Nr.	⊙	↔	(M)
070 004 008	1/4" M	400 mm	stainless steel
070 004 338	1/4" M	433 mm	stainless steel
070 005 008	1/4" M	500 mm	stainless steel
070 006 008	1/4" M	600 mm	stainless steel
070 008 008	1/4" M	800 mm	stainless steel
070 010 008	1/4" M	1,000 mm	stainless steel
070 012 008	1/4" M	1,200 mm	stainless steel
070 015 008	1/4" M	1,500 mm	stainless steel
070 020 008	1/4" M	2,000 mm	stainless steel

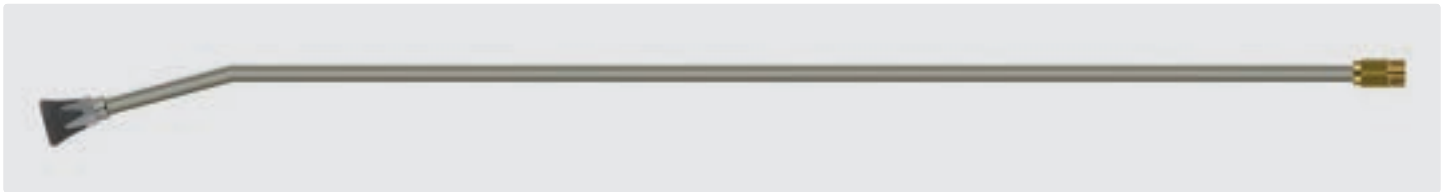
R+M Nr.	⊙	↔	(M)
070 000 076	1/4" M	400 mm	zinc-plated steel
070 000 026	1/4" M	431 mm	zinc-plated steel
070 000 030	1/4" M	500 mm	zinc-plated steel
070 000 040	1/4" M	600 mm	zinc-plated steel
070 000 050	1/4" M	800 mm	zinc-plated steel
070 000 060	1/4" M	1,000 mm	zinc-plated steel
070 000 070	1/4" M	1,200 mm	zinc-plated steel
070 000 080	1/4" M	1,500 mm	zinc-plated steel
070 000 090	1/4" M	2,000 mm	zinc-plated steel



M22 M. Lance with nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.	⊖	↔	(M)
512 903 9	1/4" F NPT	430 mm	stainless steel
513 103 9	1/4" F NPT	500 mm	stainless steel
513 203 9	1/4" F NPT	600 mm	stainless steel
513 303 9	1/4" F NPT	800 mm	stainless steel
513 403 9	1/4" F NPT	1,000 mm	stainless steel

R+M Nr.	⊖	↔	(M)
512 903	1/4" F NPT	430 mm	zinc-plated steel
513 103	1/4" F NPT	500 mm	zinc-plated steel
513 203	1/4" F NPT	600 mm	zinc-plated steel
513 303	1/4" F NPT	800 mm	zinc-plated steel
513 403	1/4" F NPT	1,000 mm	zinc-plated steel



M22 M. Lance with nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.	⊖	↔	(M)
513 203 91	1/4" F NPT	600 mm	stainless steel
513 303 91	1/4" F NPT	800 mm	stainless steel
513 403 91	1/4" F NPT	1,000 mm	stainless steel

R+M Nr.	⊖	↔	(M)
513 203 1	1/4" F NPT	600 mm	zinc-plated steel
513 303 1	1/4" F NPT	800 mm	zinc-plated steel
513 403 1	1/4" F NPT	1,000 mm	zinc-plated steel

Symbols ⊖ outlet ISO insulation ↔ length (M) material ⊔ nozzle ⊙ thread

Lances

ST-26 Cool & Soft

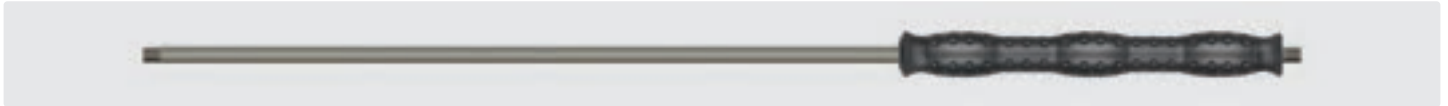


Lance with insulation ST-26 Cool & Soft. Comfortable grip and ergonomic shape. Heat-proof insulation. Heat-proof insulation. Max. 400 bar / 150 °C

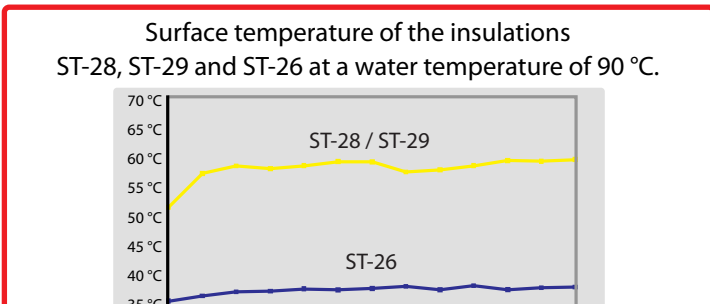
R+M Nr.	⊙	ISO	⇄	M
200 026 410	1/4" M	400 mm	1,000 mm	stainless steel

R+M Nr.

ST-28 Cool & Compact

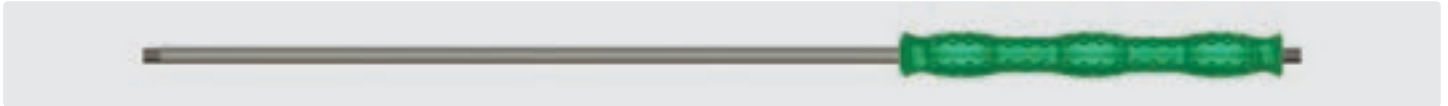


Lance with insulation ST-28 Cool & Compact. Comfortable grip and ergonomic shape. Heat-proof insulation. Max. 400 bar / 150 °C



R+M Nr.	⊙	ISO	⇄	M
200 028 303	1/4" M	300 mm	330 mm	zinc-plated steel
200 028 305	1/4" M	300 mm	500 mm	zinc-plated steel
200 028 306	1/4" M	300 mm	600 mm	zinc-plated steel
200 028 307	1/4" M	300 mm	700 mm	zinc-plated steel
200 028 408	1/4" M	400 mm	800 mm	zinc-plated steel
200 028 309	1/4" M	300 mm	900 mm	zinc-plated steel
200 028 410	1/4" M	400 mm	1,000 mm	zinc-plated steel
200 028 312 *	1/4" M	300 mm	1,200 mm	zinc-plated steel
200 028 412	1/4" M	400 mm	1,200 mm	zinc-plated steel

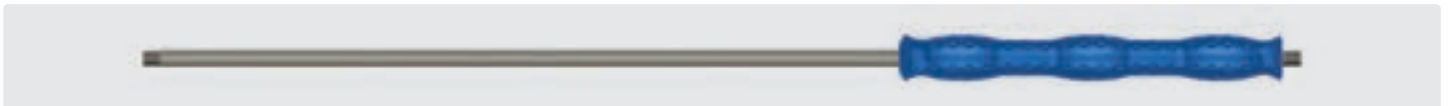
ST-29 Cool & Compact



Lance with insulation ST-29 Cool & Compact green. Comfortable grip and ergonomic shape. Heat-proof insulation. Max. 400 bar / 150 °C

R+M Nr.	⊙	ISO	⇄	M
200 029 317	1/4" M	300 mm	900 mm	stainless steel

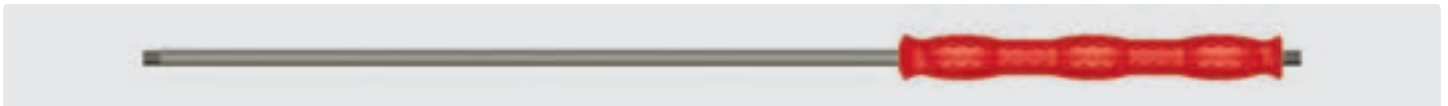
R+M Nr.



Lance with insulation ST-29 Cool & Compact blue. Comfortable grip and ergonomic shape. Heat-proof insulation. Max. 400 bar / 150 °C

R+M Nr.	⊙	ISO	⇄	M
200 029 315	1/4" M	300 mm	900 mm	stainless steel

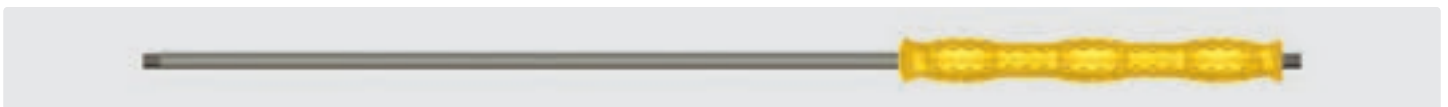
R+M Nr.



Lance with insulation ST-29 Cool & Compact red. Comfortable grip and ergonomic shape. Heat-proof insulation. Max. 400 bar / 150 °C

R+M Nr.	⊙	ISO	⇄	M
200 029 318	1/4" M	300 mm	900 mm	stainless steel

R+M Nr.



Lance with insulation ST-29 Cool & Compact yellow. Comfortable grip and ergonomic shape. Heat-proof insulation. Max. 400 bar / 150 °C

R+M Nr.	⊙	ISO	⇄	M
200 029 316	1/4" M	300 mm	900 mm	stainless steel

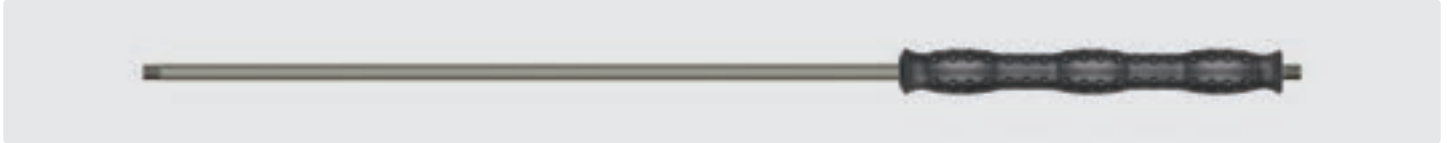
R+M Nr.

\* limited stock



## Lances

### ST-29 Cool & Compact



Lance with insulation ST-29 Cool & Compact. Comfortable grip and ergonomic shape. Heat-proof insulation. Max. 400 bar / 150 °C

R+M Nr.	⊙	ISO	↔	M	R+M Nr.
200 029 305	1/4" M	300 mm	500 mm	stainless steel	
200 029 306	1/4" M	300 mm	600 mm	stainless steel	
200 029 307	1/4" M	300 mm	700 mm	stainless steel	
200 029 309	1/4" M	300 mm	900 mm	stainless steel	
200 029 410	1/4" M	400 mm	1,000 mm	stainless steel	
200 029 312 *	1/4" M	300 mm	1,200 mm	stainless steel	
200 029 412	1/4" M	400 mm	1,200 mm	stainless steel	

### ST-007



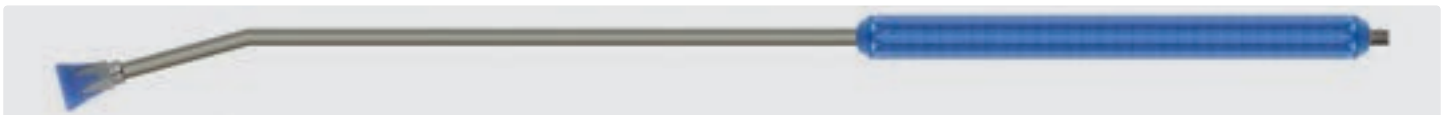
Lance with moulded handle. Max. 400 bar / 150 °C

R+M Nr.	⊙	ISO	↔	M	R+M Nr.
070 005 010	1/4" M	300 mm	500 mm	stainless steel	
070 010 010	1/4" M	400 mm	1,000 mm	stainless steel	



1/4" M. Lance with moulded handle and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

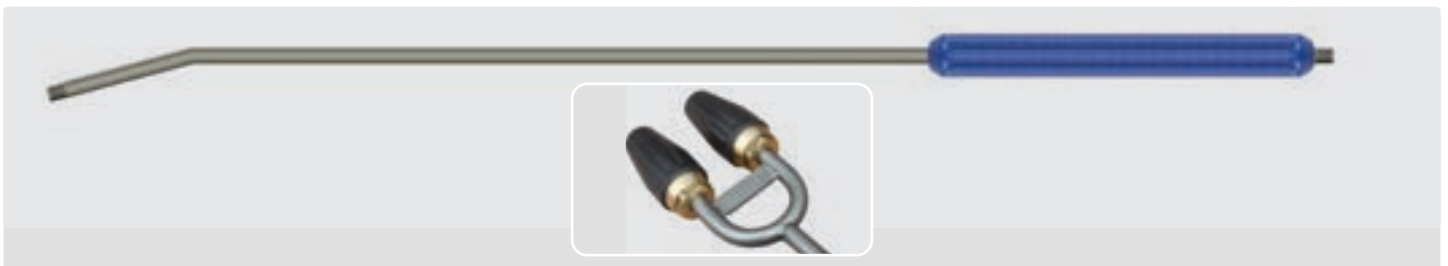
R+M Nr.	⊖	ISO	↔	M	R+M Nr.
512 149 3	1/4" F NPT	300 mm	500 mm	stainless steel	
512 449 3	1/4" F NPT	400 mm	1,000 mm	stainless steel	



1/4" M. Lance with moulded handle and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.	⊖	ISO	↔	M	R+M Nr.
512 449 31	1/4" F NPT	400 mm	1,000 mm	stainless steel	

## U-lances



1/4" M. Lance with moulded handle. Max. 250 bar / 150 °C

R+M Nr.	⊖	ISO	↔	M	R+M Nr.
070 009 011	2 x 1/4" M	300 mm	900 mm	stainless steel	

Symbols ⊖ outlet ↔ length M material ISO insulation ⊙ thread

## Lances

ST-007



Lance with moulded handle. Max. 400 bar / 150 °C

R+M Nr.	⊙	ISO	↔	M
070 009 433	1/4" M	300 mm	433 mm	stainless steel
070 005 009	1/4" M	300 mm	500 mm	stainless steel
070 006 009	1/4" M	300 mm	600 mm	stainless steel
070 007 009	1/4" M	300 mm	700 mm	stainless steel
070 008 009	1/4" M	400 mm	800 mm	stainless steel
070 010 009	1/4" M	400 mm	1,000 mm	stainless steel
070 012 009	1/4" M	500 mm	1,200 mm	stainless steel
070 015 009	1/4" M	500 mm	1,500 mm	stainless steel
070 020 009	1/4" M	500 mm	2,000 mm	stainless steel

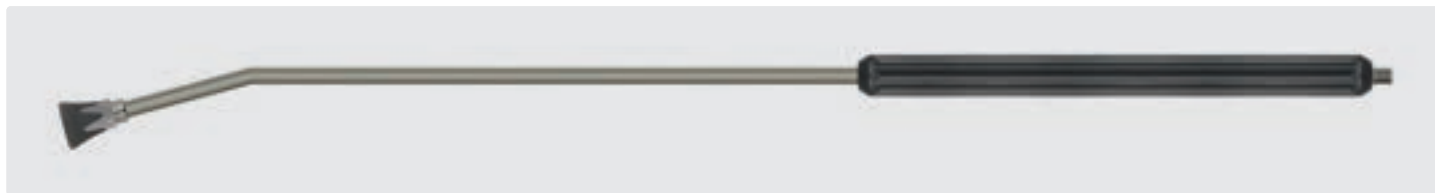
R+M Nr.	⊙	ISO	↔	M
070 000 170	1/4" M	300 mm	500 mm	zinc-plated steel
070 000 180	1/4" M	300 mm	600 mm	zinc-plated steel
070 000 190	1/4" M	400 mm	800 mm	zinc-plated steel
070 000 470	1/4" M	300 mm	900 mm	zinc-plated steel
070 000 200	1/4" M	400 mm	1,000 mm	zinc-plated steel
070 000 210	1/4" M	500 mm	1,200 mm	zinc-plated steel
070 000 220	1/4" M	500 mm	1,500 mm	zinc-plated steel
070 000 230	1/4" M	500 mm	2,000 mm	zinc-plated steel



1/4" M. Lance with moulded handle and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.	⊙	ISO	↔	M
512 193	1/4" F NPT	300 mm	500 mm	stainless steel
512 293	1/4" F NPT	300 mm	600 mm	stainless steel
512 393	1/4" F NPT	400 mm	800 mm	stainless steel
512 493	1/4" F NPT	400 mm	1,000 mm	stainless steel
512 593	1/4" F NPT	500 mm	1,200 mm	stainless steel
512 693	1/4" F NPT	500 mm	1,500 mm	stainless steel
512 893	1/4" F NPT	500 mm	2,000 mm	stainless steel

R+M Nr.	⊙	ISO	↔	M
512 103	1/4" F NPT	300 mm	500 mm	zinc-plated steel
512 203	1/4" F NPT	300 mm	600 mm	zinc-plated steel
512 303	1/4" F NPT	400 mm	800 mm	zinc-plated steel
512 403	1/4" F NPT	400 mm	1,000 mm	zinc-plated steel
512 503	1/4" F NPT	500 mm	1,200 mm	zinc-plated steel
512 603	1/4" F NPT	500 mm	1,500 mm	zinc-plated steel
512 803	1/4" F NPT	500 mm	2,000 mm	zinc-plated steel



1/4" M. Lance with moulded handle and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.	⊙	ISO	↔	M
512 393 1	1/4" F NPT	400 mm	800 mm	stainless steel
512 493 1	1/4" F NPT	400 mm	1,000 mm	stainless steel
512 593 1	1/4" F NPT	500 mm	1,200 mm	stainless steel
512 693 1	1/4" F NPT	500 mm	1,500 mm	stainless steel
512 893 1	1/4" F NPT	500 mm	2,000 mm	stainless steel

R+M Nr.	⊙	ISO	↔	M
512 303 1	1/4" F NPT	400 mm	800 mm	zinc-plated steel
512 403 1	1/4" F NPT	400 mm	1,000 mm	zinc-plated steel
512 503 1	1/4" F NPT	500 mm	1,200 mm	zinc-plated steel
512 603 1	1/4" F NPT	500 mm	1,500 mm	zinc-plated steel
512 803 1	1/4" F NPT	500 mm	2,000 mm	zinc-plated steel

## Lances

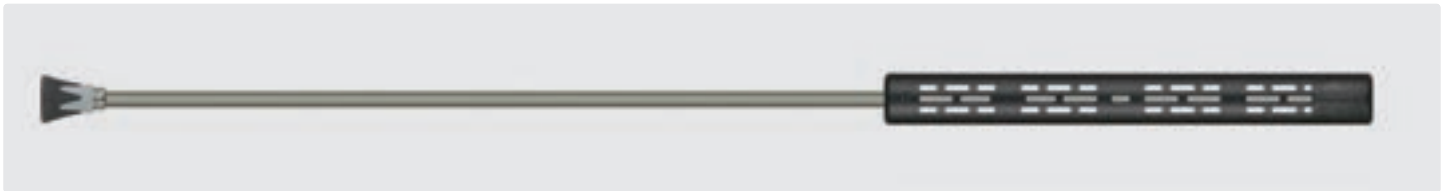
### ST-001 with vented handle ST-9



Lance with insulation ST-9. Max. 400 bar / 150 °C

R+M Nr.	⊙	ISO	↔	M
511 29	1/4" M	380 mm	500 mm	stainless steel
511 39	1/4" M	380 mm	600 mm	stainless steel
511 49	1/4" M	380 mm	800 mm	stainless steel
511 59	1/4" M	380 mm	1,000 mm	stainless steel
511 69	1/4" M	380 mm	1,200 mm	stainless steel
511 79	1/4" M	380 mm	1,500 mm	stainless steel
511 719	1/4" M	760 mm	1,500 mm	stainless steel
511 99	1/4" M	760 mm	2,000 mm	stainless steel

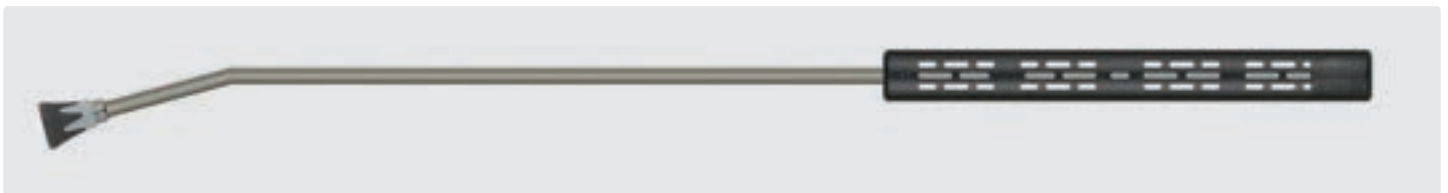
R+M Nr.	⊙	ISO	↔	M
511 20	1/4" M	380 mm	500 mm	zinc-plated steel
511 30	1/4" M	380 mm	600 mm	zinc-plated steel
511 40	1/4" M	380 mm	800 mm	zinc-plated steel
511 50	1/4" M	380 mm	1,000 mm	zinc-plated steel
511 60	1/4" M	380 mm	1,200 mm	zinc-plated steel
511 70	1/4" M	380 mm	1,500 mm	zinc-plated steel
511 71	1/4" M	760 mm	1,500 mm	zinc-plated steel
511 90	1/4" M	760 mm	2,000 mm	zinc-plated steel



1/4" M. Lance with vented handle ST-9 and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.	⊕	ISO	↔	M
511 201 9	1/4" F NPT	380 mm	500 mm	stainless steel
511 301 9	1/4" F NPT	380 mm	600 mm	stainless steel
511 401 9	1/4" F NPT	380 mm	800 mm	stainless steel
511 501 9	1/4" F NPT	380 mm	1,000 mm	stainless steel
511 601 9	1/4" F NPT	380 mm	1,200 mm	stainless steel
511 701 9	1/4" F NPT	760 mm	1,500 mm	stainless steel
511 901 9	1/4" F NPT	760 mm	2,000 mm	stainless steel

R+M Nr.	⊕	ISO	↔	M
511 201	1/4" F NPT	380 mm	500 mm	zinc-plated steel
511 301	1/4" F NPT	380 mm	600 mm	zinc-plated steel
511 401	1/4" F NPT	380 mm	800 mm	zinc-plated steel
511 501	1/4" F NPT	380 mm	1,000 mm	zinc-plated steel
511 601	1/4" F NPT	380 mm	1,200 mm	zinc-plated steel
511 701	1/4" F NPT	760 mm	1,500 mm	zinc-plated steel
511 901	1/4" F NPT	760 mm	2,000 mm	zinc-plated steel



1/4" M. Lance with vented handle ST-9 and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.	⊕	ISO	↔	M
511 401 19	1/4" F NPT	380 mm	800 mm	stainless steel
511 501 19	1/4" F NPT	380 mm	1,000 mm	stainless steel
511 601 19	1/4" F NPT	380 mm	1,200 mm	stainless steel
511 701 19	1/4" F NPT	760 mm	1,500 mm	stainless steel
511 901 19	1/4" F NPT	760 mm	2,000 mm	stainless steel

R+M Nr.	⊕	ISO	↔	M
511 401 1	1/4" F NPT	380 mm	800 mm	zinc-plated steel
511 501 1	1/4" F NPT	380 mm	1,000 mm	zinc-plated steel
511 601 1	1/4" F NPT	380 mm	1,200 mm	zinc-plated steel
511 701 1	1/4" F NPT	760 mm	1,500 mm	zinc-plated steel
511 901 1	1/4" F NPT	760 mm	2,000 mm	zinc-plated steel

Symbols ⊕ outlet ↔ length M material ISO insulation ⊙ thread

## Lances

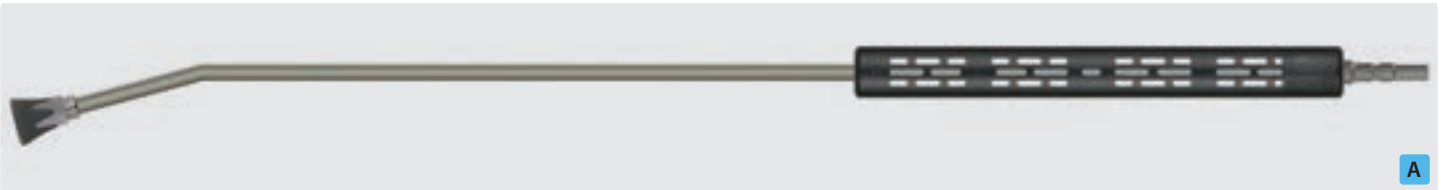
## ST-001 with vented handle ST-9



Plug KW. Lance with vented handle ST-9 and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.	☺	ISO	↔	M
511 405 9	1/4" F NPT	380 mm	800 mm	stainless steel
511 505 9	1/4" F NPT	380 mm	1,000 mm	stainless steel

R+M Nr.	☺	ISO	↔	M
511 405	1/4" F NPT	380 mm	800 mm	zinc-plated steel
511 505	1/4" F NPT	380 mm	1,000 mm	zinc-plated steel



Plug KW. Lance with vented handle ST-9 and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.	☺	ISO	↔	M
511 405 91	1/4" F NPT	380 mm	800 mm	stainless steel
511 505 91	1/4" F NPT	380 mm	1,000 mm	stainless steel

R+M Nr.	☺	ISO	↔	M
511 405 1	1/4" F NPT	380 mm	800 mm	zinc-plated steel
511 505 1	1/4" F NPT	380 mm	1,000 mm	zinc-plated steel



Plug KW. Lance with insulation ST-9, grip and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.	☺	ISO	↔	M
511 705 9	1/4" F NPT	760 mm	1,500 mm	stainless steel
511 905 9	1/4" F NPT	760 mm	2,000 mm	stainless steel

R+M Nr.	☺	ISO	↔	M
511 705	1/4" F NPT	760 mm	1,500 mm	zinc-plated steel
511 905	1/4" F NPT	760 mm	2,000 mm	zinc-plated steel



Plug KW. Lance with insulation ST-9, grip and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

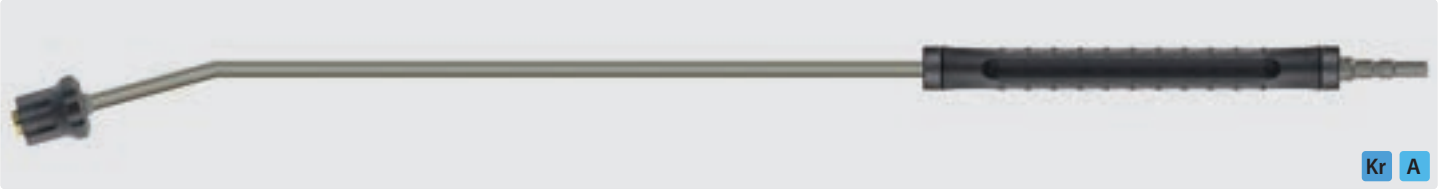
R+M Nr.	☺	ISO	↔	M
511 705 91	1/4" F NPT	760 mm	1,500 mm	stainless steel
511 905 91	1/4" F NPT	760 mm	2,000 mm	stainless steel

R+M Nr.	☺	ISO	↔	M
511 705 1	1/4" F NPT	760 mm	1,500 mm	zinc-plated steel
511 905 1	1/4" F NPT	760 mm	2,000 mm	zinc-plated steel

Symbols ☺ outlet ↔ length M material ISO insulation

## Lances

### ST-001 with insulation ST-9.9



Kr A

Plug KW. Lance with insulation ST-9.9 and ST-51 adjustable nozzle. Max. 250 bar / 150 °C

R+M Nr.		ISO		M
511 505 910	1/4" F	330 mm	1,000 mm	stainless steel

R+M Nr.

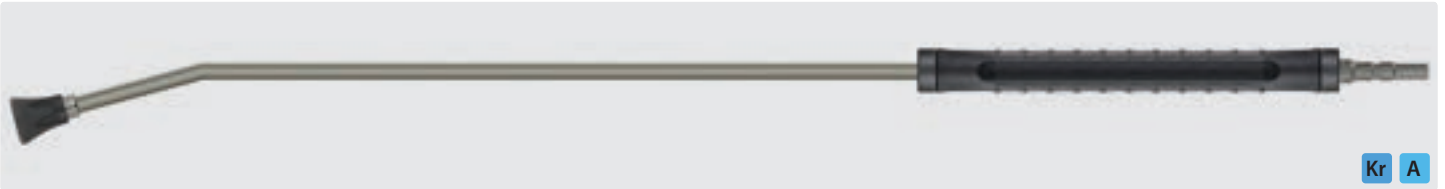


A

Plug KW. Lance with insulation ST-9.9 and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.		ISO		M
511 505 901	1/8" F NPT	330 mm	1,000 mm	stainless steel

R+M Nr.



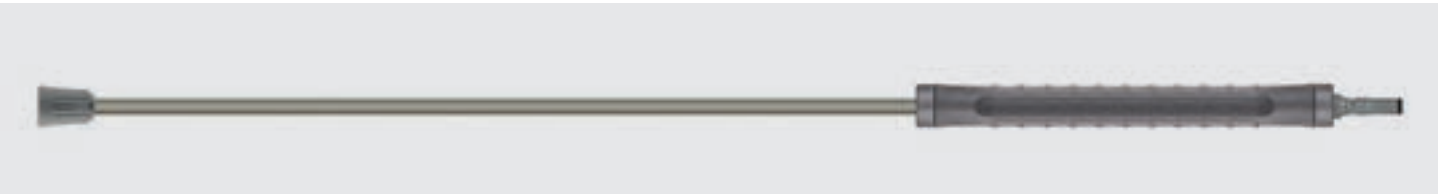
Kr A

Plug KW. Lance with insulation ST-9.9 and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.		ISO		M
511 505 905	1/4" F NPT	330 mm	1,000 mm	stainless steel

R+M Nr.

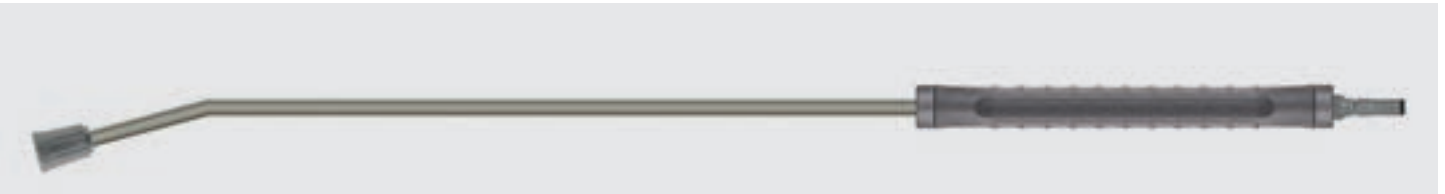
### ST-247 with insulation ST-9.9



Plug ST-247. Lance with insulation ST-9.9 and hydroblade® nozzle protector without hydroblade® nozzles. Max. 400 bar / 150 °C

R+M Nr.		ISO		M
514 524 700	hydroblade®	330 mm	1.000 mm	stainless steel

R+M Nr.



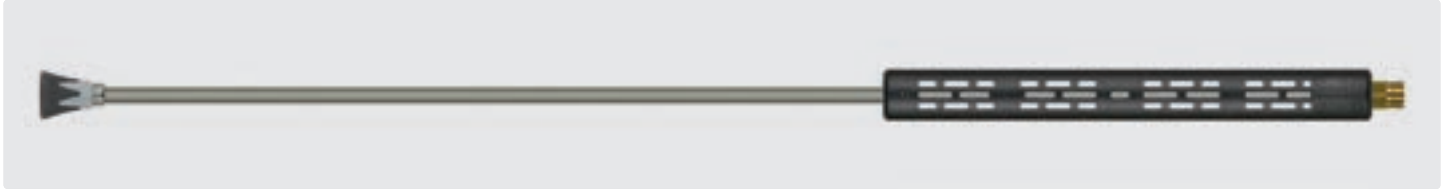
Plug ST-247. Lance with insulation ST-9.9 and hydroblade® nozzle protector without hydroblade® nozzles. Max. 400 bar / 150 °C

R+M Nr.		ISO		M
514 524 701	hydroblade®	330 mm	1.000 mm	stainless steel

R+M Nr.

Lances

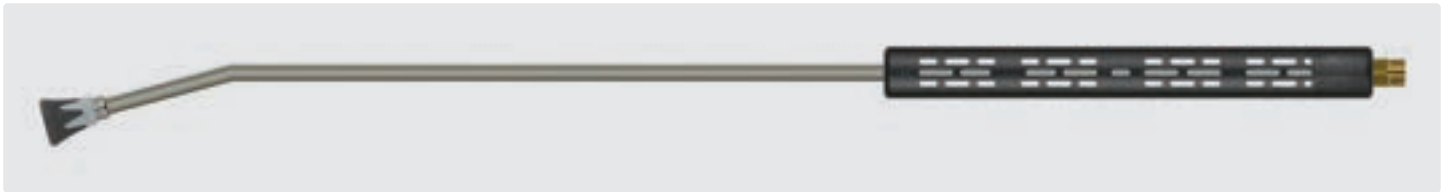
ST-001 with vented handle ST-9



M22 M. Lance with vented handle ST-9 and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.	☺	ISO	↔	M
511 203 9	1/4" F NPT	380 mm	500 mm	stainless steel
511 503 9	1/4" F NPT	380 mm	1,000 mm	stainless steel
511 703 9	1/4" F NPT	380 mm	1,500 mm	stainless steel
511 803 9	1/4" F NPT	760 mm	2,000 mm	stainless steel

R+M Nr.	☺	ISO	↔	M
511 203	1/4" F NPT	380 mm	500 mm	zinc-plated steel
511 503	1/4" F NPT	380 mm	1,000 mm	zinc-plated steel
511 703	1/4" F NPT	380 mm	1,500 mm	zinc-plated steel
511 803	1/4" F NPT	760 mm	2,000 mm	zinc-plated steel

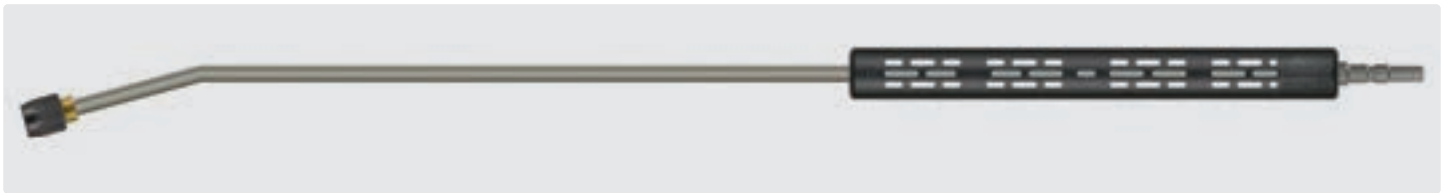


M22 M. Lance with vented handle ST-9 and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.	☺	ISO	↔	M
511 503 91	1/4" F NPT	380 mm	1,000 mm	stainless steel
511 703 91	1/4" F NPT	380 mm	1,500 mm	stainless steel
511 803 91	1/4" F NPT	760 mm	2,000 mm	stainless steel

R+M Nr.	☺	ISO	↔	M
511 503 1	1/4" F NPT	380 mm	1,000 mm	zinc-plated steel
511 703 1	1/4" F NPT	380 mm	1,500 mm	zinc-plated steel
511 803 1	1/4" F NPT	760 mm	2,000 mm	zinc-plated steel

ST-001 with vented handle ST-9



Plug KW. Lance with vented handle ST-9 and nozzle protector without tip. Max. 400 bar / 150 °C

R+M Nr.	☺	ISO	↔	M
514 594	nozzle protector	380 mm	1,000 mm	stainless steel

R+M Nr.

Nozzle protector



Nozzle protector with M22 F.  
Without tip. Max. 400 bar / 150 °C

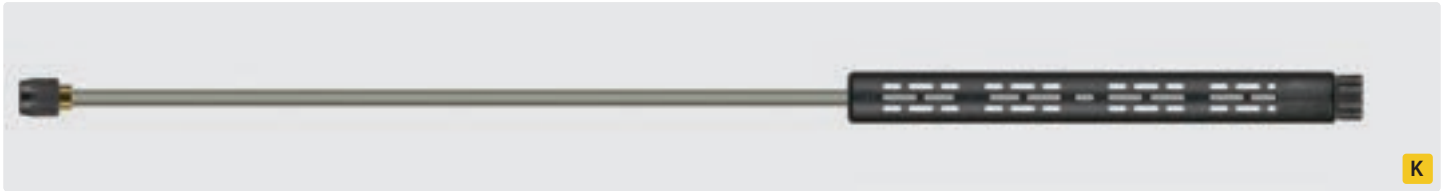
Nozzle protector with plug KW.  
Without tip. Max. 400 bar / 150 °C

R+M Nr.
561 41

R+M Nr.
559 105



## Lances

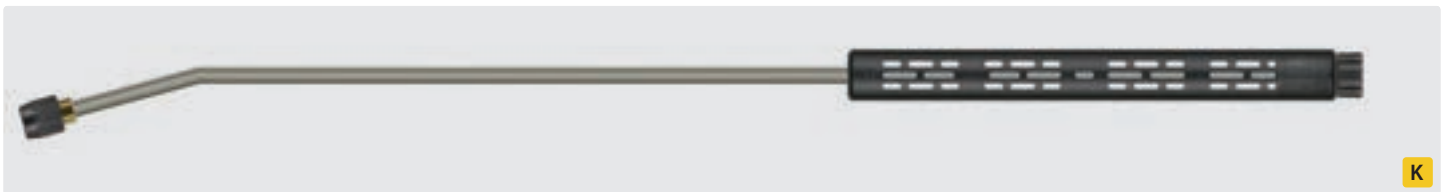


K

M22 F. Lance with vented handle ST-9 and nozzle protector without tip. Max. 400 bar / 150 °C

R+M Nr.	☺	ISO	↔	M
514 19	nozzle protector	380 mm	500 mm	stainless steel
514 29	nozzle protector	380 mm	600 mm	stainless steel
514 39	nozzle protector	380 mm	800 mm	stainless steel
514 59	nozzle protector	380 mm	1,000 mm	stainless steel
514 69	nozzle protector	380 mm	1,200 mm	stainless steel
514 79	nozzle protector	380 mm	1,500 mm	stainless steel
514 89	nozzle protector	760 mm	2,000 mm	stainless steel

R+M Nr.	☺	ISO	↔	M
514 10	nozzle protector	380 mm	500 mm	zinc-plated steel
514 20	nozzle protector	380 mm	600 mm	zinc-plated steel
514 30	nozzle protector	380 mm	800 mm	zinc-plated steel
514 50	nozzle protector	380 mm	1,000 mm	zinc-plated steel
514 60	nozzle protector	380 mm	1,200 mm	zinc-plated steel
514 70	nozzle protector	380 mm	1,500 mm	zinc-plated steel
514 80	nozzle protector	760 mm	2,000 mm	zinc-plated steel

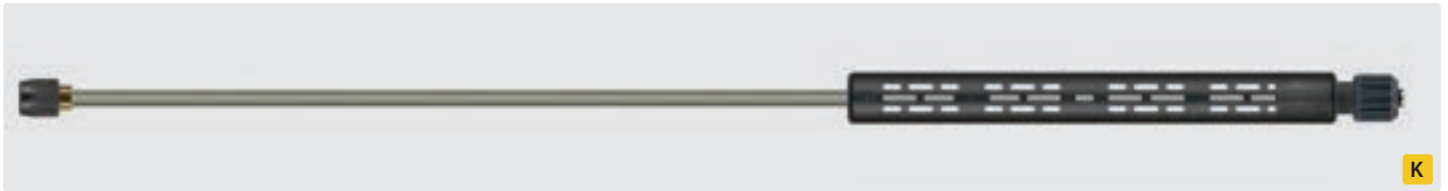


K

M22 F. Lance with vented handle ST-9 and nozzle protector without tip. Max. 400 bar / 150 °C

R+M Nr.	☺	ISO	↔	M
514 391	nozzle protector	380 mm	800 mm	stainless steel
514 591	nozzle protector	380 mm	1,000 mm	stainless steel
514 691	nozzle protector	380 mm	1,200 mm	stainless steel
514 791	nozzle protector	380 mm	1,500 mm	stainless steel
514 891	nozzle protector	760 mm	2,000 mm	stainless steel

R+M Nr.	☺	ISO	↔	M
514 301	nozzle protector	380 mm	800 mm	zinc-plated steel
514 501	nozzle protector	380 mm	1,000 mm	zinc-plated steel
514 601	nozzle protector	380 mm	1,200 mm	zinc-plated steel
514 701	nozzle protector	380 mm	1,500 mm	zinc-plated steel
514 801	nozzle protector	760 mm	2,000 mm	zinc-plated steel

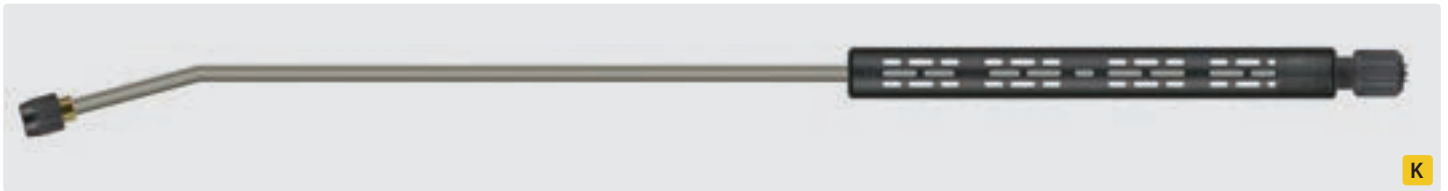


K

M22 F swivel. Lance with vented handle ST-9 and nozzle protector without tip. Max. 400 bar / 150 °C

R+M Nr.	☺	ISO	↔	M
514 119	nozzle protector	380 mm	500 mm	stainless steel
514 519	nozzle protector	380 mm	1,000 mm	stainless steel
514 719	nozzle protector	380 mm	1,500 mm	stainless steel
514 819	nozzle protector	760 mm	2,000 mm	stainless steel

R+M Nr.	☺	ISO	↔	M
514 11	nozzle protector	380 mm	500 mm	zinc-plated steel
514 510	nozzle protector	380 mm	1,000 mm	zinc-plated steel
514 71	nozzle protector	380 mm	1,500 mm	zinc-plated steel
514 81	nozzle protector	760 mm	2,000 mm	zinc-plated steel



K

M22 F swivel. Lance with vented handle ST-9 and nozzle protector without tip. Max. 400 bar / 150 °C

R+M Nr.	☺	ISO	↔	M
514 519 1	nozzle protector	380 mm	1,000 mm	stainless steel
514 719 1	nozzle protector	380 mm	1,500 mm	stainless steel
514 819 1	nozzle protector	760 mm	2,000 mm	stainless steel

R+M Nr.	☺	ISO	↔	M
514 511	nozzle protector	380 mm	1,000 mm	zinc-plated steel
514 711	nozzle protector	380 mm	1,500 mm	zinc-plated steel
514 811	nozzle protector	760 mm	2,000 mm	zinc-plated steel

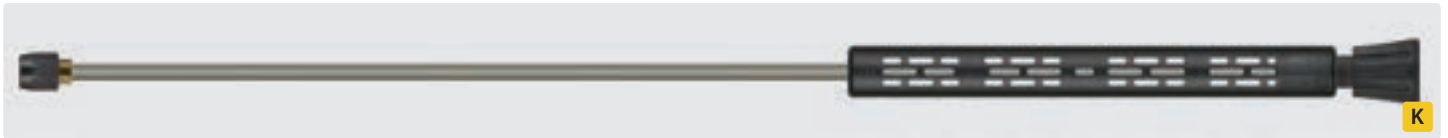
Symbols ☺ outlet ↔ length M material ISO insulation

**Lances with ergonomic swivel screw coupling**

- » Lances suitable for Kärcher spray guns.
- » The lance has an ergonomic and conical swivel screw coupling operating as a connection piece between the lance and the spray gun. The new design offers a smooth transition from the spray gun to the lance.
- » Rotating by 360° under pressure.
- » All materials are rust-free and of premium quality.
- » The hand screw coupling is made out of shock-resistant plastics and equipped with a brazen thread. The internal nipple of the hand screw coupling is made out of stainless steel.
- » Nozzle protector without tip.



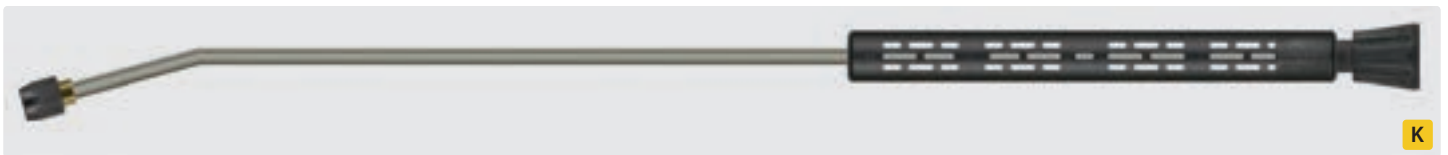
**Lances with vented handle ST-9**



M22 F swivel. Lance with vented handle ST-9 and nozzle protector without tip. Max. 400 bar / 150 °C

R+M Nr.	spray gun	ISO	↔	M
514 149	standard	380 mm	500 mm	stainless steel
514 249	standard	380 mm	600 mm	stainless steel
514 549	standard	380 mm	1,000 mm	stainless steel
514 749	standard	380 mm	1,500 mm	stainless steel

R+M Nr.	spray gun	ISO	↔	M
514 159	servopress	380 mm	500 mm	stainless steel
514 559	servopress	380 mm	1,000 mm	stainless steel



M22 F swivel. Lance with vented handle ST-9 and nozzle protector without tip. Max. 400 bar / 150 °C

R+M Nr.	spray gun	ISO	↔	M
514 349 1	standard	380 mm	800 mm	stainless steel
514 549 1	standard	380 mm	1,000 mm	stainless steel
514 649 1	standard	380 mm	1,200 mm	stainless steel
514 749 1	standard	380 mm	1,500 mm	stainless steel

R+M Nr.	spray gun	ISO	↔	M
514 559 1	servopress	380 mm	1,000 mm	stainless steel

**Lances with insulation ST-22**



M22 F swivel. Lance with insulation ST-22 and nozzle protector without tip. Max. 400 bar / 150 °C

R+M Nr.	spray gun	ISO	↔	M
514 129 *	standard	310 mm	500 mm	stainless steel
514 529	standard	410 mm	1,000 mm	stainless steel

R+M Nr.	spray gun	ISO	↔	M
514 139 *	servopress	310 mm	500 mm	stainless steel
514 539	servopress	410 mm	1,000 mm	stainless steel

Symbols inlet outlet length material insulation

\* limited stock

## Lances with ergonomic swivel screw coupling

### Lances with insulation ST-22



M22 F swivel. Lance with insulation ST-22 and nozzle protector without tip. Max. 400 bar / 150 °C

R+M Nr.	spray gun	ISO	↔	M	R+M Nr.	spray gun	ISO	↔	M
514 529 1	standard	410 mm	1,000 mm	stainless steel	514 539 1	servopress	410 mm	1,000 mm	stainless steel

### Twin lances with moulded handle



M22 F swivel. Lance with moulded handle, valve ST-54 aside and nozzle protector without tip. Max. 310 bar / 150 °C

R+M Nr.	↻	ISO	↔	M	R+M Nr.	↻	ISO	↔	M
		300 mm	980 mm	zinc-plated steel	517 608 5	nozzle protector	300 mm	980 mm	zinc-plated steel



suitable for standard spray guns

M22 F swivel. ST-85 Push & Pull lance with ergonomic swivel screw coupling suitable for standard spray guns. Max. 210 bar / 150 °C

R+M Nr.	↻	↔	⊕	M	R+M Nr.	↻	↔	⊕	M
200 085 645	nozzle protector	850 mm	M22 F swivel	stainless steel	200 085 745	nozzle protector	850 mm	M22 F swivel	zinc-plated steel
200 085 935	nozzle protector	1,000 mm	M22 F swivel	stainless steel	200 085 925	nozzle protector	1,000 mm	M22 F swivel	zinc-plated steel
200 085 685	nozzle protector	1,500 mm	M22 F swivel	stainless steel	200 085 785	nozzle protector	1,500 mm	M22 F swivel	zinc-plated steel
200 085 687	nozzle protector	2,000 mm	M22 F swivel	stainless steel					



suitable for servopress spray guns

M22 F swivel. ST-85 Push & Pull lance with ergonomic swivel screw coupling suitable for servopress spray guns. Max. 210 bar / 150 °C

R+M Nr.	↻	↔	⊕	M	R+M Nr.	↻	↔	⊕	M
200 085 646	nozzle protector	850 mm	M22 F swivel	stainless steel	200 085 746	nozzle protector	850 mm	M22 F swivel	zinc-plated steel
200 085 936	nozzle protector	1,000 mm	M22 F swivel	stainless steel	200 085 926	nozzle protector	1,000 mm	M22 F swivel	zinc-plated steel
200 085 686	nozzle protector	1,500 mm	M22 F swivel	stainless steel	200 085 786	nozzle protector	1,500 mm	M22 F swivel	zinc-plated steel
200 085 688	nozzle protector	2,000 mm	M22 F swivel	stainless steel					

### Lances with vented handle ST-9



M22 F swivel. Lance with ergonomic swivel screw coupling, vented handle ST-9 & grip and nozzle protector (M20x1) without tip. Max. 650 bar / 150 °C

R+M Nr.	↻	↔	⊕	M	R+M Nr.
200 146 550	nozzle protector	700 mm	M22 F swivel	stainless steel	

**Twin lances**

**Lances with valve ST-54**



1/4" F. Lance with valve ST-54 and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 310 bar / 150 °C

R+M Nr.	⊖	ISO	↔	M
200 054 950	1/4" F NPT	-	650 mm	stainless steel

R+M Nr.	⊖	ISO	↔	M
200 054 850	1/4" F NPT	-	650 mm	zinc-plated steel



1/4" M. Lance with moulded handle, valve ST-54 and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 310 bar / 150 °C

R+M Nr.	⊖	ISO	↔	M
200 054 900	1/4" F NPT	300 mm	980 mm	stainless steel

R+M Nr.	⊖	ISO	↔	M
200 054 800	1/4" F NPT	300 mm	980 mm	zinc-plated steel

**Lance with valve ST-54 aside**



1/4" F. Lance with valve ST-54 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 310 bar / 150 °C

R+M Nr.	⊖	ISO	↔	M

R+M Nr.	⊖	ISO	↔	M
200 054 580	1/4" F NPT	-	385 mm	zinc-plated steel



1/4" F. Lance with valve ST-54 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 310 bar / 150 °C

R+M Nr.	⊖	ISO	↔	M
200 054 605	1/4" F NPT	-	650 mm	stainless steel

R+M Nr.	⊖	ISO	↔	M
517 50	1/4" F NPT	-	650 mm	zinc-plated steel



M22 M. Lance with valve ST-54 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 310 bar / 150 °C

R+M Nr.	⊖	ISO	↔	M
517 501 9	1/4" F NPT	-	650 mm	stainless steel

R+M Nr.	⊖	ISO	↔	M
517 501	1/4" F NPT	-	650 mm	zinc-plated steel

## Twin lances

### Lance with stainless steel valve ST-54.2 aside



1/4" F. Lance with valve ST-54.2 aside and nozzle protector ST-10 with low pressure nozzle. Max. 400 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
517 054 605	1/4" F NPT	-	650 mm	stainless steel

R+M Nr.	☉	ISO	↔	M



M22 M. Lance with valve ST-54.2 aside and nozzle protector ST-10 with low pressure nozzle. Max.400 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
517 054 610	1/4" F NPT	-	650 mm	stainless steel

R+M Nr.	☉	ISO	↔	M



1/4" M. Lance with moulded handle ST-29 Cool & Compact, valve ST-54.2 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 400 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
517 054 600	1/4" F NPT	300 mm	980 mm	stainless steel

R+M Nr.	☉	ISO	↔	M



Plug KW. Lance with moulded handle ST-29 Cool & Compact, valve ST-54.2 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 400 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
517 054 630	1/4" F NPT	300 mm	980 mm	stainless steel

R+M Nr.	☉	ISO	↔	M

### Rep. Kit ST-54.2



Stainless steel

Stainless steel

R+M Nr.
517 054 450

R+M Nr.	⊙
517 054 492	3 x 1/4" F

Symbols ☉ outlet ↔ length M material ISO insulation ⊙ thread

## Twin lances

## Lance with valve ST-54 aside



1/4" M. Lance with moulded handle, valve ST-54 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 310 bar / 150 °C

R+M Nr.		ISO		M
200 054 600	1/4" F NPT	300 mm	980 mm	stainless steel

R+M Nr.		ISO		M
517 60	1/4" F NPT	300 mm	980 mm	zinc-plated steel



M22 F. Lance with moulded handle, valve ST-54 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 310 bar / 150 °C

R+M Nr.		ISO		M
517 601 9	1/4" F NPT	300 mm	980 mm	stainless steel

R+M Nr.		ISO		M
517 601	1/4" F NPT	300 mm	980 mm	zinc-plated steel



Plug KW. Lance with moulded handle, valve ST-54 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 310 bar / 150 °C

R+M Nr.		ISO		M
200 054 630	1/4" F NPT	300 mm	980 mm	stainless steel

R+M Nr.		ISO		M
516 605	1/4" F NPT	300 mm	980 mm	zinc-plated steel

Spare parts are on pages 272 and 273.

Symbols inlet outlet length material insulation



## Twin lances

### Lance with valve ST-54 aside



M22 F swivel. Lance with moulded handle, valve ST-54 aside and nozzle protector without tip. Max. 310 bar / 150 °C

R+M Nr.	⊖	ISO	↔	M	R+M Nr.	⊖	ISO	↔	M
					517 608 5	nozzle protector	300 mm	980 mm	zinc-plated steel

### Lance with valve ST-53 on top



1/4" F. Lance with valve ST-53 on top and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 250 bar / 150 °C

R+M Nr.	⊖	ISO	↔	M	R+M Nr.	⊖	ISO	↔	M
200 053 610	1/4" F NPT	-	650 mm	stainless steel	516 10	1/4" F NPT	-	650 mm	zinc-plated steel



1/4" F. Lance with valve ST-53 on top and nozzle protector ST-10 with low pressure nozzle & thread 1/4" M for rotating nozzles. Lance without rotating nozzle. Max. 250 bar / 150 °C

R+M Nr.	⊖	ISO	↔	M	R+M Nr.	⊖	ISO	↔	M
200 053 635	1/4" M	-	650 mm	stainless steel	200 053 535	1/4" M	-	650 mm	zinc-plated steel



1/4" F. Lance with valve ST-53 on top and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 250 bar / 150 °C

R+M Nr.	⊖	ISO	↔	M
200 053 710	1/4" M	-	210 mm	zinc-plated steel



Brass. Incl. low pressure nozzle. Max. 250 bar / 150 °C

R+M Nr.	⊖	⊖
516 05	plug KW	1/4" F



Brass. Incl. low pressure nozzle. Max. 250 bar / 150 °C

R+M Nr.	⊖	⊖
516 03	M22 M	1/4" F



Brass. Incl. low pressure nozzle. Max. 250 bar / 150 °C

R+M Nr.	⊖	⊖
516 061	M22 F swivel	1/4" F



Brass. Incl. low pressure nozzle. Max. 250 bar / 150 °C

R+M Nr.	⊖	⊖
516 06	M22 F	1/4" F

**Twin lances**

Lance with valve ST-53 on top



1/4" M. Lance with moulded handle, valve ST-53 on top and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 250 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
200 053 600	1/4" F NPT	300 mm	980 mm	stainless steel

R+M Nr.	☉	ISO	↔	M
516 60	1/4" F NPT	300 mm	980 mm	zinc-plated steel



1/4" M. Lance with insulation ST-9 & grip, valve ST-53 on top and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 250 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
517 109	1/4" F NPT	380 mm	1,000 mm	stainless steel
517 209	1/4" F NPT	380 mm	1,500 mm	stainless steel
517 309	1/4" F NPT	380 mm	2,000 mm	stainless steel

R+M Nr.	☉	ISO	↔	M
517 10	1/4" F NPT	380 mm	1,000 mm	zinc-plated steel
517 20	1/4" F NPT	380 mm	1,500 mm	zinc-plated steel



Plug KW. Lance with insulation ST-9 & grip, valve ST-53 on top and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 250 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
516 105 9	1/4" F NPT	380 mm	1,000 mm	stainless steel
516 155 9	1/4" F NPT	380 mm	1,500 mm	stainless steel

R+M Nr.	☉	ISO	↔	M
516 105	1/4" F NPT	380 mm	1,000 mm	zinc-plated steel



Plug KW. Lance with insulation ST-9 & grip, valve ST-53 on top and low pressure nozzle. Max. 250 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
516 055		380 mm	410 mm	zinc-plated steel

## Twin lances

### Lance with stainless steel valve ST-53.2 on top



1/4" F. Lance with valve ST-53.2 on top and nozzle protector ST-10 with low pressure nozzle.  
Max. 400 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
517 053 605	1/4" F NPT	-	650 mm	stainless steel

R+M Nr.	☉	ISO	↔	M



M22 M. Lance with valve ST-53.2 on top and nozzle protector ST-10 with low pressure nozzle.  
Max. 400 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
517 053 610	1/4" F NPT	-	650 mm	stainless steel

R+M Nr.	☉	ISO	↔	M



1/4" M. Lance with moulded handle ST-29 Cool & Compact, valve ST-53.2 on top and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F.  
Max. 400 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
517 053 600	1/4" F NPT	300 mm	980 mm	stainless steel

R+M Nr.	☉	ISO	↔	M



Plug KW. Lance with moulded handle ST-29 Cool & Compact, valve ST-53.2 on top and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F.  
Max. 400 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
517 053 630	1/4" F NPT	300 mm	980 mm	stainless steel

R+M Nr.	☉	ISO	↔	M

### Rep. Kit ST-53.2



Stainless steel

R+M Nr.
517 053 450

Symbols ☉ outlet ↔ length M material ISO insulation

### ST-175 Foam & Clean

The change-over lance ST-175 Foam & Clean is the ideal accessory for Suttner's foam injector line. The innovative change-over technology allows to direct the full flow into either one or the other outlet pipe just by turning the hand wheel at the inlet.

In one position of the hand wheel the flow is directed thru an ST-75 foam head for foaming. After changing over the full flow is directed thru the other pipe and a regular spray nozzle for rinsing.



Twin foam lance with vented handle ST-9 380 mm, change-over valve ST-58, nozzle protector ST-10 without nozzle and foam head ST-75 without nozzle. A foam injector is required.

Max. 350 bar / 45 l/min / 100 °C

R+M Nr.			
200 175 400	1/4" F	-	650 mm



Twin foam lance with vented handle ST-9 380 mm, change-over valve with 1/4" M and nozzle protector ST-10 without nozzle.

Max. 350 bar / 45 l/min / 100 °C

R+M Nr.			
200 175 510	1/4" F	-	650 mm



Twin foam lance with vented handle ST-9 380 mm, change-over valve ST-58, nozzle protector ST-10 without nozzle and foam head ST-75 with nozzle. A foam injector is required.

Max. 350 bar / 45 l/min / 100 °C

R+M Nr.			
200 175 430	M22 F	1.9	650 mm
200 175 431	M22 F	2.1	650 mm

Appropriate nozzle sizing at chemical injector and ST-175 allows changing from foaming to rinsing right at the lance. ST-175 Foam & Clean is compatible to ST-160 / ST-164 / ST-166 / ST-167.

Due to ST-175's changeable air injector nozzles the lance can be driven with all pressure washers with flow rates from 5 to 25 l / min.

Nozzles with integrated jet former are required (page 337).



Twin foam lance with vented handle ST-9 205 mm, change-over valve ST-58, ergonomic swivel screw coupling, nozzle protector without tip and foam head ST-75.1 without nozzle. A foam injector is required.

Max. 350 bar / 45 l/min / 100 °C

R+M Nr.			
200 175 411	M22 F	-	420 mm



Twin foam lance with vented handle ST-9 205 mm, change-over valve ST-58, nozzle protector without tip and foam head ST-75.1 without nozzle. A foam injector is required.

Max. 350 bar / 45 l/min / 100 °C

R+M Nr.			
200 175 412	1/4" F	-	420 mm



Twin foam lance with vented handle ST-9 205 mm, change-over valve ST-58, nozzle protector ST-10 without nozzle and foam head ST-75.1 without nozzle. A foam injector is required.

Max. 350 bar / 45 l/min / 100 °C

R+M Nr.			
200 175 414	1/4" F	-	420 mm

Symbols inlet outlet length material nozzle

## ST-85 Push & Pull lances



- » Variable adjustment of spraying angle from 20 to 140°. Especially designed for cleaning of places which are difficult to access such as container, under vehicles, gutters and roofs.
- » 600 mm version suitable for spray guns with integrated extension
- » Max. 210 bar / 150 °C

### Grip for vented handle ST-9



Handle for adjustment and locking. Attachable on both sides

R+M Nr.  
200 009 680



Kr IP

M22 M. ST-85 lance with nozzle protector ST-10 without high pressure nozzle. Suitable for guns with integrated extension. Max. 210 bar / 150 °C

R+M Nr.	⊖	↔	⊕	M
200 085 270	1/4" F NPT	600 mm	M22 M	stainless steel

R+M Nr.	⊖	↔	⊕	M
200 085 220	1/4" F NPT	600 mm	M22 M	zinc-plated steel



1/4" F. ST-85 Push & Pull lance with nozzle protector ST-10 without high pressure nozzle. Max. 210 bar / 150 °C

R+M Nr.	⊖	↔	⊕	M
200 085 810	1/4" F NPT	850 mm	1/4" F	stainless steel
200 085 800	1/4" F NPT	1,000 mm	1/4" F	stainless steel
200 085 850	1/4" F NPT	1,500 mm	1/4" F	stainless steel

R+M Nr.	⊖	↔	⊕	M
200 085 710	1/4" F NPT	850 mm	1/4" F	zinc-plated steel
200 085 700	1/4" F NPT	1,000 mm	1/4" F	zinc-plated steel
200 085 750	1/4" F NPT	1,500 mm	1/4" F	zinc-plated steel



Kr A

Plug KW. ST-85 Push & Pull lance with nozzle protector ST-10 without high pressure nozzle. Max. 210 bar / 150 °C

R+M Nr.	⊖	↔	⊕	M
200 085 260	1/4" F NPT	600 mm	plug KW	stainless steel
200 085 610	1/4" F NPT	850 mm	plug KW	stainless steel
200 085 600	1/4" F NPT	1,000 mm	plug KW	stainless steel
200 085 650	1/4" F NPT	1,500 mm	plug KW	stainless steel

R+M Nr.	⊖	↔	⊕	M
200 085 210	1/4" F NPT	600 mm	plug KW	zinc-plated steel
200 085 510	1/4" F NPT	850 mm	plug KW	zinc-plated steel
200 085 500	1/4" F NPT	1,000 mm	plug KW	zinc-plated steel
200 085 550	1/4" F NPT	1,500 mm	plug KW	zinc-plated steel

## ST-85 Push &amp; Pull lances



M22 F swivel. ST-85 Push &amp; Pull lance with nozzle protector ST-10 without high pressure nozzle. Max. 210 bar / 150 °C

R+M Nr.	⊖	↔	⊕	(M)
200 085 713	1/4" F NPT	850 mm	M22 F swivel	zinc-plated steel
200 085 703	1/4" F NPT	1,000 mm	M22 F swivel	zinc-plated steel
200 085 753	1/4" F NPT	1,500 mm	M22 F swivel	zinc-plated steel



M22 F. ST-85 Push &amp; Pull lance with nozzle protector without tip. Max. 210 bar / 150 °C

R+M Nr.	⊖	↔	⊕	(M)
200 085 620 nozzle protector	850 mm	M22 F	stainless steel	
200 085 660 nozzle protector	1,500 mm	M22 F	stainless steel	

R+M Nr.	⊖	↔	⊕	(M)
200 085 720 nozzle protector	850 mm	M22 F	zinc-plated steel	
200 085 760 nozzle protector	1,500 mm	M22 F	zinc-plated steel	



M22 F swivel. ST-85 Push &amp; Pull lance with nozzle protector without tip. Max. 210 bar / 150 °C

R+M Nr.	⊖	↔	⊕	(M)
200 085 640 nozzle protector	850 mm	M22 F swivel	stainless steel	
200 085 930 nozzle protector	1,000 mm	M22 F swivel	stainless steel	
200 085 680 nozzle protector	1,500 mm	M22 F swivel	stainless steel	

R+M Nr.	⊖	↔	⊕	(M)
200 085 740 nozzle protector	850 mm	M22 F swivel	zinc-plated steel	
200 085 920 nozzle protector	1,000 mm	M22 F swivel	zinc-plated steel	
200 085 780 nozzle protector	1,500 mm	M22 F swivel	zinc-plated steel	



M22 F swivel. ST-85 Push &amp; Pull lance with ergonomic swivel screw coupling suitable for standard spray guns. Max. 210 bar / 150 °C

R+M Nr.	⊖	↔	⊕	(M)
200 085 645 nozzle protector	850 mm	M22 F swivel	stainless steel	
200 085 935 nozzle protector	1,000 mm	M22 F swivel	stainless steel	
200 085 685 nozzle protector	1,500 mm	M22 F swivel	stainless steel	
200 085 687 nozzle protector	2,000 mm	M22 F swivel	stainless steel	

R+M Nr.	⊖	↔	⊕	(M)
200 085 745 nozzle protector	850 mm	M22 F swivel	zinc-plated steel	
200 085 925 nozzle protector	1,000 mm	M22 F swivel	zinc-plated steel	
200 085 785 nozzle protector	1,500 mm	M22 F swivel	zinc-plated steel	



M22 F swivel. ST-85 Push &amp; Pull lance with ergonomic swivel screw coupling suitable for standard spray guns. Max. 210 bar / 150 °C

R+M Nr.	⊖	↔	⊕	(M)
200 085 646 nozzle protector	850 mm	M22 F swivel	stainless steel	
200 085 936 nozzle protector	1,000 mm	M22 F swivel	stainless steel	
200 085 686 nozzle protector	1,500 mm	M22 F swivel	stainless steel	
200 085 688 nozzle protector	2,000 mm	M22 F swivel	stainless steel	

R+M Nr.	⊖	↔	⊕	(M)
200 085 746 nozzle protector	850 mm	M22 F swivel	zinc-plated steel	
200 085 926 nozzle protector	1,000 mm	M22 F swivel	zinc-plated steel	
200 085 786 nozzle protector	1,500 mm	M22 F swivel	zinc-plated steel	



## Kit ST-85 Push & Pull



- » The kit is suitable for undercar wash of vehicles as well as for roof cleaning.
- » The kit is supplied as version for undercar wash.
- » The add-on kit for roof cleaning can be easily assembled.

<b>R+M Nr.</b>
200 085 400



undercar wash



roof cleaning

## Suttner ultra high pressure lances

### Lances with ergonomic swivel screw coupling



M22 M swivel Lance with ergonomic swivel screw coupling, vented handle ST-9 & grip and nozzle protector (M20x1) without tip.  
Max. 650 bar / 150 °C

<b>R+M Nr.</b>				
200 146 550 nozzle protector	700 mm	M22 F swivel	stainless steel	

<b>R+M Nr.</b>

## Suttner ultra high pressure lances

### ST-002 ultra high pressure lances



1/4" M. Lance with moulded handle. Safety factor 4. Max. 500 bar / 150 °C

<b>R+M Nr.</b>				
070 003 502	1/4" M	300 mm	350 mm	stainless steel
070 008 002	1/4" M	500 mm	800 mm	stainless steel
070 012 002	1/4" M	500 mm	1,200 mm	stainless steel

<b>R+M Nr.</b>

## Ultra high pressure twin lances

### ST-154



1/4" F. Lance with valve ST-154 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 500 bar / 150 °C

<b>R+M Nr.</b>				
200 154 510	1/4" F NPT	-	650 mm	stainless steel

<b>R+M Nr.</b>



1/4" M. Lance with moulded handle, valve ST-154 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 500 bar / 150 °C

<b>R+M Nr.</b>				
200 154 500	1/4" F NPT	300 mm	980 mm	stainless steel

<b>R+M Nr.</b>

**Symbols** inlet outlet length material ISO insulation thread

**Ultra high pressure twin lances**



M22 M. Lance with moulded handle, valve ST-154 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 500 bar / 150 °C

R+M Nr.	☉	ISO	↔	M	R+M Nr.
200 154 520	1/4" F NPT	300 mm	980 mm	stainless steel	

**Suttner ultra high pressure lances**

**Ultra high pressure lances ST-3600 - 600 bar**



1/2" M. Lance with grip. Max. 600 bar / 150 °C

R+M Nr.	☉	↔	☺	M	R+M Nr.
203 600 416	1/2" M	1,500 mm	1/2" M	stainless steel	
203 600 415	1/2" M	2,000 mm	1/2" M	stainless steel	



1/2" M. Lance with grip and sleeve 1/4" F NPT stainless steel without high pressure nozzle. Max. 600 bar / 150 °C

R+M Nr.	☉	↔	☺	M	R+M Nr.
203 600 400	1/4" F NPT	500 mm	1/2" M	stainless steel	
203 600 401	1/4" F NPT	800 mm	1/2" M	stainless steel	
203 600 402	1/4" F NPT	1,000 mm	1/2" M	stainless steel	



1/2" M. Lance with grip for rotating nozzles with 1/4" F without rotating nozzle. Max. 600 bar / 150 °C

R+M Nr.	☉	↔	☺	M	R+M Nr.
203 600 411	1/4" M	500 mm	1/2" M	stainless steel	
203 600 410	1/4" M	800 mm	1/2" M	stainless steel	
203 600 412	1/4" M	1,000 mm	1/2" M	stainless steel	



Plug ST-45. Lance with grip and sleeve 1/4" F NPT stainless steel without high pressure nozzle. Max. 600 bar / 150 °C

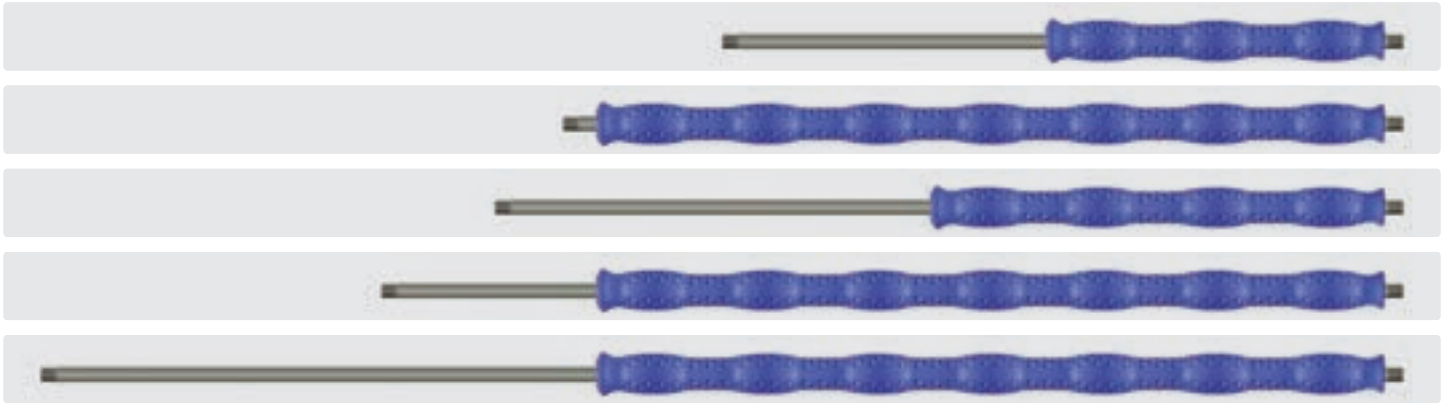
R+M Nr.	☉	↔	☺	M	R+M Nr.
203 600 444	1/4" F NPT	500 mm	plug ST-45	stainless steel	



Plug ST-45. Lance with grip for rotating nozzles with 1/4" F without rotating nozzle. Max. 600 bar / 150 °C

R+M Nr.	☉	↔	☺	M	R+M Nr.
203 600 441	1/4" M	800 mm	plug ST-45	stainless steel	

## easywash365+ lances by Suttner



Stainless steel. Lance with moulded handle Cool & Compact. Max. 400 bar / 150 °C

R+M Nr.	ISO	☉	↔	☉
200 129 306	300 mm	1/4" M	600 mm	1/4" M
200 129 707 *	700 mm	1/4" M	740 mm	1/4" M
200 129 408	400 mm	1/4" M	800 mm	1/4" M
200 129 709	700 mm	1/4" M	900 mm	1/4" M
200 129 712	700 mm	1/4" M	1,200 mm	1/4" M



Stainless steel. Lance with moulded handle. Max. 400 bar / 150 °C

R+M Nr.	ISO	☉	↔	☉
200 029 709	700 mm	1/4" M	900 mm	1/4" M



Stainless steel. Lance with moulded handle. Max. 400 bar / 150 °C

R+M Nr.	ISO	☉	↔	☉
200 029 712 *	700 mm	1/4" M	1,200 mm	1/4" M

\* limited stock

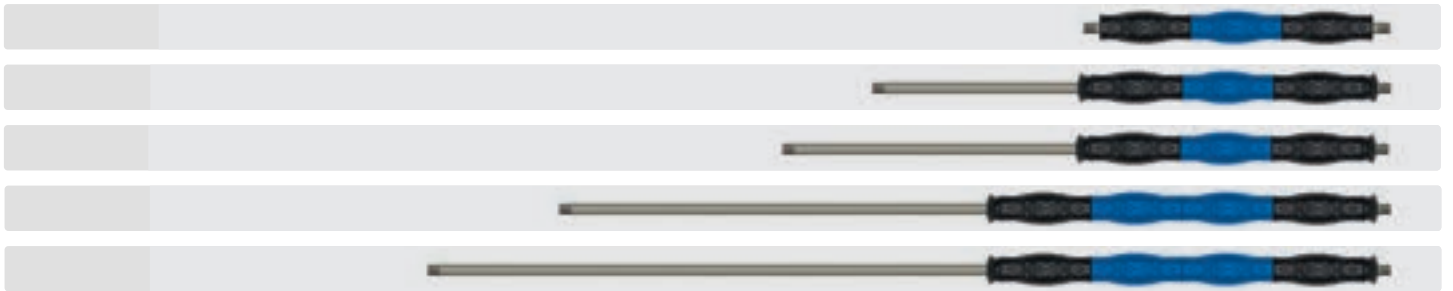
Symbols ☉ inlet ☉ outlet ↔ length M material ISO insulation

**easyturn ST-9.7 – colored lances by Suttner**

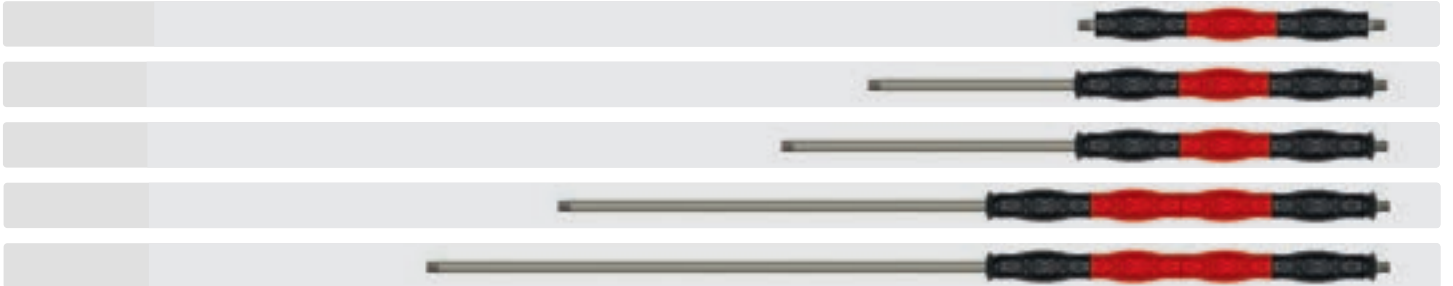
- » Ideal for virtually all cleaning tasks and applications
- » Specially designed for carwash applications
- » Easy handling
- » Stainless steel version
- » Design: Cool & Compact insulation grip elements.  
Length 100 mm
- » Max. 400 bar / 150 °C



Lance with grip elements



R+M Nr.	blue	ISO	☉	↔	☉
510 033 100 100	■ ■ ■	300 mm	1/4" M	330 mm	1/4" M
510 053 100 100	■ ■ ■	330 mm	1/4" M	500 mm	1/4" M
510 063 100 100	■ ■ ■	330 mm	1/4" M	600 mm	1/4" M
510 074 100 200	■ ■ ■ ■	430 mm	1/4" M	700 mm	1/4" M
510 104 100 200	■ ■ ■ ■	430 mm	1/4" M	1,000 mm	1/4" M

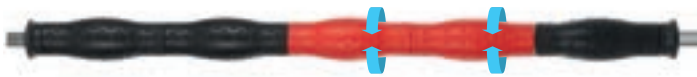


R+M Nr.	red	ISO	☉	↔	☉
510 033 102 000	■ ■ ■	300 mm	1/4" M	330 mm	1/4" M
510 053 102 000	■ ■ ■	330 mm	1/4" M	500 mm	1/4" M
510 063 102 000	■ ■ ■	330 mm	1/4" M	600 mm	1/4" M
510 074 102 100	■ ■ ■ ■	430 mm	1/4" M	700 mm	1/4" M
510 104 102 100	■ ■ ■ ■	430 mm	1/4" M	1,000 mm	1/4" M

Symbols ☉ inlet ☉ outlet ↔ length ISO insulation

## easyturn ST-9.4 – rotatable lances by Suttner

- » Rotatable insulation for an ergonomic handling. The coloured handles can be freely rotated around their own axis. Black handles are firmly fixed
- » Specially designed for carwash applications
- » Stainless steel version
- » Design: Cool & Compact insulation grip elements.  
Length 100 mm
- » Max. 400 bar / 150 °C



Lance with grip elements, rotatable

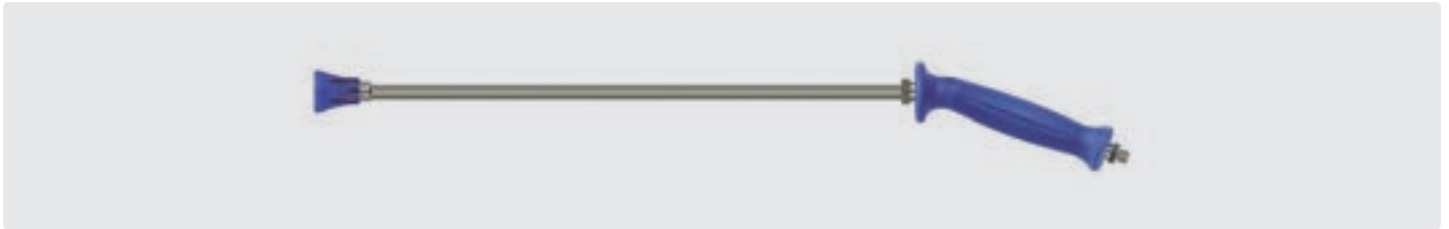


R+m Nr.	blue rotatable	ISO	⊗	↔	⊕
510 033 000 100	■ ■ ■	330 mm	1/4" M	370 mm	1/4" M
510 053 000 100	■ ■ ■	330 mm	1/4" M	500 mm	1/4" M
510 063 000 100	■ ■ ■	330 mm	1/4" M	600 mm	1/4" M
510 074 000 200	■ ■ ■ ■	430 mm	1/4" M	700 mm	1/4" M
510 104 000 200	■ ■ ■ ■	430 mm	1/4" M	1,000 mm	1/4" M
510 097 000 500	■ ■ ■ ■ ■ ■ ■	730 mm	1/4" M	900 mm	1/4" M



R+m Nr.	red rotatable	ISO	⊗	↔	⊕
510 033 002 000	■ ■ ■	330 mm	1/4" M	370 mm	1/4" M
510 053 002 000	■ ■ ■	330 mm	1/4" M	500 mm	1/4" M
510 063 002 000	■ ■ ■	330 mm	1/4" M	600 mm	1/4" M
510 074 002 100	■ ■ ■ ■	430 mm	1/4" M	700 mm	1/4" M
510 104 002 100	■ ■ ■ ■	430 mm	1/4" M	1,000 mm	1/4" M
510 097 002 400	■ ■ ■ ■ ■ ■ ■	730 mm	1/4" M	900 mm	1/4" M

**easywash365+ lances by Suttner**



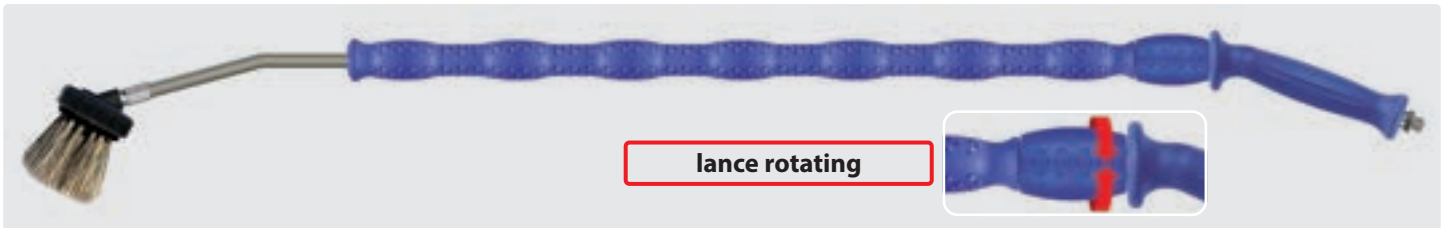
Stainless steel. Lance with **easywash365+** handle and nozzle protector ST-10 without nozzle. Max. 350 bar / 45 l/min / 150 °C

R+M Nr.	☺	☹	☺
515 65	1/4" F NPT	500 mm	1/4" M



Lance with moulded handle Cool & Compact, **easywash365+** handle, air injector and wash brush (bristles 60 mm). Max. 50 °C

R+M Nr.	ISO	☺	☹	☺
200 009 670	700 mm	wash brush	900 mm	1/4" M
200 009 675	700 mm	wash brush	1,200 mm	1/4" M



**lance rotating**

Lance with moulded handle Cool & Compact, **easywash365+** handle, **easywash365+** lance swivel, air injector and wash brush (bristles 60 mm). Max. 50 °C

R+M Nr.	ISO	☺	☹	☺
200 009 673	700 mm	wash brush	900 mm	1/4" M
200 009 678	700 mm	wash brush	1,200 mm	1/4" M

**Self-service lances**



Self-service lances with brush longitudinal. Brush with nozzle protector for nozzle 1/8" M. Without high pressure nozzle

R+M Nr.	☺
523 960	1/8" M
523 961	1/4" M
523 962	M22 F long nipple
523 963	M22 M



Original Vorwerk. Brush hog hair. A= 260. B= 230 x 80 mm.

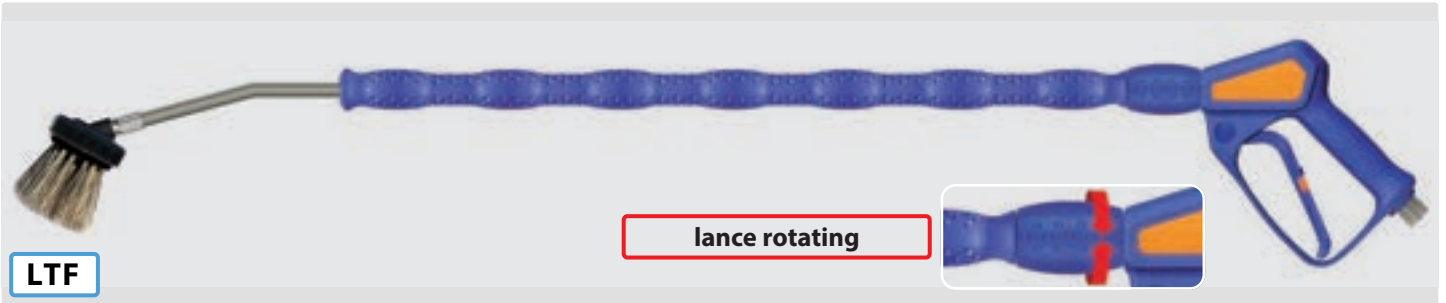
R+M Nr.	C
523 72	60 mm

**A = appr. width B = frame for brush C = appr. length of bristles**

**Symbols** ☺ inlet ☹ outlet ☺ length ISO insulation



easywash365+ lances by Suttner



LTF

Lance with moulded handle Cool & Compact, easywash365+ spray gun, easywash365+ lance swivel, air injector and wash brush (bristles 60 mm). Max. 50 °C

R+M Nr.	spray gun	ISO	☞	↔	Ⓒ
202 600 957	standard	700 mm	wash brush	900 mm	3/8" F swivel
202 600 972	weep	700 mm	wash brush	900 mm	3/8" F swivel
202 600 987	freeze stop	700 mm	wash brush	900 mm	3/8" F swivel
202 600 962	standard	700 mm	wash brush	1,200 mm	3/8" F swivel
202 600 977	weep	700 mm	wash brush	1,200 mm	3/8" F swivel
202 600 993	freeze stop	700 mm	wash brush	1,200 mm	3/8" F swivel



LTF

Lance with moulded handle Cool & Compact, easywash365+ spray gun, air injector and wash brush (bristles 60 mm). Max. 50 °C

R+M Nr.	spray gun	ISO	☞	↔	Ⓒ
202 600 955	standard	700 mm	wash brush	900 mm	3/8" F swivel
202 600 970	weep	700 mm	wash brush	900 mm	3/8" F swivel
202 600 985	freeze stop	700 mm	wash brush	900 mm	3/8" F swivel
202 600 960	standard	700 mm	wash brush	1,200 mm	3/8" F swivel
202 600 975	weep	700 mm	wash brush	1,200 mm	3/8" F swivel
202 600 990	freeze stop	700 mm	wash brush	1,200 mm	3/8" F swivel

**LTF - Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.



LTF

Lance with moulded handle Cool & Compact, easywash365+ spray gun and nozzle protector ST-10 without nozzle. Max. 310 bar / 150 °C

R+M Nr.	spray gun	ISO	☞	↔	Ⓒ
202 600 950	standard	300 mm	1/4" F NPT	600 mm	3/8" F swivel
202 600 966	weep	700 mm	1/4" F NPT	900 mm	3/8" F swivel
202 600 965	weep	300 mm	1/4" F NPT	600 mm	3/8" F swivel
202 600 980	freeze stop	300 mm	1/4" F NPT	600 mm	3/8" F swivel

Longcast lances



3/8" F. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, gun ST-2300, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 280 bar / 45 l/min / 100 °C

R+M Nr.		
200 078 510	nozzle protector without nozzle	3/8" F



1/2" F. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, gun ST-2320, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 150 bar / 80 l/min / 100 °C

R+M Nr.		
200 078 520	nozzle protector without nozzle	1/2" F



**LTF**

1/2" F. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, gun easyfarm365+, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 250 bar / 60 l/min / 100 °C

R+M Nr.		
200 078 530	nozzle protector without nozzle	1/2" F swivel



1/4" M. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 280 bar / 130 l/min / 100 °C

R+M Nr.		
200 078 500	nozzle protector without nozzle	1/4" M

The longcast lance can be connected to a low pressure pump, to a high pressure pump, to the public water system or to the extinguishing water network.

The lance works in the medium pressure range. By means of its very good solidity, good handling and compactness the lance is especially suitable for the intensive use.

The lateral hand grip makes a stepless adjustment of the water jet during the operation possible. A long casting point jet or a progressive, conical spray jet can be set.

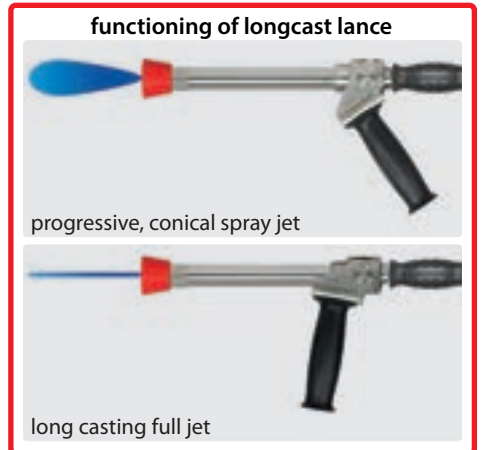
In order to realize ideal cleaning results the nozzle size needs to be adapted to the pump performance (pressure and flow rate).

Nozzles for longcast lances



M15x1 M. Stainless steel

R+M Nr.	D
200 078 412	1.2 mm
200 078 415	1.5 mm
200 078 418	1.8 mm
200 078 420	2.0 mm
200 078 423	2.3 mm
200 078 425	2.5 mm
200 078 430	3.0 mm
200 078 435	3.5 mm



## Twin and adjustable nozzle holder

ST-56 twin nozzle holder



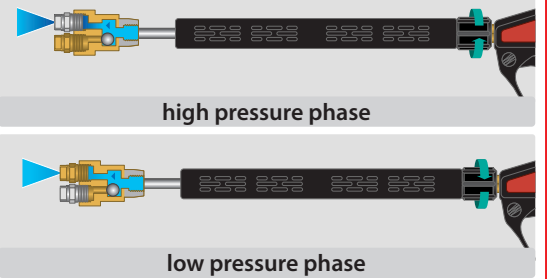
R+M Nr.					
200 056 500	2 x 1/4" F	1/4" F			brass

ST-56 twin nozzle holder



R+M Nr.					
656 51	2 x 1/4" F	M18 F			

Functional principle of a twin nozzle holder



ST-52.1 Variopress



R+M Nr.					
200 052 600	1/4" F	1/4" M			

Coupling KW with ST-52.1 Variopress



Coupling KW : 1/4" M. Brass. For Variopress

R+M Nr.					
559 264					

ST-58 change-over valves



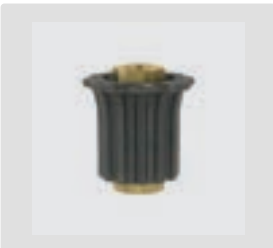
R+M Nr.					
200 058 600	1/4" F	1/4" F			



Rep. Kit

R+M Nr.					
200 058 300					

Mini adjustable nozzles



R+M Nr.					
657 20	1/4" F	1/4" F			

R+M adjustable nozzles



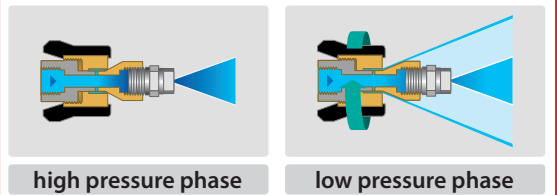
R+M Nr.					
657 30	1/4" F	1/4" F			

ST-51 adjustable nozzles



R+M Nr.					
200 051 530	1/4" F	1/4" F			

Functional principle of an adjustable nozzle



## Complete lances

90° bended lances



Lance with nozzle protector ST-10 without hp nozzle. Height 190 mm

R+M Nr.					
515 01	1/4" F NPT	900 mm	M22 F		zinc-plated steel

WC / gutter lances



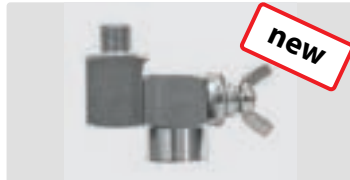
Lance with adjustable nozzle without high pressure nozzle

R+M Nr.					
513 112	1/4" F	500 mm	M22 F		zinc-plated steel

Symbols inlet outlet length nozzle material

**ST-330 swivel nozzle holder**

- » Swivel it easily!
- » Used for cleaning of places which are difficult to access such as container e.g. feeding troughs and gutters.
- » Effortless and variable shifting of the swivel direction.
- » Made out of stainless steel.
- » Capable of swivelling by up to 240°.



Stainless steel.  
Max. 310 bar / 45 l/min / 150 °C

Stainless steel.  
**Fixable.**  
Max. 310 bar / 45 l/min / 150 °C

Stainless steel.  
**Fixable.**  
Max. 310 bar / 45 l/min / 150 °C

Stainless steel.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	⊖	⊕
200 330 500	1/4" F NPT	1/4" F
200 330 510	1/4" M	1/4" F

R+M Nr.	⊖	⊕
200 330 501	1/4" F NPT	1/4" F
200 330 511	1/4" M	1/4" F

R+M Nr.	⊖	⊕
200 330 521	tip nozzle	F M18

R+M Nr.	⊖	⊕
200 330 600	tip nozzle	F M18

**Pivotable nozzle holder**

Pivotable nozzle holder. Stainless steel. Max. 40 l/min / 90 °C



R+M Nr.	⊖	⊕	P
200 330 540	1/4" F NPT	1/4" M NPT	250 bar
200 330 530	1/4" F NPT	1/4" M BSP	350 bar

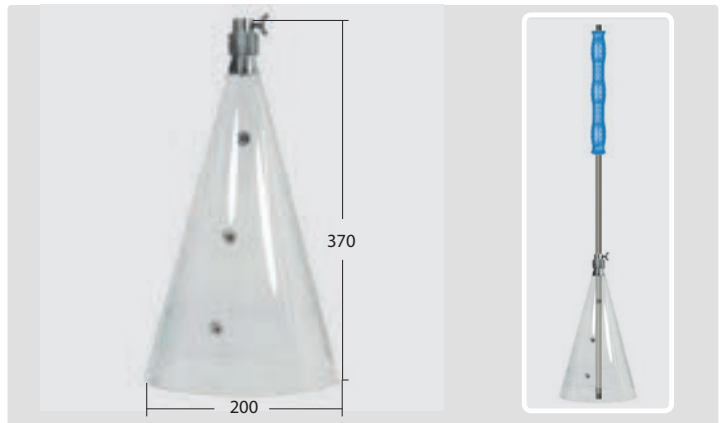
**Wall cleaner**



- » Rotating wall cleaner suitable for telescopic lances
- » Splash guard stainless steel with rubberlip or brush strips
- » Splash guard ⌀ 300 mm
- » Without nozzles. 2 nozzles 1/4" M with 15° spray angle are required
- » Max. 250 bar / 90 °C

R+M Nr.	⊕	TYP	⊖
521 032 251	M22 M	rubberlip	1,9 kg
521 032 254	M22 M	brush strips	1,9 kg
521 032 256	M18 F	<b>K</b> rubberlip	1,9 kg
521 032 255	M18 F	<b>K</b> brush strips	1,9 kg
521 032 258	1/4" F	rubberlip	1,9 kg
521 032 257	1/4" F	brush strips	1,9 kg

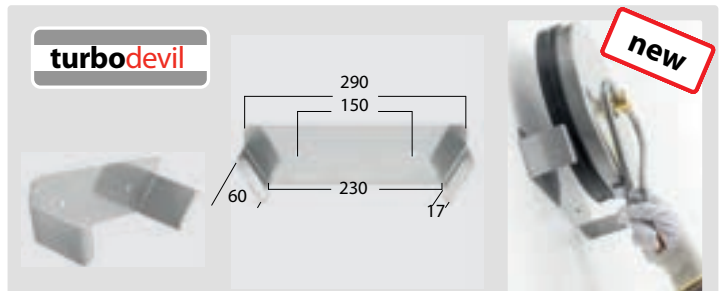
**Splash guard**



PVC splash guard, with thumb screw adjustable stainless steel holder for attachment to lances.  
Max. 80 °C

R+M Nr.	⊖
200 029 351	200 mm

**Accessories for wall cleaner**



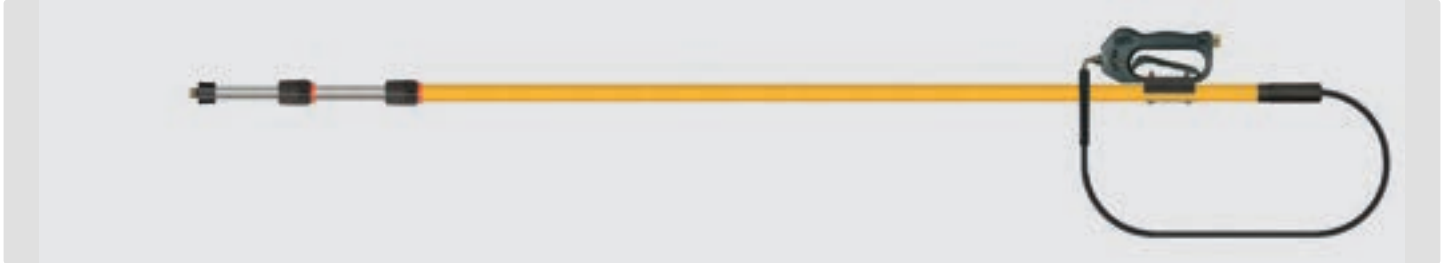
Wall bracket for wall cleaner **turbodevil**.

R+M Nr.	M	⊖
710 400 098	stainless steel 2 mm	502 gr

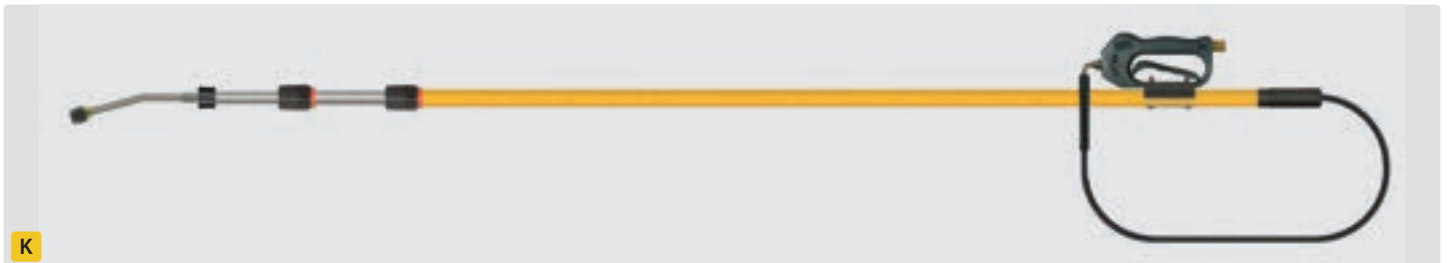
## High pressure telescopic lances

- » Light and handy. Length easily adjustable. Adjustable from 2.3 m to 7.4 m.
- » Lance with embedded high pressure hose and mounted Suttner gun ST-601. Lance without high pressure nozzle.
- » Max. 275 bar / 100 °C

**Our telescopic high pressure lances are up to 30 % lighter than comparable lances.**

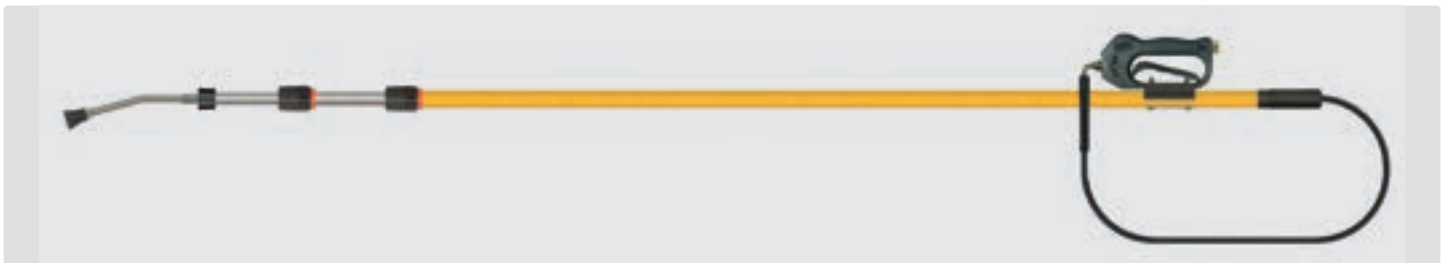


R+M Nr.	⊞	⊚	↔	⊕
525 070 8	2.4 kg	1/4" M	2.3 - 3.8 m	3/8" F
525 085 8	4.3 kg	1/4" M	2.3 - 5.6 m	3/8" F
525 100 8	5.4 kg	1/4" M	2.9 - 7.4 m	3/8" F



**K**

R+M Nr.	⊞	⊚	↔	⊕
525 070 1	2.6 kg	nozzle protector without tip	2.3 - 3.8 m	M22 M
525 085 1	4.5 kg	nozzle protector without tip	2.3 - 5.6 m	M22 M
525 100 1	5.6 kg	nozzle protector without tip	2.9 - 7.4 m	M22 M



R+M Nr.	⊞	⊚	↔	⊕
525 070 2	2.6 kg	nozzle protector ST-10 - 1/4" F NPT	2.3 - 3.8 m	3/8" F
525 085 2	4.5 kg	nozzle protector ST-10 - 1/4" F NPT	2.3 - 5.6 m	3/8" F
525 100 2	5.6 kg	nozzle protector ST-10 - 1/4" F NPT	2.9 - 7.4 m	3/8" F



**Telescopic lances are on page 34.**

### Screw connections



R+M Nr.	525 901
---------	---------

### Belt support kit for telescopic lances



R+M Nr.	525 920
---------	---------

**Symbols** ⊚ outlet ⊕ inlet ↔ length ⊞ weight TYP type shipment by truck M material



Accessories and spare parts for lances and twin lances

Grips for lances



ST-007



Lance 1/4"



Vented handle  
ST-9

ST-53

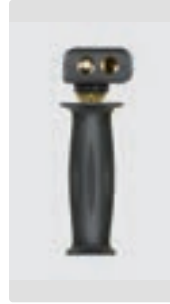


Valve on top.  
Max. 250 bar /  
150 °C



Repair kit ST-53

ST-54



Valve aside.  
Max. 310 bar /  
150 °C



Repair kit ST-54

R+M Nr.
200 009 700

R+M Nr.
200 009 600

R+M Nr.
200 009 680

R+M Nr.
120 000 010

R+M Nr.
120 000 005

R+M Nr.
200 054 492

R+M Nr.
200 054 450

ST-54



Valve.  
Max. 310 bar /  
150 °C

R+M Nr.
200 054 480

ST-154



Valve aside.  
Max. 500 bar /  
150 °C

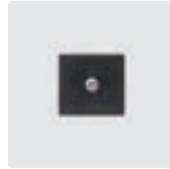
R+M Nr.
200 154 491



Repair kit ST-154

R+M Nr.
200 154 400

Space holder



R+M Nr.
517 00

Low pressure nozzle



1/4" M. Nozzle 40° 30. Brass

R+M Nr.
623 10

Lance bender

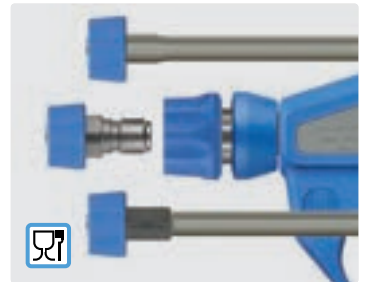


Stainless steel. Lance bender for 1/4" M lances without nozzle protector

R+M Nr.
040 003 600

Nozzle protector

Nozzle protector ST-11



- » The nozzle protector ST-11 is suitable for nozzles 1/4" M.
- » Made out of plastics intended to come into contact with foodstuffs according to Regulation (EC) No. 1935/2004.
- » Especially designed for applications in the food industry.
- » It is clamped undetachably between the nozzle and the nozzle sleeve.

R+M Nr.	Ⓢ
020 001 124	white
020 001 149	blue
020 001 121	red
020 001 122	green

R+M Nr.	Ⓢ
020 001 123	yellow
020 001 157	grey
020 001 158	black



## Nozzle protector and nozzle holder

### 2-component nozzle protector ST-10

The ST-10 is the ideal combination made out of hard and soft plastics. The nozzle protector is suitable for cold and hot water applications in the car wash, agriculture and food industry. The ST-10 is unimpeachable, protects your nozzles and preserves the surfaces to be cleaned at the same time. Suitable for nozzles 1/4" M NPT. Zinc-plated steel max. 400 bar. Stainless steel max. 500 bar

Plastic. Zinc-plated steel	Plastic. Zinc-plated steel	Plastic. Zinc-plated steel	Plastic. Zinc-plated steel	Plastic. Stainless steel	Plastic. Stainless steel		
R+M Nr. 200 010 500	R+M Nr. 200 010 510	R+M Nr. 200 010 520	R+M Nr. 200 010 530	R+M Nr. 200 010 770	R+M Nr. 200 010 760		
Plastic. Stainless steel	Plastic. Stainless steel	Plastic. Stainless steel	Plastic. Stainless steel	Plastic. Stainless steel	Plastic. Stainless steel		
R+M Nr. 200 010 700	R+M Nr. 200 010 710	R+M Nr. 200 010 720	R+M Nr. 200 010 730	R+M Nr. 200 010 755	R+M Nr. 200 010 740		

For nozzles with filter. Plastic. Stainless steel.  
R+M Nr. 200 010 745

For nozzles with filter. Plastic. Stainless steel.  
R+M Nr. 200 010 725

### For nozzles 1/4" M NPT

ST-005. Plastic. Zinc-plated steel	ST-005. Plastic. Stainless steel	Rubber. Zinc-plated steel	Socket. Brass. Quadangle	ST-12. Plastic. Zinc-plated steel	1/4" F NPT : 3/8" F. Stainless steel. Socket	Socket. Round. Stainless steel
R+M Nr. 200 000 003	R+M Nr. 200 000 008	R+M Nr. 519 05	R+M Nr. 518 00	R+M Nr. 200 012 500	R+M Nr. 710 101 350	R+M Nr. 040 004 100

### For nozzles 1/8" M

ST-005. Plastic. Zinc-plated steel	Socket. Hexagon. Stainless steel	Socket. Plastic. For nozzle with hexagon 13 + 14	2-component nozzle protector ST-10. Plastic. Stainless steel
R+M Nr. 200 000 004	R+M Nr. 518 70	R+M Nr. 519 32	R+M Nr. 200 010 830

### For tip nozzles

1/4" F : M18 M. Nozzle holder EG. Brass	O-ring. Nozzle holder EG	M18 F. Nozzle holder EG. Stainless steel	M18 F. Nozzle protector
R+M Nr. 010 000 043	R+M Nr. 790 25	R+M Nr. 040 000 041	R+M Nr. 519 60
1/4" F. Nozzle protector complete without nozzle tip.	1/4" F : M18 F. Adaptor. Brass	1/4" M : M18 F. Adaptor 2 pieces	3/8" M : M18 F. Adaptor. Stainless steel
R+M Nr. 519 601	R+M Nr. 519 40	R+M Nr. 519 70	R+M Nr. 040 001 125

### Adaptor 500 bar lances

	1/4" M : M20 F. Stainless steel
<b>K</b>	R+M Nr. 519 714 209

Symbols colour

**Nozzle protector and nozzle holder**

For hydroblade®



1/4" F : M20 M.  
Nozzle holder.  
Stainless steel

<b>R+M Nr.</b>
200 088 125



M20x1 F.  
Nozzle protector.  
Brass

<b>R+M Nr.</b>
020 000 085

**Gun extensions**



1/4" M. Lance with insulation ST-28 Cool & Compact.  
Max. 400 bar / 150 °C

<b>R+M Nr.</b>				
200 028 303	1/4" M	300 mm	330 mm	zinc-plated steel



1/4" M. Lance with insulation ST-9.9 and M22 F.  
Max. 400 bar / 150 °C

<b>R+M Nr.</b>				
200 009 945	M22 F		370 mm	zinc-plated steel



1/4" M. Lance with insulation ST-29 Cool & Compact.  
Max. 400 bar / 150 °C

<b>R+M Nr.</b>				
200 029 303	1/4" M	300 mm	330 mm	stainless steel



1/4" M. Lance with insulation ST-9.9 and M22 F.  
Max. 400 bar / 150 °C

<b>R+M Nr.</b>				
200 009 940	M22 F		370 mm	zinc-plated steel



1/4" M. Lance with insulation ST-9.1 and M22 F.  
Max. 400 bar / 150 °C

<b>R+M Nr.</b>				
200 009 730	M22 F		350 mm	stainless steel
200 009 731	M22 F		350 mm	zinc-plated steel



1/4" M. Lance with moulded handle.  
Max. 400 bar / 150 °C

<b>R+M Nr.</b>				
070 004 340	1/4" M	400 mm	440 mm	stainless steel



1/4" M. Lance with insulation ST-9.1 and coupling KW.  
Max. 400 bar / 150 °C

<b>R+M Nr.</b>				
200 009 750	coupling KW		260 mm	stainless steel



1/4" M. Lance with moulded handle.  
Max. 400 bar / 150 °C

<b>R+M Nr.</b>				
070 000 330	1/4" M	300 mm	330 mm	zinc-plated steel
070 000 240	1/4" M	400 mm	440 mm	zinc-plated steel



1/4" M. Lance with insulation and M22 F.  
Max. 400 bar / 150 °C

<b>R+M Nr.</b>				
202 300 400	M22 F		340 mm	zinc-plated steel



1/4" M. Lance with moulded handle.  
Max. 400 bar / 150 °C

<b>R+M Nr.</b>				
070 003 229	1/4" M	300 mm	330 mm	stainless steel

## Gun extensions with handle

1/4" M. Lance with handle and insulation ST-28.2/ST-29.2 Cool & Compact. Max. 400 bar / 150 °C



R+M Nr.	☉	ISO	↔	M
200 028 204	1/4" M	400 mm	430 mm	zinc-plated
200 029 204	1/4" M	400 mm	430 mm	stainless steel

R+M Nr.	☉	ISO	↔	M
200 028 210	1/4" M	400 mm	1,000 mm	zinc-plated
200 029 210	1/4" M	400 mm	1,000 mm	stainless steel

## Insulations for lances

### Insulations ST-9.9



Insulation 330 mm. Suitable for 1/4" lances. Max. 150 °C

R+M Nr.
200 009 935

### Vented handles ST-9



Vented handle 380 mm. Suitable for 1/4" lances. Max. 150 °C

R+M Nr.
200 009 510



Insulation 330 mm. Suitable for 1/4" lances. Max. 150 °C

R+M Nr.
200 009 936

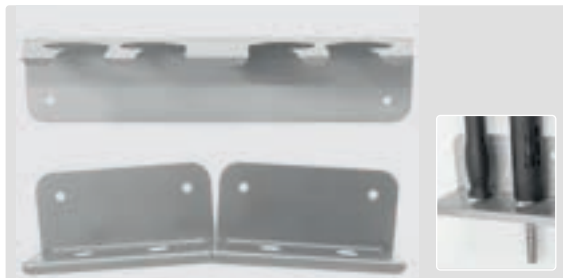
## Adapter for lances



M18 M : TR20 F. K-Lock 8. Brass.  
Max. 400 bar / 150 °C

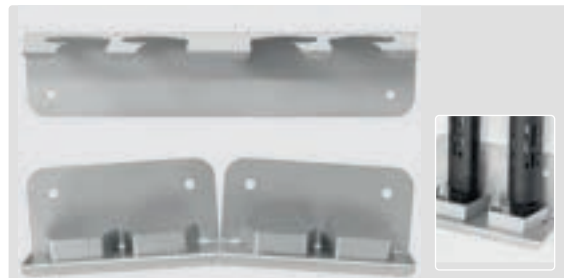
R+M Nr.
565 686

## Lance holder, two-piece



For lances with R + M / Suttner insulation and connection: Plug nipple or male thread.

R+M Nr.
105 610 050



For all lances with R + M / Suttner insulation. With 4 lance fixations for mounting for connection: hand screw coupling or female thread

R+M Nr.
105 610 055

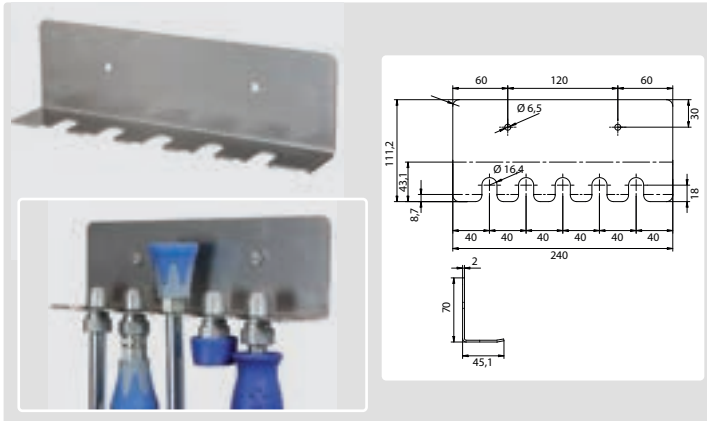


Lance fixation for lances with screw coupling or female thread. For individual retrofitting

R+M Nr.
105 610 004

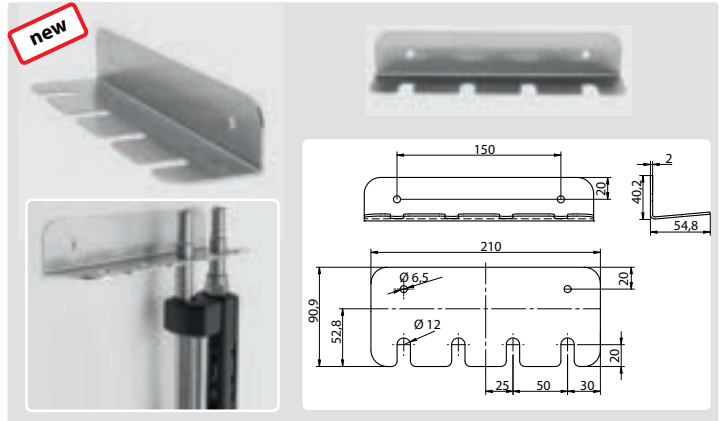
Symbols ☉ outlet ISO insulation ↔ length M material

Lance holder



Stainless steel. Wall mount for 5 lances

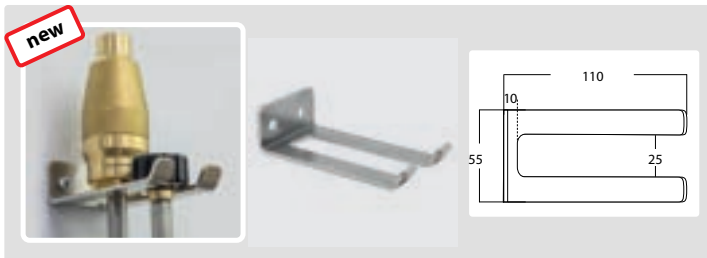
R+M Nr.  
040 003 830



Stainless steel. Wall mount for 4 lances with coupling KW

R+M Nr.  
040 008 535

Universal bracket



Stainless steel bracket for wall mounting

R+M Nr.  
710 400 097

Lance holder



Wall mount for 3 lances 1/4"

R+M Nr.  
020 000 970



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## High pressure nozzles

### 1/4" M NPT



Impact = 100 %

0° 15° 25° 40° 65°

⌀	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
02	610 05	613 05	617 50	620 30	625 20
025	610 07	613 07	617 65	620 35	625 25
03	610 10	613 10	617 70	621 00	625 30
034		613 20	617 80		625 35
035	610 20		617 85	621 20	
04	610 30	613 30	617 90	621 30	625 40
045	610 40	613 40	618 00	621 40	625 50
05	610 50	613 50	618 10	621 50	625 60
055	610 60	613 60	618 20	621 60	625 70
06	610 70	613 70	618 30	621 70	625 80
065	610 80	613 80	618 40	621 80	625 90
07	610 90	613 90	618 50	621 90	626 00
075	611 00	614 00	618 60	622 00	
08	611 10	614 10	618 70	622 10	626 10
085	611 20	614 20	618 80	622 20	
09	611 30	614 30	618 90	622 30	626 20
10	611 40	614 40	619 00	622 40	626 30
11	611 50	614 50	619 10	622 50	
12	611 60	614 60	619 20	622 60	
13	611 70	614 70	619 30	622 70	
14	611 75	614 75	619 35		
15	611 80	614 80	619 40	622 80	626 50
20	611 90	614 90	619 50	622 90	626 60
25	612 00	615 00	619 60	623 00	
30	612 10	615 10	619 70	623 20	626 70
35	612 50	615 20	619 75	623 25	
40	612 15	615 25	619 80	623 30	
50	612 20	615 35	619 90	623 32	

### 1/8" M NPT



Impact = 100 %

0° 15° 25° 40° 65°

⌀	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
02	630 08	632 05	635 00		
03	630 10	632 10	635 10	638 10	
035		632 15	635 15		
04	630 20	632 20	635 20	638 20	639 591
045	630 30	632 30	635 30	638 30	
05	630 40	632 40	635 40	638 40	639 60
055	630 50	632 50	635 50	638 50	
06	630 60	632 60	635 60	638 60	639 61
065	630 70	632 70	635 70	638 70	
07	630 80	632 80	635 80	638 80	
075	630 90	632 85	635 90	638 90	
08	631 00	633 00	636 00	639 00	
085	631 10	633 10	636 10	639 10	
09	631 20	633 20	636 20	639 20	
10	631 30	633 30	636 30	639 30	639 65
11	631 40		636 40		
12	631 50			639 50	
15		633 60	636 80		

### 1/4" M NPT - VVSS



Impact = 100 %

40° 65° 80°

⌀	R+M Nr.	R+M Nr.	R+M Nr.		
01	620 20	625 10	627 000 1		
015	620 25	625 15	627 00		
02	620 29		627 02		
03			627 03		

### 1/8" M NPT - VVSS



Impact = 100 %

40° 65°

⌀	R+M Nr.	R+M Nr.			
01	638 01	639 55 *			
015		639 56			
02		639 57			
03		639 58			

### Power 1/4" M NPT - PMEG



Impact = 250 %

15° 25°

⌀	R+M Nr.	R+M Nr.			
04	613 305	617 905			
045	613 405	618 005			
05	613 505	618 105			
055	613 605	618 205			
06	613 705	618 305			
065	613 805	618 405			

### Power 1/8" M NPT - PMEG



Impact = 250 %

15° 25°

⌀	R+M Nr.	R+M Nr.
04	632 205	635 205
045	632 305	635 305
05	632 405	635 405
055	632 505	635 505
06	632 605	635 605
065	632 705	635 705

### Nozzle filter VV



Brass. Max. 70 bar

R+M Nr.	nozzle
649 90	1/4"
649 95	1/8"

Symbols nozzle

\* brass



## High pressure nozzles

### Tip nozzle



Impact = 100 %

	0°	15°	25°	40°	65°
<b>D</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>
02	600 02	602 40	604 90	607 40	609 052
025		602 45	604 95		609 052
03	600 05	602 50	605 00	607 50	609 053
034	600 06	602 55	605 05		609 34
04	600 10	602 60	605 10	607 60	609 10
045	600 20	602 70	605 20	607 70	
05	600 30	602 80	605 30	607 80	609 30
055	600 40	602 90	605 40	607 90	609 305
06	600 50	603 00	605 50	608 00	
065	600 60	603 10	605 60	608 10	
07	600 70	603 20	605 70	608 20	
075	600 75	603 25	605 75	608 25	
08	600 80	603 30	605 80	608 30	609 008
085	600 90	603 40	605 90		
09	601 00	603 50	606 00	608 40	
10	601 10	603 60	606 10	608 60	609 100
12		603 70	606 20	608 66	
13	601 30	603 80	606 30	608 70	
15	601 40	603 90	606 40	608 80	
20	601 50		606 50	609 00	609 200

## Tip cleaner

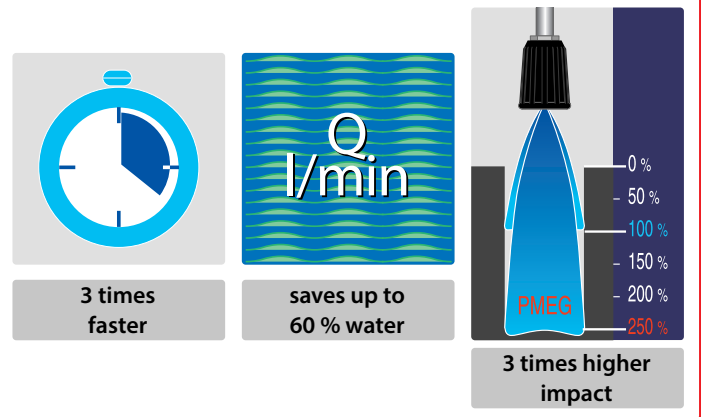


High speed steel (HSS) with aluminium shaft.

↔ 42 mm

<b>R+M Nr.</b>	∅
200 049 042	0.5

### Advantages of Power-MEG nozzle



## Ceramic high pressure nozzles



### 1/4" M NPT



Impact = 100 %. Max. 300 bar / 125 °C

	0°	15°	25°	40°	
<b>D</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	<b>R+M Nr.</b>	
02	610 056	613 056		620 306	
025		613 076	617 656	620 356	
03		613 106	617 706	621 006	
035		613 206	617 806		
04		613 306	617 906	621 306	
045		613 406	618 006	621 406	
05		613 506	618 106	621 506	
055	610 606*	613 606	618 206	621 606	
06	610 706*	613 706	618 306	621 706	
065	610 806*		618 406	621 806	
07		613 906	618 506		
075	611 006*	614 006*		622 006*	
08	611 106*			622 106*	
09				622 306*	
10	611 406*	614 406*	619 006*		
11	611 506*	614 506			
12	611 606*			622 606*	
15	611 806*	614 806			

- » Ceramic inserts provide up to 10 times the life of stainless steel inserts, maximizing your return of investment and decreasing downtime for nozzle replacement.
- » Extra long life ceramic orifice is nearly diamond-hard to resist wear.
- » The used ceramic is specially designed for high pressure and elevated temperature.
- » The extremely hard ceramic insert guarantees a more precise and stronger
- » Wedge-shaped orifice insert seats tightly as spray pressure increases.
- » The external body made out of stainless steel V2A / AISI 304 has a polished surface which is resistant to rust and slight damages.
- » The nozzles are equipped with a 1/4" M NPT connection.

\* limited stock

## Further information about high pressure nozzles

Output in l/min depends on pressure in bar

D	Ø*	Pressure in bar											
		3	10	20	30	40	50	60	70	80	90	100	110
01	0.59	0.4	0.7	1.0	1.3	1.4	1.6	1.7	1.8	2.0	2.1	2.2	2.3
015	0.71	0.6	1.0	1.5	1.8	2.1	2.4	2.6	2.8	3.0	3.2	3.4	3.6
02	0.84	0.8	1.4	2	2.5	2.8	3.2	3.5	3.7	4.0	4.2	4.5	4.7
025	0.94	1.0	1.6	2.5	3.1	3.5	4.0	4.3	4.7	5.0	5.3	5.6	5.9
03	1.03	1.2	2.0	3.1	3.7	4.3	4.8	5.3	5.7	6.1	6.3	6.8	7.1
035	1.10	1.4	2.5	3.6	4.2	4.9	5.5	6.0	6.5	7.0	7.4	7.8	8.2
04	1.21	1.6	2.8	4.1	5.2	5.9	6.6	7.3	7.8	8.4	8.9	9.4	9.8
045	1.26	1.8	3.1	4.5	5.5	6.4	7.1	7.8	8.4	9.0	9.6	10.2	10.5
05	1.33	2.0	3.5	5.1	6.2	7.1	8.0	8.7	9.4	10.0	10.7	11.3	11.8
055	1.39	2.1	3.9	5.6	6.8	7.8	8.7	9.6	10.3	11.1	11.8	12.4	13.0
06	1.46	2.4	4.1	6.1	7.4	8.6	9.6	10.4	11.3	12.1	12.8	13.6	14.3
065	1.52	2.6	4.5	6.6	8.0	9.3	10.4	11.3	12.3	13.2	14.0	14.7	15.4
07	1.57	2.8	5.0	7.1	8.6	10.0	11.2	12.2	13.2	14.1	15.0	15.8	16.6
075	1.63	3.0	5.3	7.6	9.3	10.7	12.0	13.1	14.2	15.2	16.1	16.9	17.7
08	1.68	3.1	5.6	8.2	9.8	11.3	12.7	14.0	15.1	16.1	17.1	18.0	18.9
085	1.73	3.3	6	8.7	10.4	12.1	13.5	14.8	16.0	17.1	18.1	19.1	20.0
09	1.78	3.5	6.5	9.2	11.1	12.8	14.3	15.7	17.0	18.0	19.2	20.2	21.2
10	1.88	3.9	7.0	10.2	12.3	14.2	16.0	17.4	18.9	20.1	21.4	22.5	23.6
11	1.96	4.3	7.8	11.2	13.4	15.5	17.3	19.0	20.5	22.0	23.3	24.5	25.7
12	2.05	4.7	8.4	12.3	14.6	16.9	18.9	20.8	22.4	24.0	25.4	26.8	28.1
13	2.13	5.1	9.5	13.3	15.9	18.3	20.5	22.5	24.3	26.0	27.5	29.0	30.4
14	2.21	5.5	10.2	14.3	17.1	19.7	22.1	24.2	26.1	28.0	29.6	31.3	32.8
15	2.30	5.9	10.8	15.3	18.5	21.3	23.9	26.1	28.3	30.2	32.1	33.8	35.3
20	2.66	7.9	14	20.5	24.7	28.5	31.9	34.9	37.8	40.3	42.7	45.1	47.2
30	3.25	11.8	21.1	30.5	37.0	42.7	47.8	52.4	56.6	60.5	64.2	67.6	70.9
40	3.76	15.6	28.0	40.5	49.4	57.0	63.7	69.8	75.4	80.7	85.5	90.2	94.6
50	4.28	19.5	35.3	50.5	61.50	71.00	79.50	87.00	94.00	101.00	107.00	112.50	118.00

Choosing the suitable nozzle is most important for output and smooth function of the high pressure cleaner:

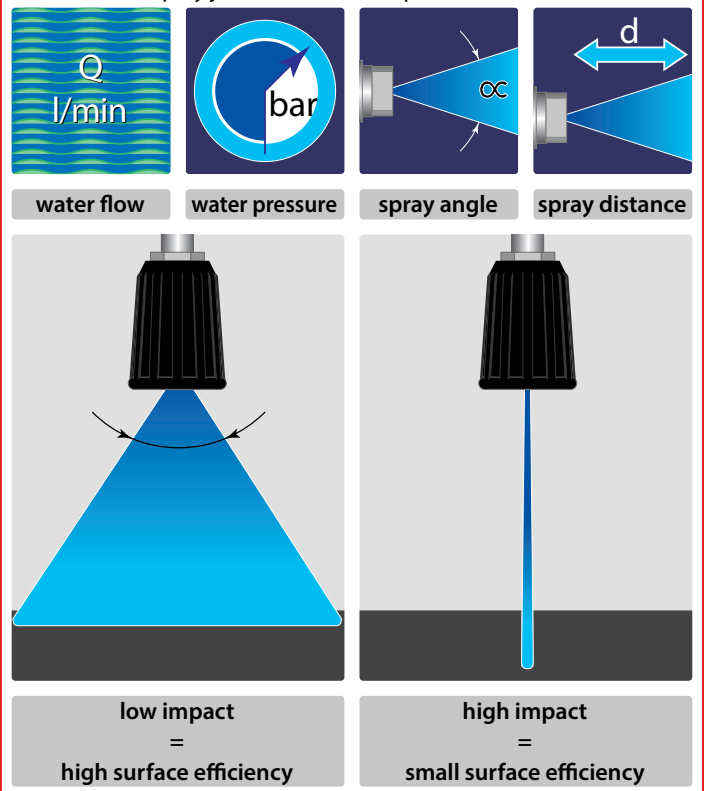
- Nozzle too small = machine permanently switches into bypass or off.
- Nozzle too wide = machine has a small output, lower pressure.

### How to choose the suitable nozzle?

Attention: pressure and flow of the high pressure cleaner must be known e.g. 15 l/min (900 l/h) - working pressure of 150 bar.

- In the first line (pressure in bar) please go to column "150".
- Follow column "150" down to find l/min: take "15.2" (nearest to 15).
- Turn left in line "15.2" until the first column and stop at nozzle type "055".
- The size you need is "055"
- On pages 278 -279 please select type of nozzle and spray angle.
- In line "055" please find the R+M Nr. of the nozzle you need.

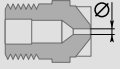
Important for excellent high pressure cleaning is the impact of the spray jet which is made up of 4 features.



\* hole diameter in mm

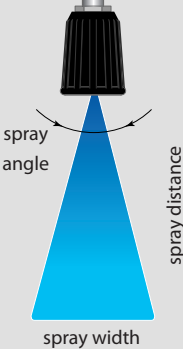
## Further information about high pressure nozzles

Output in l/min depends on pressure in bar



		Pressure in bar											
		120	130	140	150	160	175	200	225	250	300	400	500
D	Ø	2.4	2.5	2.6	2.7	2.8	2.9	3.1	3.3	3.5	3.8	4.4	4.9
01	0.59	3.7	3.8	4.0	4.2	4.3	4.5	4.8	5.1	5.4	5.9	6.7	7.5
015	0.71	4.8	5.0	5.3	5.4	5.6	5.9	6.3	6.7	7.0	7.7	8.9	9.9
02	0.84	6.1	6.4	6.6	6.9	7.1	7.5	8.0	8.5	9.0	9.9	11.4	12.7
025	0.94	7.4	7.7	8.0	8.3	8.6	9.0	9.6	10.2	10.7	11.8	13.5	15.1
03	1.03	8.6	8.9	9.2	9.5	9.8	10.3	11.0	11.7	12.3	13.8	15.5	17.8
035	1.10	10.3	10.7	11.1	11.5	11.9	12.4	13.3	14.1	14.8	16.3	18.7	20.9
04	1.21	10.9	11.4	11.8	12.2	12.6	13.2	14.1	15.0	15.8	17.4	19.9	22.3
045	1.26	12.4	12.9	13.4	13.8	14.3	14.9	16.0	16.9	17.9	19.7	22.6	25.3
05	1.33	13.9	14.1	14.7	15.2	15.7	16.4	17.5	18.6	19.6	21.7	25.0	28.0
055	1.39	14.6	15.5	16.0	16.7	17.2	18.0	19.2	20.4	21.5	23.7	27.1	30.3
06	1.46	16.1	16.8	17.4	18.0	18.6	19.4	20.8	22.0	23.2	25.6	29.3	32.7
065	1.52	17.3	18.0	18.7	19.3	20.0	20.9	22.3	23.7	25.0	27.1	31.3	35.0
07	1.57	18.5	19.3	20.0	20.7	21.4	22.4	23.9	25.3	26.7	29.4	33.7	37.7
075	1.63	19.7	20.5	21.3	22.0	22.8	23.8	25.5	27.0	28.5	31.4	35.9	40.2
08	1.68	20.9	21.8	22.6	23.4	24.1	25.3	27.0	28.6	30.2	34.5	39.8	44.5
085	1.73	22.1	23.0	23.9	24.7	25.5	26.7	28.6	30.3	31.9	35.1	40.2	45.0
09	1.78	24.6	25.6	26.6	27.6	28.5	29.8	31.8	33.7	35.6	39.2	44.9	50.2
10	1.88	26.9	28.0	29.1	30.1	31.1	32.5	34.7	36.8	38.8	43.4	50.1	56.0
11	1.96	29.4	30.6	31.7	32.8	33.9	35.4	37.9	40.2	42.4	46.7	53.4	59.8
12	2.05	31.8	33.1	34.4	35.6	36.7	38.4	41.1	43.6	45.9	50.5	57.8	64.7
13	2.13	34.2	35.6	37.0	38.3	39.5	41.4	44.3	46.9	49.4	55.0	63.5	71.0
14	2.21	36.9	38.4	39.9	41.3	42.6	44.6	47.7	50.6	53.3	58.7	67.2	75.2
15	2.30	49.3	51.3	53.2	55.1	56.9	59.5	63.6	67.5	71.1	78.2	89.6	100.0
20	2.66	74.0	77.1	80.0	82.8	85.5	89.4	95.6	101.0	107.0	118.0	136.0	151.0
30	3.25	98.8	103.0	107.0	110.0	114.0	119.0	127.0	135.0	143.0	156.0	180.0	202.0
40	3.76	123.00	128.00	133.00	138.00	142.50	149.00	159.00	168.50	178.00	195.00	224.50	251.00
50	4.28												

## Spray width depending on spray angle and distance



Angle	Distance in cm										
	1	2	3	5	7	10	20	30	50	70	100
5°	0.09	0.17	0.26	0.44	0.61	0.87	1.75	2.62	4.37	6.11	8.73
10°	0.17	0.35	0.52	0.87	1.22	1.75	3.50	5.25	8.75	12.25	17.50
15°	0.26	0.53	0.79	1.32	1.84	2.63	5.27	7.90	13.17	18.43	26.33
20°	0.35	0.71	1.06	1.76	2.47	3.53	7.05	10.58	17.63	24.69	35.27
25°	0.44	0.89	1.33	2.22	3.10	4.43	8.87	13.30	22.17	31.04	44.34
40°	0.73	1.46	2.18	3.64	5.10	7.28	14.56	21.84	36.40	50.96	72.79
65°	1.27	2.55	3.82	6.37	8.92	12.74	25.48	38.22	63.71	89.19	127.41
80°	1.68	3.36	5.03	8.39	11.75	16.78	33.56	50.35	83.91	117.47	167.82
110°	2.86	5.71	8.57	14.28	19.99	28.56	57.13	85.69	142.81	199.94	285.63

Symbols  diameter  nozzle  flow

## Nozzle protector and nozzle holder

### 2-component nozzle protector ST-10

The ST-10 is the ideal combination made out of hard and soft plastics. The nozzle protector is suitable for cold and hot water applications in the car wash, agriculture and food industry. The ST-10 is unimpeachable, protects your nozzles and preserves the surfaces to be cleaned at the same time. Suitable for nozzles 1/4" M NPT. Zinc-plated steel max. 400 bar. Stainless steel max. 500 bar

Plastic. Zinc-plated steel	Plastic. Zinc-plated steel	Plastic. Zinc-plated steel	Plastic. Zinc-plated steel	Plastic. Stainless steel	Plastic. Stainless steel		
R+M Nr. 200 010 500	R+M Nr. 200 010 510	R+M Nr. 200 010 520	R+M Nr. 200 010 530	R+M Nr. 200 010 770	R+M Nr. 200 010 760		
						For nozzles with filter. Plastic. Stainless steel.	For nozzles with filter. Plastic. Stainless steel.
Plastic. Stainless steel	Plastic. Stainless steel	Plastic. Stainless steel	Plastic. Stainless steel	Plastic. Stainless steel	Plastic. Stainless steel		
R+M Nr. 200 010 700	R+M Nr. 200 010 710	R+M Nr. 200 010 720	R+M Nr. 200 010 730	R+M Nr. 200 010 755	R+M Nr. 200 010 740	R+M Nr. 200 010 745	R+M Nr. 200 010 725

### For nozzles 1/4" M NPT

ST-005. Plastic. Zinc-plated steel	ST-005. Plastic. Stainless steel	Rubber. Zinc-plated steel	Socket. Brass. Quadrangle	ST-12. Plastic. Zinc-plated steel	1/4" F NPT : 3/8" F. Stainless steel. Socket	Socket. Round. Stainless steel
R+M Nr. 200 000 003	R+M Nr. 200 000 008	R+M Nr. 519 05	R+M Nr. 518 00	R+M Nr. 200 012 500	R+M Nr. 710 101 350	R+M Nr. 040 004 100

### For nozzles 1/8" M

ST-005. Plastic. Zinc-plated steel	Socket. Hexagon. Stainless steel	Socket. Plastic. For nozzle with hexagon 13 + 14	2-component nozzle protector ST-10. Plastic. Stainless steel
R+M Nr. 200 000 004	R+M Nr. 518 70	R+M Nr. 519 32	R+M Nr. 200 010 830

### For tip nozzles

1/4" F : M18 M. Nozzle holder EG. Brass	O-ring. Nozzle holder EG	M18 F. Nozzle holder EG. Stainless steel	M18 F. Nozzle protector
R+M Nr. 010 000 043	R+M Nr. 790 25	R+M Nr. 040 000 041	R+M Nr. 519 60
1/4" F. Nozzle protector complete without nozzle tip.	1/4" F : M18 F. Adaptor. Brass	1/4" M : M18 F. Adaptor 2 pieces	3/8" M : M18 F. Adaptor. Stainless steel
R+M Nr. 519 601	R+M Nr. 519 40	R+M Nr. 519 70	R+M Nr. 040 001 125

### Adaptor 500 bar lances

	1/4" M : M20 F. Stainless steel
<b>K</b>	R+M Nr. 519 714 209

Symbols nozzle

## Suttner rotating nozzles with ceramic insert

### ST-357.1



1/4" F. Spray angle 20°. 100 - 250 bar. Max. 100 °C

R+M Nr.	D
200 357 530	03
200 357 535	035
200 357 540	04
200 357 545	045
200 357 550	05
200 357 555	055
200 357 560	06
200 357 565	065
200 357 570	07
200 357 580	08
200 357 690	09
200 357 510	100



M18 F. Spray angle 20°. 100 - 250 bar. Max. 100 °C

R+M Nr.	D
200 357 330	03
200 357 335	035
200 357 340	04
200 357 345	045
200 357 350	05
200 357 355	055
200 357 360	06
200 357 365	065
200 357 370	07
200 357 380	08
200 357 390	09
200 357 310	100



1/8" M. Spray angle 20°. 100 - 250 bar. Max. 100 °C

R+M Nr.	D
200 357 430	03
200 357 435	035
200 357 440	04
200 357 445	045
200 357 450	05
200 357 455	055
200 357 460	06
200 357 465	065
200 357 470	07
200 357 480	08
200 357 490	09
200 357 410	100



Kit ST-357.1

### TR20 adapter



TR20 F : 1/4" M. Stainless steel. Max. 400 bar / 150° C

R+M Nr.
565 685 19

### ST-458.1



1/4" F. Spray angle 20°. 200 - 400 bar. Max. 100 °C

R+M Nr.	D
200 458 630	03
200 458 635	035
200 458 640	04
200 458 645	045
200 458 650	05
200 458 655	055
200 458 660	06
200 458 665	065
200 458 670	07
200 458 680	08
200 458 690	09
200 458 610	100



M18 F. Spray angle 20°. 200 - 400 bar. Max. 100 °C

R+M Nr.	D
200 458 331	03
200 458 335	035
200 458 340	04
200 458 345	045
200 458 350	05
200 458 355	055
200 458 360	06
200 458 365	065
200 458 370	07
200 458 380	08
200 458 390	09
200 458 310	100



1/8" M. Spray angle 20°. 200 - 400 bar. Max. 100 °C

R+M Nr.	D
200 458 430	03
200 458 435	035
200 458 440	04
200 458 445	045
200 458 450	05
200 458 455	055
200 458 460	06
200 458 465	065
200 458 470	07
200 458 480	08
200 458 490	09
200 458 410	100



Kit ST-458.1

R+M Nr.
200 458 230
200 458 235
200 458 240
200 458 245
200 458 250
200 458 255
200 458 260
200 458 265
200 458 270
200 458 280
200 458 190
200 458 110

**Suttner rotating nozzles with ceramic insert**

**ST-456**



1/4" F. Spray angle 20°. 200 - 350 bar. Max. 100 °C

R+M Nr.	D
200 456 530	03
200 456 535	035
200 456 540	04
200 456 545	045
200 456 550	05
200 456 555	055
200 456 560	06
200 456 565	065
200 456 570	07
200 456 580	08



Kit ST-456

R+M Nr.
200 456 140
200 456 160
200 456 165
200 456 170
200 456 180



Kit ST-456

R+M Nr.
200 456 230
200 456 235
200 456 245
200 456 250
200 456 255



M18 F. Spray angle 20°. 200 - 350 bar. Max. 100 °C

R+M Nr.	D
200 456 630	03
200 456 635	035
200 456 640	04
200 456 645	045
200 456 650	05
200 456 655	055
200 456 660	06
200 456 665	065
200 456 670	07
200 456 680	08



Kit ST-456

R+M Nr.
200 456 130
200 456 135
200 456 140
200 456 145
200 456 150
200 456 155
200 456 160
200 456 165
200 456 170
200 456 180

**ST-458.1**



1/4" F. Spray angle 20°. 120 - 250 bar. Max. 100 °C

R+M Nr.	D
200 458 811	110
200 458 812	120
200 458 813	130
200 458 815	150
200 458 818	180
200 458 820	200
200 458 825	250
200 458 830	300



Kit ST-458.1

R+M Nr.
200 458 311
200 458 312
200 458 313
200 458 315
200 458 318
200 458 320
200 458 325
200 458 330



1/2" F. Spray angle 20°. 120 - 250 bar. Max. 100 °C

R+M Nr.	D
200 458 712	120
200 458 715	150
200 458 720	200
200 458 730	300



Kit ST-458.1

R+M Nr.
200 458 312
200 458 315
200 458 320
200 458 330



1/2" F. Spray angle 20°. 120 - 250 bar. Max. 100 °C

R+M Nr.	D
200 458 745	045
200 458 755	055
200 458 770	07
200 458 791	09



Kit ST-458.1

R+M Nr.
200 458 245
200 458 255
200 458 270
200 458 190

**ST-559 Suttner rotating nozzles with carbide insert**

**ST-559**



1/4" F. 300-600 bar. Max. 90 °C

R+M Nr.	D
200 559 520	02
200 559 530	03
200 559 540	04
200 559 550	05
200 559 555	055
200 559 560	06



M20x1 F. 300-600 bar. Max. 90 °C

R+M Nr.	D
200 559 320	02
200 559 330	03
200 559 340	04



Kit ST-559

R+M Nr.
200 559 120
200 559 130
200 559 140
200 559 150
200 559 155
200 559 160



## Suttner rotating nozzles without plastic cap

### ST-357.1



1/4" F. Spray angle 20°.  
100 - 250 bar. Max. 100 °C

R+M Nr.	D
200 357 632	03
200 357 637	035
200 357 642	04
200 357 647	045
200 357 652	05
200 357 657	055
200 357 662	06
200 357 667	065
200 357 672	07
200 357 682	08
200 357 692	09
200 357 612	100



Kit ST-357.1

### ST-458.1



1/4" F. Spray angle 20°.  
200 - 400 bar. Max. 100 °C

R+M Nr.	D
200 458 632	03
200 458 637	035
200 458 642	04
200 458 647	045
200 458 652	05
200 458 657	055
200 458 662	06
200 458 667	065
200 458 672	07
200 458 682	08
200 458 692	09
200 458 612	100



Kit ST-458.1

## ST-33 High Pressure Filter



Brass with stainless steel filter. Bidirectional.  
Max. 400 bar / 40 l/min. / 150 °C

R+M Nr.	I	⊙	⊙
200 033 855	45.6 mm	1/4" M	1/4" F

## Suttner rotating nozzles in different colours

With effect from today we enlarge the choice of colours of the plastic plugs for our rotating nozzles ST-357, ST-456 and ST-458. In addition to the standard colour black, you are invited to take the nozzle in blue, red, yellow and green, now. The decision is up to you as it is possible now to adapt the rotating nozzles individually to your company's colour or to the one of your customers.

By using different colours the affiliation to a certain unit (rental business), user or application is possible in an easy way. Moreover, classifications regarding different areal divisions within the HACCP can be realized.

What would you like to mark? Please find it out and test it!



### Plastic caps for rotating nozzles ST-357

R+M Nr.	C
020 007 405	black
020 007 406	blue
020 007 409	yellow
020 007 411	green
020 007 412	red

### Plastic caps for rotating nozzles ST-456

R+M Nr.	C
020 001 022	black
020 001 041	blue
020 001 046	yellow
020 001 047	green
020 001 048	red

### Plastic caps for rotating nozzles ST-458

R+M Nr.	C
020 001 025	black
020 001 026	blue
020 001 029	yellow
020 001 031	green
020 001 032	red

Symbols **D** nozzle **C** colour coding **I** height **⊙** thread

## Suttner rotating nozzles with ceramic insert

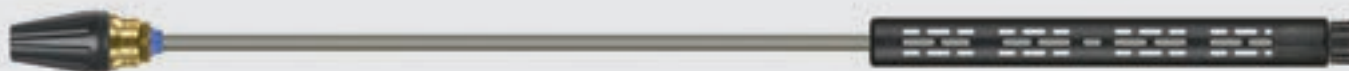


M22 F. Lance with rotating nozzle ST-357.1. Spray angle 20°. 100 - 250 bar. Max. 100 °C

R+M Nr.	D	↔	M)*
653 030 04	03	430 mm	zinc-plated steel
653 035 04	035	430 mm	zinc-plated steel
653 040 04	04	430 mm	zinc-plated steel
653 045 04	045	430 mm	zinc-plated steel
653 050 04	05	430 mm	zinc-plated steel
653 055 04	055	430 mm	zinc-plated steel
653 060 04	06	430 mm	zinc-plated steel
653 065 04	065	430 mm	zinc-plated steel
653 070 04	07	430 mm	zinc-plated steel

M22 F. Lance with rotating nozzle ST-357.1. Spray angle 20°. 100 - 250 bar. Max. 100 °C

R+M Nr.	D	↔	M)*
653 030 049	03	430 mm	stainless steel
653 035 049	035	430 mm	stainless steel
653 040 049	04	430 mm	stainless steel
653 045 049	045	430 mm	stainless steel
653 050 049	05	430 mm	stainless steel
653 055 049	055	430 mm	stainless steel
653 060 049	06	430 mm	stainless steel
653 065 049	065	430 mm	stainless steel
653 070 049	07	430 mm	stainless steel



M22 F. Lance with vented handle ST-9 380 mm and rotating nozzle ST-458.1. Spray angle 20°. 200 - 400 bar. Max. 100 °C

R+M Nr.	D	↔	M)*
653 835 012	035	1.000 mm	zinc-plated steel
653 840 012	04	1.000 mm	zinc-plated steel
653 845 012	045	1.000 mm	zinc-plated steel
653 850 012	05	1.000 mm	zinc-plated steel
653 855 012	055	1.000 mm	zinc-plated steel
653 860 012	06	1.000 mm	zinc-plated steel
653 865 012	065	1.000 mm	zinc-plated steel
653 870 012	07	1.000 mm	zinc-plated steel
653 880 012	08	1.000 mm	zinc-plated steel

M22 F. Lance with vented handle ST-9 380 mm and rotating nozzle ST-458.1. Spray angle 20°. 200 - 400 bar. Max. 100 °C

R+M Nr.	D	↔	M)*
653 835 021	035	1.000 mm	stainless steel
653 840 021	04	1.000 mm	stainless steel
653 845 021	045	1.000 mm	stainless steel
653 850 021	05	1.000 mm	stainless steel
653 855 021	055	1.000 mm	stainless steel
653 860 021	06	1.000 mm	stainless steel
653 865 021	065	1.000 mm	stainless steel
653 870 021	07	1.000 mm	stainless steel
653 880 021	08	1.000 mm	stainless steel

\* lance

## Suttner rotating nozzles with ceramic insert



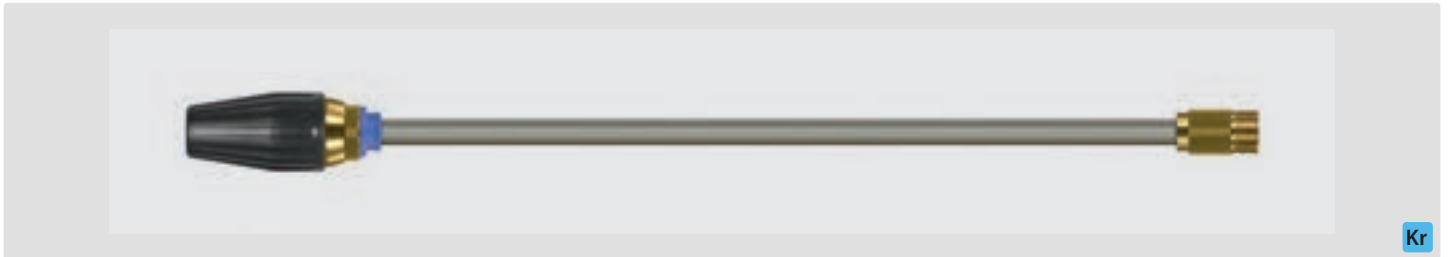
K

Plug K. Lance with rotating nozzle ST-357.1. Spray angle 20°. 100 - 250 bar. Max. 100 °C

Plug K. Lance with rotating nozzle ST-357.1. Spray angle 20°. 100 - 250 bar. Max. 100 °C

R+M Nr.	D	↔	M)*
653 030 011	03	430 mm	zinc-plated steel
653 035 011	035	430 mm	zinc-plated steel
653 040 011	04	430 mm	zinc-plated steel
653 045 011	045	430 mm	zinc-plated steel
653 050 011	05	430 mm	zinc-plated steel
653 055 011	055	430 mm	zinc-plated steel
653 060 011	06	430 mm	zinc-plated steel
653 065 011	065	430 mm	zinc-plated steel
653 070 011	07	430 mm	zinc-plated steel

R+M Nr.	D	↔	M)*
653 030 019	03	430 mm	stainless steel
653 035 019	035	430 mm	stainless steel
653 040 019	04	430 mm	stainless steel
653 045 019	045	430 mm	stainless steel
653 050 019	05	430 mm	stainless steel
653 055 019	055	430 mm	stainless steel
653 060 019	06	430 mm	stainless steel
653 065 019	065	430 mm	stainless steel
653 070 019	07	430 mm	stainless steel



Kr

M22 M. Lance with rotating nozzle ST-357.1. Spray angle 20°. 100 - 250 bar. Max. 100 °C

M22 M. Lance with rotating nozzle ST-357.1. Spray angle 20°. 100 - 250 bar. Max. 100 °C

R+M Nr.	D	↔	M)*
653 030 03	03	430 mm	zinc-plated steel
653 035 03	035	430 mm	zinc-plated steel
653 040 03	04	430 mm	zinc-plated steel
653 045 03	045	430 mm	zinc-plated steel
653 050 03	05	430 mm	zinc-plated steel
653 055 03	055	430 mm	zinc-plated steel
653 060 03	06	430 mm	zinc-plated steel
653 065 03	065	430 mm	zinc-plated steel
653 070 03	07	430 mm	zinc-plated steel

R+M Nr.	D	↔	M)*
653 030 039	03	430 mm	stainless steel
653 035 039	035	430 mm	stainless steel
653 040 039	04	430 mm	stainless steel
653 045 039	045	430 mm	stainless steel
653 050 039	05	430 mm	stainless steel
653 055 039	055	430 mm	stainless steel
653 060 039	06	430 mm	stainless steel
653 065 039	065	430 mm	stainless steel
653 070 039	07	430 mm	stainless steel

## Lance clips

The lance clips are easily clamped onto every 1/4" lance thus informing the user about the nozzle size or the affiliation to a certain unit, user or application.

Moreover, classifications regarding different areal divisions within the HACCP can be realized. The marking of various spray angles is also possible.

The lance clips suitable for all 1/4" lances are made out of polypropylene which is intended to come into contact with foodstuffs.

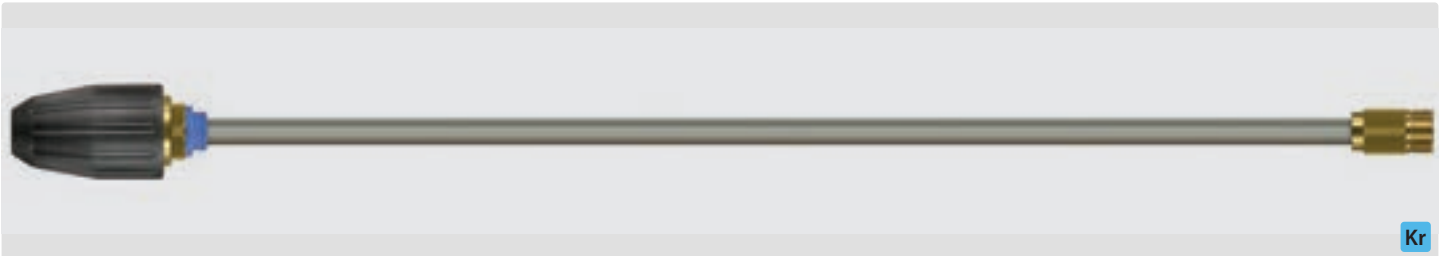


R+M Nr.	C
020 004 230	yellow
020 004 235	purple
020 004 240	brown
020 004 245	light green
020 004 250	black
020 004 255	light blue
020 004 260	red
020 004 265	nature
020 004 270	pink
020 004 280	orange
020 004 290	green
020 004 300	grey

\* lance

Symbols D) nozzle C) colour coding ↔ length M) material

## Suttner rotating nozzles with ceramic insert



Kr

M22 M. Lance with rotating nozzle ST-456. Spray angle 20°. 200 - 350 bar.  
Max. 100 °C

R+M Nr.	D	↔	M)*
653 135 018	035	600 mm	zinc-plated steel
653 140 018	04	600 mm	zinc-plated steel
653 145 018	045	600 mm	zinc-plated steel
653 150 018	05	600 mm	zinc-plated steel
653 155 018	055	600 mm	zinc-plated steel
653 160 018	06	600 mm	zinc-plated steel
653 165 018	065	600 mm	zinc-plated steel
653 170 018	07	600 mm	zinc-plated steel
653 180 018	08	600 mm	zinc-plated steel

M22 M. Lance with rotating nozzle ST-456. Spray angle 20°. 200 - 350 bar.  
Max. 100 °C

R+M Nr.	D	↔	M)*
653 135 018 9	035	600 mm	stainless steel
653 140 018 9	04	600 mm	stainless steel
653 145 018 9	045	600 mm	stainless steel
653 150 018 9	05	600 mm	stainless steel
653 155 018 9	055	600 mm	stainless steel
653 160 018 9	06	600 mm	stainless steel
653 165 018 9	065	600 mm	stainless steel
653 170 018 9	07	600 mm	stainless steel
653 180 018 9	08	600 mm	stainless steel



Kr

M22 M. Lance with rotating nozzle ST-458.1. Spray angle 20°. 200 - 400 bar.  
Max. 100 °C

R+M Nr.	D	↔	M)*
653 835 016	035	430 mm	zinc-plated steel
653 840 016	04	430 mm	zinc-plated steel
653 845 016	045	430 mm	zinc-plated steel
653 850 016	05	430 mm	zinc-plated steel
653 855 016	055	430 mm	zinc-plated steel
653 860 016	06	430 mm	zinc-plated steel
653 865 016	065	430 mm	zinc-plated steel
653 870 016	07	430 mm	zinc-plated steel
653 880 016	08	430 mm	zinc-plated steel

M22 M. Lance with rotating nozzle ST-458.1. Spray angle 20°. 200 - 400 bar.  
Max. 100 °C

R+M Nr.	D	↔	M)*
653 835 019	035	430 mm	stainless steel
653 840 019	04	430 mm	stainless steel
653 845 019	045	430 mm	stainless steel
653 850 019	05	430 mm	stainless steel
653 855 019	055	430 mm	stainless steel
653 860 019	06	430 mm	stainless steel
653 865 019	065	430 mm	stainless steel
653 870 019	07	430 mm	stainless steel
653 880 019	08	430 mm	stainless steel

\* lance

## Suttner rotating nozzles with ceramic insert

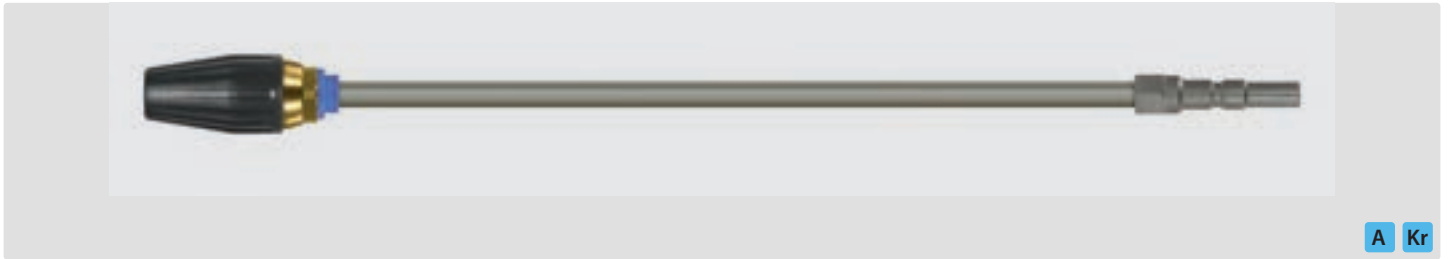


M22 M. Lance with vented handle ST-9 380 mm and rotating nozzle ST-458.1. Spray angle 20°. 200 - 400 bar. Max. 100 °C

R+M Nr.	D	↔	M*
653 835 015	035	1.000 mm	zinc-plated steel
653 840 015	04	1.000 mm	zinc-plated steel
653 845 015	045	1.000 mm	zinc-plated steel
653 850 015	05	1.000 mm	zinc-plated steel
653 855 015	055	1.000 mm	zinc-plated steel
653 860 015	06	1.000 mm	zinc-plated steel
653 865 015	065	1.000 mm	zinc-plated steel
653 870 015	07	1.000 mm	zinc-plated steel
653 880 015	08	1.000 mm	zinc-plated steel

M22 M. Lance with vented handle ST-9 380 mm and rotating nozzle ST-458.1. Spray angle 20°. 200 - 400 bar. Max. 100 °C

R+M Nr.	D	↔	M*
653 835 020	035	1.000 mm	stainless steel
653 840 020	04	1.000 mm	stainless steel
653 845 020	045	1.000 mm	stainless steel
653 850 020	05	1.000 mm	stainless steel
653 855 020	055	1.000 mm	stainless steel
653 860 020	06	1.000 mm	stainless steel
653 865 020	065	1.000 mm	stainless steel
653 870 020	07	1.000 mm	stainless steel
653 880 020	08	1.000 mm	stainless steel



A Kr

Plug KW. Lance with rotating nozzle ST-357.1. Spray angle 20°. 100 - 250 bar. Max. 100 °C

R+M Nr.	D	↔	M*
653 030 17	03	430 mm	zinc-plated steel
653 035 17	035	430 mm	zinc-plated steel
653 040 17	04	430 mm	zinc-plated steel
653 045 17	045	430 mm	zinc-plated steel
653 050 17	05	430 mm	zinc-plated steel
653 055 17	055	430 mm	zinc-plated steel
653 060 17	06	430 mm	zinc-plated steel
653 065 17	065	430 mm	zinc-plated steel
653 070 17	07	430 mm	zinc-plated steel

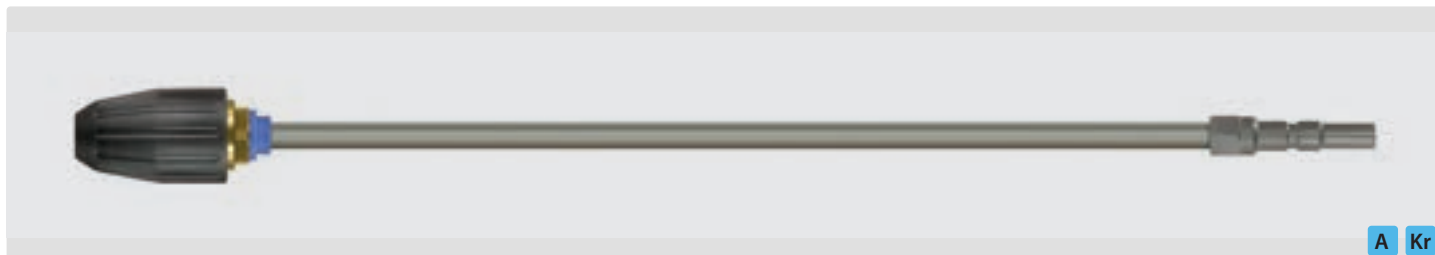
Plug KW. Lance with rotating nozzle ST-357.1. Spray angle 20°. 100 - 250 bar. Max. 100 °C

R+M Nr.	D	↔	M*
653 030 179	03	430 mm	stainless steel
653 035 179	035	430 mm	stainless steel
653 040 179	04	430 mm	stainless steel
653 045 179	045	430 mm	stainless steel
653 050 179	05	430 mm	stainless steel
653 055 179	055	430 mm	stainless steel
653 060 179	06	430 mm	stainless steel
653 065 179	065	430 mm	stainless steel
653 070 179	07	430 mm	stainless steel

\* lance

Symbols D nozzle ↔ length M material

## Suttner rotating nozzles with ceramic insert



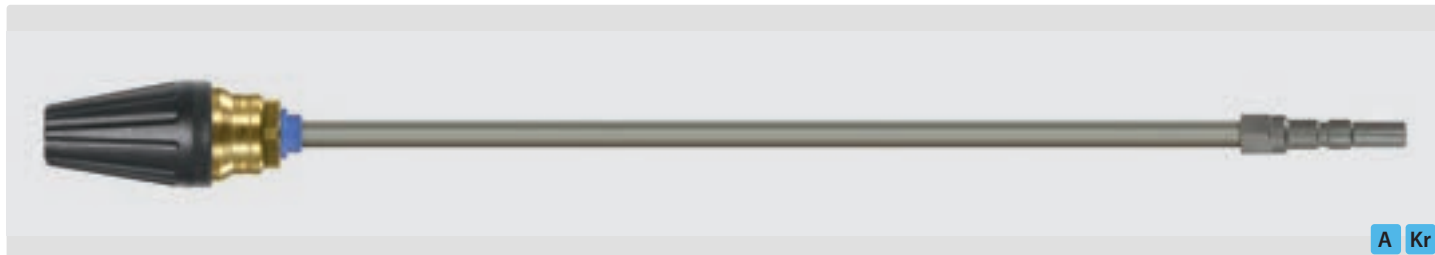
A Kr

Plug KW. Lance with rotating nozzle ST-456. Spray angle 20°. 200 - 350 bar. Max. 100 °C

R+M Nr.	D	↔	M)*
653 135 017	035	600 mm	zinc-plated steel
653 140 017	04	600 mm	zinc-plated steel
653 145 017	045	600 mm	zinc-plated steel
653 150 017	05	600 mm	zinc-plated steel
653 155 017	055	600 mm	zinc-plated steel
653 160 017	06	600 mm	zinc-plated steel
653 165 017	065	600 mm	zinc-plated steel
653 170 017	07	600 mm	zinc-plated steel
653 180 017	08	600 mm	zinc-plated steel

Plug KW. Lance with rotating nozzle ST-456. Spray angle 20°. 200 - 350 bar. Max. 100 °C

R+M Nr.	D	↔	M)*
653 135 017 9	035	600 mm	stainless steel
653 140 017 9	04	600 mm	stainless steel
653 145 017 9	045	600 mm	stainless steel
653 150 017 9	05	600 mm	stainless steel
653 155 017 9	055	600 mm	stainless steel
653 160 017 9	06	600 mm	stainless steel
653 165 017 9	065	600 mm	stainless steel
653 170 017 9	07	600 mm	stainless steel
653 180 017 9	08	600 mm	stainless steel



A Kr

Plug KW. Lance with rotating nozzle ST-458.1. Spray angle 20°. 200 - 400 bar. Max. 100 °C

R+M Nr.	D	↔	M)*
653 835 024	035	600 mm	zinc-plated steel
653 840 024	04	600 mm	zinc-plated steel
653 845 024	045	600 mm	zinc-plated steel
653 850 024	05	600 mm	zinc-plated steel
653 855 024	055	600 mm	zinc-plated steel
653 860 024	06	600 mm	zinc-plated steel
653 865 024	065	600 mm	zinc-plated steel
653 870 024	07	600 mm	zinc-plated steel
653 880 024	08	600 mm	zinc-plated steel

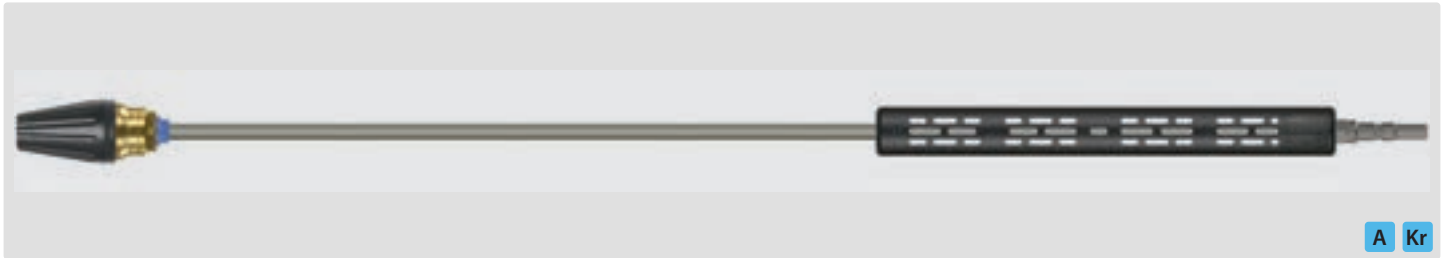
Plug KW. Lance with rotating nozzle ST-458.1. Spray angle 20°. 200 - 400 bar. Max. 100 °C

R+M Nr.	D	↔	M)*
653 835 025	035	600 mm	stainless steel
653 840 025	04	600 mm	stainless steel
653 845 025	045	600 mm	stainless steel
653 850 025	05	600 mm	stainless steel
653 855 025	055	600 mm	stainless steel
653 860 025	06	600 mm	stainless steel
653 865 025	065	600 mm	stainless steel
653 870 025	07	600 mm	stainless steel
653 880 025	08	600 mm	stainless steel

\* lance



## Suttner rotating nozzles with ceramic insert



A Kr

Plug KW. Lance with vented handle ST-9 380 mm and rotating nozzle ST-458.1. Spray angle 20°. 200 - 400 bar. Max. 100 °C

R+M Nr.	D	↔	M*
653 835 014	035	1.000 mm	zinc-plated steel
653 840 014	04	1.000 mm	zinc-plated steel
653 845 014	045	1.000 mm	zinc-plated steel
653 850 014	05	1.000 mm	zinc-plated steel
653 855 014	055	1.000 mm	zinc-plated steel
653 860 014	06	1.000 mm	zinc-plated steel
653 865 014	065	1.000 mm	zinc-plated steel
653 870 014	07	1.000 mm	zinc-plated steel
653 880 014	08	1.000 mm	zinc-plated steel

Plug KW. Lance with vented handle ST-9 380 mm and rotating nozzle ST-458.1. Spray angle 20°. 200 - 400 bar. Max. 100 °C

R+M Nr.	D	↔	M*
653 835 023	035	1.000 mm	stainless steel
653 840 023	04	1.000 mm	stainless steel
653 845 023	045	1.000 mm	stainless steel
653 850 023	05	1.000 mm	stainless steel
653 855 023	055	1.000 mm	stainless steel
653 860 023	06	1.000 mm	stainless steel
653 865 023	065	1.000 mm	stainless steel
653 870 023	07	1.000 mm	stainless steel
653 880 023	08	1.000 mm	stainless steel

## Cleantecs rotating nozzles with carbide insert

HM 500



Kit  
HM 500



K

G9/16". Spray angle 20°. Max. 500 bar / 90 °C

R+M Nr.	D
655 500 630	03

R+M Nr.
655 500 130

HM 500



Kit  
HM 500



K

M20x1. Spray angle 20°. Max. 500 bar / 90 °C

R+M Nr.	D
655 500 640	028

R+M Nr.
655 500 130

HM 500



Kit  
HM 500



K

M20x1. Spray angle 20°. Max. 500 bar / 90 °C

R+M Nr.	D
655 500 650	05

R+M Nr.
655 500 150

HM 500



Kit  
HM 500



1/4" F. Spray angle 20°. Max. 500 bar / 90 °C

R+M Nr.	D
655 500 520	02
655 500 525	025
655 500 530	03
655 500 535	035
655 500 540	04
655 500 545	045
655 500 550	05
655 500 555	055
655 500 560	06
655 500 570	07

R+M Nr.
655 500 120
655 500 125
655 500 130
655 500 135
655 500 140
655 500 145
655 500 150
655 500 155
655 500 160
655 500 170

HM 700



Kit  
HM 700



1/4" F. Spray angle 20°. Max. 700 bar / 90 °C. Delivery time of approx. 1 week

R+M Nr.	D
655 700 520	02
655 700 525	025
655 700 530	03
655 700 535	035
655 700 540	04
655 700 545	045
655 700 550	05
655 700 555	055
655 700 560	06
655 700 570	07

R+M Nr.
655 700 120
655 700 125
655 700 130
655 700 135
655 700 140
655 700 145
655 700 150
655 700 155
655 700 160
655 700 170

HM 1000



Kit  
HM 1000



1/4" F. Spray angle 20°. Max. 1,000 bar / 90 °C. Delivery time of approx. 1 week

R+M Nr.	D
655 100 520	02
655 100 525	025
655 100 530	03
655 100 535	035
655 100 540	04
655 100 545	045
655 100 550	05
655 100 555	055
655 100 560	06
655 100 570	07

R+M Nr.
655 100 120
655 100 125
655 100 130
655 100 135
655 100 140
655 100 145
655 100 150
655 100 155
655 100 160
655 100 170

\* lance

Symbols **D** nozzle **↔** length **M** material

Rotating nozzles

R+M 150



1/4" F. Spray angle 17°. 50 - 150 bar. Max. 60 °C

R+M Nr.	D
653 325	025
653 330	03
653 335	035
653 340	04
653 345	045

IP ROTOMAX



1/4" F. Housing black. Nozzle and seal kit ceramic. Adjustable spray angle. 100 - 250 bar. Max. 80 °C

R+M Nr.	DN	↔
996 050 01	1,4 mm	10 - 16 l/min
996 050 02	1,6 mm	12 - 18 l/min
996 050 03	2,0 mm	14 - 21 l/min

Vario nozzles and triple nozzles

Vario nozzles



M22 M. Lance with vario nozzle. Zinc-plated steel. Max. 200 bar / 150 °C

R+M Nr.	D	↔	[M]*
658 103 03	03	430 mm	zinc-plated steel
658 103 53	035	430 mm	zinc-plated steel
658 104 03	04	430 mm	zinc-plated steel
658 104 53	045	430 mm	zinc-plated steel
658 105 03	05	430 mm	zinc-plated steel
658 105 53	055	430 mm	zinc-plated steel
658 106 03	06	430 mm	zinc-plated steel

M22 M. Lance with vario nozzle. Stainless steel Max. 200 bar / 150 °C

R+M Nr.	D	↔	[M]*
658 103 039	03	430 mm	stainless steel
658 103 539	035	430 mm	stainless steel
658 104 039	04	430 mm	stainless steel
658 104 539	045	430 mm	stainless steel
658 105 039	05	430 mm	stainless steel
658 105 539	055	430 mm	stainless steel
658 106 039	06	430 mm	stainless steel



1/4" F. Housing black. Max. 200 bar / 150 °C

R+M Nr.	D
658 103 0	03
658 103 5	035
658 104 0	04
658 104 5	045
658 105	05
658 105 5	055
658 106	06



M18 F. Housing black. Max. 200 bar / 150 °C

R+M Nr.	D
658 103 04	03
658 103 54	035
658 104 04	04
658 104 54	045
658 105 04	05
658 105 54	055
658 106 04	06

\* lance

Functional principle vario nozzles



high pressure zero angle



high pressure broad angle



low pressure broad angle

Symbols D nozzle G inlet O outlet ↔ length M material DN nominal diameter ↔ flow

## Vario nozzles and triple nozzles



1/4" F. Housing black. Max. 250 bar / 80 °C

R+M Nr.	D
657 545	045
657 555	055
657 560	06



M18 F. Housing black. Max. 250 bar / 80 °C

R+M Nr.	D
657 545 1	045
657 555 1	055
657 560 1	06

### Functional principle triple nozzles



high pressure zero angle



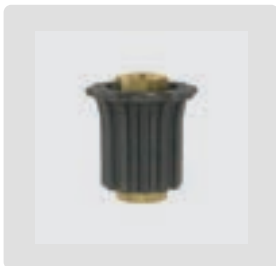
high pressure broad angle 25°



low pressure broad angle 40°

## Adjustable nozzles

### Mini adjustable nozzles



R+M Nr.	↺	↻
657 20	1/4" F	1/4" F

### R+M adjustable nozzles



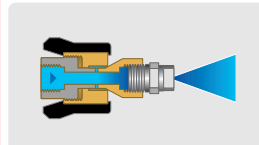
R+M Nr.	↺	↻
657 30	1/4" F	1/4" F

### ST-51 adjustable nozzles

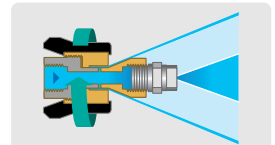


R+M Nr.	↺	↻
200 051 530	1/4" F	1/4" F

### Functional principle of a adjustable nozzle

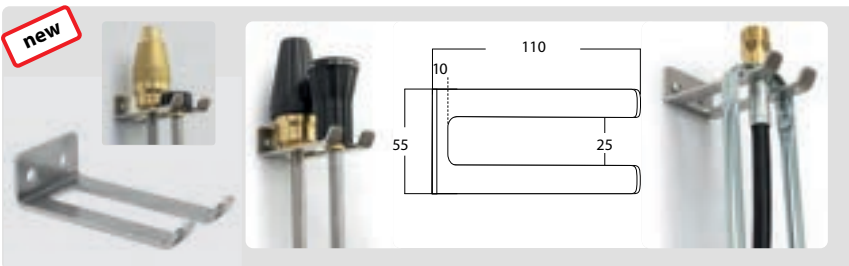


high pressure phase



low pressure phase

## Universal bracket



R+M Nr.
710 400 097

Stainless steel bracket for wall mounting

\* lance

## Flat jet lances



M22 M. Lance with nozzle protector ST-10 and nozzle. Max. 400 bar / 150 °C

R+M Nr.	D	↔	(M)*
512 903 03	2503	430 mm	zinc-plated steel
512 904 03	2504	430 mm	zinc-plated steel
512 904 53	25045	430 mm	zinc-plated steel
513 103 03	2503	500 mm	zinc-plated steel
513 104 03	2504	500 mm	zinc-plated steel
513 104 53	25045	500 mm	zinc-plated steel
513 107 53	2507	500 mm	zinc-plated steel
513 203 53	25035	600 mm	zinc-plated steel
513 204 03	2504	600 mm	zinc-plated steel
513 204 53	25045	600 mm	zinc-plated steel
513 205 03	2505	600 mm	zinc-plated steel
513 206 03	2506	600 mm	zinc-plated steel
513 207 03	2507	600 mm	zinc-plated steel
513 208 03	2508	600 mm	zinc-plated steel
513 210 03	2510	600 mm	zinc-plated steel
513 211 03	2511	600 mm	zinc-plated steel
513 212 53	25125	600 mm	zinc-plated steel

M22 M. Lance with nozzle protector ST-10 and nozzle. Max. 400 bar / 150 °C

R+M Nr.	D	↔	(M)*
512 903 039	2503	430 mm	stainless steel
512 904 039	2504	430 mm	stainless steel
512 904 539	25045	430 mm	stainless steel
513 103 039	2503	500 mm	stainless steel
513 104 039	2504	500 mm	stainless steel
513 104 539	25045	500 mm	stainless steel
513 107 539	2507	500 mm	stainless steel
513 203 539	25035	600 mm	stainless steel
513 204 039	2504	600 mm	stainless steel
513 204 539	25045	600 mm	stainless steel
513 205 039	2505	600 mm	stainless steel
513 206 039	2506	600 mm	stainless steel
513 207 039	2507	600 mm	stainless steel
513 208 039	2508	600 mm	stainless steel
513 210 039	2510	600 mm	stainless steel
513 211 039	2511	600 mm	stainless steel
513 212 539	25125	600 mm	stainless steel



Plug KW. Lance with protector ST-10 without nozzle. Max. 400 bar / 150 °C

R+M Nr.	↔	(M)*
513 100 07	500 mm	zinc-plated steel
513 200 07	600 mm	zinc-plated steel

Plug KW. Lance with protector ST-10 without nozzle. Max. 400 bar / 150 °C

R+M Nr.	↔	(M)*
513 100 079	500 mm	stainless steel
513 200 079	600 mm	stainless steel

\* lance

Symbols D nozzle ↔ length M material

## Quick connect spray nozzles

### Quick connect spray nozzles by Spraying Systems

- » Original Spraying Systems nozzles exclusively for R+M / Suttner
- » High strength plastic. Highly impact resistant.
- » Long lifetime and excellently thermal and chemical stability. Resistant to mineral acids and alkaline solutions.
- » Nipple stainless steel
- » Suitable for applications requiring a frequent and quick change of the spraying angle.
- » Max. 210 bar



Blasting nozzle. Delivers a very concentrated stream of water. **Care should be used to avoid gouging wood or damaging fragile surfaces.**

Chiseling nozzle. The spray should be directed at a 45° angle to the surface and used like a scraper to remove paint, grease and dirt.

### Quick connect spray nozzles with hardened stainless steel insert

- » High strength plastic. Highly impact resistant
- » Long lifetime and excellently thermal stability.
- » Nipple stainless steel. Nipple at black nozzle made out of brass.
- » Suitable for applications requiring a frequent and quick change of the spraying angle.
- » Max. 210 bar



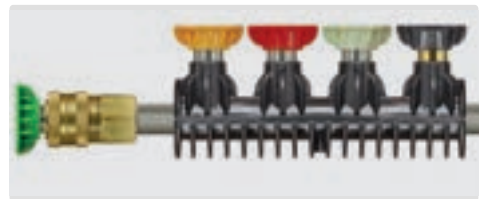
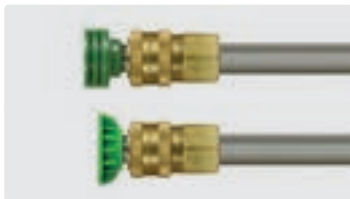
D
055
06

0°
R+M Nr.
610 608

15°
R+M Nr.
613 708

	0°	15°
D		
03	R+M Nr. 610 107	R+M Nr.
035	610 207	
04	610 307	613 307
045	610 407	613 407

## Accessories quick connect spray nozzles



Coupling 1/4" F NPT

Nipple 1/4" M NPT


Nozzle holder for quick connect spray nozzles. Suitable for 1/4" lances. Without accessories

R+M Nr.
550 001 40


R+M Nr.
550 011 40

R+M Nr.
020 002 510

## Quick connect nozzle set by Suttner

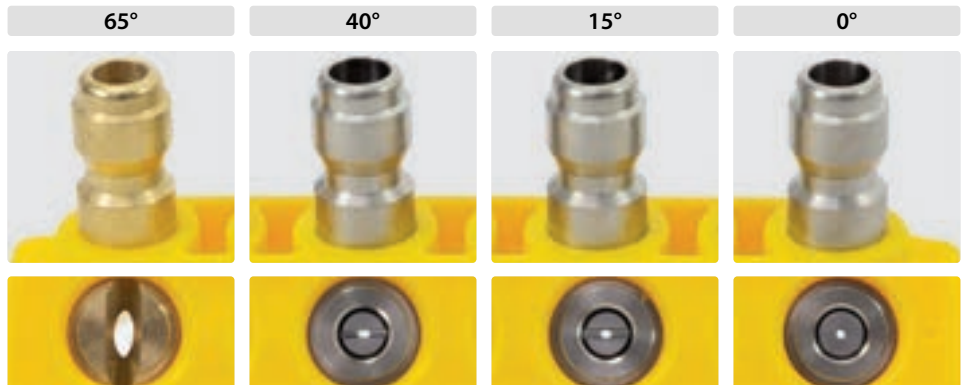
- » Consisting of:  
colored plastic holder inclusive:  
1 x Low pressure nozzle. Brass,  
1 x Flushing nozzle. Stainless steel,  
1 x Chiseling nozzle. Stainless steel,  
1 x Blasting nozzle. Stainless steel
- » High strength plastic. Highly impact resistant
- » Stainless steel nozzles: long lifetime and excellently thermal and chemical stability, resistant to mineral acids and alkaline solutions.
- » Connection ST-245 coupling,  1/4" F, R+M Nr. 200 245 500
- » Suitable for applications requiring a frequent and quick change of the spraying angle
- » Max. 350 bar



D	R+M Nr.	
030	125 852 030	ST-245
035	125 852 035	ST-245
040	125 852 040	ST-245
045	125 852 045	ST-245

### Colour coding of Suttner nozzle set holder according to nozzle size

			
030 yellow	035 purple	040 brown	045 green



**Low pressure nozzle.**  
Brass.  
Designed for prespraying detergents on all kinds of surfaces. Low pressure rinsing.

**Flushing nozzle.**  
Stainless steel.  
Best suited for flushing dirt, mud and grime.


**Chiseling nozzle.**  
Stainless steel. The spray should be directed at a 45° angle to the surface and used like a scraper to remove paint, grease and dirt.


**Blasting nozzle.** Stainless steel. Delivers a very concentrated stream of water. **Care should be used to avoid gouging wood or damaging fragile surfaces.**

## Coupling-system ST-245


### Nipple ST-245




 1/4" M.  
Stainless steel.  
Max. 350 bar


R+M Nr.	
040 005 447	27.5




 1/4" M.  
Stainless steel.  
Max. 350 bar

R+M Nr.	
040 005 446	33.5



 1/4" M. Stainless steel. Max. 350 bar. For wear cone

R+M Nr.	
040 005 445	3 42.0

### ST-245 Coupling / wear cone ST-245



R+M Nr.		
200 245 500	1	1/4" F



R+M Nr.		
200 245 510	1	3/8" M



Stainless steel.  
For 040 005 445

R+M Nr.	
040 005 431	2



POM. Red.  
For 040 005 445

R+M Nr.	
020 005 432	2



POM. Black.  
For 040 005 445

R+M Nr.	
020 005 431	2



4  
Suitable for all 1/4" F nozzles for sewer cleaning.



## Mud suckers

### The high-performance mud sucker for all standard pressure washers

extracts stones (up to 20 mm), mud, dirt, sand, algae & sediment.  
 Operating pressure min. 80 bar at 7 l/min. Suction power of approx. 8,000 to 18,000 l/h. Spiral hose: DN 38 mm, length 5 m



A

M22 M

M21 M

1/2" M

M18 M

Plug KW

⌀	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
04	545 504 0	545 514 0	545 524 0	545 534 0
045	545 504 5	545 514 5	545 524 5	545 534 5
05	545 505 0	545 515 0	545 525 0	545 535 0
055	545 505 5	545 515 5	545 525 5	545 535 5
06	545 506 0	545 516 0	545 526 0	545 536 0
065	545 506 5	545 516 5	545 526 5	545 536 5
07	545 507 0	545 517 0	545 527 0	545 537 0
08	545 508 0	545 518 0	545 528 0	545 538 0
10	545 501 0			

R+M Nr.	⌀	HP hose ⇄
545 545 5	055	5 m
545 546 0	06	5 m

#### Performance chart

high pressure cleaner		capacity of mud sucker	
P	⇄	capacity	capacity
100 bar	10 l/min	ca. 170 l/min	ca. 10,000 l/h
150 bar	12 l/min	ca. 220 l/min	ca. 13,000 l/h
200 bar	15 l/min	ca. 300 l/min	ca. 18,000 l/h

Symbols P pressure ⇄ flow ⌀ nozzle ⊕ inlet ⊖ outlet ⇄ length

## Telescopic lances and wash brushes

## Telescopic lances with coarse thread



Telescopic lances with coarse thread. Telescopic handle without water flow

R+M Nr.	↔	⊙
525 050	900 - 1,800 mm	
525 070	1,800 - 3,600 mm	
525 085	1,800 - 5,400 mm	
525 100	2,400 - 7,200 mm	



Telescopic lances with coarse thread. Telescopic handle with water flow

R+M Nr.	↔	⊙
525 200	900 - 1,800 mm	coupler plug "universal"
525 300	1,800 - 3,600 mm	coupler plug "universal"

## Wash brushes with coarse thread



Bristles 60 mm. Soft. 250 x 80 mm

R+M Nr.	VPE
525 000	1



Bristles 60 mm. Hard. 250 x 80 mm

R+M Nr.	VPE
525 010	1

## R+M EcoLine with coarse thread



Bristles 60 mm. Hard. 250 x 80 mm

R+M Nr.	VPE
525 015	1
525 016	6

## Accessories telescopic lances with coarse thread



Screw connection

R+M Nr.
525 901



Angle adaptor

R+M Nr.
525 040



Spare valve. 3/4" M : 3/4" F

R+M Nr.
726 420

Further telescopic lances are on page 304 and further wash brushes are on pages 299-301.

Symbols ⊙ thread ↔ length VPE packing unit ⊕ inlet shipment by truck

## easywash365+ wash brushes - large areas are completely clean from now on!

By means of a very wide work surface of approx. 260 x 80 mm the easywash365+ wash brush is especially designed for the efficient cleaning of large areas such as railway carriages, tramcars, omnibuses, caravans, trucks, boats and ships, facades, greenhouses as well as vehicles, motorcycles and many more.

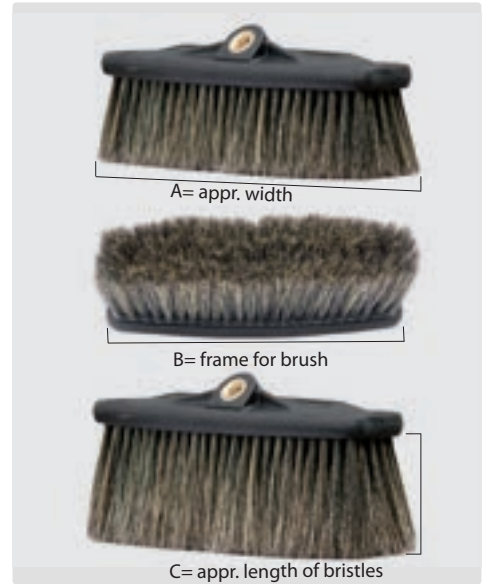
Fine and extremely soft natural bristles with split ends ensure an especially gentle cleaning of sensitive surfaces such as windows and car finish. The solid body of the easywash365+ wash brush consists of 152 bristle bundles which are attached undetachably by means of multi-component synthetic resin.

Our easywash365+ wash brush convinces all users working in the self-service foam- and prewash of an ideal and very easy handling.

The soft coating of the body made out of thermoplastic elastomer demonstrably protects sensitive surfaces from damages.

The inlet of the easywash365+ wash brush is equipped with a brass insert with 1/4" female thread which is fixed in the body. By means of an additional grub screw the high pressure lances available at self-service bays are safe from twisting and theft. Therefore, the grub screw needs to be screwed to the lance tube. **Further fastening plates or protection against theft are not required.**

13 outlet ports at the bottom of the easywash365+ wash brush enable the required water flow and guarantee a convincingly good foam quality at the same time.



### Wash brushes



A= 270. B= 260 x 80 mm. Hog hair.  
Max. 40 l/min / 60 °C

R+M Nr.	C	Ⓞ
200 023 550	60 mm	1/4" F



A= 270. B= 260 x 80 mm. Hog hair.  
Max. 40 l/min / 60 °C

R+M Nr.	C	Ⓞ
200 023 650	90 mm	1/4" F



A= 270. B= 260 x 80 mm. Hog hair / synthetic.  
Max. 40 l/min / 60 °C

R+M Nr.	C	Ⓞ
200 023 660	90 mm	1/4" F

## Wash brushes

### Wash brushes



A= 260. B= 230 x 80 mm. Hog hair.  
Max. 50 °C

R+M Nr.	C
200 023 500	60 mm
200 023 600	90 mm

### Wash brush with cover



A= 260. B= 230 x 80 mm. Hog hair.  
Max. 50 °C

R+M Nr.	C	Ⓞ
200 023 710	60 mm	1/4" F



A= 260. B= 230 x 80 mm. Hog hair.  
With stainless steel frame.  
Max. 50 °C

R+M Nr.	C	Ⓞ
200 023 735	60 mm	1/4" F



A= 260. B= 230 x 80 mm. Hog hair.  
With stainless steel frame.  
Max. 50 °C

R+M Nr.	C	Ⓞ
200 023 736	90 mm	1/4" F

### Covers



Cover suitable as theft protection for wash brushes. Plastic. Max. 50 °C

R+M Nr.	B ⇄
020 001 540	230 mm

### Frames for wash brushes



Frame with fixing bolts. Stainless steel.  
Max. 60 °C

R+M Nr.	B ⇄	Ⓞ
200 023 560	230 mm	1/4" F



Frame. Stainless steel.  
Max. 60 °C

R+M Nr.	B ⇄	Ⓞ
200 023 570	230 mm	1/4" F

Wash brushes



A= 260. B= 230 x 80 mm. Hog hair.  
Max. 50 °C

R+M Nr.	C	Ⓢ
523 703	60 mm	1/8" M



A= 260. B= 230 x 80 mm. Hog hair.  
Max. 50 °C

R+M Nr.	C	Ⓢ
200 023 700	60 mm	1/4" F



A= 260. B= 230 x 80 mm. Hog hair. With stainless steel frame. Max. 50 °C

R+M Nr.	C	Ⓢ
200 023 730	60 mm	1/4" F

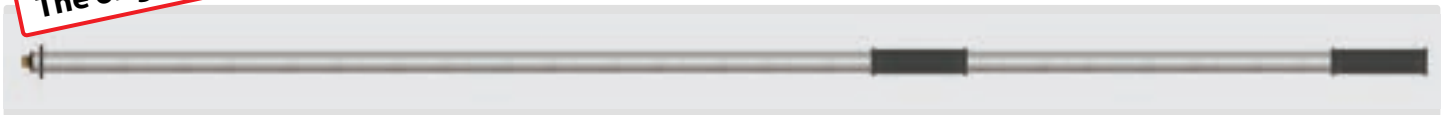


A= 260. B= 230 x 80 mm. Hog hair.  
Max. 50 °C

R+M Nr.	C	Ⓢ
523 701	60 mm	M18 x 1.5 F

The original

Vorwerk lances & wash brushes



Extension pipe with water flow

R+M Nr.	↔	Ⓢ	Ⓢ
523 790 1	1,000 mm	1/4" M	1/4" F
523 790 2	1,500 mm	1/4" M	1/4" F
523 790 3	2,000 mm	1/4" M	1/4" F

Vorwerk wash brushes



A= 300. B= 300 x 100 mm. Nylon

R+M Nr.	C	Ⓢ
523 780	60 mm	1/4" F



A= 240. B= 230 x 80 mm. Hog hair

R+M Nr.	C	Ⓢ
523 70	60 mm	1/4" F
523 75	90 mm	1/4" F

Adaptor



Adaptor for lances with coarse thread.  
Coarse thread : 1/4" M

R+M Nr.
010 003 610



Brush. A= 260. B= 230 x 80 mm.  
Hog hair

R+M Nr.	C
523 72	60 mm
523 73	90 mm



Frame. 260 mm.  
Aluminium

R+M Nr.	Ⓢ
523 76	1/4" F

Air injector



1/4" F : 1/4" M.  
Flow at 100 bar

R+M Nr.	↔	Ⓢ
108 290 60	13 l/min	1.5
108 290 20	34 l/min	2.5

Symbols ↔ length Ⓢ inlet Ⓢ outlet Ⓢ diameter Ⓢ thread Ⓢ nozzle ↔ flow



## Rotating brushes

### Brushes without hinge



1/4" M. Natural. Max. 50 bar / 50 °C

R+M Nr.
522 10



1/4" M. Nylon. Max. 50 bar / 50 °C

R+M Nr.
522 30



M18 F. Natural. Max. 50 bar / 50 °C

R+M Nr.
522 20



M18 F. Nylon. Max. 50 bar / 50 °C

R+M Nr.
522 40

### Brushes with hinge



1/4" F. Natural. Max. 50 bar / 50 °C

R+M Nr.
522 50



1/4" F. Nylon. Max. 50 bar / 50 °C

R+M Nr.
522 60



M18 F. Natural. Max. 50 bar / 50 °C

R+M Nr.
523 001

### Brushes with hinge and lance



R+M Nr.		lance
522 504	M22 M	430 mm

### Replacement brushes



Natural

R+M Nr.
524 10



Nylon

R+M Nr.
524 20

## Accessories wash brushes

### Brush with air injector turbofoam365+



Retrofit kit for lances. Air injector turbofoam365+ and brush with cover plate. 20-150 bar. Max. 50 °C

Bristles 60 mm

R+M Nr.		
500 023 101	1/4" F	1.20
500 023 102	1/4" F	1.35
500 023 105	1/4" F	1.60

Bristles 90 mm

R+M Nr.		
500 023 201	1/4" F	1.20
500 023 202	1/4" F	1.35
500 023 205	1/4" F	1.60

### Air injector



1/4" F : 1/4" M. l/min at 100 bar

R+M Nr.		
108 290 60	13 l/min	1.5
108 290 20	34 l/min	2.5

### Brush holder



With snap fit. Only works with nozzle holder 108 290 18 + 108 290 19

R+M Nr.	
108 290 15	1/4" M

### Nozzle holder



1/4" F. For brush holder 108 290 15

R+M Nr.	
108 290 18	1/8" F
108 290 19	1/4" F

**Brush holder**



Suitable for all brushes. Hole spacing 202 mm.  
H x W x D = 90 x 250 x 100 mm

R+M Nr.	(M)
108 290 30	stainless steel

**easywash365+ brush holder**



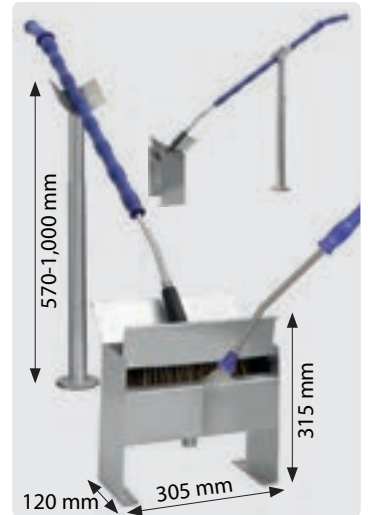
Container with overflow and lateral drain for cleaning. For wall and floor mounting. H x W x D = 670 x 340 x 143 mm

R+M Nr.	(M)
105 810	stainless steel

Wash brush holder, two-piece. For floor mounting and positioning for different length of lances.  
Pipe Ø 42 mm



R+M Nr.	(M)
105 820	stainless steel



**Self-service lances**

**Self-service lances with brush longitudinal**



Brush hog hair.

R+M Nr.	bristles
200 023 500	60 mm

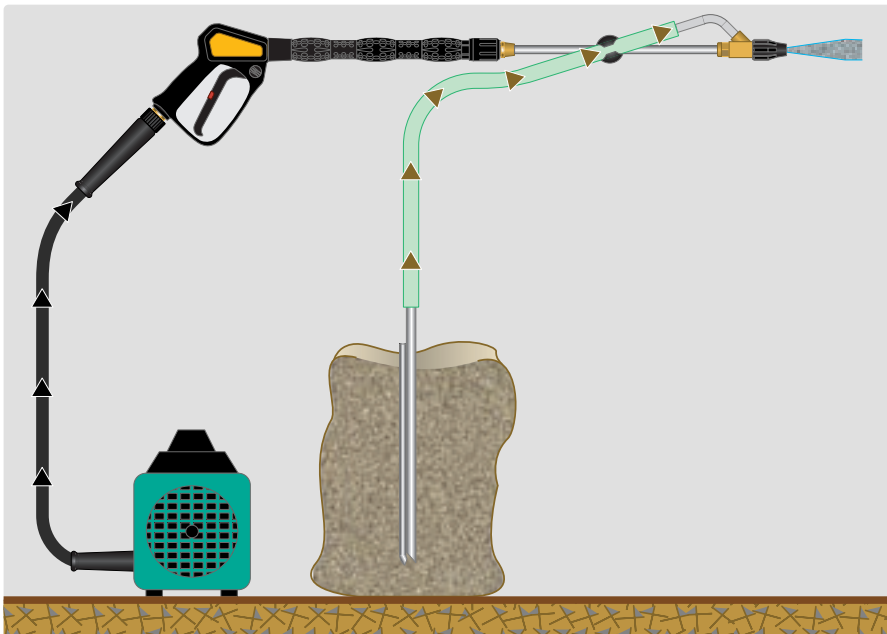
Brush with nozzle protector for nozzle 1/8" M. Without high pressure nozzle

R+M Nr.	(C)
523 960	1/8" M
523 961	1/4" M
523 962	M22 M
523 963	M22 F long nipple



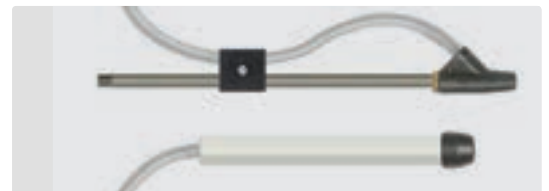
**Sandblast kits**

**Principle of function sandblast kit**

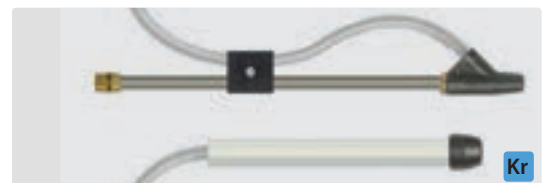


**ST-355 hobby**

Grain size of the sand 0.2 - 0.8 mm. Lance 300 mm.  
Suction hose 3 m.  
Max. 150 bar



R+M Nr.	(C)
200 355 500	1/4" m



R+M Nr.	(C)
520 93	M22 M



## Sandblast kits

### Sandblaster ST-555

M22 M. Stainless steel. Grain size of the sand 0.4 - 0.8 mm for DN 12 and 0.6 - 1.2 mm for DN 19.  
Pipe with suction quantity control and hose 4 m.  
Max. 500 bar / 100 °C



#### Rep. kits Sandblaster ST-555



3 nozzles M4. Stainless steel

D	R+M Nr.
03	200 555 430
04	200 555 440
055	200 555 455
065	200 555 465
075	200 555 475



Sand blasting nozzle

R+M Nr.
200 555 410



R+M Nr.	⊕	⊖
561 922 200	M20 F	M22 F



R+M Nr.	⊕	⊖
561 922 220	M22 F	M22 F

### One tool, six blasting agents, numerous applications:

The sandblaster is suitable for dust-free blasting of the following solids with a grain size ranging from 0.4 to 1.2 mm:

- » **Glass beads**  
for cleaning of copper and bronze as well as polishing of stainless steel
- » **Glass powder**  
for cleaning of stainless steel and natural stone or for removal of graffiti from light surfaces
- » **Slag (fine)**  
for cleaning of sandstone or brick as well as removal of graffiti from dark surfaces
- » **Slag (coarse)**  
removal of rust from metals or of old coatings and paintings. cleaning and grinding of concrete surfaces
- » **Sodium carbonate (water-soluble)**  
cleaning of sensitive surfaces such as aluminium, glass, plastics, stainless steel
- » **Mineral blasting agent (sand)**  
removal of rust from metals or of old coatings and paintings. Cleaning and grinding of concrete surfaces. Varnish removal.



R+M Nr.	⊕	D	⊖
200 555 530	12	03	2.3
200 555 540	12	04	2.3
200 555 555	12	055	2.3
200 555 565	12	065	2.3
200 555 575	12	075	2.3
200 555 630	19	03	3.1
200 555 640	19	04	3.1
200 555 655	19	055	3.1
200 555 665	19	065	3.1
200 555 675	19	075	3.1

### Sandblast head ST-55 with regulator

#### Sand nozzle ST-55



Grain size of the sand 0.2 - 0.8 mm.  
Lance 500 / 600 mm.  
Suction hose 4 / 5 m.  
With or without grip aside.  
Max. 200 bar

Hardened stainless steel

R+M Nr.
200 055 495



1/4" M lance 500 mm without grip hose 4 m	1/4" M lance 600 mm with grip hose 5 m	M22 F lance 600 mm with grip hose 5 m	M21 F lance 600 mm with grip hose 5 m	M22 M lance 600 mm with grip hose 5 m	Plug KW lance 600 mm with grip hose 5 m	M22 M lance 430 mm without grip hose 5 m	M18 F without lance without grip hose 5 m
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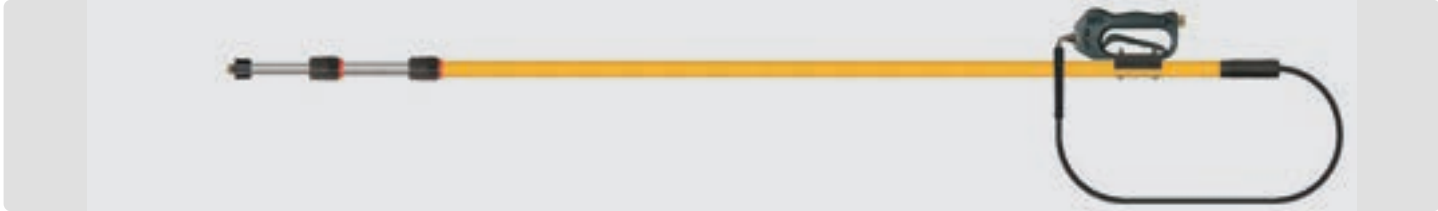
D	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
04		520 824 0	520 844 0	520 834 0	520 814 0	520 874 0	520 804 0	520 854 0
045		520 824 5	520 844 5	520 834 5	520 814 5	520 874 5	520 804 5	520 854 5
05		520 825 0	520 845 0	520 835 0	520 815 0	520 875 0	520 805 0	520 855 0
055		520 825 5	520 845 5	520 835 5	520 815 5	520 875 5	520 805 5	520 855 5
06	200 055 606	520 826 0	520 846 0	520 836 0	520 816 0	520 876 0	520 806 0	520 856 0
065		520 826 5	520 846 5 <b>K</b>	520 836 5 <b>W</b>	520 816 5	520 876 5 <b>A</b>	520 806 5 <b>Kr</b>	520 856 5 <b>K</b>

Symbols ⊕ inlet ⊖ outlet ⊕ diameter M material D nozzle ⊕ thread ⊖ weight

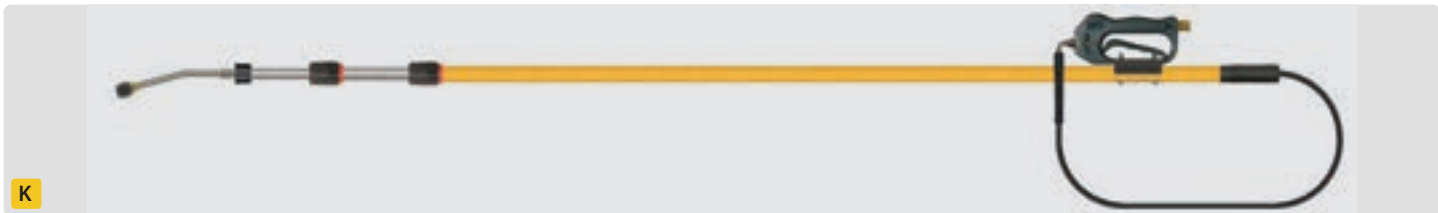
## High pressure telescopic lances

- » Light and handy. Length easily adjustable. Adjustable from 2.3 m to 7.4 m.
- » Lance with embedded high pressure hose and mounted Suttner gun ST-601. Lance without high pressure nozzle.
- » Max. 275 bar / 100 °C

**Our telescopic high pressure lances are up to 30 % lighter than comparable lances.**

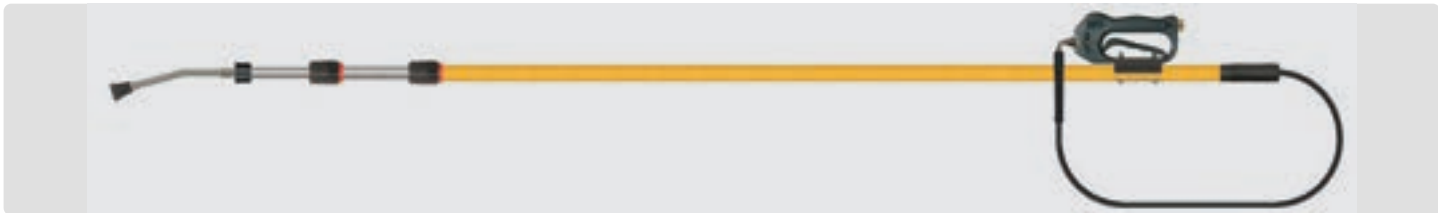


R+M Nr.	⊗	⊖	↔	⊕
525 070 8	2.4 kg	1/4" M	2.3 - 3.8 m	3/8" F
525 085 8	4.3 kg	1/4" M	2.3 - 5.6 m	3/8" F
525 100 8	5.4 kg	1/4" M	2.9 - 7.4 m	3/8" F



**K**

R+M Nr.	⊗	⊖	↔	⊕
525 070 1	2.6 kg	nozzle protector without tip	2.3 - 3.8 m	M22 M
525 085 1	4.5 kg	nozzle protector without tip	2.3 - 5.6 m	M22 M
525 100 1	5.6 kg	nozzle protector without tip	2.9 - 7.4 m	M22 M



R+M Nr.	⊗	⊖	↔	⊕
525 070 2	2.6 kg	nozzle protector ST-10 - 1/4" F NPT	2.3 - 3.8 m	3/8" F
525 085 2	4.5 kg	nozzle protector ST-10 - 1/4" F NPT	2.3 - 5.6 m	3/8" F
525 100 2	5.6 kg	nozzle protector ST-10 - 1/4" F NPT	2.9 - 7.4 m	3/8" F

## Wall cleaner

- » Rotating wall cleaner suitable for telescopic lances
- » Splash guard stainless steel with rubberlip or brush strips
- » Splash guard ⌀ 300 mm
- » Without nozzles. 2 nozzles 1/4" M with 15° spray angle are required
- » Max. 250 bar / 90 °C.

R+M Nr.	⊕	TYP	⊗
521 032 251	M22 M	rubberlip	1.9 kg
521 032 254	M22 M	brush strips	1.9 kg
521 032 256	M18 F	<b>K</b> rubberlip	1.9 kg
521 032 255	M18 F	<b>K</b> brush strips	1.9 kg
521 032 258	1/4" F	rubberlip	1.9 kg
521 032 257	1/4" F	brush strips	1.9 kg

**Screw connections**

R+M Nr.  
525 901



**turbodevil**

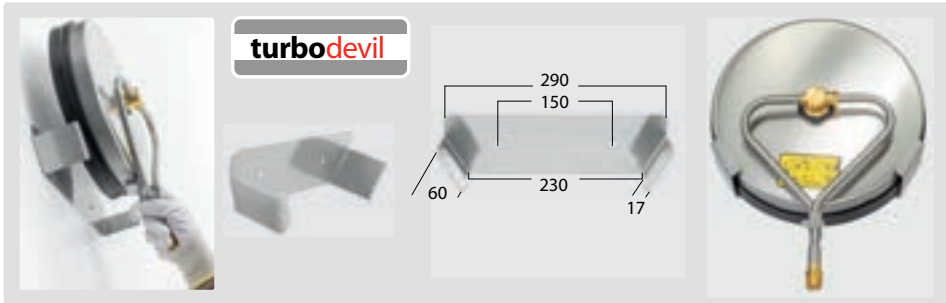
with brush strips

with rubberlip

Symbols ⊕ inlet ⊖ outlet TYP type ↔ length ⊗ weight shipment by truck ⊕ nozzle ⊖ material

## Accessories for wall cleaner

**new**



Wall bracket for wall cleaner **turbodevil**.

R+M Nr.	M	5
710 400 098	stainless steel 2 mm	502 gr

## hydroblade® Nozzle System

Set consists of nozzle holder, 6 equal nozzles and O-rings.  
Max. 400 bar / 150 °C

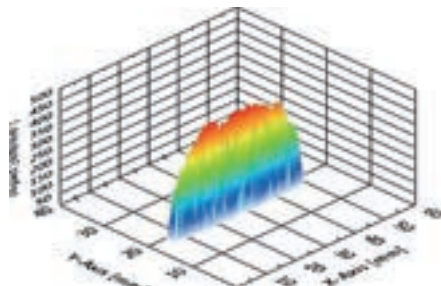
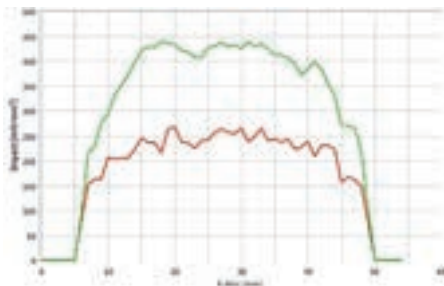
- » Strong and uniform flat jet with extraordinarily narrow jet depth
- » Application: High pressure and steam jet cleaning
- » Suitable for existing systems
- » Stainless steel



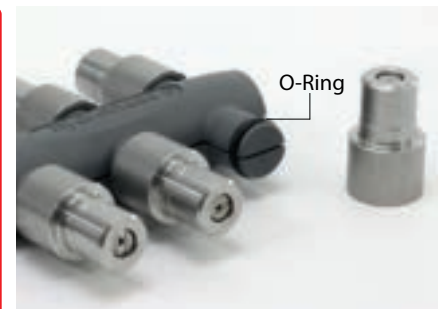
0°      15°      25°      40°

D	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
034		126 015 034	126 025 034	
040	126 100 040	126 015 040	126 025 040	126 040 040
045	126 100 045	126 015 045	126 025 045	126 040 045
050	126 100 050	126 015 050	126 025 050	126 040 050
055	126 100 055	126 015 055	126 025 055	126 040 055
060	126 100 060	126 015 060	126 025 060	126 040 060
065			126 025 065	
070		126 015 070	126 025 070	
075	126 100 075	126 015 075	126 025 075	126 040 070
080		126 015 080	126 025 080	
090			126 025 090	
100			126 025 100	

## hydroblade® Benchmark



hydroblade® flat jet nozzles feature a homogenous liquid and pressure distribution. Highly efficient jets are achieved with spray angles of up to 40°. Thanks to the flow geometry of the nozzles, a compact and controlled jet is generated.




The **hydroblade®** set consists of nozzle holder, 6 equal nozzles, and corresponding O-rings.



1/4" F : M20 M.  
Nozzle holder.  
Stainless steel

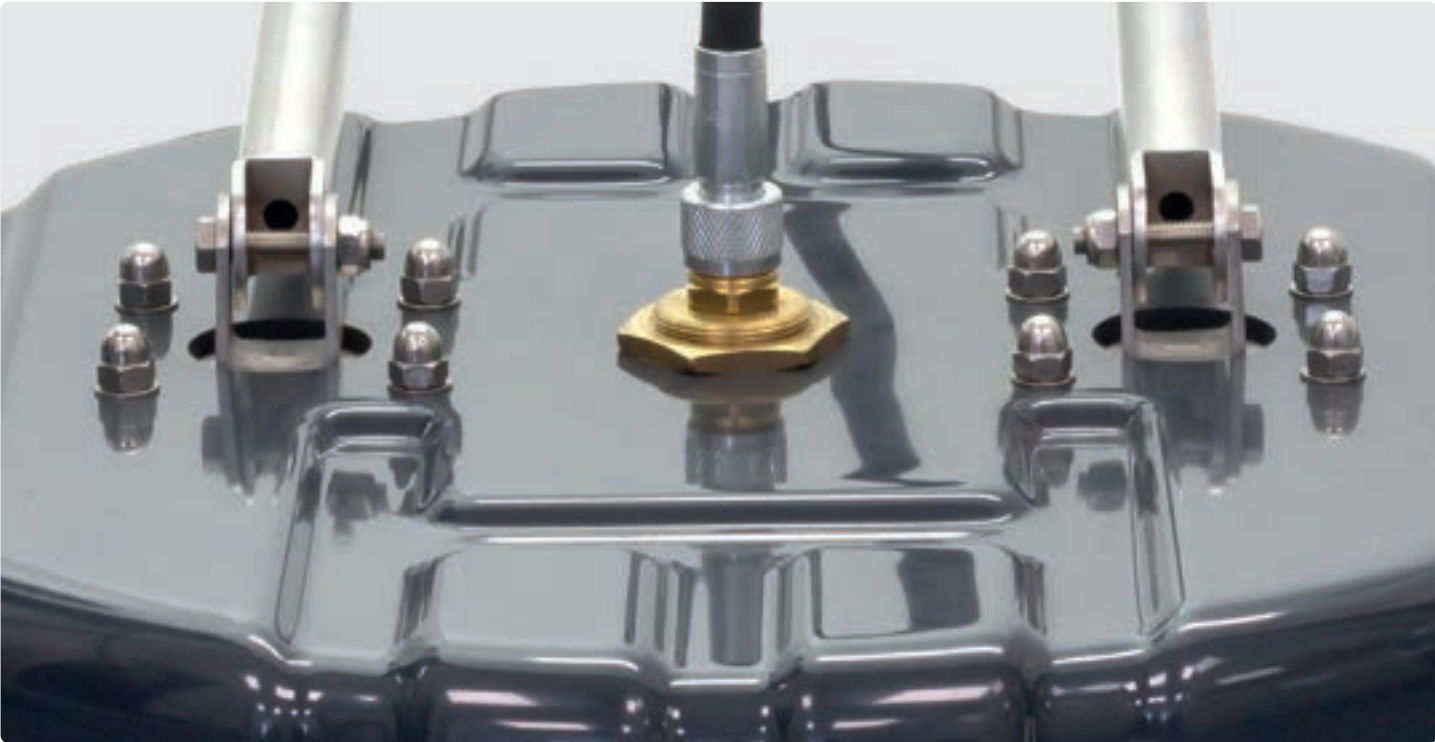
R+M Nr.
200 088 125



M20x1 F.  
Nozzle protector.  
Brass

R+M Nr.
020 000 085





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**turbodevil - our new turbodevil floor cleaner series**

**turbodevil – BASIC**

- » Especially designed for professional cleaning applications
- » Max. 60 °C. 1,000 r.p.m. at 3 - 60 °C
- » Completely stainless design
- » Heat-resistant all around protection ensures a safe handling by protection against splashes and stones
- » The precision rotor arm is counterbalanced, precisely equilibrated and welded by robots
- » Low vibration and reliable running
- » Suitable for applications up to about 150 annual operation hours are guaranteed

**Surface cleaner TD 300 BASIC**

**Surface cleaner TD 410 BASIC**



Surface cleaner with a newly developed swivel with pivoting inlet for high revolutions per minute. The bending of the swivel is variably adjustable thus making an easy cleaning of floors and walls possible. 3 industrial castors (60 mm). 2 nozzles 1/4" M are required. Max. 1,800 l/h / 60 °C. Max. 275 bar

R+M Nr.	∅	⊕	R+M Nr.	∅	⊕
521 030 300	300 mm	1/4" F	521 042 300	410 mm	1/4" F

**Surface cleaner TD 410 BASIC**



Swivel:  
With triple bearing system

ST-2600  
**LTF**

We recommend using the gun ST-2600 with patented LTF technology.

Surface cleaner with foldable handle bar for space saving and reasonable transport. Swivel with triple bearing system. 3 industrial castors (60 mm). 2 nozzles 1/4" M are required. Max. 1,800 l/h / 60 °C. Max. 275 bar

R+M Nr.	∅	⊕	P
521 042 350	410 mm	1/4" F	max. 275 bar

Symbols ⊕ inlet P pressure ∅ diameter



Newly developed:  
Swivel for high revolutions with pivoting inlet



3 or 4 industrial castors (60 mm):  
Easy and flexible steering



Precision rotor:  
Welded by robots



**Surface cleaner TD 520 BASIC**



Swivel:  
With triple bearing system

ST-2600  
**LTF**

We recommend using the gun ST-2600 with patented LTF technology.

Surface cleaner with foldable handle bar for space saving and reasonable transport. Swivel with triple bearing system. 4 industrial castors (60 mm). 2 nozzles 1/4" M are required. Max. 2,400 l/h / 60 °C

R+M Nr.	∅	⊕	P	incl.
521 052 300	520 mm	1/4" F	max. 275 bar	-
521 052 301	520 mm	3/8" F	max. 275 bar	ST-2600
521 052 304	520 mm	3/8" F	max. 275 bar	ST-2600 swivel
521 052 302	520 mm	M22 F	max. 275 bar	-
521 052 303	520 mm	Plug KW	max. 275 bar	-



## turbodevil - our new turbodevil floor cleaner series

### turbodevil - agriculture cleaner Big Wheel



**Always at hand:**  
Lance holder for attachment at the fork

easyfarm365+



**LTF**

We recommend using the gun easyfarm365+ with patented LTF technology.






**Lug:**  
The underside of the connecting tube remains on the handle



**Space-saving:**  
Divisible fork



**Large wheels:**  
For good grip



**Carefully chosen:**  
With 30 mm well equipped for slatted floors



**Extra robust:**  
Swivel with carbide sealings



**Clean solution:**  
Extra thick rubber bristles for splashback



Surface cleaner with foldable handle bar Swivel with carbide sealings. Front-mounted castor (30 mm) ideal on slatted floors. 2 large big wheels. 2 nozzles 1/4" M are required. Max. 275 bar /1.800 l/h / 120 °C

R+M Nr.	∅	G	P
521 052 900	520 mm	1/4" IG	max. 275 bar

### turbodevil – INDUSTRIAL

#### Surface cleaner TD 410 INDUSTRIAL



**Newly developed:**  
Swivel for high revolutions with pivoting inlet





Surface cleaner with a newly developed swivel with pivoting inlet for high revolutions per minute. The bending of the swivel is variably adjustable thus making an easy cleaning of floors and walls possible. 3 industrial castors (60 mm). 2 nozzles 1/4" M are required. Max. 1,800 l/h / 120 °C

- » Especially designed for industrial cleaning applications
- » For hot water use of up to 120 °C. 2.000 r.p.m. at 5 - 120 °C
- » Heat-resistant all around protection ensures a safe handling by protection against splashes and stones
- » The precision rotor arm is counterbalanced, precisely equilibrated and welded by robots
- » Low vibration and reliable running are guaranteed
- » Suitable for applications of up to 500 annual operation hours
- » Use of a especially high quality, 3-ball bearing swivel joint with ceramic sealing elements for high durability and extremely long stress
- » Castors are made out of stainless steel

R+M Nr.	∅	G	P
521 042 400	410 mm	1/4" F	max. 275 bar

**turbodevil - our new turbodevil floor cleaner series**

**Surface cleaner TD 410 INDUSTRIAL with suction system**



Surface cleaner with foldable handle bar for space saving and reasonable transport. **Very robust swivel with triple bearing system and tungsten carbide sealing elements.** 3 stainless steel industrial castors (60 mm). 2 nozzles 1/4" M are required.

R+M Nr.	∅	⊕	P
521 042 500	410 mm	1/4" F	max. 275 bar

**Precision rotor:** Welded by robots



**Suction system:** The splash guard is specially designed for the best suction.



**Swivel:** With triple bearing system

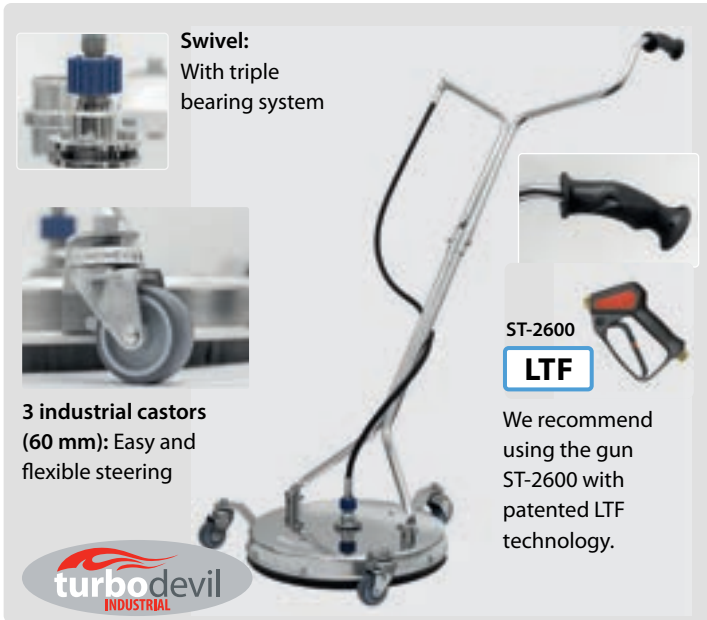


ST-2600

**LTF**

We recommend using the gun ST-2600 with patented LTF technology.

**Surface cleaner TD 410 INDUSTRIAL**



**Surface cleaner TD 520 INDUSTRIAL**



**Swivel:** With triple bearing system



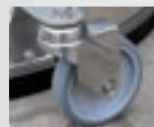
**3 industrial castors (60 mm):** Easy and flexible steering

ST-2600

**LTF**

We recommend using the gun ST-2600 with patented LTF technology.

**turbodevil INDUSTRIAL**



**4 large industry castors:** To move with ease



**Fork angle:** Variable settings

ST-2600

**LTF**

We recommend using the gun ST-2600 with patented LTF technology.

Surface cleaner with foldable handle bar for space saving and reasonable transport. Swivel with triple bearing system. 3 industrial castors (60 mm). 2 nozzles 1/4" M are required. Max. 1,800 l/h / 120 °C. Max. 275 bar

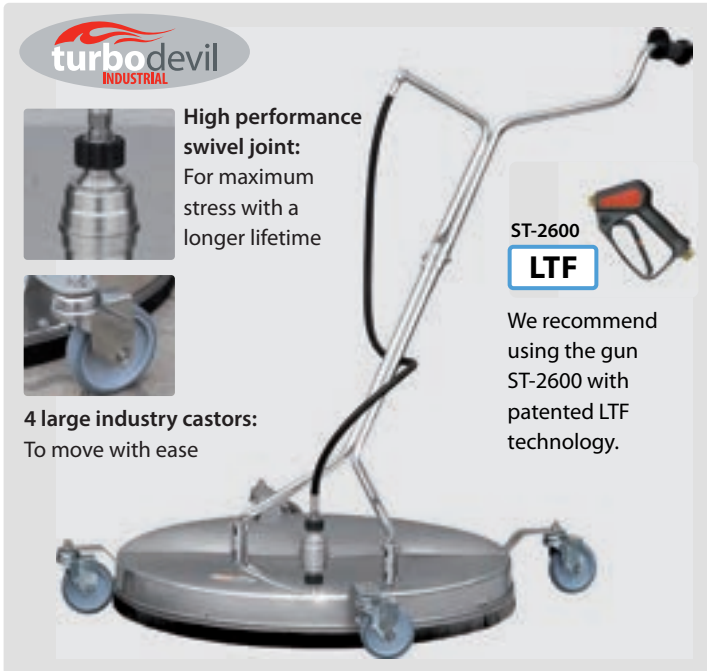
R+M Nr.	∅	⊕	P
521 042 450	410 mm	1/4" F	max. 275 bar

Surface cleaner with foldable handle bar for space saving and reasonable transport. High performance swivel, stainless steel. 4 industrial castors (60 mm). 2 nozzles 1/4" M are required. Max. 2,400 l/h / 120 °C

R+M Nr.	∅	⊕	P
521 052 400	520 mm	1/4" F	max. 275 bar

## turbodevil - our new turbodevil floor cleaner series

### Surface cleaner TD 750 INDUSTRIAL



**High performance swivel joint:**  
For maximum stress with a longer lifetime



**4 large industry castors:**  
To move with ease

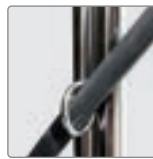
ST-2600

**LTF**

We recommend using the gun ST-2600 with patented LTF technology.

Completely stainless steel. With reinforced hood and divisible fork. High performance swivel, stainless steel. Precision rotor arm welded by robots. 4 industrial castors (100 mm). 3 nozzles 1/4" M are required. Max. 2,400 l/h / 120 °C

R+M Nr.	∅	Ⓒ	P	incl.
521 075 300	750 mm	1/4" F	max. 275 bar	-
521 075 301	750 mm	3/8" F	max. 275 bar	ST-2600
521 075 302	750 mm	M22 F	max. 275 bar	-
521 075 303	750 mm	Plug KW	max. 275 bar	-



**Lug:** The underside of the connecting tube remains on the handle



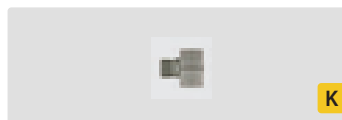
**Space-saving:**  
Divisible fork

### Accessories for TD 300 & TD 410 & TD 410 INDUSTRIAL



Lance ST-007. 1/4" M : Plug KW. Stainless steel 1,000 mm

R+M Nr.  
512 495 90



Adapter. 1/4" M : M18 F. Stainless steel

R+M Nr.  
519 70

### High pressure nozzles

1/4" M NPT, 15 °



Impact = 100 %



Lance extension. 1/4" M : M22 M. Stainless steel 500 mm

R+M Nr.  
513 129

D	R+M Nr.
02	613 05
025	613 07
03	613 10
04	613 30
045	613 40
05	613 50

## Floor cleaner heart shape



ST-2605

**LTF**

We recommend using the gun ST-2605 with patented LTF technology.

1.200 mm

## turbodevil

- » High-quality stainless steel version with lance holder at the push handle
- » **Working width 1,200 mm**
- » 3 variable rotary swivel bars with two spray nozzles each
- » 2 big industrial castors ∅ 380 mm and 1 double guide roll ∅ 160 mm
- » The integrated screen filter prevents that the nozzles get clogged
- » 6 nozzles 1/4" M BSP are required
- » Min. 150 bar / max. 350 bar
- » Min. 30 l/min. / max. 60 l/min.
- » Max. 90 °C



R+M Nr.	Ⓒ	P	°C	Ⓢ
710 100 122	1/4" F	min. 150 bar / max. 350 bar	90°	44 kg

Symbols ∅ diameter Ⓢ weight Ⓒ inlet P pressure D nozzle



## Floor cleaner Floater 520



ST-2600

LTF

We recommend using the gun ST-2600 with patented LTF technology.



new

**Space-saving storage:**  
Simply fold it up.



**ABS plastic:** Particularly robust cover with additional stainless steel reinforcement plate.

turbodevil

- » High-quality stainless steel design with robust ABS cover
- » Easy handling due to buoyancy, without additional wheels
- » Working width 520 mm
- » Robust swivel bearing system
- » The integrated screen filter prevents that the nozzles get clogged
- » 2 nozzles 1/4" M BSP are required
- » Max. 275 bar, min. 250 bar
- » Max. 22 l/min., min. 20 l/min.
- » Max. 90 °C

**Clean solution:** the integrated screen filter prevents that the nozzles get clogged.



**Robust swivel:** bearing system



**Firmly under control:** additional ergonomic handle on the handlebar.



R+M Nr.	Ⓒ	P	°C	Ⓔ
710 520 151	1/4" F	min. 150 bar / max. 350 bar	90°	44 kg

Symbols ⌀ diameter Ⓔ weight Ⓒ inlet P pressure TYP type Ⓓ nozzle

## Wall cleaner

### WW 301

- » Rotating wall cleaner suitable for telescopic lances
- » Splash guard stainless steel with rubberlip or brush strips
- » Splash guard  $\varnothing$  300 mm
- » Without nozzles. 2 nozzles 1/4" M with 15° spray angle are required
- » Max. 250 bar / 90 °C



with brush strips

with rubberlip

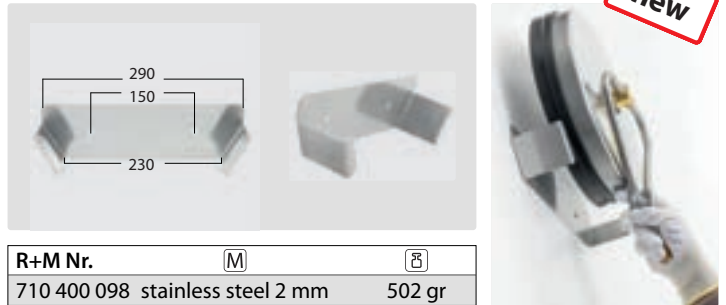
R+M Nr.	Ⓒ	TYP	⊞
521 032 251	M22 M	rubberlip	1.9 kg
521 032 254	M22 M	brush strips	1.9 kg
521 032 256	M18 F <b>K</b>	rubberlip	1.9 kg
521 032 255	M18 F <b>K</b>	brush strips	1.9 kg
521 032 258	1/4" F	rubberlip	1.9 kg
521 032 257	1/4" F	brush strips	1.9 kg



turbodevil

Wall bracket for wall cleaner turbodevil WW 301

new



R+M Nr.	Ⓜ	⊞
710 400 098	stainless steel 2 mm	502 gr

### WW 160



with brush strips

- » Rotating wall cleaner
- » Splash guard stainless steel with brush strips
- » Splash guard  $\varnothing$  160 mm
- » Without nozzles. 2 nozzles 1/4" M with 15° spray angle are required
- » Max. 350 bar / 90 °C

R+M Nr.	Ⓒ	⊞
710 100 160	M22 M	1.3 kg



turbodevil

## High pressure nozzles

### 1/4" M BSP

Impact = 100 %



15°

D	R+M Nr.
02	613 052
025	613 072
03	613 102
04	613 302
045	613 402
05	613 502

## Wall cleaner Mosmatic

## FL-ABB 200



Stainless steel. 2 flat jet nozzles 15°, 1/8" M are required.  
Min. 18 l/min / 150 bar.  
Max. 350 bar / 120 °C

- » Wall cleaner - graffiti removing by means of suction system
- » Field of application: graffiti removing, restoration of different surfaces, maintenance of buildings and exclusively designed for applications with high water pressure
- » Suitable for applications from the outside e.g. concrete, brick, lime stone buildings or wooden surfaces
- » Suitable for 50 mm suction hose
- » Our spray gun ST-2605 (202 605 500) equipped with the patented LTF system is recommended for effortless cleaning applications
- » The high pressure gun and nozzles are excluded

R+M Nr.	∅	ⓐ	ⓑ
108 780 35	200 mm	1/4" F	2.7 kg

## FL-EB 200



Stainless steel. 2 flat jet nozzles 15°, 1/8" M are required.  
Max. 275 bar / 120 °C

- » Wall cleaner - economy
- » This multifunction floor cleaner is especially designed for all applications such as brick-lined walls, boat walls, bases, stairs, sidewalks, windows etc.
- » Our spray gun ST-2605 (202 605 500) equipped with the patented LTF system is recommended for effortless cleaning applications
- » The high pressure gun and nozzles are excluded

R+M Nr.	∅	ⓐ	ⓑ
108 780 02	200 mm	1/4" F	2.7 kg

## Wall &amp; floor cleaner

## ST-97 floor cleaner



Stainless steel. Variable pressure regulation.  
Low pressure phase for chemical suction.  
4 nozzles 80° 015 included. Width 400 mm.  
Max. 250 bar / 21 l/min / 80 °C

R+M Nr.	ⓐ
200 097 500	1/4" M

## Surfer wall &amp; floor cleaner

- » Ideal for cleaning of plan walls and floors
- » Variable pressure regulation allows chemical suction
- » Wall & floor cleaner with two ergonomic hand grips for effortless wall cleaning
- » Reliable splash protection
- » Water inlet can be swivelled by up to 150°
- » Nozzles are included
- » Two lance extensions 400 mm are included
- » Inlet: Plug K hobby, Plug KW hobby, Plug F hobby und Plug Lavor hobby
- » Max. 160 bar / 8 l/min / 60 °C



R+M Nr.	∅	ⓑ
521 030 105	300 mm	1.4 kg

Symbols ∅ diameter ⓑ weight ⓐ thread ⓐ inlet ⓑ pressure



## Floor cleaner Mosmatic

### Surface cleaner FL-AHY 520 Mosmatic



Completely stainless steel. Surface cleaner with an additional frame for highest stability. A height adjustable housing including a device for extraction. Foldable handle bar for space saving and reasonable transport. 2 nozzles are required. Suitable for 50 mm suction hose. 4 industrial castors (100 mm). Max. 2,400 l/h / 120 °C

R+M Nr.	∅	G	P
108 809 71	520 mm	1/4" F	max. 500 bar

### Surface cleaner FL-SAR 300 Mosmatic

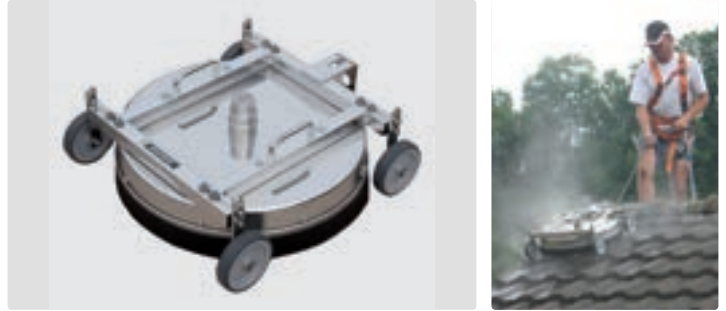


Surface cleaner AQUA with recovery. Complete with integrated suction system, spray gun and nozzles. Recovery Port: 40 mm  
Designed for 150 bar / 15 l / min. The black anodized aluminum suction device collects the dirty water via a Venturi and double housing system. It can then be led away via a commercially available suction hose. The use of a vacuum system is no longer needed.  
Max. 275 bar / 120 °C.

**Not suitable for paved areas.**

R+M Nr.	∅	G	P
108 782 43	300 mm	3/8" F	max. 275 bar

### Roof cleaner DR-520 Mosmatic



Completely stainless steel. Roof cleaner with an additional frame for highest stability. Adjustable in width of up to 90 mm and in height of up to 33 mm. Including a safety loop for the safety rope with clippers. The use of the ST-550 foot valve is recommended. 4 industrial castors (125 mm).  
Max. 2,400 l/h / 120 °C

R+M Nr.	∅	G	P
108 809 72	520 mm	3/8" F	max. 350 bar
108 809 73	520 mm	3/8" F	max. 500 bar

**The accident prevention regulations of the Employer's Liability Insurance Association regarding "the use of high pressure cleaner" (BGV D15) & "tasks with liquid jets" (BGV D26) in addition to DIN EN 60335-2-79 and DIN EN 1829-1 prescribe that manually guided spray units (like roof cleaners) shall be provided with a manually-actuated control for release of the cleaning solution.**

### Surface and underbody cleaner Hurricane Flip, 2 - in - 1 Mosmatic

The Mosmatic Hurricane Flip can be used as surface cleaner and underbody wash, all in one unit.  
The Hurricane Flip can be converted from a floor cleaner to an undercarriage cleaner in just a few simple steps. The proven toggle joint makes easy and effortless cleaning possible. Positioned on the side of the housing, this special design enables cleaning under the vehicle.  
With 3 stainless steel castors  $\varnothing$  60 mm.  
Incl. 2 high-pressure nozzles ex works for e.g. 15 l / min. at 130 bar or 18 l/min. at 175 bar.  
Max. 275 bar / 120 °C.



**Toggle joint:**  
Thanks to the low profile, the vehicle does not need to be lifted on a platform to be cleaned.

R+M Nr.	∅	G	P
108 786 02	300 mm	3/8" F	max. 275 bar

### Surface cleaner Aqua Pro with integrated water recovery system, Mosmatic



LTF

- » The new Mosmatic Aqua Pro with an integrated water recovery system. This surface cleaner does not require an external industrial vacuum. Thanks to the venturi nozzle that is attached directly to the housing, waste water can be discharged with a standard vac hose. The Aqua Pro can clean and recover individually, or both at the same time.
- » Integrated recovery: The black anodized aluminum suction device collects the wastewater via the Venturi and double housing principal. Mount your export hose on the suction device and place it into the desired port to drain the water. The use of a vacuum system is no longer needed.
- » Adjustable height: Stainless steel frame for additional stability. Optimize your cleaning results with the height adjustable housing.
- » Stainless steel swivel castors: (Premium Quality) Four 4" stainless steel swivel castors with custom mounting brackets, ensure easy maneuvering even in confined spaces.
- » 2 spray guns ST-2605 equipped with the patented LTF technology
- » Incl. 2+1 high-pressure nozzles ex works, size 03 for 180 bar with 25 l/min. Optionally available on request: 2+1 high-pressure nozzles, size 02 as a set for 170 bar with 15 l/min.
- » Max. 350 bar / 120° C. **Not suitable for paved areas.**

R+M Nr.	∅	C	P
108 807 69	520 mm	3/8" F	max. 350 bar

### Surface cleaner with air recovery system and integrated gum remover, Mosmatic



LTF



- » Such as the other devices of the FL-AH series the new FL-AH-KAU is a record performance regarding quality, finish and excellent cleaning result. We do not know anybody who has not yet seen places such as railway stations, stadiums, schools and many more which are covered with hundreds of chewing gums. This development is the best solution against this appearance!
- » In order to ensure an effective removal of the gums the special nozzle is positioned behind the stainless steel cap. The surface is cleaned in a conventional way by means of the gun which is mounted at the right side. In case of removing stubborn dirt e.g. chewing gums the special nozzle is switched on by the gun mounted at the left side. The gums are cut up and totally removed by the hp jets and finally sucked in.
- » By means of four 100 mm plastic rolls the surface cleaner can be easily moved.
- » The frame as well as all mounting parts made out of stainless steel offer additional stability. Best cleaning results are achieved due to the height adjustable housing.
- » The swivel has reinforced self-lubricating stainless steel ball bearings and a dual spring based carbide seal system especially designed for higher revs. This combination guarantees a very long durability.
- » 2 spray guns ST-2605 equipped with the patented LTF technology, 2 hp nozzles 15° 03 and a special nozzle for the removal of chewing gums are included. Further nozzle sizes are available on request.
- » Suitable for 50 mm suction hose. Suction hose is excluded.
- » Max. 350 bar / 120 °C. Min. 15 l/min / 250 bar

R+M Nr.	∅	C	⊞
108 809 61	520 mm	3/8" F	20 kg

**LTF - Low Trigger Force 90 % reduced holding force and 40 % reduced trigger force against usual market guns.**

## Rotor arms Mosmatic

- » Completely made out of stainless steel. Light, rugged and welded by robots. Available as part or surface cleaner.
- » Further versions are available on request.
- » Inlet 3/8" F.
- » Outlet: 1/4" F
- » Max. 250 bar / 120 °C



R+M Nr.	∅
108 827 05	100 mm
108 827 07	200 mm
108 827 09	300 mm
108 827 11	400 mm
108 829 75	470 mm
108 827 13	500 mm
108 827 15	600 mm

## ST-550 foot valves



Housing stainless steel. Valve stainless steel. Rubber feet. Max. 500 bar / 80 l/min / 150 °C

R+M Nr.	⊖	⊕
200 550 600	1/4" F	1/4" F
200 550 620	M22 F	M22 M

## Cleaning head TRS, Mosmatic

- » If water pressure is produced the rotor arms start turning by themselves. The arm rotates by means of the repulsive force of the water jet and does not need any additional drive.
- » Completely made out of stainless steel, with swivel DYT.
- » Nozzles are excluded. 4 EG nozzle tips are required.



Inlet 3/8" F.  
Max. 170 bar / 120 °C

R+M Nr.
108 819 19

## Surface cleaner with recovery system for steam generator, Mosmatic

The surface cleaner FL-DAR is the newest innovation from Mosmatic. It is possible to clean walls and other surfaces with steam and keep them dry. Save time! Steam cleaning is a great way to disinfect, sterilize or degrease surfaces. By using this cleaner you are able to clean 4-5 times quicker than by using a lance. The FL-DAR can be used with steam up to 180 °C and a ø

200 mm hand held model or a ø 300 mm floor model with wand are available. Both cleaner are equipped with nozzles. The complete stainless steel construction makes them perfect for the medical and food industry. Best performance with 10 kW steam generator. Delivery: 2 - 3 weeks

### FL-DAR 200



#### PA castors

The castors allow free movement in any direction while having the same distance from the nozzles to the surface. The castors are made out of PA thus being suitable for the food industry.

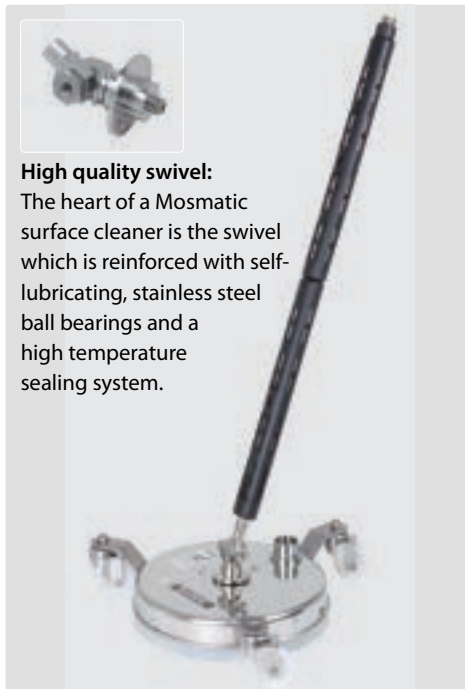


#### Splash protection

The plastic rim guard prevents over spray and flying debris. It is extremely effective due to the wavy design.

R+M Nr.	∅	⊕	⊖	⊞
108 780 91	200 mm	M22 x 1.5		2.5 kg

### FL-DAR 300



#### High quality swivel:

The heart of a Mosmatic surface cleaner is the swivel which is reinforced with self-lubricating, stainless steel ball bearings and a high temperature sealing system.



R+M Nr.	∅	⊕	⊖	⊞
108 781 91	300 mm	M22 x 1.5		4.0 kg

Symbols ∅ diameter ⊕ inlet ⊖ outlet ⊞ weight P pressure

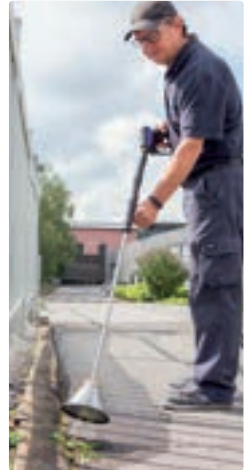


**weeddevil® – Our new device for weed control**

- » Ideal for professional service provider in the garden-, municipal and building cleaning industry
- » Completely made out of stainless steel
- » For hot water use of up to 120 °C, 0 - 350 bar
- » Suitable for low and high pressure applications
- » A working width of 400 mm
- » 1/4" nozzles have the ideal spraying angle of 65°
- » swivelling application on sloping and vertical areas is possible

**weeddevil®**

**Completely chemical-free!**



**At the underside:** concentrated and well-directed hot water without any temperature loss by an optimally designed housing having a perfect cleaning distance.

ST-2605  
**LTF**

Our spray gun ST-2605 with the patented LTF technology is recommended for effortless working.

- » Completely made out of stainless steel
- » For hot water use of up to 120 °C
- » For use in low pressure application
- » Working width 150 mm
- » Extremely robust and lightweight with 0.52 kg
- » Ideal for individual treatment



R+M Nr.	Ⓒ	Ⓘ	⊙	Ⓜ
500 097 100	1/4" F	150	120	stainless steel / brass
500 097 101	M18x1,5 F	150	120	stainless steel / brass
500 097 102	TR20x6 F	150	120	stainless steel / brass



**weeddevil lance with cone with ST-29.2 Cool & Compact with side handle.** Pleasantly ergonomic handle with 400 mm insulation.

For pumps up to max. 25 l / min.: If necessary, the flow restrictor 200 097 750 has to be used

R+M Nr.	Ⓒ	↔	⊙	Ⓜ
500 097 103	1/4" M	1.150	120	stainless steel / brass

4 nozzles 1/4" M are required. 2 robustly industrial castors (260 mm). Max. 120 °C

R+M Nr.	Ⓜ	castors ⊙	working- ↔	Ⓒ	↻	P	°C	Ⓢ	Ⓘ / ↔
200 097 700	stainl. steel	260 mm	400 mm	1/4" F	4 x 1/4" F	max. 350 bar	120 °C	7.4 kg	1,250 / 530 mm

**Accessories thermometer**



Easy mounting with counter plate and screws (incl.), or with back spring. 0 - 120 °C

R+M Nr.	tube- ⊙
200 097 420	16 mm (weeddevil®)
200 097 425	13 mm (1/4")

**Accessories flow restrictor**



Flow restrictor for water reduction. Incl. adapter and nozzles (1.0 / 1.1 / 1.2 / 1.3 / 1.4)

R+M Nr.	Ⓒ	↻
200 097 750	1/4" M	1/4" M / M22 F

**Symbols** Ⓜ material ⊙ diameter (mm) Ⓒ inlet ↻ outlet ↔ width (mm) Ⓘ height (mm) °C temperature Ⓢ weight































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
















**Foam Chart**

Determine the foam components you need!















**1. INJECTOR UNIT WITHOUT COMPRESSED AIR**


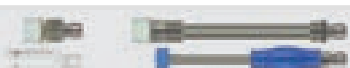





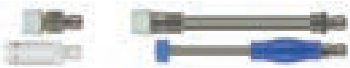


	name	food grade	chemical	flow rate	bypass rinse option	adjustable metering	other options	page
	ST-60.1	-		6-20 l/min	-			346
	ST-160	✓		6-60 l/min	-			347
	ST-160 ST-161	✓		6-60 l/min	-			347
	ST-166	✓		6-60 l/min	-			347
	ST-167	✓		6-80 l/min	rinse 			355
	ST-167	✓		6-80 l/min	rinse 		suitable for extreme conditions	355
	ST-167 ST-161	✓		6-80 l/min	rinse 			355
	ST-164	✓		6-80 l/min	disinfection foam rinse 			359



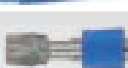



**1. COMPRESSED AIR INJECTOR**

	ST-160.2	✓		4-80 l/min	-			349
	ST-160.3	✓		4-120 l/min	-			349
	ST-168	✓		4-80 l/min	rinse 			357
	ST-168 ST-161	✓		4-80 l/min	rinse 			357
	ST-164	✓		4-80 l/min	disinfection foam rinse 			359
	ST-164	✓		4-80 l/min	disinfection foam rinse 		water inlet pressure - sensitive air intake	352, 359
	ST-162	✓		4-80 l/min	rinse 			357






2. FOAM UNIT WITHOUT COMPRESSED AIR							
	name	food grade	under 25 l/min.	above 25 l/min.	foam lance	LTF technology	page
	ST-2300	-	✓	-		-	202, 336, 337
	ST-2600	-	✓	-		LTF	203, 336, 337
	ST-2600	-	✓	-		LTF	337, 341
	ST-2620	-	-	✓		LTF	209, 336, 338
	ST-3500	-	-	✓		-	224, 338
	ST-2700	✓	✓	-		LTF	216, 337
	ST-3300	✓	-	-		-	218, 338

2. FOAM UNIT FOR FOAMING WITH COMPRESSED AIR							
	name	food grade	under 15 l/min.	above 15 l/min.	foam lance	LTF technology	page
	ST-2720	✓	✓	-		LTF	217, 326, 327
	ST-2725	✓	✓	-		LTF	217, 326, 327
	ST-3300	✓	✓	-		-	218, 326, 327
	ST-3100	✓	✓	-		-	218, 326, 327
	ST-3225	✓	✓	-		LTF	215, 326, 327

3. FOAM LANCES (WITHOUT COMPRESSED AIR)					
	Name	Food Grade	Below 25 l/min.	Above 25 l/min.	Page
	ST-73.1	-	✓	✓	361
	ST-73.2 without foampad	-	✓	✓	362
	ST-75	-	✓	-	337
	ST-75 without foampad	-	✓	-	337
	ST-75	✓	✓	-	337
	ST-75 SS	✓	✓	-	337
	ST-75.2	-	✓	✓	338
	ST-76	-	-	✓	338
	ST-72	-	✓	-	336
	ST-175	-	✓	-	339

**LTF - Low Trigger Force**  
 90 % reduced holding force and  
 40 % reduced trigger force against usual  
 market guns.

-  foaming agent
-  foaming agent and disinfectant
-  very aggressive chemical

Suttner spray guns

ST-2700 KW



LTF



Professional gun with patented LTF technology. Stainless steel. Gun with coupling KW. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 700 560	coupling KW	3/8" F

ST-2700 KW



LTF



Professional gun with patented LTF technology. Stainless steel. Gun with coupling KW. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 700 575	coupling KW	3/8" F swivel

ST-2700 KW



LTF



Professional gun with patented LTF technology. Stainless steel. Gun with coupling KW. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 700 565	coupling KW	M22 M

LTF - Low Trigger Force 90 % reduced holding force and 40 % reduced trigger force against usual market guns.

ST-2700



LTF



Professional gun with patented LTF technology. Stainless steel. Gun for industrial cleaning applications. Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 700 500	1/4" F	3/8" F

ST-2715



LTF



Professional gun with patented LTF technology. Stainless steel. Ceramic ball, chemically resistant valve and acid-resistant stainless steel seal seat. Gun for industrial cleaning applications with abrasive mediums. Max. 350 bar / 45 l/min / 150 °C

R+M Nr.		
202 715 500	1/4" F	3/8" F

ST-2720



LTF



Professional gun with patented LTF technology. Stainless steel. Particularly designed for high flow rates. Suitable for e.g. municipal cleaning applications. Max. 125 bar / 80 l/min / 150 °C

R+M Nr.		
202 720 500	1/4" F	3/8" F



Made out of plastics intended to come into contact with foodstuffs according to Regulation (EC) No. 1935/2004. Especially designed for applications in the food industry.



Valves complete



ST-2700

R+M Nr.
202 700 490



ST-2715. Ceramic ball

R+M Nr.
202 700 445



ST-2720

R+M Nr.
202 710 490



ST-2725

R+M Nr.
202 725 490

ST-340 swivels



1/4" F : 1/2" F

R+M Nr.
200 340 050



Repair kit ST-340

R+M Nr.
200 340 100

Symbols outlet inlet

## Suttner foam guns

ST-2725 with coupling ST-3100



LTF



Professional gun with patented LTF technology and progressive closing system. Gun with coupling ST-3100. Field of application: foam and rinsing applications in the food industry etc. Stainless steel. Chemically resistant valve piston stainless steel. PEEK seat. Max. 80 bar / 80 l/min / 150 °C

R+M Nr.		
202 725 550	coupling ST-3100	1/2" F swivel

ST-2725



LTF



Professional gun with patented LTF technology and progressive closing system. Field of application: foam and rinsing applications in the food industry etc. Stainless steel. Chemically resistant valve piston stainless steel. PEEK seat. Max. 80 bar / 80 l/min / 150 °C

R+M Nr.		
202 725 535	1/2" F	1/2" F swivel

ST-2720



LTF



Professional gun with patented LTF technology. Stainless steel. Suitable for e.g. high flow rates in the food industry. PEEK valve cone enables use in low pressure. Max. 125 bar / 80 l/min / 150 °C

R+M Nr.		
202 720 530	3/8" F	1/2" F

ST-2720 with coupling ST-3100



LTF



Professional gun with patented LTF technology. Gun with coupling ST-3100. Stainless steel. Suitable for e.g. high flow rates in the food industry. PEEK valve cone enables use in low pressure. Max. 125 bar / 80 l/min / 150 °C

R+M Nr.		
202 720 550	coupling ST-3100	1/2" F swivel

ST-2620



LTF

Professional gun with patented LTF technology. Gun with insulated stainless steel lance 300 mm and nozzle 50° 200. Gun brass. Lance stainless steel. Field of application: foam applications in the prewash of vehicles etc. Max. 125 bar / 80 l/min / 150 °C

R+M Nr.		
202 620 910	nozzle 50° 200	1/2" F swivel

## Wall mount



Stainless steel. Wall mount for Suttner high pressure guns with lance or twin lance

R+M Nr.
040 002 055



Made out of plastics intended to come into contact with foodstuffs according to Regulation (EC) No. 1935/2004. Especially designed for applications in the food industry.



**LTF - Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.

**Suttner foam guns**

**ST-3100**



Professional gun with progressive closing system. Gun with coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 100 l/min / 150 °C

R+M Nr.		
203 100 805	coupling ST-3100	1/2" F swivel



Professional gun with progressive closing system. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 100 l/min / 150 °C

R+M Nr.		
203 100 840	3/8" F	1/2" F



Professional gun with progressive closing system. Gun with coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 100 l/min / 150 °C

R+M Nr.		
203 100 810	coupling ST-3100	1/2" F

**ST-3100**



Professional gun with progressive closing system. Gun with coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 100 l/min / 150 °C

R+M Nr.		
203 100 820	coupling ST-3100	1/2" F

**ST-340**



1/2" M : 1/2" F

R+M Nr.
200 340 010



Repair kit ST-340

R+M Nr.
200 340 100

**ST-3100**



Seal kit

R+M Nr.
203 100 400

**ST-3300**



Seal kit

R+M Nr.
203 300 490

**ST-3300**



Professional high-flow gun. Gun with coupling ST-45. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Max. 150 bar / 100 l/min / 150 °C

R+M Nr.		
203 300 500	coupling ST-45	1/2" F



Professional high-flow gun. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Max. 150 bar / 100 l/min / 150 °C

R+M Nr.		
203 300 510	1/2" F	1/2" F

**Lance holder**



Stainless steel. Wall mount for 5 lances

R+M Nr.
040 003 830

Symbols outlet inlet

## Suttner foam guns

### ST-3225 HP



**LTF**



Professional hp gun with progressive closing system and coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 120 l/min / 100 °C

R+M Nr.	☺	☺
203 225 550	coupling ST-3100	1/2" F swivel



**LTF**



Professional hp gun with progressive closing system. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 120 l/min / 100 °C

R+M Nr.	☺	☺
203 225 545	1/2" F	1/2" F swivel



**LTF**



Professional hp gun with coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 60 bar / 120 l/min / 100 °C

R+M Nr.	☺	☺
203 225 540	coupling ST-3100	1/2" F swivel

### ST-3225 LP



**LTF**



Professional gun with progressive closing system, locking in opened position and coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 24.5 bar / 120 l/min / 100 °C

R+M Nr.	☺	☺
203 225 650	coupling ST-3100	1/2" F swivel



**LTF**



Professional gun with progressive closing system and locking in opened position. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 24.5 bar / 120 l/min / 100 °C

R+M Nr.	☺	☺
203 225 645	1/2" F	1/2" F swivel



**LTF**



Professional gun with locking in opened position and coupling ST-3100. Stainless steel. Field of application: foam and rinsing applications in the food industry etc. Industry standard. Max. 24.5 bar / 120 l/min / 100 °C

R+M Nr.	☺	☺
203 225 640	coupling ST-3100	1/2" F swivel



## Foam lances

## Foam lance with insulated grip



ST-3100 connector. 280 mm foam lance made of stainless steel with 100 mm insulation and nozzle protection ST-11 with nozzle.

Max. 250 bar / 150 °C

R+M Nr.	D	ISO	M	↔
200 129 183	15° 20	100 mm	stainless steel	280 mm

## ST-74 foam lances with air injector



1/4" F. Foam lance stainless steel with air injector and stainless steel socket with nozzle 40° 150. Max. 90 °C

R+M Nr.	D	air injector	⊗	M	↔
200 074 505	2.1 mm	0.8 kg	stainless steel	530 mm	
200 074 500	2.3 mm	0.8 kg	stainless steel	530 mm	

## Foam Nozzle Polypropylene



Max. 45 bar / 60 °C

R+M Nr.	D	⊗	Ⓒ	↔
203 100 920	50° 200	0.43 kg	plug ST-3100	75 mm
203 100 910	50° 200	0.42 kg	1/2" M	75 mm

## Foam lance, bended with insulated grip



ST-3100 connector. 280 mm bended foam lance made of stainless steel with 100 mm insulation and nozzle protection ST-11 with nozzle

Max. 250 bar / 150 °C

R+M Nr.	D	ISO	M	↔
200 129 184	15° 20	100 mm	stainless steel	280 mm

## Foam lance ST-3100

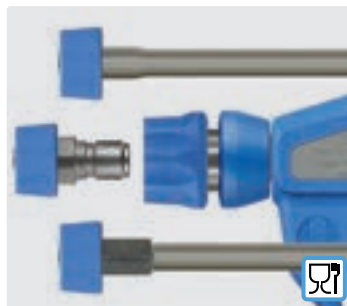


Plug ST-3100. Foam lance stainless steel 300 mm with foam nozzle 50° 200

R+M Nr.	D	ISO	M	↔
203 100 630	50° 200	-	stainless steel	300 mm



## Nozzle protector ST-11



- » The nozzle protector ST-11 is suitable for nozzles 1/4" M.
- » Made out of plastics intended to come into contact with foodstuffs according to Regulation (EC) No. 1935/2004.
- » It is clamped undetachably between the nozzle and the nozzle sleeve.

R+M Nr.	Ⓒ
020 001 124	white
020 001 149	blue
020 001 121	red
020 001 122	green

R+M Nr.	Ⓒ
020 001 123	yellow
020 001 157	grey
020 001 158	black



## Foam lances

### Spare parts ST-3100



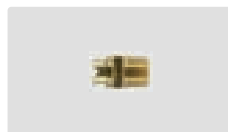
Plug ST-3100 with foam nozzle 50° 200

R+M Nr.
502 808



Plug: 1/2" F. Stainless steel. Max. 250 bar / 150 °C

R+M Nr.	ⓘ
040 005 661	47 mm



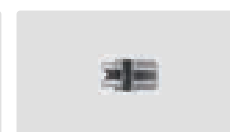
1/2" M. Brass. Foam nozzle

R+M Nr.	ⓓ
502 803 1	50° 200
626 304	65° 100



1/2" M BSP. Stainless steel. Foam nozzle

R+M Nr.	ⓓ
500 101 3	50° 200



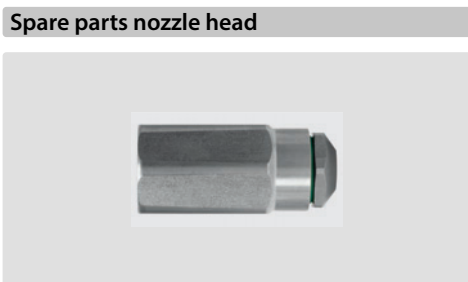
1/2" M NPT. Stainless steel. Foam nozzle

R+M Nr.	ⓓ
502 803 19	50° 200



Nozzle protector

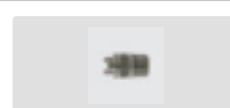
R+M Nr.
020 001 148



### Spare parts nozzle head

3/8" F : 1/4" F. Stainless steel. Nozzle head without nozzle

R+M Nr.
200 072 491



3/8" M. Stainless steel

R+M Nr.	ⓓ
623 401 509	40° 150



3/8" M. Stainless steel. For lance ST-72.1 / 72

R+M Nr.	ⓓ
120 501 204	50° 120

### Splash guard

#### ST-29 Cool & Compact with splash guard



Lance with insulation ST-29 Cool & Compact. Pleasantly ergonomic shaped handle. Closed surface. With splash guard, adjustable with thumbscrew. Max. 400 bar / 80 °C

R+M Nr.	Ⓞ	ISO	↔	M
200 029 350	1/4" M	300 mm	900 mm	stainless steel



PVC splash guard, with thumb screw adjustable stainless steel holder for attachment to lances. Max. 80 °C

R+M Nr.	Ⓞ
200 029 351	200 mm

### Spare parts



Plastic. Stainless steel

R+M Nr.
200 010 740



2 x 1/4" F : 1/4" F. ST-58 change-over valve. Max. 350 bar / 45 l/min

R+M Nr.
200 058 600



1/4" F : 1/4" F. Stainless steel. Socket

R+M Nr.
040 004 100



1/4" F NPT : 3/8" F. Stainless steel. Socket

R+M Nr.
710 101 350

### Chemistry Glove Solvex®



Category III -Protection Glove AlphaTec® Solvex®37-675. Very durable nitrile glove for use with hazardous chemicals. The reversed lozenge finish further enhances levels of grip. Cotton-flock liner to the glove

R+M Nr.	VPE	Ⓢ	size	↔
956 067 511	1 pair	0.38	11	330 mm
956 167 511	12 pairs	0.38	11	330 mm
956 267 511	144 pairs	0.38	11	330 mm



Plug ST-3100. Plug with nozzle protector ST-10 and nozzle 40° 30

R+M Nr.
502 807

Symbols ↔ length ISO insulation ⓓ nozzle M material VPE packing unit ⓘ height Ⓢ thickness mm Ⓞ diameter °C temperature

**Suttner high pressure quick couplings ST-3100**

**Couplings and plug ST-3100**



Coupling : F. Stainless steel.  
Max. 250 bar / 150 °C

⊙	DN
1/4"	10
3/8"	12
1/2"	12

R+M Nr.	↔
203 100 466	44 mm
203 100 461	44 mm
203 100 460	44 mm



Coupling : F. Stainless steel.  
Max. 250 bar / 150 °C

R+M Nr.	↔
203 100 456	50 mm
203 100 455	50 mm



Coupling : M. Stainless steel.  
60° cone. Max. 250 bar / 150 °C

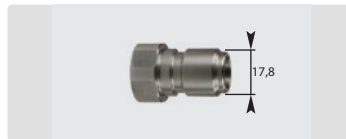
R+M Nr.	↔
203 100 653 *	47 mm
203 100 474	50 mm
203 100 655	45 mm



Coupling : M. Stainless steel.  
60° cone. Max. 250 bar / 150 °C

⊙	DN
1/4"	10
3/8"	12
1/2"	12

R+M Nr.	↔
203 100 652	53 mm
203 100 473	55 mm
203 100 656	54 mm



Plug : F. Stainless steel.  
Max. 250 bar / 150 °C

R+M Nr.	↔
040 005 665	35 mm
040 005 667	41 mm
040 005 661	47 mm



Plug : M. Stainless steel. 60° cone.  
Max. 250 bar / 150 °C

R+M Nr.	↔
040 005 668	47 mm
040 005 662	47 mm



Plug : F. Hardened stainless steel.  
Max. 250 bar / 150 °C

⊙	DN
1/4"	10
3/8"	12
1/2"	12

R+M Nr.	↔
040 005 465	35 mm
040 005 467	41 mm
040 005 461	47 mm



Plug : M. Hardened stainless steel.  
60° cone. Max. 250 bar / 150 °C

R+M Nr.	↔
040 005 459	47 mm
040 005 462	47 mm



Plug : F. Stainless steel. For moulded  
handles. Max. 250 bar / 150 °C

R+M Nr.	↔
040 005 664	40 mm



Plug : F. Stainless steel + brass.  
Max. 250 bar / 150 °C

⊙	DN
M22	10

R+M Nr.	↔
203 100 665	56 mm



Coupling : M. Stainless steel.  
Max. 250 bar / 150 °C

R+M Nr.	↔
203 100 660	57 mm



O-ring. 15.1x2.7

R+M Nr.	VPE
551 502 42	1
791 512 710	100



O-ring. 18x2

R+M Nr.	VPE
551 502 43	1
791 821 00	100

\* limited stock

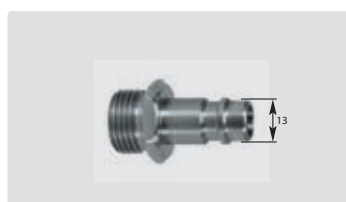
**Couplings "B"**



Coupling : F. Stainless steel.  
Max. 150 bar / 90 °C

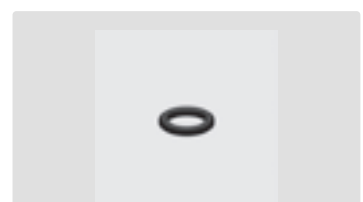
⊙	DN
1/2"	11

R+M Nr.	↔
710 247 212 000	35 mm



Plug : M. Stainless steel.  
Max. 150 bar / 90 °C

R+M Nr.	↔
710 247 112 100	44 mm

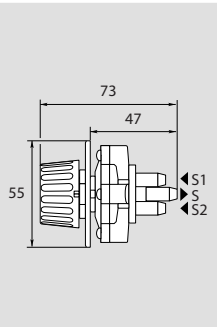


O-ring. 13x2

R+M Nr.
791 32

## Metering valves

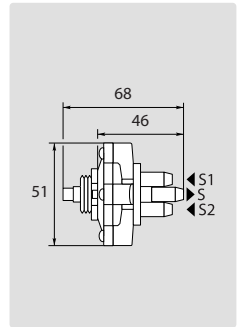
ST-66 with check valve



S = barb to pump. S1 = input barb 1.  
S2 = input barb 2

R+M Nr.	TYP
200 066 500	knob black
200 066 501	knob red

ST-66 without check valve



S = barb to pump. S1 = input barb 1.  
S2 = input barb 2

R+M Nr.	TYP
200 066 515	without knob

## Water reduction stainless steel

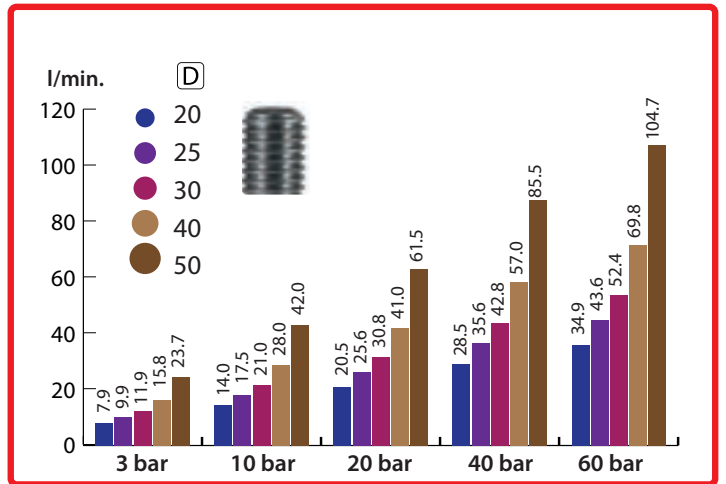


R+M Nr.	P	°C	⊘	↳
710 000 000 500	400 bar	150° C	1/2" M : 1/2" F	55 mm
710 000 000 550	400 bar	150° C	3/4" M : 3/4" F	55 mm



Water reduction inserts, stainless steel

R+M Nr.	D	⊘ *
710 000 000 027	20	2.7
710 000 000 031	25	3.1
710 000 000 033	30	3.3
710 000 000 038	40	3.8
710 000 000 048	60	4.8



\* hole diameter in mm

## Triple nozzle



Triple nozzle holder stainless steel. By easily turning the head there are 3 nozzles selectable: foam, rinsing and disinfection for the food industry. Max. 200 bar

- 1 foam nozzle 50° 150
- 2 rinsing nozzle 25° 15
- 3 disinfection nozzle 60° 30

R+M Nr.	⊕
657 650 0	1/2" M

Symbols DN nominal diameter TYP type ⊕ inlet ⊕ length P pressure ⊙ thread D nozzle VPE packing unit ⊘ diameter °C temperature

**PURClean365+® - food hose**

PURClean365+® - Food hose according to (EG) 1935/2004, (EU) 10/2011 and (EG) 2023/2006. Designed for industrial foam applications

- » Field of application: foam hose and pre-spraying hose in the food industry. Suitable for contact with liquid food products
- » Suitable for water and water mixes of usual cleaning detergents
- » PVC hose with three layers and a smooth surface
- » Increased 1-layer rot-proof textile mesh.
- » **About 20 % lighter and more flexible than comparable hose types**



**PURClean365+® 40**

**Female thread DKR 1/2"      Male thread (AGR) 1/2"**

-20 °C - +70 °C. Fittings stainless steel



R+M Nr.	↔	Length
476 056 602 59	↔	2.5 m
476 056 610 9	↔	10.0 m
476 056 615 9	↔	15.0 m
476 056 620 9	↔	20.0 m
476 056 625 9	↔	25.0 m
476 056 630 9	↔	30.0 m
476 056 635 9	↔	35.0 m
476 056 640 9	↔	40.0 m

R+M Nr.	↔	Length
476 046 602 59	↔	2.5 m
476 046 610 9	↔	10.0 m
476 046 615 9	↔	15.0 m
476 046 620 9	↔	20.0 m
476 046 625 9	↔	25.0 m
476 046 630 9	↔	30.0 m
476 046 635 9	↔	35.0 m
476 046 640 9	↔	40.0 m

**PURClean365+® 100**

**Female thread DKR 1/2"      Male thread (AGR) 1/2"**

-20 °C - +100 °C. Fittings stainless steel



R+M Nr.	↔	Length
477 056 602 59	↔	2.5 m
477 056 610 9	↔	10.0 m
477 056 615 9	↔	15.0 m
477 056 620 9	↔	20.0 m
477 056 625 9	↔	25.0 m
477 056 630 9	↔	30.0 m
477 056 635 9	↔	35.0 m
477 056 640 9	↔	40.0 m

R+M Nr.	↔	Length
477 046 602 59	↔	2.5 m
477 046 610 9	↔	10.0 m
477 046 615 9	↔	15.0 m
477 046 620 9	↔	20.0 m
477 046 625 9	↔	25.0 m
477 046 630 9	↔	30.0 m
477 046 635 9	↔	35.0 m
477 046 640 9	↔	40.0 m

**PURClean365+® 40 per metre**

R+M Nr.	DN	↔	⊗	P 20 °C	P 70 °C	BP 20 °C	⊞
303 660 40	12	10 - 100 m	4.5	100 bar	45 bar	≥ 250 bar	0.25 kg

**PURClean365+® 100 per metre**

R+M Nr.	DN	↔	⊗	P 20 °C	P 100 °C	BP 20 °C	⊞
303 661 00	12	10 - 100 m	4.5	40 bar	18 bar	≥ 200 bar	0.25 kg

**PURClean365+® 40**



R+M Nr.	↔	Length
476 356 402 59	↔	2.5 m
476 356 410 9	↔	10.0 m
476 356 415 9	↔	15.0 m
476 356 420 9	↔	20.0 m
476 356 425 9	↔	25.0 m
476 356 430 9	↔	30.0 m
476 356 435 9	↔	35.0 m
476 356 440 9	↔	40.0 m

R+M Nr.	↔	Length
476 346 402 59	↔	2.5 m
476 346 410 9	↔	10.0 m
476 346 415 9	↔	15.0 m
476 346 420 9	↔	20.0 m
476 346 425 9	↔	25.0 m
476 346 430 9	↔	30.0 m
476 346 435 9	↔	35.0 m
476 346 440 9	↔	40.0 m

**PURClean365+® 40 per metre**

R+M Nr.	DN	↔	⊗	P 20 °C	P 70 °C	BP 20 °C	⊞
303 660 41	12	10 - 100 m	4.5	100 bar	45 bar	≥ 250 bar	0.25 kg

Symbols DN nominal diameter ⊞ weight ↔ length BP burst pressure P pressure ⊗ wall thickness mm

## PUReClean365+® - food hose

PUReClean365+® 40

Female thread DKR 1/2"

Male thread (AGR) 1/2"

Female thread DKR 1/2"

Male thread (AGR) 1/2"

-20 °C - +70 °C. Fittings stainless steel

-20 °C - +70 °C. Fittings stainless steel



R+M Nr.	↔	Length
476 456 202 59		2.5 m
476 456 210 9		10.0 m
476 456 215 9		15.0 m
476 456 220 9		20.0 m
476 456 225 9		25.0 m
476 456 230 9		30.0 m
476 456 235 9		35.0 m
476 456 240 9		40.0 m

R+M Nr.	↔	Length
476 446 202 59		2.5 m
476 446 210 9		10.0 m
476 446 215 9		15.0 m
476 446 220 9		20.0 m
476 446 225 9		25.0 m
476 446 230 9		30.0 m
476 446 235 9		35.0 m
476 446 240 9		40.0 m

R+M Nr.	↔	Length
476 256 702 59		2.5 m
476 256 710 9		10.0 m
476 256 715 9		15.0 m
476 256 720 9		20.0 m
476 256 725 9		25.0 m
476 256 730 9		30.0 m
476 256 735 9		35.0 m
476 256 740 9		40.0 m

R+M Nr.	↔	Length
476 246 702 59		2.5 m
476 246 710 9		10.0 m
476 246 715 9		15.0 m
476 246 720 9		20.0 m
476 246 725 9		25.0 m
476 246 730 9		30.0 m
476 246 735 9		35.0 m
476 246 740 9		40.0 m

PUReClean365+® 40 per metre

PUReClean365+® 40 per metre

R+M Nr.	DN	↔	⚠	P 20 °C	P 70 °C	BP 20 °C	⊞
303 660 42	12	10 - 100 m	4.5	100 bar	45 bar	≥ 250 bar	0.25 kg

R+M Nr.	DN	↔	⚠	P 20 °C	P 70 °C	BP 20 °C	⊞
303 660 43	12	10 - 100 m	4.5	100 bar	45 bar	≥ 250 bar	0.25 kg

Screw fittings for PUReClean365+®



1/2" M with 60° cone. Stainless steel.  
Max. 50 bar

1/2" F with 60° cone. Stainless steel.  
Max. 50 bar

1/2" F. Stainless steel. Max. 50 bar. Flat sealing

R+M Nr.	DN
329 412 129	12

R+M Nr.	DN
329 512 129	12

R+M Nr.	DN
329 612 129	12

## PUReClean365+® - 40 food hoses with the professional flat ST-3225

Food Special SET

Professional ST-3225 gun with progressive closing system and coupling ST-3100. Inlet 1/2" F swivel. Stainless steel. Max. 24.5 bar or 60 bar. Max. 120 l/min / 100 °C. with PUReClean365+ 40 food hose 1/2" male thread AGR. 45 bar working pressure at 70 °C

ST-3225 / PUReClean365+ 40 blue

ST-3225 / PUReClean365+ 40 yellow

ST-3225 / PUReClean365+ 40 green

ST-3225 / PUReClean365+ 40 red



R+M Nr.	ST-3225 P	↔	Length
476 046 620 91	24.5 bar		20 m
476 046 625 91	24.5 bar		25 m
476 046 630 91	24.5 bar		30 m
476 046 620 92	60 bar		20 m
476 046 625 92	60 bar		25 m
476 046 630 92	60 bar		30 m

R+M Nr.	ST-3225 P	↔	Length
476 346 420 91	24.5 bar		20 m
476 346 425 91	24.5 bar		25 m
476 346 430 91	24.5 bar		30 m
476 346 420 92	60 bar		20 m
476 346 425 92	60 bar		25 m
476 346 430 92	60 bar		30 m

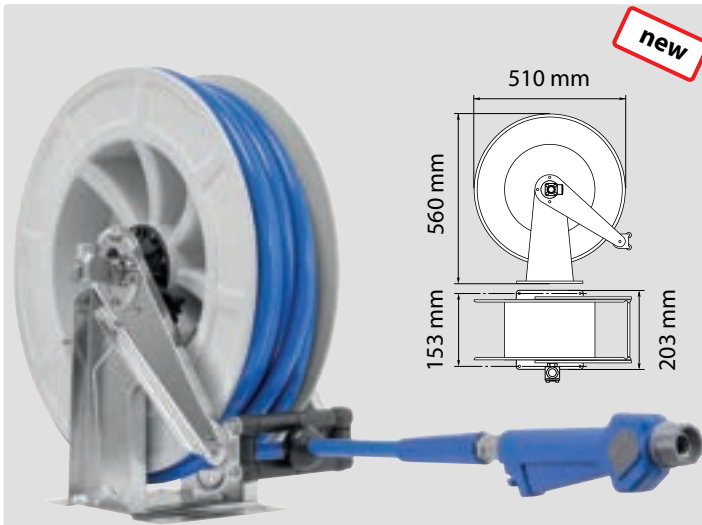
R+M Nr.	ST-3225 P	↔	Length
476 446 220 91	24.5 bar		20 m
476 446 225 91	24.5 bar		25 m
476 446 230 91	24.5 bar		30 m
476 446 220 92	60 bar		20 m
476 446 225 92	60 bar		25 m
476 446 230 92	60 bar		30 m

R+M Nr.	ST-3225 P	↔	Length
476 246 720 91	24.5 bar		20 m
476 246 725 91	24.5 bar		25 m
476 246 730 91	24.5 bar		30 m
476 246 720 92	60 bar		20 m
476 246 725 92	60 bar		25 m
476 246 730 92	60 bar		30 m

new



**PURClean365+® - 40 food hoses with automatic hose reel and ST-3225 - Food Special Set**



In our online shop you will find further combinations of high-pressure hose reels with pre-assembled, high-pressure hoses!

**Hose reel:**

Frame made of stainless steel V2A / AISI 304. Drum made of particularly impact-resistant ABS plastic. With automatic spring return and strain relief. Equipped with the high-quality Suttner swivel joint ST-322

°C	G	↻	★
90 °C	1/2" F	1/2" F	▲

**Spray gun ST-3225:**

Professional flat spray gun ST-3225 for the food industry with progressive closing system and coupling ST-3100

P	TYP	G	↻
24,5 bar with locking in opened position	1/2" IG	Kupplung ST-3100	
60 bar no locking in opened position	1/2" IG	Kupplung ST-3100	

**PURClean365+® 40 - high pressure food hose:**

- Conform to EG-regulation Nr. 1935/2004 nd Nr. 10/2011
- Field of application: foam hose and pre-spraying hose in the food industry. Suitable for contact with liquid food products
- Suitable for water and water mixes of usual cleaning detergents
- PVC hose with three layers and a smooth surface
- Increased 1-layer rot-proof textile mesh.
- About 20 % lighter and more flexible than comparable hose types

DN	P	↔
12	45 bar / 70 °C	24 m

PURClean365+® blue

PURClean365+® yellow

PURClean365+® green

PURClean365+® red



R+M Nr.	↻	P
763 532 001	1/2" M	45 bar

R+M Nr.	↻	P
763 532 003	1/2" M	45 bar

R+M Nr.	↻	P
763 532 004	1/2" M	45 bar

R+M Nr.	↻	P
763 532 002	1/2" M	45 bar



R+M Nr.	P gun	P
763 532 005	24,5 bar	24,5 bar
763 532 009	60 bar	45 bar

R+M Nr.	P gun	P
763 532 006	24,5 bar	24,5 bar
763 532 010	60 bar	45 bar

R+M Nr.	P gun	P
763 532 007	24,5 bar	24,5 bar
763 532 011	60 bar	45 bar

R+M Nr.	P gun	P
763 532 008	24,5 bar	24,5 bar
763 532 012	60 bar	45 bar

Symbols ★ marking G inlet ↻ outlet DN nominal diameter P pressure ↔ length Ⓢ weight TYP type °C temperature I height



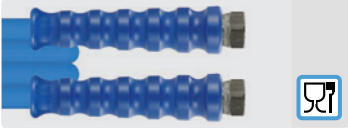
## blufood® - food hose

blufood® - Food hose according to (EC)2002/72, (EU) 10/2011, (EG) 1935/2004 and (EG) 2023/2006. Designed for industrial foam applications

- » Field of application: foam hose and pre-spraying hose in the food industry. Suitable for contact with liquid food products
- » Suitable for water and water mixes of usual cleaning detergents
- » PVC hose with five layers and a smooth surface

- » Reinforcing by twofold textile meshwork
- » -20 °C - +70 °C

### Female thread DKR 1/2"



Fittings stainless steel

R+M Nr.	↔	
475 056 602 59	↔	2.5 m
475 056 610 9	↔	10.0 m
475 056 615 9	↔	15.0 m
475 056 620 9	↔	20.0 m
475 056 625 9	↔	25.0 m
475 056 630 9	↔	30.0 m
475 056 635 9	↔	35.0 m
475 056 640 9	↔	40.0 m

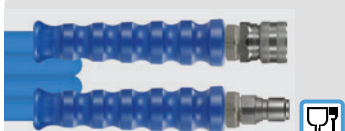
### Male thread (AGR) 1/2"



Fittings stainless steel

R+M Nr.	↔	
475 046 602 59	↔	2.5 m
475 046 610 9	↔	10.0 m
475 046 615 9	↔	15.0 m
475 046 620 9	↔	20.0 m
475 046 625 9	↔	25.0 m
475 046 630 9	↔	30.0 m
475 046 635 9	↔	35.0 m
475 046 640 9	↔	40.0 m

### ST-3100 Coupling : Plug



Coupling ST-3100 : plug ST-3100

R+M Nr.	↔	
475 012 262 09	↔	20 m
475 012 262 59	↔	25 m
475 012 263 09	↔	30 m

### blufood® per metre

R+M Nr.	DN	↔	⊗	P 20 °C	P 70 °C	BP 20 °C	⊗
303 70	12	10 - 100 m	5	50 bar	30 bar	≥ 240 bar	0.32 kg
303 700 019	19	10 - 60 m	6	40 bar	15 bar	≥ 200 bar	0.61 kg

Made out of plastics intended to come into contact with foodstuffs according to Regulation (EC) No. 1935/2004. Especially designed for applications in the food industry.



### Screw fittings for blufood®



1/2" M with 60° cone. Stainless steel. Max. 50 bar

R+M Nr.	DN
329 012 129	12



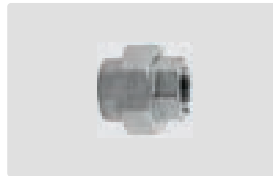
1/2" F with 60° cone. Stainless steel. Max. 50 bar

R+M Nr.	DN
329 112 129	12



1/2" F. Stainless steel. Max. 50 bar. Flat sealing

R+M Nr.	DN
329 312 129	12



Detachable fitting. 3/4" F. Stainless steel. Max. 15 bar

R+M Nr.	DN	↔
574 734 009	19	49



Hose barb 3/4" M. 60° cone. Stainless steel. Max. 15 bar

R+M Nr.	DN
711 341 909	19

### Fittings for blufood®

## Hose clamps

### Heavy duty clamp

Heavy duty clamp completely stainless steel X5CrNi1810. According to DIN 1.4301/AISI 304



Clamp with hexagon bolt. W4. ⊓ 20 mm

R+M Nr.	VPE	⊗	R+M Nr.	VPE	⊗
736 029 401	1	29 - 31 mm	736 032 401	1	32 - 35 mm

Symbols DN nominal diameter ⊗ wall thickness BP burst pressure ⊗ diameter ⊗ weight VPE packing unit

### Foodjet - food hose with textile meshwork

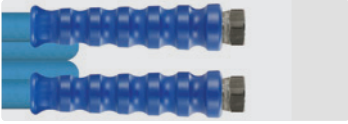
**Foodjet** - High pressure hose according to DIN EN 854. Particularly resistant to animal and poultry fats

- » Field of application: cleaning hose designed for the poultry processing industry
- » Suitable for: oil, water, water-in-oil emulsion and water mixes with up to 50 % detergent

» Surface synthetic rubber. Particularly abrasion-, oil-, ozone-resistant and weatherproof.

- » Interior synthetic, oil-resistant rubber
- » 1 tight textile meshwork
- » **Max. 80 bar.** Burst pressure > 240 bar.
- 40 °C - +150 °C

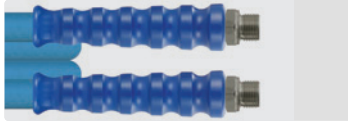
#### Female thread DKR 1/2"



Fittings stainless steel

R+M Nr.	↔	length
490 056 002 59	↔	2.5 m
490 056 010 9	↔	10.0 m
490 056 015 9	↔	15.0 m
490 056 020 9	↔	20.0 m
490 056 025 9	↔	25.0 m
490 056 030 9	↔	30.0 m
490 056 035 9	↔	35.0 m
490 056 040 9	↔	40.0 m

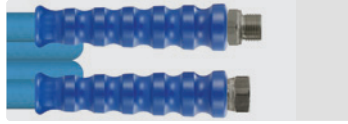
#### Male thread (AGR) 1/2"



Fittings stainless steel

R+M Nr.	↔	length
490 046 002 59	↔	2.5 m
490 046 010 9	↔	10.0 m
490 046 015 9	↔	15.0 m
490 046 020 9	↔	20.0 m
490 046 025 9	↔	25.0 m
490 046 030 9	↔	30.0 m
490 046 035 9	↔	35.0 m
490 046 040 9	↔	40.0 m

#### Male thread (AGR) 1/2" : DKR 1/2"



Fittings stainless steel

R+M Nr.	↔	length
490 057 002 59	↔	2.5 m
490 057 610 9	↔	10.0 m
490 057 615 9	↔	15.0 m
490 057 620 9	↔	20.0 m
490 057 625 9	↔	25.0 m
490 057 630 9	↔	30.0 m
490 057 635 9	↔	35.0 m
490 057 640 9	↔	40.0 m

#### Foodjet per metre

DN 12

R+M Nr.	↔	length
303 60	↔	10 - 95 m

### Foodjet 1500 - food hose with textile meshwork

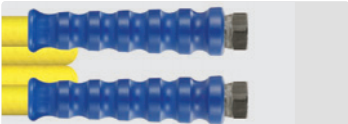
**Foodjet 1500** - High pressure hose according to DIN EN 854. Particularly resistant to animal and poultry fats

- » Field of application: cleaning hose designed for the poultry processing industry
- » Suitable for: oil, water, water-in-oil emulsion and water mixes with up to 50 % detergent

» Surface synthetic rubber. Particularly abrasion-, oil-, ozone-resistant and weatherproof.

- » Interior synthetic, oil-resistant rubber
- » 1 tight textile meshwork
- » **Max. 125 bar.** Burst pressure > 375 bar.
- 40 °C - +150 °C

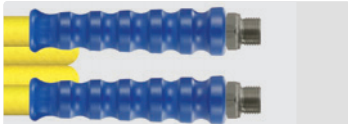
#### Female thread DKR 1/2"



Fittings stainless steel

R+M Nr.	↔	length
490 445 660 259	↔	2.5 m
490 445 661 09	↔	10.0 m
490 445 661 59	↔	15.0 m
490 445 662 09	↔	20.0 m
490 445 662 59	↔	25.0 m
490 445 663 09	↔	30.0 m
490 445 663 59	↔	35.0 m
490 445 664 09	↔	40.0 m

#### Male thread (AGR) 1/2"



Fittings stainless steel

R+M Nr.	↔	length
490 444 660 259	↔	2.5 m
490 444 661 09	↔	10.0 m
490 444 661 59	↔	15.0 m
490 444 662 09	↔	20.0 m
490 444 662 59	↔	25.0 m
490 444 663 09	↔	30.0 m
490 444 663 59	↔	35.0 m
490 444 664 09	↔	40.0 m

#### Male thread (AGR) 1/2" : DKR 1/2"



Fittings stainless steel

R+M Nr.	↔	length
490 445 760 259	↔	2.5 m
490 445 761 09	↔	10.0 m
490 445 761 59	↔	15.0 m
490 445 762 09	↔	20.0 m
490 445 762 59	↔	25.0 m
490 445 763 09	↔	30.0 m
490 445 763 59	↔	35.0 m
490 445 764 09	↔	40.0 m

#### Foodjet 1500 per metre

DN 12

R+M Nr.	↔	length
303 601 500	↔	70 - 100 m

Fittings zinc-plated steel

R+M Nr.	↔	length
490 445 660 25	↔	2.5 m
490 445 661 0	↔	10.0 m
490 445 661 5	↔	15.0 m
490 445 662 0	↔	20.0 m
490 445 662 5	↔	25.0 m
490 445 663 0	↔	30.0 m
490 445 663 5	↔	35.0 m
490 445 664 0	↔	40.0 m

Fittings zinc-plated steel

R+M Nr.	↔	length
490 444 660 25	↔	2.5 m
490 444 661 0	↔	10.0 m
490 444 661 5	↔	15.0 m
490 444 662 0	↔	20.0 m
490 444 662 5	↔	25.0 m
490 444 663 0	↔	30.0 m
490 444 663 5	↔	35.0 m
490 444 664 0	↔	40.0 m

Fittings zinc-plated steel

R+M Nr.	↔	length
490 445 760 25	↔	2.5 m
490 445 761 0	↔	10.0 m
490 445 761 5	↔	15.0 m
490 445 762 0	↔	20.0 m
490 445 762 5	↔	25.0 m
490 445 763 0	↔	30.0 m
490 445 763 5	↔	35.0 m
490 445 764 0	↔	40.0 m

Symbols ↔ length ⊕ inlet ⊖ outlet [ISO] insulation [M] material

## Foam lances

### Lances with female thread



1/4" M. Lance with moulded handle Cool & Compact. Comfortable grip and ergonomic shape. Heat-proof insulation. Max. 400 bar / 150 °C

R+M Nr.	☺	ISO	☹	M	R+M Nr.
200 129 140	1/4" F BSP	300 mm	500 mm	stainless steel	
200 129 145	1/4" F BSP	400 mm	700 mm	stainless steel	
200 129 150	1/4" F BSP	400 mm	800 mm	stainless steel	



1/4" M. Lance. Max. 400 bar / 150 °C

R+M Nr.	☺	☹	M	R+M Nr.
070 000 097	1/4" F BSP	100 mm	stainless steel	
070 000 098	1/4" F BSP	150 mm	stainless steel	
070 000 099	1/4" F BSP	200 mm	stainless steel	
070 000 095	1/4" F BSP	250 mm	stainless steel	
070 000 101	1/4" F BSP	350 mm	stainless steel	

## Rubber protected ball valves



Stainless steel.  
Max. 60 bar / 95 °C

R+M Nr.	☺	☹
500 155	1/2" F	ST-3100



Stainless steel.  
Max. 60 bar / 95 °C

R+M Nr.	☺	☹
500 150	1/2" F	1/2" F



Stainless steel.  
Max. 60 bar / 95 °C

R+M Nr.	☺	☹
500 160	1/2" F	1/2" F



ST-3100. Stainless steel.  
Max. 60 bar / 95 °C

R+M Nr.	☺	☹
203 100 250	1/2" F	1/2" F



ST-3100. Stainless steel.  
Max. 60 bar / 95 °C

R+M Nr.	☺	☹
203 100 260	1/2" F	ST-3100

## Ball valves



Ball valve with safety guard. Stainless steel.  
Max. 140 bar / 80 °C

R+M Nr.	☺	☹
203 100 200	1/2" F	ST-3100



Ball valve with safety guard. Stainless steel.  
Max. 140 bar / 80 °C

R+M Nr.	☺	☹
203 100 210	ST-3100	ST-3100

## Foam lances

## ST-72 foam lances with air injector



1/4" M. Foam lance stainless steel with air injector, vented handle ST-9 380 mm, grip and stainless steel socket with nozzle. A foam injector is required.  
Max. 250 bar / 80 °C

R+M Nr.	D *	☐	C **	☐
200 072 500	2.0 mm	< 15 l/min	green	600 mm
200 072 510	2.3 mm	< 20 l/min	yellow	600 mm
200 072 520	3.2 mm	> 26 l/min	red	600 mm

R+M Nr.	D *	☐	C **	☐
200 072 610	2.3 mm	< 20 l/min	yellow	1200 mm
200 072 620	3.2 mm	> 26 l/min	red	1200 mm

## ST-72.1 foam lances with air injector



1/4" M. Foam lance stainless steel with air injector, vented handle ST-9.9 330 mm, grip and stainless steel socket with nozzle. A foam injector is required.  
Max. 250 bar / 80 °C

R+M Nr.	D *	☐	C **	☐
200 072 633	2.0 mm	< 15 l/min	green	600 mm
200 072 625	2.3 mm	< 20 l/min	yellow	600 mm
200 072 627	2.7 mm	< 26 l/min	blue	600 mm
200 072 629	3.2 mm	> 26 l/min	red	600 mm

R+M Nr.	D *	☐	C **	☐
200 072 634	2.0 mm	< 15 l/min	green	1,200 mm
200 072 626	2.3 mm	< 20 l/min	yellow	1,200 mm

\* air injector \*\* nozzle protector

Symbols ☐ length D nozzle ☐ flow C colour Ø diameter VPE packing unit M material ☐ inlet

## Foam head ST-75

By means of the foam head ST-75 different foam applications are possible as the air injector nozzle is easily exchangeable and adaptable. The flat spray nozzle can be infinitely adapted from the vertical position to the horizontal one. The maximum flow is dependent on the chosen nozzle size. By means of the integrated air injector in the foam head the air is sucked in on the face side. Independent of the length of the lance a constant foam quality is guaranteed. The spraying result is especially even as a high quality foam nozzle insert is used.  
Max. 350 bar / 100 °C



Stainless steel. ST-75 with nozzle.  
Max. 350 bar / 100 °C



Brass. ST-75 with nozzle.  
Max. 350 bar / 100 °C



Brass. ST-75 with nozzle.  
Max. 350 bar / 100 °C



Brass. ST-75 with nozzle.  
Max. 350 bar / 100 °C

R+M Nr.	∅*	⊕
200 075 514	1.60	1/4" F
200 075 515	1.90	1/4" F

R+M Nr.	∅*	⊕
200 075 578	1.05	1/4" F
200 075 579	1.10	1/4" F
200 075 574	1.20	1/4" F
200 075 576	1.35	1/4" F
200 075 577	1.45	1/4" F
200 075 572	1.60	1/4" F
200 075 575	1.75	1/4" F
200 075 573	1.90	1/4" F
200 075 580	2.10	1/4" F

R+M Nr.	∅*	⊕
200 075 559	1.05	1/4" F
200 075 554	1.20	1/4" F
200 075 555	1.35	1/4" F
200 075 556	1.45	1/4" F
200 075 552	1.60	1/4" F
200 075 558	1.70	1/4" F
200 075 553	1.90	1/4" F

R+M Nr.	∅*	⊕
200 075 564	1.35	1/4" F
200 075 562	1.60	1/4" F
200 075 563	1.90	1/4" F



Stainless steel. ST-75 with nozzle.  
Max. 350 bar / 100 °C



Brass. ST-75 with nozzle.  
Max. 350 bar / 100 °C



Brass. ST-75 with nozzle.  
Max. 350 bar / 100 °C



Brass. ST-75 with nozzle.  
Max. 350 bar / 100 °C

R+M Nr.	∅*	⊕
200 075 512	1.60	M18 F
200 075 513	1.90	M18 F

R+M Nr.	∅*	⊕
200 075 570	1.60	M18 F
200 075 571	1.90	M18 F

R+M Nr.	∅*	⊕
200 075 550	1.60	M18 F
200 075 551	1.90	M18 F

R+M Nr.	∅*	⊕
200 075 560	1.60	M18 F
200 075 561	1.90	M18 F



Air injector nozzle

R+M Nr.	∅*	D
200 075 401	1.05	03
200 075 402	1.10	035
200 075 403	1.20	04
200 075 405	1.35	05
200 075 425	1.40	055
200 075 406	1.45	06
200 075 409	1.50	065
200 075 427	1.55	07
200 075 407	1.60	075
200 075 408	1.70	08
200 075 410	1.90	10
200 075 413	2.10	13
200 075 415	2.30	15
200 075 420	2.65	20



Stainless steel. ST-75.1 with nozzle and without foam pad.  
Max. 350 bar / 60 °C

R+M Nr.	∅*	⊕
200 075 602	1.60	1/4" F
200 075 603	1.90	1/4" F



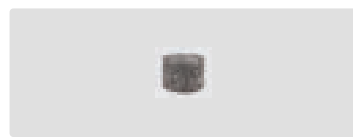
Brass. ST-75.1 without nozzle and without foam pad.  
Max. 350 bar / 60 °C

R+M Nr.	⊕
200 075 482	M 18 F
200 075 493	1/4" F



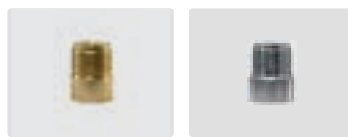
Brass. ST-75.1 without nozzle and without foam pad.  
Max. 350 bar / 60 °C

R+M Nr.	⊕
200 075 486	M18 F



Foam pad

R+M Nr	VPE
540 500 09	1
540 500 10	10
540 500 11	100



1/4" F : M18 M. Nozzle holder EG.

R+M Nr.	M
010 000 043	Brass
040 000 041	Stainless steel



O-ring. 10x2. Viton

R+M Nr.	VPE
790 20	1
790 201 00	100

\* hole diameter in mm  
\*\* nozzle size in mm

### Long cast foam head ST-75.2



With adjustable air-intake. Max. 150 bar / 90 °C

R+M Nr.	∅*	ⓐ	l/min.
200 075 800 001	1.55	1/4" F	11
200 075 800 002	1.60	1/4" F	12-14
200 075 800 003	1.90	1/4" F	14-17
200 075 800 004	2.10	1/4" F	18-20
200 075 800 005	2.30	1/4" F	21-22
200 075 800 006	2.30	1/4" F	23-27
200 075 800 007	2.65	1/4" F	28-30
200 075 810 001	2.65	1/4" F	31-40



### foamblaster ST-76

**The foamblaster ST-76 is designed for applications in agriculture, industry, municipal cleaning and fire fighting technology.**

There are injector nozzles with diameters of up to 2.8 mm for high flow rates available for all **easyfoam365+** stainless steel injectors ST-160, ST-164, ST-166 and ST-167.

Material: stainless steel / plastic.

Min. 70 bar for use in combination with an **easyfoam365+** injector unit.

Min. 30 bar for use with water / foamagent premix.

Max. 250 bar / 20 - 60 l/min / 100 °C

R+M Nr.	D**	ⓐ
200 076 615	2.3	1/2" F
200 076 618	2.6	1/2" F
200 076 621	2.8	1/2" F
200 076 600	2.9	1/2" F
200 076 624	3.0	1/2" F
200 076 630	3.3	1/2" F
200 076 633	3.5	1/2" F



### Micro Droplets Nozzle Holder

#### Fields of application:

Disinfection, humidification, cooling, dust suppression, decontamination, odor control in agricultural, food and construction industry, defence and firefighting technology, car washing and detailing



ST-78. Stainless steel

R+M Nr.	ⓐ
200 078 830	1/4" F

#### functioning of Micro Droplets Nozzle Holder



progressive, conical spray jet

#### Nozzles for Micro Droplets Nozzle Holder



M15x1 M. Stainless steel

R+M Nr.	D
200 078 412	1.2 mm
200 078 415	1.5 mm
200 078 420	2.0 mm
200 078 423	2.3 mm
200 078 425	2.5 mm
200 078 430	3.0 mm
200 078 435	3.5 mm

Symbols ⓐ inlet D nozzle ⇄ length ∅ diameter



## ST-175 Foam & Clean

The change-over lance ST-175 Foam & Clean is the ideal accessory for Suttner's foam injector line. The innovative change-over technology allows to direct the full flow into either one or the other outlet pipe just by turning the hand wheel at the inlet.

In one position of the hand wheel the flow is directed thru an ST-75 foam head for foaming. After changing over the full flow is directed thru the other pipe and a regular spray nozzle for rinsing.

Appropriate nozzle sizing at chemical injector and ST-175 allows changing from foaming to rinsing right at the lance. ST -175 Foam & Clean is compatible to ST-160 / ST-164 / ST-166 / ST-167.

Due to ST -175's changeable air injector nozzles the lance can be driven with all pressure washers with flow rates from 5 to 25 l/min. Nozzles with integrated jet former are required (page 337).



Twin foam lance with vented handle ST-9 380 mm, change-over valve ST-58, nozzle protector ST-10 without nozzle and foam head ST-75 without nozzle. A foam injector is required.  
Max. 350 bar / 45 l/min / 100 °C

R+M Nr.			
200 175 400	1/4" F	-	650 mm



K

Twin foam lance with vented handle ST-9 205 mm, change-over valve ST-58, ergonomic swivel screw coupling, nozzle protector without tip and foam head ST-75.1 without nozzle. A foam injector is required.  
Max. 350 bar / 45 l/min / 100 °C

R+M Nr.			
200 175 411	M22 F	-	420 mm



Twin foam lance with vented handle ST-9 380 mm, change-over lance with 1/4" M and nozzle protector ST-10 without nozzle.  
Max. 350 bar / 45 l/min / 100 °C

R+M Nr.			
200 175 510	1/4" F	-	650 mm



Twin foam lance with vented handle ST-9 205 mm, change-over valve ST-58, nozzle protector without tip and foam head ST-75.1 without nozzle. A foam injector is required.  
Max. 350 bar / 45 l/min / 100 °C

R+M Nr.			
200 175 412	1/4" F	-	420 mm



Twin foam lance with vented handle ST-9 380 mm, change-over valve ST-58, nozzle protector ST-10 without nozzle and foam head ST-75 with nozzle. A foam injector is required.  
Max. 350 bar / 45 l/min / 100 °C

R+M Nr.			
200 175 430	M22 F	1.9	650 mm
200 175 431	M22 F	2.1	650 mm



Twin foam lance with vented handle ST-9 205 mm, change-over valve ST-58, nozzle protector ST-10 without nozzle and foam head ST-75.1 without nozzle. A foam injector is required.  
Max. 350 bar / 45 l/min / 100 °C

R+M Nr.			
200 175 414	1/4" F	-	420 mm

Carwash low pressure foam lances

new



LTF

Professional low pressure foam lance with patented LTF technology. Gun ST-2620 with 300 mm insulated lance and nozzle protection ST-10 with low-pressure nozzle 9040. Max. 125 bar / 80 l / min / 150 ° C

R+M Nr.	☺	TYP	Ⓞ
202 620 906	Low pressure nozzle 9040	Standard	1/2" F swivel

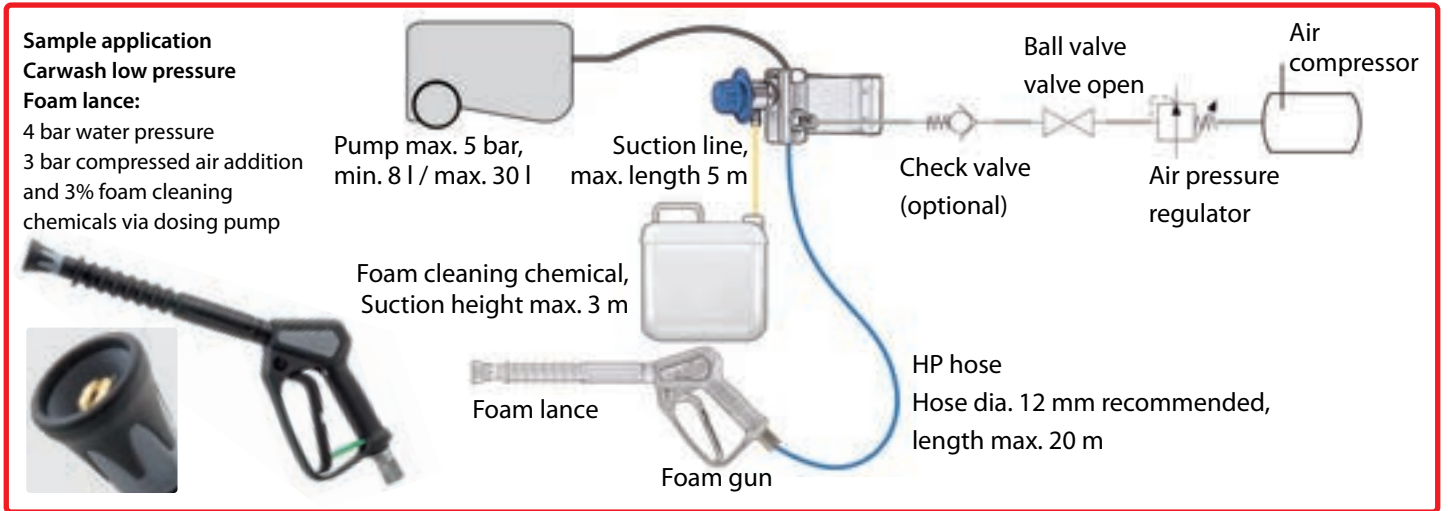
new



LTF

Professional low pressure foam lance with patented LTF technology. Gun ST-2620 with 300 mm insulated lance and nozzle protection ST-10 with low-pressure nozzle 9040. Max. 125 bar / 80 l / min / 150 ° C

R+M Nr.	☺	TYP	Ⓞ
202 620 905	Low pressure nozzle 9040	Weep	1/2" F swivel



## easywash365+ foam lances



**LTF**

Foam lance with **easywash365+** gun standard, lance with extension ST-9.1 245 mm and foam head ST-75. Max. 310 bar / 25 l/min / 150 °C

R+M Nr.	☺	TYP	☺
202 600 918	foam head ST-75 (1.9 mm)	standard	3/8" F swivel



**LTF**

Foam lance with **easywash365+** gun, lance with extension ST-9.1 245 mm and foam head ST-75. Max. 310 bar / 25 l/min / 150 °C

R+M Nr.	☺	TYP	☺
202 600 911	foam head ST-75 (1.05 mm)	weep version	3/8" F swivel
202 600 949	foam head ST-75 (1.20 mm)	weep version	3/8" F swivel
202 600 909	foam head ST-75 (1.35 mm)	weep version	3/8" F swivel
202 600 917	foam head ST-75 (1.90 mm)	weep version	3/8" F swivel



**LTF**

Foam lance with **easywash365+** gun, lance with extension ST-9.1 245 mm and foam head ST-75. Max. 310 bar / 25 l/min / 150 °C

R+M Nr.	☺	TYP	☺
202 600 963	foam head ST-75 (1.05 mm)	freeze stop version	3/8" F swivel.
202 600 929	foam head ST-75 (1.20 mm)	freeze stop version	3/8" F swivel.
202 600 930	foam head ST-75 (1.35 mm)	freeze stop version	3/8" F swivel
202 600 995	foam head ST-75 (1.70 mm)	freeze stop version	3/8" F swivel
202 600 919	foam head ST-75 (1.90 mm)	freeze stop version	3/8" F swivel

### Valves complete - easywash365+



Standard



Weep



Freeze stop

### ST-301 swivels



1/4" F : 3/8" F.  
easywash365+ guns



Repair kit ST-301

R+M Nr.
202 300 490

R+M Nr.
202 300 491

R+M Nr.
202 300 457

R+M Nr.
200 301 050

R+M Nr.
200 300 100

**LTF - Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.

Symbols ☺ inlet ☺ outlet TYP type

### easywash365+ foam sets

By introducing the universally applicable **easywash365+** foam sets we succeeded in enlarging the application possibility of our foam injector family.

The stainless steel injector with high pressure foam lance which is installed via a T-piece between the outlet of the high pressure unit and the original spraying unit is especially designed for the professional cleaning of trucks of shipping or food companies as well as for applications in the industrial foam cleaning.

The connection from injector unit to the high pressure foam lance is realized by an optionally high pressure hose of up to a length of 40 m. The already existing spraying unit is used for cleaning and rinsing

works. Enormous savings of both cleaning agent and time can be achieved as the foam lance has cleaning agent immediately available without switching at the unit or change of equipment.

It is possible to simplify the handling of the construction and to boost efficiency at the same time by integrating two hose reels. This set is suitable for all common high pressure cleaning units for up to 310 bar and max. 90 °C.



LTF

Kr IP K

**easywash365+ foam set:** **easywash365+** foam lance standard with foam head ST-75, injector ST-160 (M22 F and 2 x M22 M) with metering valve ST-161, suction hose 1000 mm and suction filter ST-32. Max. 310 bar / 90 °C

R+M Nr.		
200 160 720	foam head ST-75 (1.9 mm)	3/8" F swivel

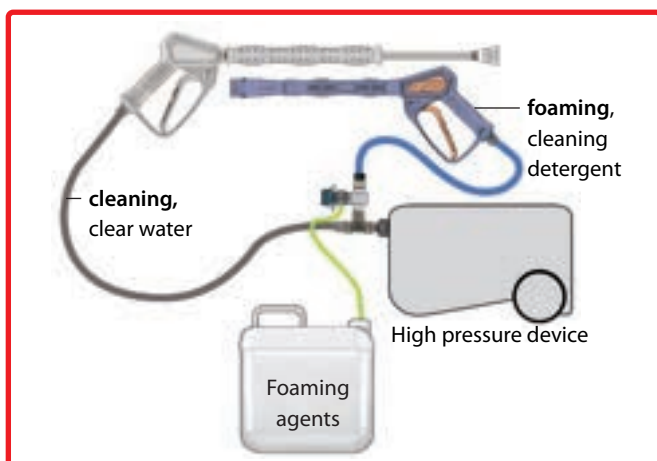


LTF

A

**easywash365+ foam set:** **easywash365+** foam lance standard with foam head ST-75, injector ST-160 (Coupling ST-45-250 nickel-plated brass, plug ST-45-250 zinc-plated steel and M22 M) with metering valve ST-161, suction hose 1000 mm and suction filter ST-32. Max. 250 bar / 90 °C

R+M Nr.		
200 160 725	foam head ST-75 (1.9 mm)	3/8" F swivel



### Adapter connection ST-160



Brass. For connecting the ST-160 to the pump head for hobby high-pressure cleaner with hose reel

R+M Nr.		
010 003 080	1/4" F	M18 M

## easywash365+ foam sets



LTF

Kr IP K

easywash365+ foam set: easywash365+ spray gun, lance and brush with turbofoam365+ air injector by Suttner and injector ST-160 (M22 F and 2 x M22 M) with metering valve ST-161, suction hose 1,000 mm and suction filter ST-32. Max. 310 bar / 90 °C

R+M Nr.		↔ lance and brush	⊕
502 600 100 000	lance and brush with turbofoam365+ air injector (1.9 mm)	900 mm	3/8" F swivel
502 601 100 000	lance and brush with turbofoam365+ air injector (1.9 mm)	1,200 mm	3/8" F swivel

**The following hoses are highly recommended for easywash365+ foam sets**

QSC : male thread

M22 : 3/8"



Hoses with single wire braid and wrapped cover

TYP	DN	P	°C	↔	R+M Nr.
1SN	8	315 bar	150 °C	10 m	343 103 310
				15 m	343 103 315
				20 m	343 103 320
				30 m	343 103 330

Symbols ⊕ inlet ⊖ outlet DN nominal diameter P pressure °C temperature ↔ length TYP type



turbofoam365+ lances by Suttner

easywash365+ spray gun, lance and brush with turbofoam365+ air injector by Suttner

- » Especially soft cleaning with very soft hog bristles with forked ends
- » Cool & Compact insulation for a comfortable use
- » Ergonomic handling by means of the well-tried easywash365+ spray gun with LTF-technology
- » Available in 2 length: 900 and 1,200 mm
- » Brush with injector is also available as retrofit kit
- » easywash365+ spray gun is obtainable as standard, weep or freeze stop version
- » Lance swivel ST-345 is optionally available
- » Not suitable for powder chemicals



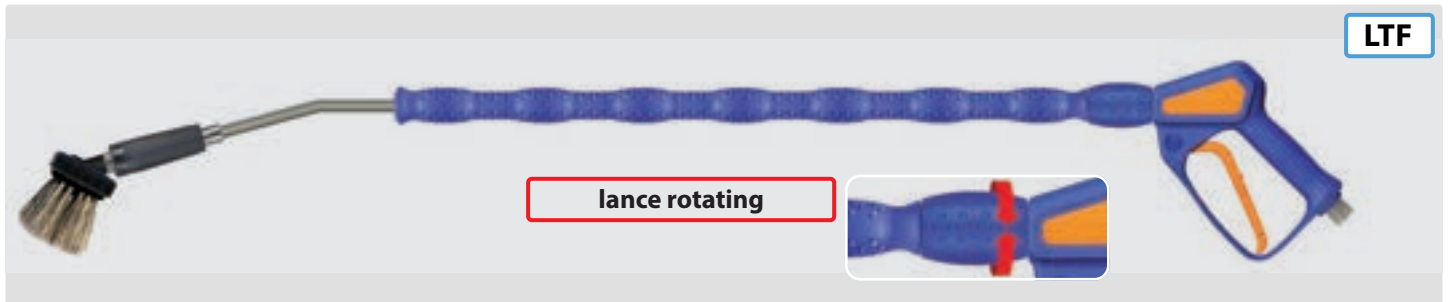
Retrofit kit for lances. Air injector turbofoam365+ and brush with cover plate. 20-150 bar. Max. 50 °C

Bristles 60 mm

R+M Nr.	Ⓢ	Ⓓ
500 023 101	1/4" F	1.20
500 023 102	1/4" F	1.35
500 023 105	1/4" F	1.60

Bristles 90 mm

R+M Nr.	Ⓢ	Ⓓ
500 023 201	1/4" F	1.20
500 023 202	1/4" F	1.35
500 023 205	1/4" F	1.60



LTF

Lance with moulded insulation Cool & Compact, easywash365+ spray gun, easywash365+ lance swivel, air injector turbofoam365+ and brush (bristles 60 mm). 20-150 bar. Max. 50 °C

R+M Nr.	spray gun	Ⓓ	ISO	Ⓢ	↔	Ⓢ
502 600 100 05	standard	1.6	700 mm	brush	900 mm	3/8" F swivel
502 610 100 05	weep	1.6	700 mm	brush	900 mm	3/8" F swivel
502 620 100 05	freeze stop	1.6	700 mm	brush	900 mm	3/8" F swivel
502 601 100 05	standard	1.6	700 mm	brush	1,200 mm	3/8" F swivel
502 611 100 05	weep	1.6	700 mm	brush	1,200 mm	3/8" F swivel
502 621 100 05	freeze stop	1.6	700 mm	brush	1,200 mm	3/8" F swivel



LTF

Lance with moulded insulation Cool & Compact, easywash365+ spray gun, air injector turbofoam365+ and brush (bristles 60 mm). 20-150 bar. Max. 50 °C

R+M Nr.	spray gun	Ⓓ	ISO	Ⓢ	↔	Ⓢ
502 600 000 05	standard	1.6	700 mm	brush	900 mm	3/8" F swivel
502 610 000 05	weep	1.6	700 mm	brush	900 mm	3/8" F swivel
502 620 000 05	freeze stop	1.6	700 mm	brush	900 mm	3/8" F swivel
502 601 000 05	standard	1.6	700 mm	brush	1,200 mm	3/8" F swivel
502 611 000 05	weep	1.6	700 mm	brush	1,200 mm	3/8" F swivel
502 621 000 05	freeze stop	1.6	700 mm	brush	1,200 mm	3/8" F swivel



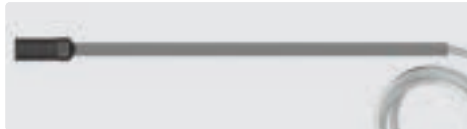
## ST-230 Pressure regulating valve-set



ST-230 with connection, ball valve, stainless steel lance 400 mm and hose 1,000 mm. Max. 250 bar / 30 l/min / 95 °C

R+M Nr.	Ⓢ	Ⓣ
530 404 1	M22 M	M22 F

## Suttner chemical suction set



Suction set with suction hose 1,500 mm, suction filters ST-31 and chemical-resistant plastic tube 320 mm. The tube keeps the suction filter at the deepest point.

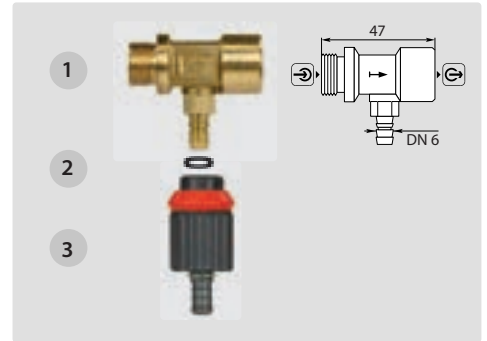
R+M Nr.	TYP	DN
200 031 500	clear PVC hose	6 mm
200 031 510	reinforced PVC hose blue	9 mm
200 031 520	reinforced PVC hose yellow	9 mm
200 031 530	reinforced PVC hose clear	9 mm



Suction set with filter check valve ST-32 and stainless steel tube 350 mm.

R+M Nr.	DN
200 032 601	6 mm
200 032 602	8 mm
200 032 603	10 mm

## Suttner foam injectors



Max. 250 bar / 60 °C.  
Mixing of chemicals approx. 0 - 11.5 %

R+M Nr.	TYP	D	Ⓢ	Ⓣ
200 060 700	1	ST-60.1	1.6	3/8" M 3/8" F
200 060 710	1	ST-60.1	1.8	3/8" M 3/8" F
050 000 370	2	o-ring		
200 061 500	3	metering valve	hose tail	Ⓢ 6 mm

### Repair kits



Chemical check valve. Hose tail 6 mm

R+M Nr.
200 060 725

## Hose clamps

1.4016 stainless steel housing and band.  
Hexagon screw zinc-plated. Worm gear high tension.  
Flat tape inner sides with turned up rims.  
According to DIN 3017, W2



Clamps with hexagon screw. Ⓢ 9 mm

R+M Nr.	VPE	DN
735 10	1	6 mm
735 20	1	8 mm
735 30	1	9/10 mm

R+M Nr.	VPE	DN
735 101 00	100	6 mm
735 201 00	100	8 mm
735 301 00	100	9/10 mm

W4 and W5 completely rust-free,  
is available on request

Suttner foam injectors

ST-60.1



Coupling ST-45-250 : plug ST-45-250. Injector with metering valve, suction hose 1,000 mm and suction filter ST-31. Max. 250 bar / 60 °C

R+M Nr.	⌀	↓
200 060 750		1.6 mm

ST-60.1



Injector without metering valve. Max. 250 bar / 60 °C

R+M Nr.	⌀	⌀	↓
200 060 700	3/8" M	3/8" F	1.6 mm
200 060 710	3/8" M	3/8" F	1.8 mm

ST-60.1



M22 F : M22 M. Injector with metering valve, suction hose 1,000 mm and suction filter ST-31. Max. 250 bar / 60 °C

R+M Nr.	⌀
200 060 760	1.6 mm

Metering valves



Valve for Suttner injector. Hose tail 6 mm

R+M Nr.
050 000 370 1
200 061 500 2

Repair kits



Chemical check valve. Hose tail 6 mm

R+M Nr.
200 060 725

The suitable foam lances are presented on pages 326- 336.

Intake filter for chemicals



DN 6 mm. ST-32. Brass

R+M Nr.	⌀	↓
200 032 800	20	32



DN 6 - 8 mm. ST-32. Stainless steel

R+M Nr.	⌀	↓
200 032 600	19	39



DN 6 - 8 mm. ST-31 without check valve. Plastic. Brass weight

R+M Nr.	⌀	↓
200 031 600	20	75



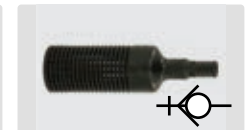
DN 6 - 8 mm. ST-31 without check valve. Plastic. Stainless steel weight

R+M Nr.	⌀	↓
200 031 615	20	75



DN 6 - 8 mm. ST-31R with check valve. Plastic. Brass weight

R+M Nr.	⌀	↓
200 031 610	20	75



DN 6 - 8 mm. ST-31R with check valve. Plastic. Stainless steel weight

R+M Nr.	⌀	↓
200 031 611	20	75

Symbols ⌀ outlet Ⓜ inlet Ⓜ nozzle ↓ height ⌀ diameter Ⓜ weight

## easyfoam365+ injectors by Suttner

### Injectors ST-160



3/8" F : 3/8" M : hose tail 9 mm. Injector for applications with chemicals and foam. The chemical dosing is adjusted by 10 exchangeable nozzle inserts (0.5 - 2.0 mm).  
Max. 350 bar / 90 °C

R+M Nr.	D
200 160 498	1.1 mm
200 160 499	1.2 mm
200 160 500	1.3 mm
200 160 505	1.4 mm
200 160 510	1.5 mm
200 160 515	1.6 mm
200 160 520	1.7 mm
200 160 525	1.8 mm
200 160 530	1.9 mm
200 160 535	2.0 mm
200 160 540	2.1 mm
200 160 545	2.2 mm
200 160 550	2.3 mm
200 160 560	2.5 mm
200 160 575	2.8 mm



3/8" F : 3/8" M : hose tail 9 mm. Injector ST-160 with metering valve ST-161.  
Max. 350 bar / 90 °C

R+M Nr.	D
200 160 599	1.1 mm
200 160 600	1.2 mm
200 160 601	1.3 mm
200 160 602	1.4 mm
200 160 603	1.5 mm
200 160 604	1.6 mm
200 160 605	1.7 mm
200 160 606	1.8 mm
200 160 607	1.9 mm
200 160 608	2.0 mm
200 160 609	2.1 mm
200 160 610	2.2 mm
200 160 611	2.3 mm
200 160 613	2.5 mm
200 160 614	2.8 mm

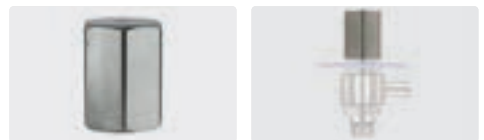
### Injectors ST-166



3/8" F : 3/8" M : 2 hose tails 9 mm. Injector for applications with chemicals and foam. The injector sucks in/admixes up to two chemicals at the same time. The chemical dosing is adjusted by 2 x 10 exchangeable nozzle inserts (0.5 - 2.0 mm).  
Max. 350 bar / 90 °C

R+M Nr.	D
200 166 500	1.3 mm
200 166 510	1.6 mm
200 166 530	1.9 mm

### Valve lock



Valve lock for metering valve ST-161

R+M Nr.
040 003 566

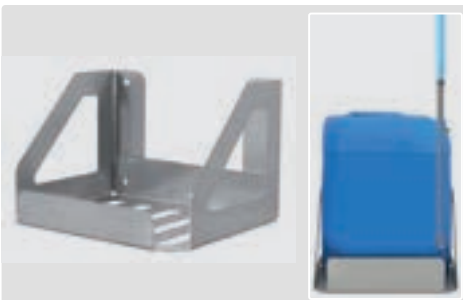
### easyfoam365+ injector unit ST-160



M22 M : M22 M. Injector ST-160 with metering valve ST-162. including chemical suction set comprising of suction hose DN 8 blue. 1.500 mm. suction filter ST-31 and chemical-resistant plastic tube. 320 mm. Lockable in sturdy stainless steel box.  
Max. 350 bar / 90 °C

R+M Nr.	D
105 160 100	1.1 mm
105 160 101	1.2 mm
105 160 102	1.3 mm
105 160 103	1.4 mm
105 160 104	1.5 mm
105 160 105	1.6 mm
105 160 106	1.7 mm
105 160 107	1.8 mm
105 160 108	1.9 mm
105 160 109	2.1 mm
105 160 110	2.3 mm
105 160 111	2.8 mm

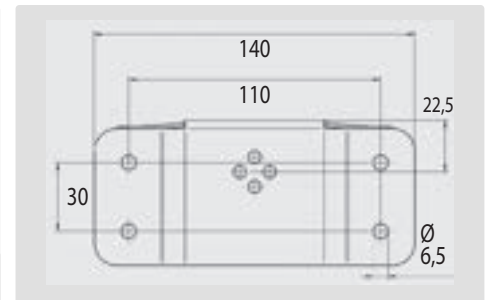
### Wall brackets for canisters



Stainless steel.  
Mounting holes 8.5 mm

R+M Nr.	H x W x D	D
105 000 001	160 x 250 x 210	1.2
105 000 002	200 x 285 x 310	2.0

### ST-160 wall mount



Stainless steel. Incl. fastening material for the injector.  
Fits for ST-160+161 and 166

R+M Nr.
200 160 160

## easyfoam365+ injectors

## Injectors ST-160 with metering valve ST-161



Coupling ST-45-250 stainless steel : plug ST-45-250 stainless steel. Injector with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 250 bar / 90 °C

R+M Nr.	D
200 160 846	1.3 mm
200 160 847	1.4 mm
200 160 848	1.5 mm
200 160 849	1.6 mm
200 160 850	1.7 mm
200 160 851	1.8 mm
200 160 854	2.1 mm
200 160 855	2.2 mm
200 160 856	2.3 mm



Coupling ST-45-250 nickel-plated brass : plug ST-45-250 zinc-plated steel. Injector with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 250 bar / 90 °C

R+M Nr.	D
200 160 861	1.3 mm
200 160 862	1.4 mm
200 160 863	1.5 mm
200 160 864	1.6 mm
200 160 865	1.7 mm
200 160 866	1.8 mm
200 160 869	2.1 mm
200 160 870	2.2 mm
200 160 871	2.3 mm



M22 F : M22 M. Injector with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31.

Max. 350 bar / 90 °C

R+M Nr.	D
200 160 804	1.3 mm
200 160 800	1.4 mm
200 160 801	1.5 mm
200 160 802	1.6 mm
200 160 805	1.7 mm
200 160 806	1.8 mm
200 160 809	2.1 mm
200 160 810	2.2 mm
200 160 811	2.3 mm

## Injectors ST-160



Coupling ST-45-250 nickel-plated brass : plug ST-45-250 stainless steel. Injector ST-160 with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 250 bar / 90 °C

R+M Nr.	D
200 160 616	1.8 mm : 2.3 mm
200 160 615	1.7 mm : 2.3 mm
200 160 617	2.2 mm : 2.8 mm

## easyfoam365+ bypass injectors ST-167



Coupling ST-45-250 stainless steel : plug ST-45-250 stainless steel. Injector ST-167 with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 250 bar / 100 °C

R+M Nr.	D
200 167 855	1.8 mm : 2.3 mm



Coupling ST-45-250 nickel-plated brass : plug ST-45-250 stainless steel. Injector ST-167 with metering valve ST-161, suction hose 2,000 mm and suction filter ST-31. Max. 250 bar / 100 °C

R+M Nr.	D
200 167 850	1.8 mm : 2.3 mm
200 167 860	1.8 mm : 2.8 mm

Reference list manufacturer number to R+M number A

Manufacturer Nr.	R+M Nr.
640 124 4	200 160 616
640 124 4	200 160 615
640 124 6	200 160 617
640 124 2	200 167 850
640 124 3	200 167 855
640 124 7	200 167 860

R+M high quality spare parts are obtained from well-established manufacturers. As a rule they are not original spare parts. The original order numbers and the indication of other information are exclusively for your guidance and furthermore they are not intended for the general use (e.g. invoices addressed to end users). In case of mentioning the original order numbers in your orders it can not be assumed that the products ordered are original spare parts. Original spare parts are supplied when they are especially offered as those in our catalogue or in other mailing pieces such as special offers or newsletters.

Symbols D nozzle

## easyfoam365+ foam injector ST-160.2

In order to produce foam with the ST-160.2 a foam lance without air intake is absolutely required. The air quantity needed for foaming is supplied by an additional connection positioned at the injector. The use of a spray gun with large cross section areas such as for example ST-2720, ST-2725, ST-3100 or ST-3300 with suitable lances and foam hoses (blufood) is recommended.

The injector is especially designed for low and medium pressure applications from a water inlet pressure of 5 bar and it generates an excellent foam when being provided with the required quantity of compressed air.

Injector chemically resistant stainless steel 1.4305 / AISI 304. Injector with metering valve ST-161, compressed air connection and wall bracket. Inlet / outlet 1/2" F. Max. 350 bar / 90 °C



### easyfoam365+

R+M Nr.	D
200 160 650	030
200 160 651	035
200 160 652	040
200 160 653	045
200 160 654	055
200 160 655	060
200 160 656	070
200 160 657	080
200 160 658	085
200 160 659	090
200 160 660	100
200 160 661	110
200 160 662	120
200 160 663	125
200 160 664	140
200 160 665	150
200 160 666	180

## easyfoam365+ foam injector ST-160.3

**ST-160.3 – injector for large water quantities and high dosages**

The stainless steel injector features three pairs of injector and nozzle in one housing which can be configured independently. This enables numerous metering and foam applications.

Since each pair of nozzles has its own chemical inlet, different chemicals can also be mixed in different ratios.

In the low-pressure range, flow rates of up to 20 l/min can be realised. This is why, the injector is suitable for quick and easy filling of scrubber dryer while up to 5 l/min of cleaning agent can be added.

In the high-pressure range, water quantities of more than 100 l/min can be realised without any problems. For example, fixed or mobile foam arches, such as required for cleaning the inside of tunnels, can be operated with a large number of foam nozzles.

In order to produce large foam quantities in the low-pressure range, the injector is provided with an compressed air connection.

Injector chemically resistant stainless steel 1.4305 / AISI 304. Injector with compressed air connection and wall bracket. Inlet / outlet 1/2" F. Max. 350 bar / 90 °C



### easyfoam365+

R+M Nr.	D
200 160 301	075
200 160 302	090
200 160 303	105
200 160 304	120
200 160 305	135
200 160 306	165
200 160 307	180
200 160 308	210
200 160 309	240
200 160 310	255
200 160 311	270
200 160 312	300
200 160 313	330
200 160 314	360
200 160 315	375
200 160 316	420
200 160 317	450
200 160 318	540

Symbols nozzle colour inlet outlet



Intake manifold

easyfoam365 + Intake manifold ST-163.1



Intake manifold for easyfoam365 + injectors.  
4 color-coded suction options. Control by turning the rotating part.  
Including O-ring and 4 sets of dosing nozzles

R+M Nr.	D
200 163 185	4 sets of dosing nozzles



Repair-Kit



R+M Nr.
200 163 187

Intake manifold ST-163.1 accessories



Stainless steel wall bracket for intake manifold

R+M Nr.
040 004 013

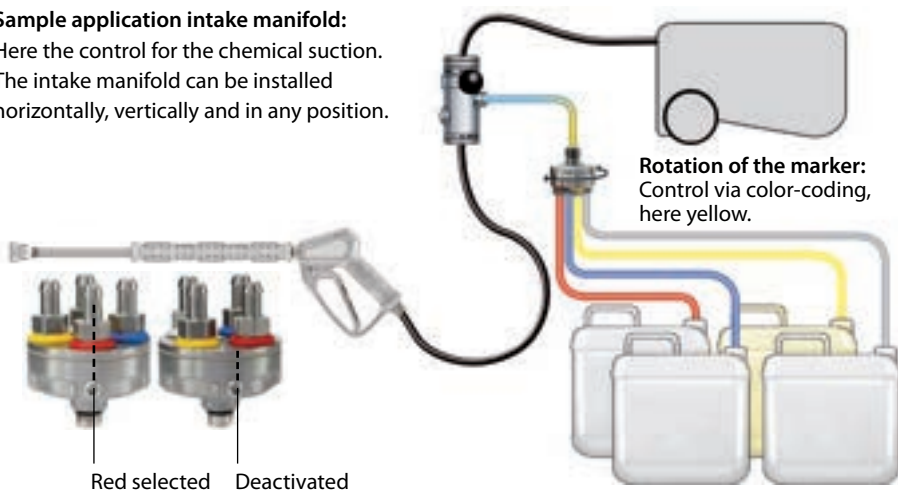


Stainless steel hose barb for intake manifold.  
Also for mounting on the wall bracket

R+M Nr.
040 003 590

Sample application intake manifold:

Here the control for the chemical suction.  
The intake manifold can be installed horizontally, vertically and in any position.



Red selected Deactivated

Rotation of the marker:  
Control via color-coding,  
here yellow.

Deactivation of the suction when the marking is in the middle between two nozzles.

Rotation of the marker:  
Control via color-coding,  
here red.

Direct connection to ST-167/168: Use 200 163 186 adapter.



Stainless steel adapter for intake manifold.  
Incl. O-ring. For mounting on the easyfoam365 + injectors ST-167 / ST-168

R+M Nr.
200 163 186

Symbols nozzle



## Accessories injectors

### Return valves



Hose tail : M14 M. V2A.  
With o-ring

<b>R+M Nr.</b>
200 163 350



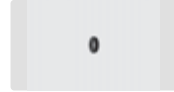
1/4" M : M14 M. V2A.  
With o-ring

<b>R+M Nr.</b>
200 163 356



1/4" M : M18 M. (ST-164).  
With o-ring

<b>R+M Nr.</b>
200 164 366



O-rings

<b>R+M Nr.</b>	
050 000 264	2.9 x 1.78
050 000 300	10.82 x 1.78



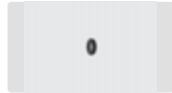
Hose tail 9 mm : M14 M.  
V4A Extreme.  
Highest chemical resistance.  
With o-ring

<b>R+M Nr.</b>
200 163 351



1/4" M : M14 M. V4A Extreme.  
Highest chemical resistance.  
With o-ring

<b>R+M Nr.</b>
200 163 352



O-rings.

Highest chemical resistance



<b>R+M Nr.</b>	
050 001 450	2.9 x 1.78
050 000 302	10.82 x 1.78

### Plug



M14 M. Compressed air connection  
(ST-160.2/ST-160.3/ST-162/ST-167/  
ST-168). Without o-ring

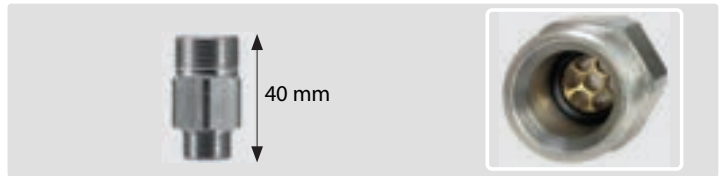
<b>R+M Nr.</b>
040 003 625



M18 M. Compressed air connection  
(ST-164).  
With o-ring

<b>R+M Nr.</b>
200 164 345

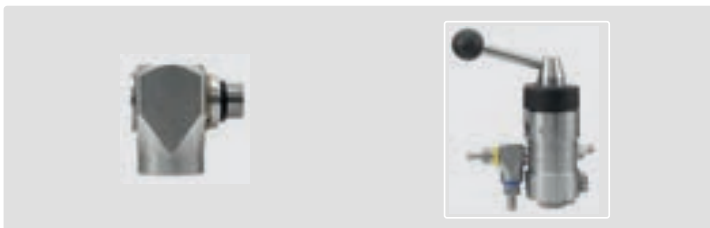
### Ultra High Pressure Filter



Stainless steel with brass mesh holder and stainless steel strainer. Suitable as inlet water filter for ST-164. Max. 400 bar / 100 °C

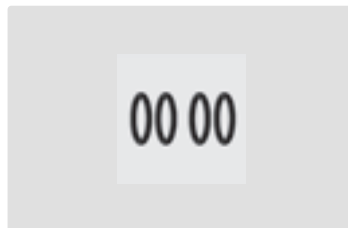
<b>R+M Nr.</b>		
200 163 100	M 22 M	3/8" M

### Two component inlet



M14 M. : M14 F : M14 F. V2A. (ST-160/ST-160.2/ST-160.3/ST-162/ST-164/  
ST-166/ST-167/ST-168). With o-rings

<b>R+M Nr.</b>
200 164 355



Rep. Kit. 2 x 2 O-rings

<b>R+M Nr.</b>
200 164 365

Accessories injectors

Metering valves ST-161



Hose tail 9 mm : M14 M. Metering valve ST-161 suitable for being refitted in **easyfoam365+** injectors (ST-160/ST-162/ST-164/ST-166/ST-167/ST-168)

R+M Nr.	<input type="checkbox"/>
200 161 500	blue (FKM)



Hose tail 9 mm : M14 M. Metering valve ST-161 suitable for being refitted in **easyfoam365+** injectors (ST-160/ST-162/ST-164/ST-166/ST-167/ST-168)

R+M Nr.	<input type="checkbox"/>
200 161 515	grey (EPDM)



Hose tail 9 mm : hose tail 9 mm. Panel mount is possible

R+M Nr.	<input type="checkbox"/>
200 161 510	blue (FKM)

Compressed air module ST-164



1/4" F : M18 M. Compressed-air module (ST-164) for automatic shut-off of compressed-air supply when water supply is switched off



R+M Nr.
200 164 370

Compressed air module ST-163



Hose tail 9 mm : 1/2" M swivel : 1/2" F. Stainless steel. For injection of compressed air. Max. 350 bar / 60 °C

R+M Nr.
200 163 450



1/4" M : 1/2" M swivel : 1/2" F. Stainless steel. For injection of compressed air. Max. 350 bar / 60 °C

R+M Nr.
200 163 451

Ring for suction marking



Plastic. Grey. For compressed air

R+M Nr.
020 005 108



Plastic. Red. For foaming agents

R+M Nr.
020 005 101



Plastic. Blue. For foaming agents

R+M Nr.
020 005 100



Plastic. Yellow. For disinfectant

R+M Nr.
020 005 105

## Accessories injectors

### Exchangeable nozzle inserts



Stainless steel V2A. Excl. o-rings

R+M Nr.	D	VPE
040 004 705	0.5 mm	1
040 004 706	0.6 mm	1
040 004 707	0.7 mm	1
040 004 708	0.8 mm	1
040 004 709	0.9 mm	1
040 004 710	1.0 mm	1
040 004 711	1.1 mm	1
040 004 712	1.2 mm	1
040 004 713	1.3 mm	1
040 004 714	1.4 mm	1
040 004 715	1.5 mm	1
790 041 010	o-rings	10



Stainless steel V4A. Excl. o-rings

R+M Nr.	D	VPE
040 004 803	0.30 mm	1
040 004 813	0.35 mm	1
040 004 804	0.40 mm	1
040 004 805	0.50 mm	1
050 001 450	o-ring	1



Plastic. 10 nozzle inserts (0.5 - 2.0 mm). Incl. o-rings

R+M Nr.
200 163 340



Plastic. 9 nozzle inserts (0.5 - 1.5 mm). Incl. o-rings. Incl. 1 insert without hole

R+M Nr.
200 163 335

### Diffusor nozzles



Stain. steel. Diffusor nozzle screwable

R+M Nr.	D
040 003 514	1.4
040 003 517	1.7
040 003 521	2.0
040 003 523	2.3
040 003 528	2.8
040 003 532	3.2

### Metering valves



Hose tail 9 mm : 1/4" F. V4A extreme. Highest resistance to chemistry

R+M Nr.
200 163 300

### Injector nozzles



Stain. steel. Injector nozzle screwable

R+M Nr.	D
040 003 641	1.1
040 003 642	1.2
040 003 643	1.3
040 003 644	1.4
040 003 645	1.5
040 003 646	1.6
040 003 647	1.7
040 003 648	1.8
040 003 649	1.9
040 003 650	2.0
040 003 651	2.1
040 003 652	2.2
040 003 653	2.3
040 003 654	2.4
040 003 655	2.5
040 003 656	2.6
040 003 657	2.7
040 003 658	2.8



Stain. steel. Injector nozzle plug-in

R+M Nr.	D
040 003 534	1.2
040 003 535	1.3
040 003 536	1.4
040 003 537	1.5
040 003 538	1.6
040 003 539	1.7
040 003 541	1.8
040 003 542	1.9
040 003 543	2.0
040 003 544	2.1
040 003 546	2.2
040 003 547	2.3
040 003 548	2.4
040 003 531	2.5
040 003 549	2.8

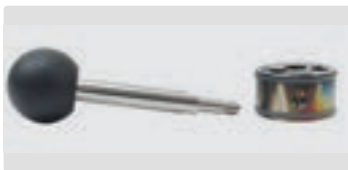
### Pressure regulator



1/4" F. 0.5 - 10 bar. 1/8" F pressure gauge. Connection for compressed air (ST-164 and ST-168)

R+M Nr.
150 008 010

### Operating cylinder



ST-167 / ST-168. Stainless steel

R+M Nr.
200 168 491

### Seal kit for operating cylinder



Operating cylinder. FEPM

R+M Nr.
200 168 489

### Repair Kit ST-164



Kit ST-164

R+M Nr.
200 164 490

### Repair Kit ST-164



Kit for stopper ST-164

R+M Nr.
200 164 485

Symbols D nozzle VPE packing unit C colour

Accessories injectors

Reinforced PVC hoses clear



For compressed air or chemicals.  
Max. 60 °C

Per metre

R+M Nr.	DN	↔	↗
306 55	9		3

Complete rolls

R+M Nr.	DN	↔	↗
306 550 50	9	50 m	3

Reinforced PVC hoses blue



For foaming agent. Blue.  
Max. 60 °C

Per metre

R+M Nr.	DN	↔	↗
080 000 310	9		3

Complete rolls

R+M Nr.	DN	↔	↗
306 560 50	9	50 m	3

Reinforced PVC hoses yellow



For disinfectant. Yellow.  
Max. 60 °C

Per metre

R+M Nr.	DN	↔	↗
080 000 320	9		3

Complete rolls

R+M Nr.	DN	↔	↗
306 570 50	9	50 m	3

Trolley



- » Multifunctional trolley for foam and disinfection units
- » Stainless steel. Trolley with two grey and non-fading wheels
- » Manoeuvrable and easy to handle such as a sack truck
- » Open space for placing the canister, thus ensuring an unhindered discharge of spilled liquids
- » Ergonomic plastic handle strip which is easily unscrewable for the food industry
- » Two laterally attached lance holder
- » Sufficient space for 2 container with chemicals comprising up to 25 kg each.
- » H x W x D 1,150 x 540 x 620 mm

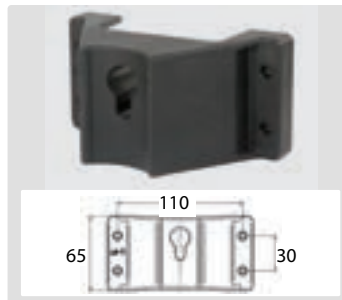
R+M Nr.	↗
710 000 163 389	14,0



- » Trolley for foam units
- » Stainless steel. Trolley with two grey and non-fading wheels as well as one grey guide roll.
- » Two laterally attached lance holder
- » Space for two container with chemicals comprising up to 30 kg each.
- » H x W x D 1,080 x 680 x 760 mm

R+M Nr.	↗
200 163 389	20.5

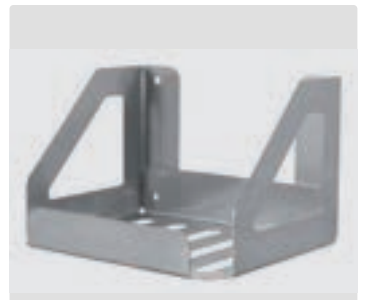
Wall bracket for injectors



for ST-164, ST-167, ST-168, ST-160.2, ST-160.3, ST-162 panelversion

R+M Nr.
200 168 420

Wall brackets for canisters



Stainless steel. Mounting holes 8.5 mm

R+M Nr.	H x W x D	↗
105 000 001	160 x 250 x 210	1.2
105 000 002	200 x 285 x 310	2.0

## easyfoam365+ bypass injectors ST-167 without compressed air module

easyfoam365+ product line has been enlarged

The injectors completely made out of stainless steel make it possible to open two cross section areas (50 mm<sup>2</sup> each) in order to guarantee a smooth use without drop in pressure when washing/rinsing. This ensures that the injector can be permanently kept in the high pressure line, also at the time when large water quantities are used e.g. in the agriculture or food industry. The cleaning capacity when cleaning and rinsing is not affected at all. A lever makes it possible to change from the cleaning and rinsing mode into injector operation. When using the cleaning mode, there are two bore holes guiding the high pressure water parallel to the injector (bypass mode). When using the injector the available water quantity is guided through the injection area.

In combination with a foam lance (ST-72, ST-74 oder ST-75), an adjustable or a triple nozzle the **easyfoam365+** injector ST-167 can suck in chemicals by means of the integrated check valve made out of stainless steel. It depends on the chosen nozzle whether the chemical can also be sprayed on or foamed. The foaming covers large areas and a long exposure time

is guaranteed. One further advantage of the foam cleaning is that already covered surfaces are easily seen.

The **easyfoam365+** injector which is available in the nozzle size of 1.2 - 2.8 mm meets the requirements in every field of application in the professional cleaning industry. The dosing is adjusted by one of the 10 nozzle inserts which are included in the consignment. As an alternative there are also versions with the infinitely variable dosing unit ST-161 available.

The connection for chemicals equipped with an integrated check valve and an intake for the nozzle inserts has a hose tail for chemical suction hoses being 9 mm in diameter in order to suck in especially viscous fluids. The direction of flow is marked with arrows to guarantee a smooth installation.

### easyfoam365+ bypass injectors ST-167



1/2" F : 1/2" F : hose tail 9 mm. The chemical dosing is adjusted by 10 exchangeable nozzle inserts (0.5 - 2.0 mm).  
Max. 350 bar / 100 °C

1/2" F : 1/2" F : hose tail 9 mm. The chemical dosing is adjusted by 10 exchangeable nozzle inserts (0.5 - 2.0 mm).  
Max. 500 bar / 100 °C



1/2" F : 1/2" F : hose tail 9 mm. Injector ST-167 with metering valve ST-161.  
Max. 350 bar / 100 °C



1/2" F : 1/2" F : hose tail 9 mm. Injector ST-167 with metering valve extreme.  
Max. 350 bar / 100 °C

R+M Nr.	D
200 167 500	1.2 mm
200 167 501	1.3 mm
200 167 502	1.4 mm
200 167 503	1.5 mm
200 167 504	1.6 mm
200 167 505	1.7 mm
200 167 506	1.8 mm
200 167 507	1.9 mm
200 167 508	2.0 mm
200 167 509	2.1 mm
200 167 510	2.2 mm
200 167 511	2.3 mm
200 167 512	2.4 mm
200 167 513	2.5 mm
200 167 516	2.8 mm

R+M Nr.	D
200 167 500 5	1.2 mm
200 167 501 5	1.3 mm
200 167 502 5	1.4 mm
200 167 503 5	1.5 mm
200 167 504 5	1.6 mm
200 167 505 5	1.7 mm
200 167 506 5	1.8 mm
200 167 507 5	1.9 mm
200 167 508 5	2.0 mm
200 167 509 5	2.1 mm
200 167 510 5	2.2 mm
200 167 511 5	2.3 mm
200 167 512 5	2.4 mm
200 167 513 5	2.5 mm
200 167 516 5	2.8 mm

R+M Nr.	D
200 167 600	1.2 mm
200 167 601	1.3 mm
200 167 602	1.4 mm
200 167 603	1.5 mm
200 167 604	1.6 mm
200 167 605	1.7 mm
200 167 606	1.8 mm
200 167 607	1.9 mm
200 167 608	2.0 mm
200 167 609	2.1 mm
200 167 610	2.2 mm
200 167 611	2.3 mm
200 167 612	2.4 mm
200 167 613	2.5 mm
200 167 616	2.8 mm

R+M Nr.	D
200 167 630	1.2 mm
200 167 631	1.3 mm
200 167 632	1.4 mm
200 167 633	1.5 mm
200 167 634	1.6 mm
200 167 635	1.7 mm
200 167 636	1.8 mm
200 167 637	1.9 mm
200 167 638	2.0 mm
200 167 639	2.1 mm
200 167 640	2.2 mm
200 167 641	2.3 mm
200 167 642	2.4 mm
200 167 643	2.5 mm
200 167 644	2.8 mm

Symbols  $\square$  nozzle  $\square$  length  $\square$  wall thickness  $\square$  DN nominal diameter  $\square$  weight (kg)

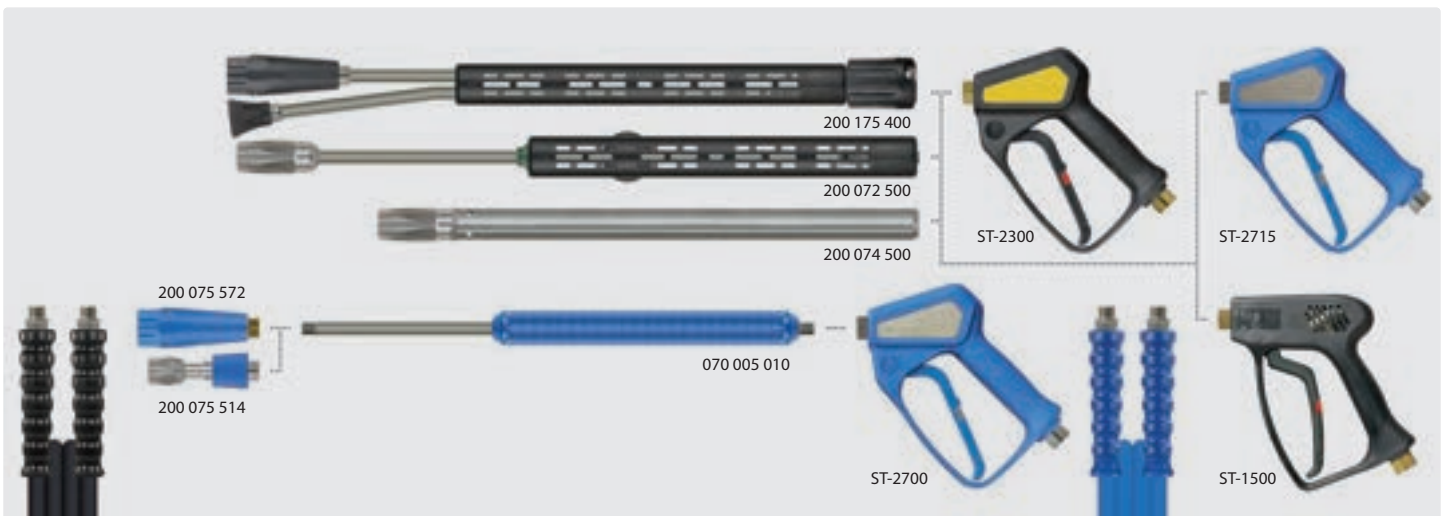
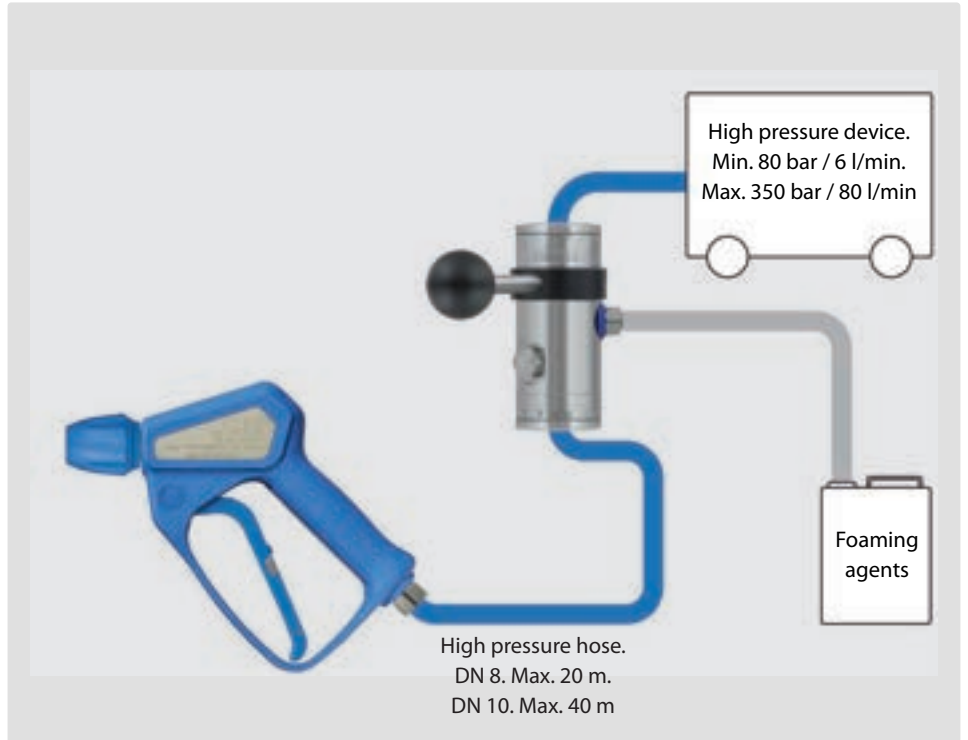
Assembly scheme easyfoam365+ bypass injectors ST-167 without compressed air module



easyfoam365+ bypass injector ST-167 with hose tail 9 mm



easyfoam365+ bypass injector ST-167 with metering valve ST-161 and hose tail 9 mm



Symbols nozzle inlet outlet



## easyfoam365+ bypass injectors ST-168 with compressed air module

easyfoam365+ product line has been enlarged

The injectors completely made out of stainless steel make it possible to open two cross section areas (50 mm<sup>2</sup> each) in order to guarantee a smooth use without drop in pressure when washing/rinsing. This ensures that the injector can be permanently kept in the high pressure line, also at the time when large water quantities are used e.g. in the agriculture or food industry. The cleaning capacity when cleaning and rinsing is not affected at all. A lever makes it possible to change from the cleaning and rinsing mode into injector operation. When using the cleaning mode, there are two bore holes guiding the high pressure water parallel to the injector (bypass mode). When using the injector the available water quantity is guided through the injection area.

In order to produce foam a foam lance without air intake is absolutely required. The air quantity needed for foaming is supplied by an additional connection positioned at the injector. The use of a spray gun with large cross section areas such as for example ST-2720, ST-2725, ST-3100 or ST-3300 with suitable lances

and foam hoses (blufood) is recommended. The injector ST-168 is especially designed for low and medium pressure applications from a water inlet pressure of 5 bar and it generates an excellent foam when being provided with the required quantity of compressed air.

The easyfoam365+ injector which is available in the nozzle size of 1.2 - 2.8 mm meets the requirements in every field of application in the professional cleaning industry. The dosing is adjusted by one of the 10 nozzle inserts which are included in the consignment. As an alternative there are also versions with the infinitely variable dosing unit ST-161 available.

The connection for chemicals equipped with an integrated check valve and an intake for the nozzle inserts has a hose connector for chemical suction hoses being 9 mm in diameter in order to suck in especially viscous fluids. The direction of flow is marked with arrows to guarantee a smooth installation.

### easyfoam365+ bypass injectors ST-168



1/2" F : 1/2" F.  
Injector ST-168 with hose tail 9 mm and compressed air module (hose tail 9 mm). The chemical dosing is adjusted by 10 exchangeable nozzle inserts (0.5 - 2.0 mm).  
Max. 350 bar / 100 °C



1/2" F : 1/2" F.  
Injector ST-168 with metering valve ST-161 and compressed air module (hose tail 9 mm).  
Max. 350 bar / 100 °C

R+M Nr.	D
200 168 500	1.2 mm
200 168 505	1.3 mm
200 168 515	1.4 mm
200 168 525	1.5 mm
200 168 535	1.6 mm
200 168 545	1.7 mm
200 168 555	1.8 mm
200 168 605	1.9 mm
200 168 615	2.0 mm
200 168 625	2.1 mm
200 168 635	2.2 mm
200 168 645	2.3 mm
200 168 650	2.4 mm
200 168 655	2.5 mm
200 168 660	2.8 mm

R+M Nr.	D
200 168 600	1.2 mm
200 168 601	1.3 mm
200 168 602	1.4 mm
200 168 603	1.5 mm
200 168 604	1.6 mm
200 168 613	1.7 mm
200 168 606	1.8 mm
200 168 607	1.9 mm
200 168 608	2.0 mm
200 168 609	2.1 mm
200 168 610	2.2 mm
200 168 611	2.3 mm
200 168 612	2.4 mm
200 168 616	2.5 mm
200 168 617	2.8 mm

## easyfoam365+ Injector ST-162 panel mount version of ST-167/168



☉ 3/8" F: ☉ 1/2" F.  
Hose tail 9 mm.  
Injector ST-162 incl. 10 exchangeable nozzle inserts (0.5 - 2.0 mm) for regulation of chemical dosing.  
Improved foam characteristics due to symmetric air blow-in around the diffusor nozzle.  
Max. 350 bar / 100 °C

R+M Nr.	D
200 162 500	1.2 mm
200 162 501	1.3 mm
200 162 502	1.4 mm
200 162 503	1.5 mm
200 162 504	1.6 mm
200 162 505	1.7 mm
200 162 506	1.8 mm
200 162 507	1.9 mm
200 162 508	2.0 mm
200 162 509	2.1 mm
200 162 510	2.2 mm
200 162 511	2.3 mm
200 162 512	2.4 mm
200 162 513	2.5 mm
200 162 514	2.8 mm

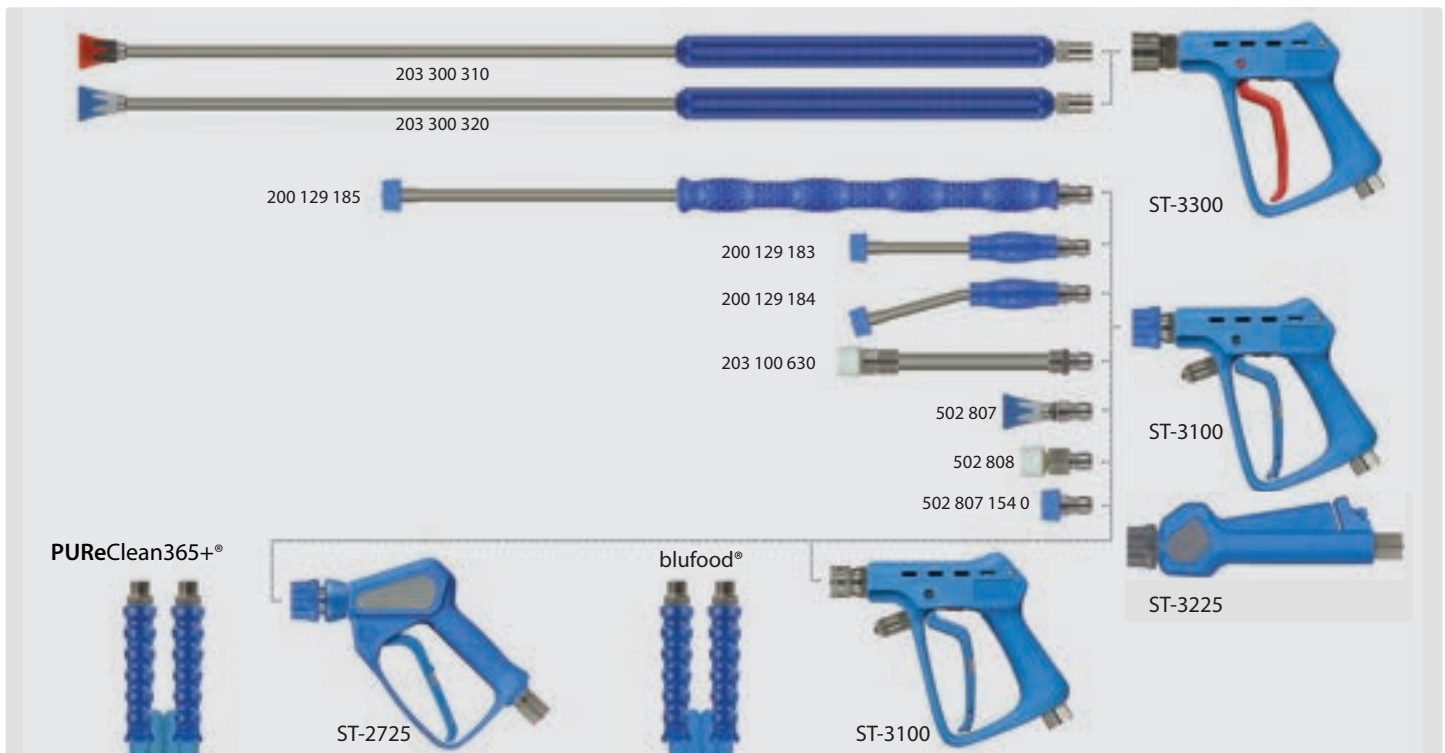
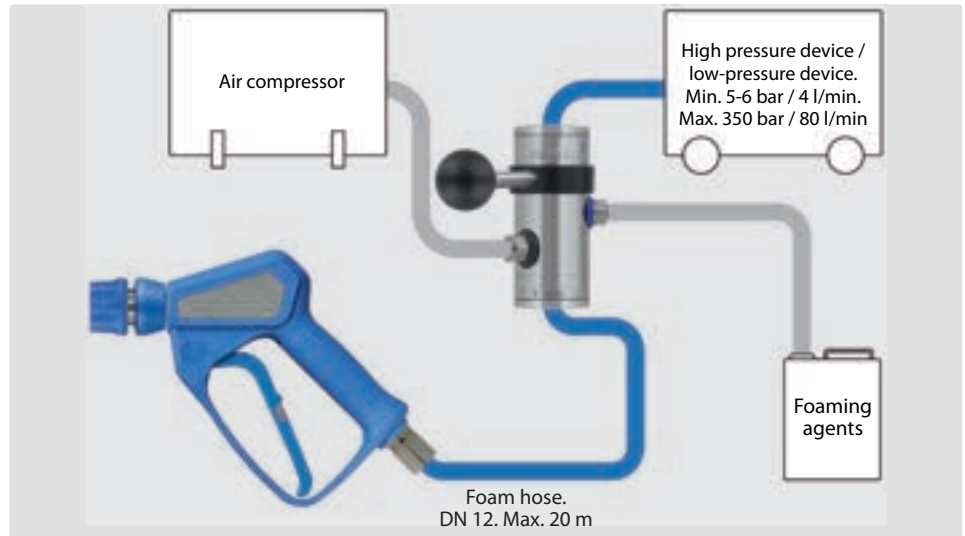
### Assembly scheme easyfoam365+ bypass injectors ST-168 with compressed air module



Bypass injector ST-168 with hose tail 9 mm and compressed air module (hose tail 9 mm).



Bypass injector ST-168 with metering valve ST-161 & compressed air module (hose tail 9 mm).

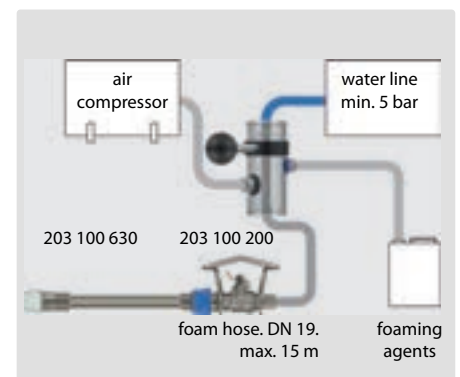


#### Have you already known? ...that our bypass injector ST-168 can also be operated with water line pressure.

The compressed air-driven **easyfoam365+** bypass injectors of the series ST-168 are designed for foam applications with medium pressure units (10 to 50 bar) in the field of the food industry. The **easyfoam365+** bypass injector ST-168 is a real alternative especially for smaller companies such as farmers or fish breeding companies which are selling the goods ex farmyard. These smaller companies have to stick to the existing hygiene standards such as larger firms, but they are reasonably shy at the great investment volume for a medium pressure unit.

By means of only water line pressure - 5 bar flow pressure - and the appropriate accessories for the spraying unit - hose with big nominal width, ball valve 203 100 200 and suitable foam lance 203 100 630 an excellent foam quality is reached.

When switching the lever from the injector operation into cleaning and rinsing mode the addition of cleaning agent and disinfectant is stopped and the fully available water quantity passes the bypass injector nearly without any drop in pressure.



## easyfoam365+ foam and disinfectant units ST-164

**Field of application:** Designed for the cleaning of vehicles carrying cattle, food, frozen foods and fish in order to avoid bacterial spread. Also suitable for cleaning milking parlours and applicable in cattle breeding, piggery, poultry farming and in the pisciculture.

The foam device is a combination made out of stainless steel and special high performance plastics. The addition of one out of two connected chemicals is determined by positioning the lever.

All versions are suitable for the addition in low pressure from approx. 5 bar up to max. 350 bar.

When being operated in rinsing function up to 60 l/min pass through the unit without any drop in pressure.

In combination with a foam lance (ST-72, ST-74 or ST-75), an adjustable or a triple nozzle the ST-164 injector can suck in chemicals by means of the integrated check valve made out of stainless steel and spray them on or

foam them depending on the chosen nozzle.

The injector has an optional compressed air connection in order to supply the required air quantity for foaming already in the injector unit.

For the application of foam a foam lance without air intake is absolutely required. The use of a spray gun with large cross section areas such as for example ST-2720, ST-2725, ST-3100 or ST-3300 with suitable lances and foam hoses (blufood) is recommended.

The injector is especially designed for low and medium pressure applications from a water inlet pressure of 5 bar and it generates an excellent foam when being provided with the required quantity of compressed air.

The ST-164 injector is available in the nozzle size of 1.2 - 2.8 mm.

The dosing is adjusted by one of the 10 nozzle inserts which are included in the consignment. The connection for chemicals is equipped with an integrated check valve.

### Injectors without compressed air module



3/8" F : 1/2" F : 2 x hose tail 9 mm. The chemical dosing is adjusted by 2 x 10 exchangeable nozzle inserts (0.5 - 1.5 mm).  
Max. 350 bar / 100 °C

R+M Nr.	D
200 164 500	1.3 mm
200 164 502	1.4 mm
200 164 503	1.5 mm
200 164 504	1.6 mm
200 164 505	1.7 mm
200 164 506	1.8 mm
200 164 507	1.9 mm
200 164 508	2.0 mm
200 164 509	2.1 mm
200 164 510	2.2 mm
200 164 511	2.3 mm
200 164 512	2.4 mm
200 164 513	2.5 mm
200 164 514	2.8 mm

### Injectors with compressed air module



3/8" F : 1/2" F : 2 x Hose tail 9 mm : compressed air module (1/4" M). The chemical dosing is adjusted by 2 x 10 exchangeable nozzle inserts (0.5 - 2 mm). Max. 350 bar / 100 °C

R+M Nr.	D
200 164 580	1.3 mm
200 164 582	1.4 mm
200 164 583	1.5 mm
200 164 584	1.6 mm
200 164 585	1.7 mm
200 164 586	1.8 mm
200 164 587	1.9 mm
200 164 588	2.0 mm
200 164 589	2.1 mm
200 164 590	2.2 mm
200 164 591	2.3 mm
200 164 592	2.4 mm
200 164 593	2.5 mm
200 164 594	2.8 mm

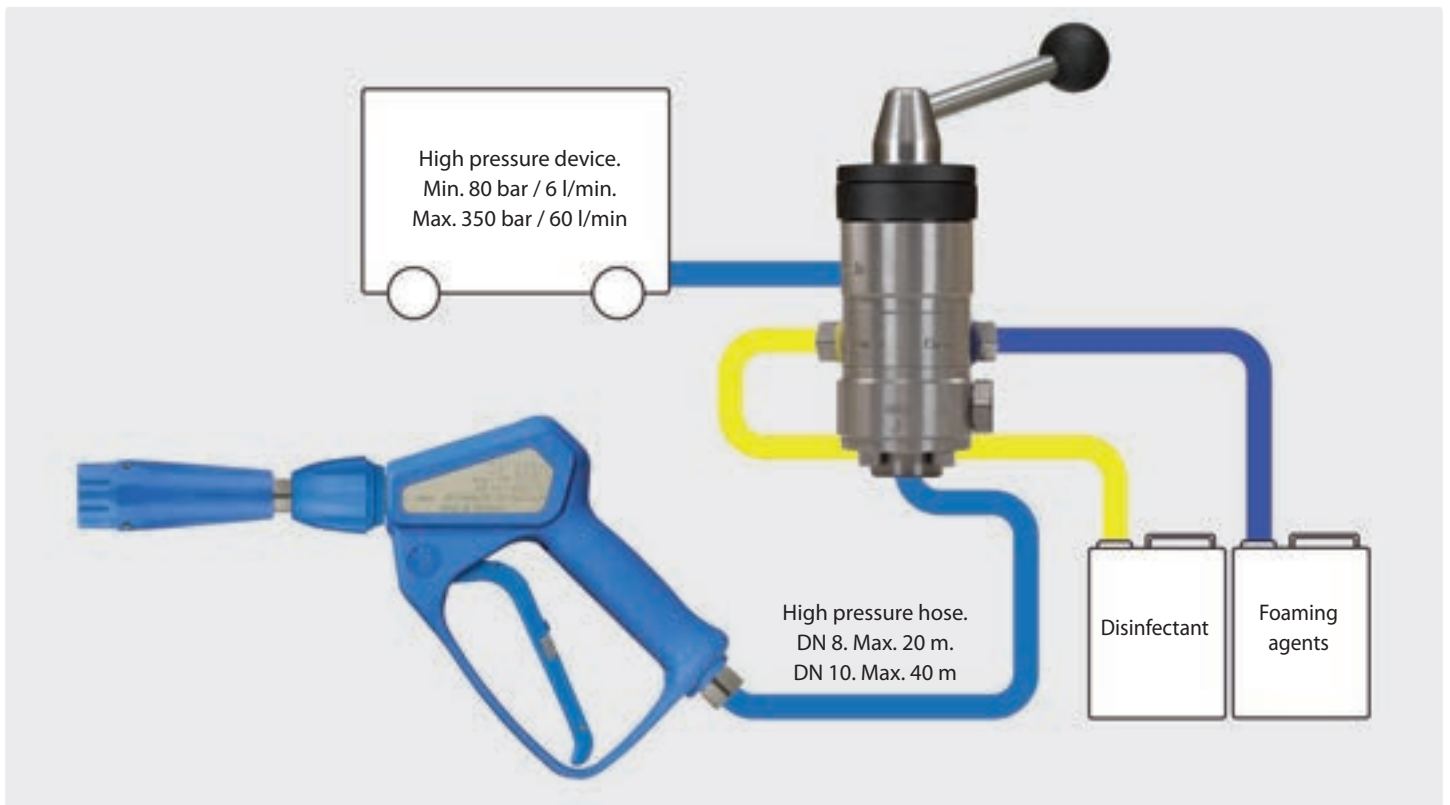
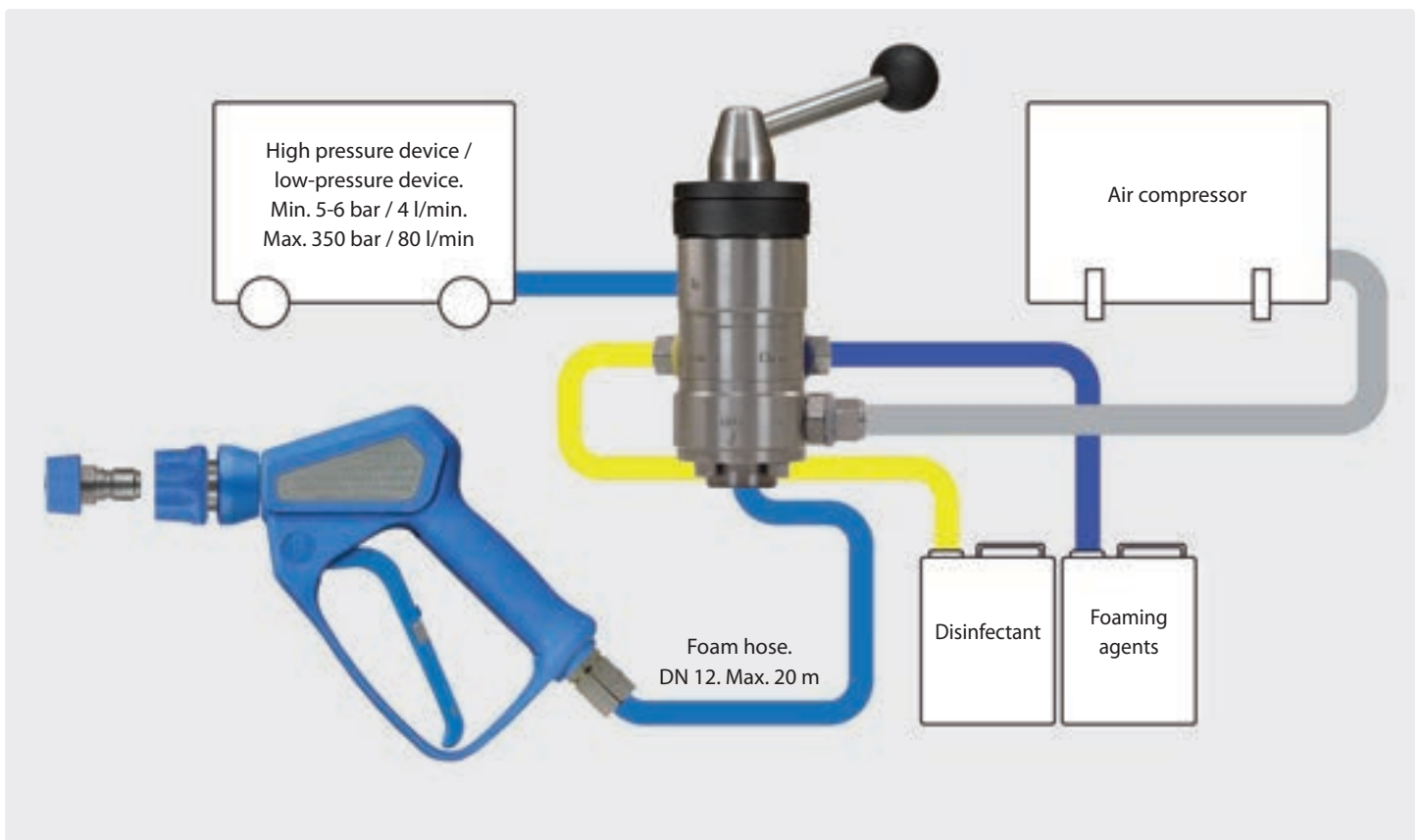
### Injectors with compressed air module



3/8" F : 1/2" F : 2 x Hose tail 9 mm : compressed air module (1/4" M). The chemical dosing is adjusted by the metering valve ST-161.  
Max. 350 bar / 100 °C

R+M Nr.	D
200 164 600	1.3 mm
200 164 602	1.4 mm
200 164 603	1.5 mm
200 164 604	1.6 mm
200 164 605	1.7 mm
200 164 606	1.8 mm
200 164 607	1.9 mm
200 164 608	2.0 mm
200 164 609	2.1 mm
200 164 610	2.2 mm
200 164 611	2.3 mm
200 164 612	2.4 mm
200 164 613	2.5 mm
200 164 614	2.8 mm

Symbols nozzle

**Assembly scheme easyfoam365+ injectors ST-164 without compressed air module**

**Assembly scheme easyfoam365+ injectors ST-164 with compressed air module**


## easyfoamer ST-73.1 foam injector lances

Our easyfoamer ST-73.1 realizes an ideal mixing of air and cleaning agent, thus succeeding an ideal foam result.

Rely on:

- » a completely stainless steel and non-corrosive injector unit
- » the highest grade of chemical resistance
- » 5 defined dosing positions
- » 1 l and 2 l bottles
- » vertical or horizontal spray pattern
- » patent pending
- » max. 300 bar / 80 °C



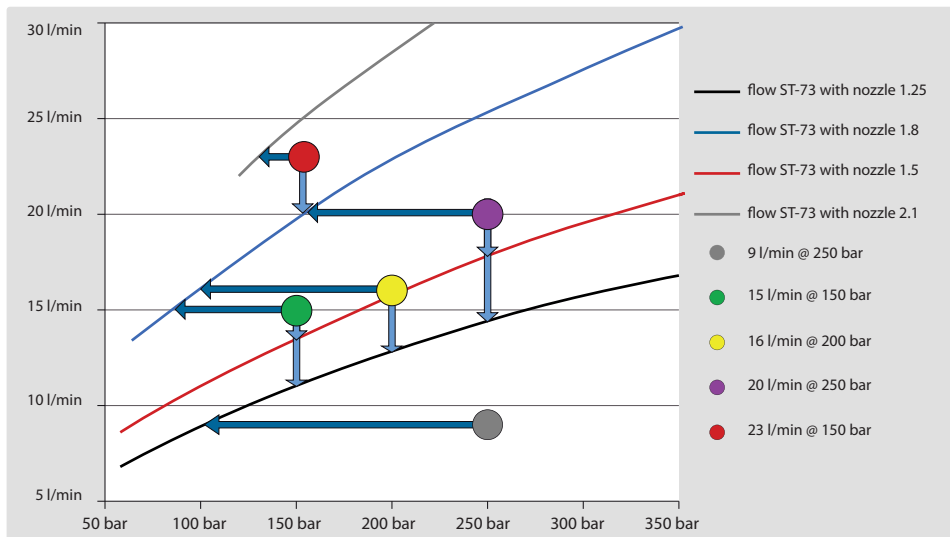
1/4" F. Foam injector lance with regulator and bottle. Max. 300 bar / 80 °C

R+M Nr.	D	l
200 073 750	1.25	1 l
200 073 900	1.50	1 l



1/4" F. Foam injector lance with regulator and bottle. Max. 300 bar / 80 °C

R+M Nr.	D	l
200 073 755	1.25	2 l
200 073 910	1.80	2 l
200 073 950	2.10	2 l



M22 M. Foam injector lance with regulator and bottle. Max. 300 bar / 80 °C

R+M Nr.	D	l
200 073 512	1.25	1 l
200 073 514	1.25	2 l
200 073 614	1.80	2 l



Bayonet K. Brass. Foam injector lance with regulator and bottle. Max. 300 bar / 80 °C

R+M Nr.	D	l
200 073 524	1.25	1 l
200 073 526	1.25	2 l
200 073 626	1.80	2 l



Plug KW. Foam injector lance with regulator and bottle. Max. 300 bar / 80 °C

R+M Nr.	D	l
200 073 528	1.25	1 l
200 073 530	1.25	2 l
200 073 640	1.50	2 l
200 073 630	1.80	2 l
200 073 631	2.10	2 l



Plug KR. Foam injector lance with regulator and bottle. Max. 300 bar / 80 °C

R+M Nr.	D	l
200 073 751	1,25	1

Symbols **D** nozzle **l** volume



**easyfoamer ST-73.1 foam injector lances**



Bayonet K. Plastic. Foam injector lance with regulator and bottle.  
Max. 180 bar / 80 °C

R+M Nr.	D	l
200 073 536	1.25	1 l
200 073 538	1.25	2 l
200 073 638	1.80	2 l



M22 F. Foam injector lance with regulator and bottle.  
Max. 300 bar / 80 °C

R+M Nr.	D	l
200 073 516	1.25	1 l
200 073 518	1.25	2 l
200 073 618	1.80	2 l



M22 F swivel. Foam injector lance with regulator and bottle.  
Max. 300 bar / 80 °C

R+M Nr.	D	l
200 073 520	1.25	1 l
200 073 522	1.25	2 l
200 073 622	1.80	2 l



ST-247. Foam injector lance with regulator and bottle.  
Max. 300 bar / 80 °C

R+M Nr.	D	l
200 073 760	1.25	1 l
200 073 761	1.50	1 l
200 073 762	1.25	2 l
200 073 764	1.80	2 l
200 073 765	2.10	2 l

**easyfoamer ST-73.2 foam injector lances**

Our latest innovation realizes an ideal mixing of air and cleaning agent, thus succeeding an ideal foam result - the new addition to the easyfoam365+ family!

Rely on:

- » ideal for high flow applications
- » without foam pad
- » a completely stainless steel and non-corrosive injector unit
- » the highest grade of chemical resistance
- » 5 defined dosing positions
- » 2 l bottle
- » vertical or horizontal spray pattern
- » patent pending
- » max. 300 bar / 80 °C

Don't lose any more time and feel invited to test it now!



1/4" F. Foam injector lance with regulator and bottle. Without foam pad. Max. 300 bar / 80 °C

R+M Nr.	D	l
200 073 906	1.50	2 l
200 073 916	1.80	2 l
200 073 956	2.10	2 l

**Accessories easyfoamer ST-73.1 & ST-73.2**



Bottle 1 liter

R+M Nr.
020 073 513



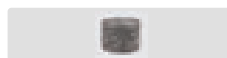
Bottle 2 liter

R+M Nr.
020 073 520



Nozzles

R+M Nr.	D
040 073 512	1.5 *
040 073 513	2.1 **



Foam pad (ST-73.1)

R+M Nr.	VPE
540 500 09	1
540 500 10	10
540 500 11	100



Cover blue for 1 and 2 liter

R+M Nr.
020 073 522



Wall bracket. Stainless steel. 68 mm x 95 mm. Incl. mounting parts

R+M Nr.
200 073 425



Bottle adapter

R+M Nr.
020 073 530

\* Replacement only for ST-73.1 & ST-73.2 with nozzles 1.25. \*\* Replacement only for ST-73.1 & ST-73.2 with nozzles 1.80



## Foam injector lances

### LS3 foam injector lances



Lance with regulator and bottle. Max. 180 bar / 60 °C / 12 l/min

R+M Nr.	D	G	H
540 500	1.25	1/4" F	1 l
540 505	1.25	M22 F	1 l
540 502	1.25	M22 M	1 l
540 506	1.25	plug KW	1 l
540 503	1.25	bayonet K brass	1 l
540 504	1.25	bayonet K PVC	1 l



Foam pad

R+M Nr.
540 500 09



Bottles for LS3

R+M Nr.	G	H
540 500 25	LS3	1 l

### LS10 foam injector lances



Lance with regulator and bottle. Max. 200 bar / 65 °C / 25 l/min

R+M Nr.	D	G	H
540 35	1.5	3/8" M	1 l
540 352	1.5	3/8" M	2 l
540 40	1.5	M22 M	1 l
540 402	1.5	M22 M	2 l
540 355	1.5	plug KW	1 l
540 355 2	1.5	plug KW	2 l



Bottles for LS10

R+M Nr.	G	H
540 351	LS10	1 l
540 352 1	LS10	2 l



Lance with regulator D 1.5. Max. 200 bar / 65 °C / 25 l/min

R+M Nr.	G
540 30	3/8" M
540 300 8	1/4" F
540 300 1	M22 F
540 300	M22 M
540 300 3	ST-3100

## Foam gun



### Features

- » Exceptional chemical resistance to acidic and caustic cleaner.
- » Foam generating wand creates a thick clinging foam.
- » Automatic dosing of chemicals.
- » Durable polymer mixing head with stainless steel screws.
- » Multi-ratio dial has 5 mixing settings and off.
- » Gun is removable from quick coupling for clear rinsing with water.
- » Easy filling by means of wide mouth.
- » Only works with water pipe pressure.
- » Suitable for all customary water couplings.
- » Chemical container volume 1,000 ml.

### Applications

Designed for applications with acidic and caustic cleaner, soaps, disinfectants, degreasing and softening agents. The field of application is very versatile.

- » Food industry and canteen kitchen
- » Sanitary facilities and swimming baths
- » Cleaning of trucks, cars and other vehicles
- » Garages and petrol stations
- » Shops and workshops

The foam gun directly connected to the public water pipe produces a cleaning foam by means of foam injector. The water pressure sucks in the cleaning agent and air, both are being mixed to consistent foam, sprayed out via the spraying head and the foam wand. The cleaning agent can also purposely and automatically be diluted via a built-in proportioner so that the right mixture of chemical and water as foam can be chosen for the cleaning application.

### Technical specifications

Water pressure 2.5 - 6 bar (for maximum accuracy 3 - 4 bar)

Output 5.5 l/min

### Mixing Ratio

Multi-ratio dial has 5 mixing settings and off

A	B	C	D	E	O
1:128	1:64	1:32	1:20	1:10	off



R+M Nr.	G	H
106 996 500	incl. coupler plugs "universal"	1 l

Please use the backflow preventer (R+M Nr. 734 10) on page 26.

Symbols G inlet VPE packing unit D nozzle H volume O thread

**Disinfection cold fog device ST-83.1 / ST-83.2**

The brand new ST-83.1 cold fog hand tool is ideal for small applications for fogging of disinfectants, odor neutralizers or insecticides and the ST-83.2 disinfection cold fogger is ideal for applications for fogging of disinfectants in large rooms.

- » **Inexpensive** and safe application for hygienically germ-free cleaning of interiors to remove microorganisms, viruses and bacteria. Also for use on construction sites for dust deposition or mold removal
- » **No inhalation of the disinfectant solution** as rooms do not have to be entered
- » The finest nebulization of active ingredients comes into the smallest gaps and into the last corner

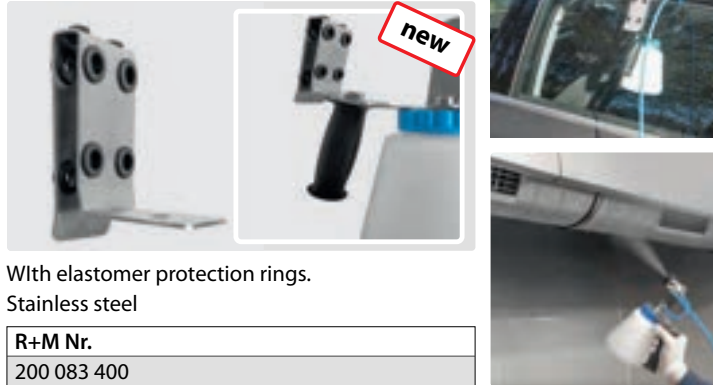
- » **A compressed air connection is required:**  
**83.1:** Inlet pressure 3 bar, 180-220 l / min.  
**83.2:** Inlet pressure 3 bar, 200-400 l / min
- » **Extremely productive use:** (e.g. 1 liter for rooms with 60 m<sup>3</sup>, room size of approx. 25 m<sup>2</sup> or 5 - 7 vehicle compartments, 2 liters for rooms with 120 m<sup>3</sup>, room size of approx. 50 m<sup>2</sup>)



Disinfection cold fog air device ST-83.1. For compressed air connection 3 bar, 180-220 l / min. Stainless steel / plastic

R+M Nr.	D	l
200 083 500	0.7	1 l

**ST-83.1 window bracket**



With elastomer protection rings. Stainless steel

R+M Nr.
200 083 400



Disinfection cold fog air device ST-83.2. For compressed air connection 3 bar, 200-400 l / min. Stainless steel / plastic

R+M Nr.	D	l
200 083 550	0.7	2 l

**ST-83 cold fog hand tool accessories**

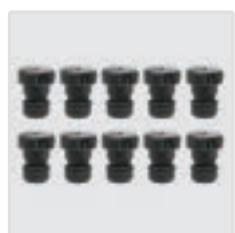
**ST-83 adapter for canisters**



For 5 - 30 liter canisters. Incl. 0.5 m clear PVC hose for suction of chemicals, DN 4

R+M Nr.
200 083 200

**Exchangeable nozzle inserts**



Plastic. 10 nozzle inserts (0.5 - 2.0 mm). Incl. o-rings

R+M Nr.
200 163 340

**Two different fog nozzle inserts are included.**

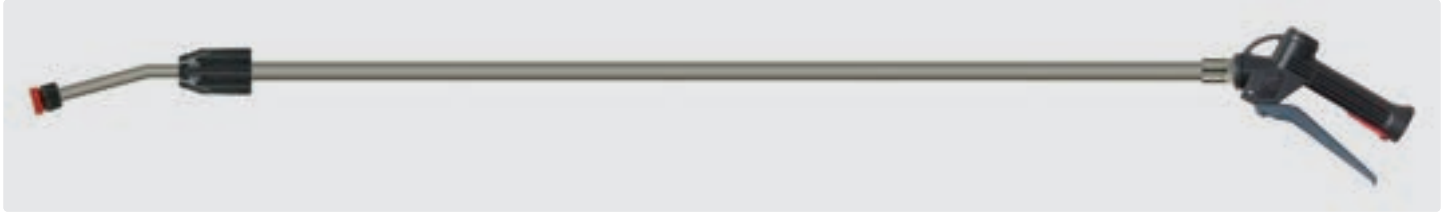
**Better swirling:**  
Particularly suitable in smaller rooms such as passenger compartments.

**Larger throw range.**  
For the treatment of entire rooms or for targeted treatment at the air intake of ventilation systems.

Symbols inlet outlet nozzle volume

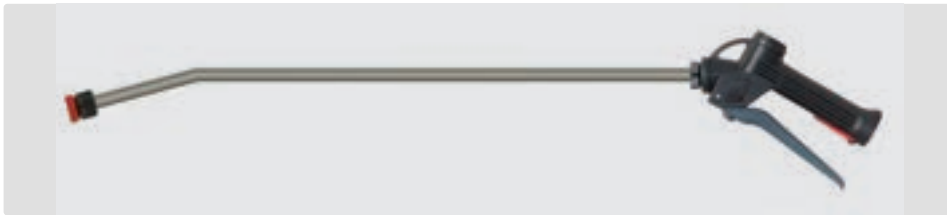
## Chemical spray guns ST-510 & lances

### Chemical spray guns ST-510 with lances



1,000 - 2,000 mm. Spray gun with telescopic lance made out of stainless steel and nozzle holder without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 600	nozzle holder	1/2" F



600 mm. Spray gun with lance made out of stainless steel and nozzle nut without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 550	nozzle holder	1/2" F



210 mm. Spray gun with lance made out of plastic and nozzle nut without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 710	nozzle holder	1/2" F



300 mm. Spray gun with lance made out of stainless steel and nozzle nut without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 560	nozzle holder	1/2" F

### Chemical spray gun ST-510



Gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 70 l/min / 50 °C

R+M Nr.		
200 510 500	1/2" F	1/2" F



600 mm. Spray gun with lance made out of plastic and nozzle nut without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 700	nozzle holder	1/2" F

### Filter



Plastic. Max. 50 °C

R+M Nr.
500 04



600 mm. Spray gun with lance made out of plastic and nozzle nut without nozzle. Spray gun with acid-resistant ball. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 705	nozzle holder	1/2" F

**Sprayer with pressure tank**



- » The filling is very easy and effected by means of a plastic hopper to fill in.
- » 1/4" M connection to be attached at the compressed-air supply.
- » Max. 8 bar. Equipped with a default safety valve.
- » Chemically resistant hose 10 m. Spray lance 600 mm with nozzle. Fill level indication.
- » Suitable for the use in the car wash and industry.
- » **Available from 10 pieces in other RAL colors.**

R+M Nr.	TYP	📦
106 024 500	coated steel	24 l
106 050 500 🚚	coated steel	50 l
106 100 500 🚚	coated steel	100 l

**Foamer with pressure tank**



- » The filling is very easy and effected by means of a plastic hopper to fill in.
- » 1/4" M connection to be attached at the compressed-air supply.
- » Max. 8 bar. Equipped with a default safety valve.
- » Chemically resistant hose 10 m. Foam lance 600 mm with nozzle head and 4 nozzles. Fill level indication.
- » Integrated dosing unit to realise the desired air/foam mixture. Permanent pressure exposure is required in order to achieve an uniform foam result.
- » Suitable for the use in the car wash and industry.
- » **Available from 10 pieces in other RAL colors.**

R+M Nr.	TYP	📦
106 024 550	coated steel	24 l
106 050 550 🚚	coated steel	50 l
106 100 550 🚚	coated steel	100 l

Suitable for keeping and application of liquids of the group 2 according to the directive EWG/67/548 Art. 2, para. 2 and directive EG/97/23 Art. 9. Not suitable for liquids of group 1 and especially strong alkaline solution and acids.

**Accessories for sprayer and foamer**

Foam hoses	Spray hoses	Foam head	Nozzles			
Bayonet. 10 m	1/4" M. 10 m	1/2" M	Foamer. 55° 55	Foamer. 60° 25	Sprayer. 110° 04	Sprayer. 110° 045
R+M Nr. 106 901 01	R+M Nr. 106 911 01	R+M Nr. 106 906 0	R+M Nr. 609 805 59	R+M Nr. 609 802 59	R+M Nr. 609 110 04	R+M Nr. 609 110 045

Symbols TYP type 📦 volume 🚚 shipment by truck



## Sprayer with pressure tank



- » The filling is very easy and effected by means of a plastic hopper to fill in.
- » 1/4" M connection to be attached at the compressed-air supply.
- » Max. 8 bar. Equipped with a default safety valve.
- » Chemically resistant hose 10 m. Spray lance 600 mm with nozzle. Fill level indication.
- » Suitable for the use in the food industry, car wash and industry.

## Foamer with pressure tank



- » The filling is very easy and effected by means of a plastic hopper to fill in.
- » 1/4" M connection to be attached at the compressed-air supply.
- » Max. 8 bar. Equipped with a default safety valve.
- » Chemically resistant hose 10 m. Spray lance 600 mm with nozzle. Fill level indication.
- » Integrated dosing unit to realise the desired air/foam mixture. Permanent pressure exposure is required in order to achieve an uniform foam result.
- » Suitable for the use in the food industry, car wash and industry.

R+M Nr.	TYP	Capacity
106 024 600	stainless steel AISI 304, V2A	24 l
106 050 600	stainless steel AISI 304, V2A	50 l
106 100 600	stainless steel AISI 304, V2A	100 l

R+M Nr.	TYP	Capacity
106 024 650	stainless steel AISI 304, V2A	24 l
106 050 650	stainless steel AISI 304, V2A	50 l
106 100 650	stainless steel AISI 304, V2A	100 l

Suitable for keeping and application of liquids of group 2 according to the directive EWG/67/548 Art. 2, para. 2 and directive EG/97/23 Art. 9. Not suitable for liquids of group 1.

## Accessories for sprayer and foamer

Nozzle	Nozzle filters	Reduction nipples	Adaptor	Nut for nozzle	Seal		
Sprayer. 110° 03	50 MESH	1/4" F : 1/2" M. Brass	1/4" F : 1/2" M. Stainless steel	Bayonet : 1/4" M	Plug DN 7.2 : 1/4" F	1/2" M	
R+M Nr. 609 110 03	R+M Nr. 106 909 2	R+M Nr. 575 40	R+M Nr. 575 49	R+M Nr. 106 900 1	R+M Nr. 554 714	R+M Nr. 106 909 3	R+M Nr. 106 909 4

## HACCP – Colour Coding Concept



### R+M/Suttner's hygienic colour-coding concept

Suttner's color-coded concept provides a pragmatic approach to the food sector's challenges of ensuring efficient hygienic cleaning and a visibly safe physical environment in:

- » Food and beverage manufacturing facilities and throughout their supply chain
- » Professional kitchens and restaurants
- » Food-related areas of supermarkets and shops

### Durable and effective accessories

All of R+M/Suttner's food-industry specific 'high hygiene' tools are made of 1935/2004/EC compliant materials and materials which meet the requirements of EC regulation 10/2011/EC regarding food contact materials and can be washed at high temperatures to eliminate germs and bacteria. All equipment is durable, fully molded to guarantee easy cleaning, and capable of maintaining a long-lasting attractive appearance. The effective tool range includes spray and foam guns, spray lances, nozzle protectors, foam lances and hoses in up to four color-code options.

### HACCP - spray gun kits ST-2300, ST-2600, ST-2700

Kit contains half shells, logo plate, trigger and trigger lock



R+M Nr.

202 300 473



R+M Nr.

202 300 474



R+M Nr.

202 300 472



R+M Nr.

202 300 471

### HACCP - lances ST-29

Lance with insulation ST-29 Cool & Compact. Comfortable grip and ergonomic shape. Heat-proof insulation. Max. 400 bar / 150 °C



R+M Nr.

200 029 317



1/4" M



300 mm



900 mm



stainless steel



R+M Nr.

200 029 315



1/4" M



300 mm



900 mm



stainless steel



R+M Nr.

200 029 318



1/4" M



300 mm



900 mm



stainless steel



R+M Nr.

200 029 316



1/4" M



300 mm



900 mm



stainless steel

### Suttner rotating nozzles in 4 colours



With effect from today we enlarge the choice of colours of the plastic plugs for our rotating nozzles ST-357, ST-456 and ST-458. In addition to the standard colour black, you are invited to take the nozzle in blue, red, yellow and green, now.

### Plastic plugs for rotating nozzles ST-357

R+M Nr.	Color
020 007 411	green
020 007 406	blue
020 007 412	red
020 007 409	yellow

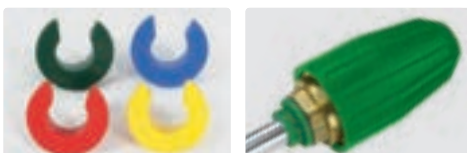
### Plastic plugs for rotating nozzles ST-456

R+M Nr.	Color
020 001 047	green
020 001 041	blue
020 001 048	red
020 001 046	yellow

### Plastic plugs for rotating nozzles ST-458

R+M Nr.	Color
020 001 031	green
020 001 026	blue
020 001 032	red
020 001 029	yellow

### Lance clips



The lance clips suitable for all 1/4" lances are made out of polypropylene which is intended to come into contact with foodstuffs.

R+M Nr.

020 004 290 green

020 004 255 blue

020 004 260 red

020 004 230 yellow

### Nozzle protector ST-11



- » The nozzle protector ST-11 is suitable for nozzles 1/4" M.
- » Made out of plastics intended to come into contact with foodstuffs according to Regulation (EC) No. 1935/2004.
- » It is clamped undetachably between the nozzle and the nozzle sleeve.

R+M Nr.

020 001 122 green

020 001 149 blue

020 001 121 red

020 001 123 yellow





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Suttner 600 bar ultra high pressure guns

ST-3600



Professional ultra high pressure gun.  
Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 545	1/4" F	1/2" F



Professional ultra high pressure gun.  
Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 550	1/2" F	1/2" F



Professional ultra high pressure gun.  
Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 570	1/2" F	1/2" F swivel



Professional ultra high pressure gun with coupling ST-45. Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 655	coupling ST-45	3/8" F



Professional ultra high pressure gun with coupling ST-45. Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 650	coupling ST-45	1/2" F



ST-3900 shoulder supports. New European Union guidelines imperatively prescribe the use of shoulder supports for cleaning applications exceeding an operating reaction force of 150 N. Variably adjustable ST-3900. Swiveling coupling. Suitable for guns ST-3600 / ST-3500.

R+M Nr.	telescope	
203 900 500	340 - 500 mm	505 - 675 mm

ST-351 swivels



1/2" M : 1/2" F.  
Max. 600 bar

R+M Nr.
200 351 510



Repair kit swivel ST-351

R+M Nr.
200 351 400

Seal kits ST-740



O-ring

R+M Nr.
050 000 408



Back ring

R+M Nr.
050 000 407

Seal kits ST-3600



R+M Nr.
203 600 490

ST-3600




Professional ultra high pressure gun with extension ST-9 380 mm, grip and quick screw coupling ST-740. Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 532	M24 F	M24 M swivel

## Suttner 600 bar ultra high pressure guns



Professional ultra high pressure gun with extension ST-9 380 mm, grip and quick screw coupling ST-740 Max. 600 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 530	M24 F	M24 M

### Ultra high pressure lances



M24 M. Lance 400 mm with nozzle protector ST-10 without nozzle. Lance for ultra high pressure guns with extension ST-9. Max. 600 bar / 150 °C

R+M Nr.		
203 600 470	1/4" F NPT	M24 M

### ST-3600 with lance



Professional ultra high pressure gun with lance 500 mm with grip and sleeve 1/4" F NPT stainless steel without high pressure nozzle. Max. 600 bar / 150 °C

R+M Nr.		
203 600 630	1/4" F NPT	1/2" F

### ST-3600 with lance



Professional ultra high pressure gun with lance 500 mm with grip and sleeve 1/4" F NPT stainless steel without high pressure nozzle. Max. 600 bar / 150 °C

R+M Nr.		
203 600 640	1/4" F NPT	1/2" F swivel

Symbols  inlet  outlet  length

Suttner 500 bar ultra high pressure guns

ST-3600



F

Professional ultra high pressure gun with M22 M. Max. 500 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 556	M22 F	M22 M



Professional ultra high pressure gun. Max. 500 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 555	1/4" F	M22 M



ST-3900 shoulder supports. New European Union guidelines imperatively prescribe the use of shoulder supports for cleaning applications exceeding an operating reaction force of 150 N. Variably adjustable ST-3900. Swiveling coupling. Suitable for guns ST-3600 / ST-3500.

R+M Nr.	telescope	
203 900 500	340 - 500 mm	505 - 675 mm



Professional ultra high pressure gun with extension ST-9 380 mm, grip and M22 M. Max. 500 bar / 80 l/min / 150 °C

R+M Nr.		
203 600 535	M22 F	M22 M

Ultra high pressure lances



M22 M. Lance 335 mm with nozzle protector ST-10 without nozzle. Lance for ultra high pressure guns with extension ST-9. Max. 500 bar / 150 °C

R+M Nr.		
200 000 231	1/4" F NPT	M22 M

Seal kits ST-3600



R+M Nr.	
203 600 490	

ST-2750 - the lightweight among the 500 bar spray guns

ST-2750



LTF

Professional ultra high pressure gun with patented LTF. Max. 500 bar / 30 l/min / 150 °C

R+M Nr.		
202 750 500	1/4" F	3/8" F



LTF

Professional ultra high pressure gun with patented LTF. Max. 500 bar / 30 l/min / 150 °C

R+M Nr.		
202 750 535	M22 F	M22 M



LTF

K

Professional ultra high pressure gun with patented LTF. Gun with insulated outlet suitable for lances with swivel screw coupling. Max. 500 bar / 30 l/min / 150 °C

R+M Nr.		
202 750 570	M22 M	M22 M

## ST-2750 - the lightweight among the 500 bar spray guns

ST-2750



new

LTF

Professional ultra high pressure gun with patented LTF and lance with insulation ST-9, side handle and nozzle protector ST-10 without high pressure nozzle. Max. 500 bar / 30 l/min / 150 °C

R+M Nr.			ISO		
202 750 900	1/4" F NPT	3/8" F	760 mm	1,000 mm	stainless steel



LTF

Professional ultra high pressure gun with extension ST-9.1 240 mm and quick screw coupling ST-740. Max. 500 bar / 30 l/min / 150 °C

R+M Nr.		
202 750 610	M24 F	3/8" F

Valve complete



**LTF - Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.

ST-2750

R+M Nr.
202 750 495



LTF

Professional ultra high pressure gun with extension ST-9.1 340 mm and quick screw coupling ST-740. Max. 500 bar / 30 l/min / 150 °C

R+M Nr.		
202 750 620	M24 F	3/8" F



new

LTF

Professional ultra high pressure gun with extension ST-9.1 340 mm and quick screw coupling ST-740. Max. 500 bar / 30 l/min / 150 °C

R+M Nr.		
202 750 621	M24 F	3/8" F swivel

### Ultra high pressure lance



M24 M. Lance 400 mm with nozzle protector ST-10 without nozzle. Lance for ultra high pressure guns with extension ST-9.1. Max. 600 bar / 150 °C

R+M Nr.		
203 600 470	1/4" F NPT	M24 M

### Shoulder supports



New European Union guidelines imperatively prescribe the use of shoulder supports for cleaning applications exceeding an operating reaction force of 150 N.

R+M Nr.
202 705 590

### ST-350 swivel



3/8" M : 3/8" F. Max. 500 bar

R+M Nr.
200 350 010



Repair kit ST-350

R+M Nr.
200 300 120

Symbols inlet outlet length



Suttner ultra high pressure lances

ST-002 ultra high pressure lances



1/4" M. Lance with moulded handle. Safety factor 4. Max. 500 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
070 003 502	1/4" M	300 mm	350 mm	stainless steel
070 008 002	1/4" M	500 mm	800 mm	stainless steel
070 012 002	1/4" M	500 mm	1,200 mm	stainless steel

R+M Nr.

Ultra high pressure twin lances

ST-154



1/4" F. Lance with valve ST-154 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 500 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
200 154 510	1/4" F NPT	-	650 mm	stainless steel

R+M Nr.



1/4" M. Lance with moulded handle, valve ST-154 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 500 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
200 154 500	1/4" F NPT	300 mm	980 mm	stainless steel

R+M Nr.



M22 M. Lance with moulded handle, valve ST-154 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 500 bar / 150 °C

R+M Nr.	☉	ISO	↔	M
200 154 520	1/4" F NPT	300 mm	980 mm	stainless steel

R+M Nr.

Symbols ☉ inlet ☉ outlet ↔ length M material ISO insulation

## Suttner ultra high pressure lances

### Ultra high pressure lances ST-3600 - 600 bar



1/2" M. Lance with grip. Max. 600 bar / 150 °C

R+M Nr.	⊖	↔	⊕	M
203 600 416	1/2" M	1,500 mm	1/2" M	stainless steel
203 600 415	1/2" M	2,000 mm	1/2" M	stainless steel

R+M Nr.



1/2" M. Lance with grip and sleeve 1/4" F stainless steel without high pressure nozzle. Max. 600 bar / 150 °C

R+M Nr.	⊖	↔	⊕	M
203 600 400	1/4" F NPT	500 mm	1/2" M	stainless steel
203 600 401	1/4" F NPT	800 mm	1/2" M	stainless steel
203 600 402	1/4" F NPT	1,000 mm	1/2" M	stainless steel

R+M Nr.



1/2" M. Lance with grip for rotating nozzles with 1/4" F without rotating nozzle. Max. 600 bar / 150 °C

R+M Nr.	⊖	↔	⊕	M
203 600 411	1/4" M	500 mm	1/2" M	stainless steel
203 600 410	1/4" M	800 mm	1/2" M	stainless steel
203 600 412	1/4" M	1,000 mm	1/2" M	stainless steel

R+M Nr.



Plug ST-45. Lance with grip and sleeve 1/4" F NPT stainless steel without high pressure nozzle. Max. 600 bar / 150 °C

R+M Nr.	⊖	↔	⊕	M
203 600 444	1/4" F NPT	500 mm	plug ST-45	stainless steel

R+M Nr.



Plug ST-45. Lance with grip for rotating nozzles with 1/4" F without rotating nozzle. Max. 600 bar / 150 °C

R+M Nr.	⊖	↔	⊕	M
203 600 441	1/4" M	800 mm	plug ST-45	stainless steel

R+M Nr.

### Suttner ultra high pressure lances

#### Lances with ergonomic swivel screw coupling



M22 M swivel Lance with ergonomic swivel screw coupling, vented handle ST-9 & grip and nozzle protector (M20x1) without tip. Max. 650 bar / 150 °C

R+M Nr.	☺	↔	Ⓒ	Ⓜ
200 146 550	nozzle protector	700 mm	M22 F <sub>swivel</sub>	stainless steel

R+M Nr.

### ST-559 Suttner rotating nozzles with carbide insert

#### ST-559



1/4" F. 300 - 600 bar. Max. 90 °C

R+M Nr.	Ⓓ
200 559 520	02
200 559 530	03
200 559 540	04
200 559 550	05
200 559 555	055
200 559 560	06



M20x1 F. 300 - 600 bar. Max. 90 °C

R+M Nr.	Ⓓ
200 559 320	02
200 559 330	03
200 559 340	04



Kit ST-559

R+M Nr.
200 559 120
200 559 130
200 559 140
200 559 150
200 559 155
200 559 160

## Cleantecs rotating nozzles with carbide insert

### HM 500



Kit  
HM 500



G9/16". Spray angle 20°.  
Max. 500 bar / 90 °C

R+M Nr.	<b>D</b>
655 500 630	03

### HM 500



Kit  
HM 500



M20x1. Spray angle 20°.  
Max. 500 bar / 90 °C

R+M Nr.	<b>D</b>
655 500 640	028

### HM 500



Kit  
HM 500



M20x1. Spray angle 20°.  
Max. 500 bar / 90 °C

R+M Nr.	<b>D</b>
655 500 650	05

R+M Nr.
655 500 150

### HM 500



Kit  
HM 500



1/4" F. Spray angle 20°.  
Max. 500 bar / 100 °C

R+M Nr.	<b>D</b>
655 500 520	02
655 500 525	025
655 500 530	03
655 500 535	035
655 500 540	04
655 500 545	045
655 500 550	05
655 500 555	055
655 500 560	06
655 500 570	07

### HM 700



Kit  
HM 700



1/4" F. Spray angle 20°.  
Max. 700 bar / 100 °C.  
Delivery time of approx. 1 week

R+M Nr.	<b>D</b>
655 700 520	02
655 700 525	025
655 700 530	03
655 700 535	035
655 700 540	04
655 700 545	045
655 700 550	05
655 700 555	055
655 700 560	06
655 700 570	07

### HM 1000



Kit  
HM 1000



1/4" F. Spray angle 20°.  
Max. 1,000 bar / 100 °C.  
Delivery time of approx. 1 week

R+M Nr.	<b>D</b>
655 100 520	02
655 100 525	025
655 100 530	03
655 100 535	035
655 100 540	04
655 100 545	045
655 100 550	05
655 100 555	055
655 100 560	06
655 100 570	07

R+M Nr.
655 100 120
655 100 125
655 100 130
655 100 135
655 100 140
655 100 145
655 100 150
655 100 155
655 100 160
655 100 170

Symbols inlet outlet length material nozzle

Ultra high pressure couplings 500 bar

Quick screw couplings



M22 F : F. Stainless steel

R+M Nr.	⊙
561 39	M22 : 1/4"
561 59	M22 : 3/8"



M22 F : M. Stainless steel

R+M Nr.	⊙
561 49	M22 : 1/4"
561 69	M22 : 3/8"



Back ring

R+M Nr.	VPE
050 001 440	1
781 021 391 21	100



O-ring

R+M Nr.	VPE
790 24	1
790 241 00	100

Nipples



M22 M : M. Stainless steel

R+M Nr.	⊙
565 39	M22 : 1/4"
565 59	M22 : 3/8"
565 69	M22 : 1/2"



M22 M : F. Stainless steel

R+M Nr.	⊙
565 29	M22 : 1/4"
565 49	M22 : 3/8"

Double nipples with 60° cone



M : M. Stainless steel

R+M Nr.	⊙
570 79	3/8" : 3/8"
570 89	3/8" : 1/2"



M : M. Zinc-plated steel

R+M Nr.	⊙
570 78	3/8" : 3/8"
570 88	3/8" : 1/2"

Hose connectors



DKOS M22 M : M. Stainless steel

R+M Nr.	⊙
593 142	M22 : M22



M22 M : M. Stainless steel

R+M Nr.	⊙
569 59	M22 : M22



M22 M. Solid version stainless steel with rubber cover.  
Max. 500 bar

R+M Nr.
569 49

Protection cap



Rubber

R+M Nr.
569 60

Straight screw connectors (bicone ring system, heavy duty series)



X-GE. Stainless steel

R+M Nr.	AG : AG	I
596 141 21	M22 : 1/2"	41 mm
596 143 81	M22 : 3/8"	39 mm



X-GE. Zinc-plated steel

R+M Nr.	AG : AG	I
581 141 21	M22 : 1/2"	41 mm

Symbols ⊙ thread VPE packing unit DN nominal diameter I height AG male thread



## Quick screw couplings ST-740 and nipples ST-741

### Quick screw couplings ST-740 and nipples ST-741



M24 F : M.  
Max. 700 bar / 150 °C



M24 F : M.  
Max. 700 bar / 150 °C



M : M24 M.  
Max. 700 bar / 150 °C



M24 M : M24 M.  
Max. 700 bar / 150 °C

⊙
3/8"
1/2"
M24

R+M Nr.
200 740 501
200 740 503

R+M Nr.
200 740 601

R+M Nr.
200 741 501
200 741 503

R+M Nr.
200 741 600



M24 F : F.  
Max. 700 bar / 150 °C



M24 F : F.  
Max. 700 bar / 150 °C



F : M24 M.  
Max. 700 bar / 150 °C

⊙
1/4"
3/8"
M16x1

R+M Nr.
200 740 504
200 740 502
200 740 506

R+M Nr.
200 740 604
200 740 602

R+M Nr.
200 741 504
200 741 502

### Seals



O-ring - ST-740

R+M Nr.
050 000 408



O-ring - ST-741

R+M Nr.
050 001 000



Back ring - ST-740

R+M Nr.
050 000 407

## Suttner ultra high pressure quick couplings ST-45-600

### Couplings and plug ST-45-600



Coupling : M. Stainless steel.  
Max. 600 bar / 150 °C



Coupling : M. Stainless steel.  
Max. 600 bar / 150 °C



Plug : F. Stainless steel.  
Max. 600 bar / 150 °C

⊙	DN
1/4"	8

R+M Nr.	ⓘ
200 045 600	57 mm

R+M Nr.	ⓘ
200 045 605	57 mm

R+M Nr.	ⓘ
040 005 468	40 mm



O-ring. 11x1.5

R+M Nr.
050 000 020



Back ring. 11x14x1

R+M Nr.
050 001 430



O-ring. 10x2.5

R+M Nr.
050 000 160

Ultra high pressure hoses

Hoses with double wire braid and wrapped cover. Type 2SC. Nominal diameter 10. Safety factor 3.5. Fittings stainless steel. Max. 150 °C

Female thread (DKOS)

M22 : M22



maxpressure. Type 2SC. Max. 500 bar

R+M Nr.	Length
358 177 310 9	10 m
358 177 315 9	15 m
358 177 320 9	20 m
358 177 330 9	30 m

Male thread (AGR)

3/8" : 3/8"

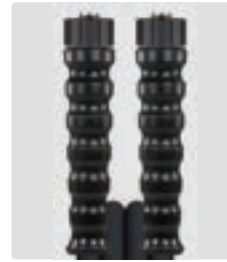


maxpressure. Type 2SC. Max. 500 bar

R+M Nr.	Length
358 144 310 9	10 m
358 144 315 9	15 m
358 144 320 9	20 m
358 144 330 9	30 m

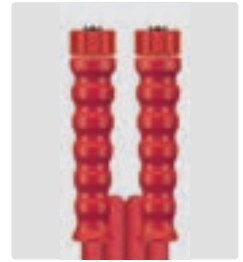
Quick screw couplings

M22 : M22



maxpressure. Type 2SC. Max. 500 bar

R+M Nr.	Length
358 100 310 9	10 m
358 100 315 9	15 m
358 100 320 9	20 m
358 100 330 9	30 m



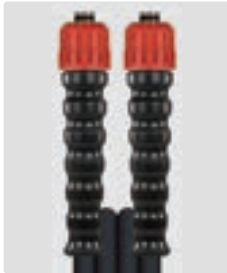
Type 2SC. Max. 500 bar

R+M Nr.	Length
364 100 310 9	10 m
364 100 315 9	15 m
364 100 320 9	20 m
364 100 330 9	30 m

Hoses with double wire braid and wrapped cover. Nominal diameter 10. Fittings stainless steel. Max. 150 °C

Quick screw couplings

M24 : M24



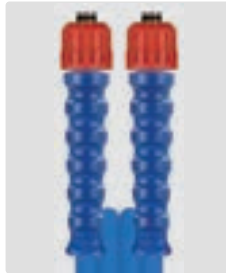
maxpressure. 2SC. Max. 500 bar

R+M Nr.	Length
358 197 310 9	10 m
358 197 315 9	15 m
358 197 320 9	20 m
358 197 330 9	30 m



2SC. Max. 500 bar

R+M Nr.	Length
364 197 310 9	10 m
364 197 315 9	15 m
364 197 320 9	20 m
364 197 330 9	30 m



2SN. Max. 600 bar

R+M Nr.	Length
368 697 610 9	10 m
368 697 615 9	15 m
368 697 620 9	20 m
368 697 630 9	30 m

Hoses with double wire braid and wrapped cover. Nominal diameter 10. Fittings stainless steel. Max. 150 °C

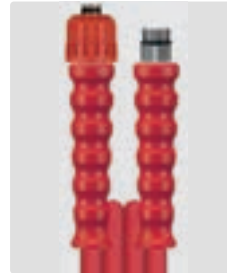
Quick screw couplings : male thread

M24 : M24



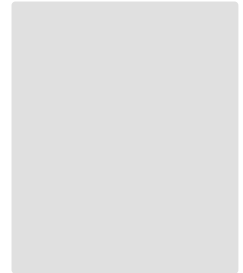
maxpressure. 2SC. Max. 500 bar

R+M Nr.	Length
358 114 431 09	10 m
358 114 431 59	15 m
358 114 432 09	20 m
358 114 433 09	30 m



2SC. Max. 500 bar

R+M Nr.	Length
364 114 471 09	10 m
364 114 471 59	15 m
364 114 472 09	20 m
364 114 473 09	30 m

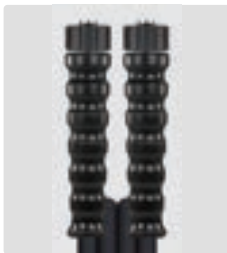


R+M Nr.	Length

Hoses with double wire braid and smooth cover. Nominal diameter 6. Fittings stainless steel. Max. 150 °C

Quick screw couplings / male thread (AGR)

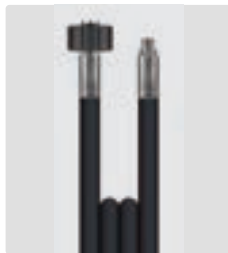
M22 : M22



maxpressure. flexy 500. Max. 500 bar

R+M Nr.	Length
338 000 310 9	10 m
338 000 315 9	15 m
338 000 320 9	20 m
338 000 330 9	30 m

M22 : 1/8"



flexy 500. Max. 500 bar

R+M Nr.	Length
424 300 010 9	10 m
424 300 015 9	15 m
424 300 020 9	20 m
424 300 030 9	30 m

1/4" : 1/4"



flexy 500. Max. 500 bar

R+M Nr.	Length
424 344 010 9	10 m
424 344 015 9	15 m
424 344 020 9	20 m
424 344 030 9	30 m

Hose protection/shroud easyprotect365+

The hose is held close to vital parts of the body, so the danger of bursting hoses for the body is very high. The hose protection provides effective protection for the operator!

It was tested at 500 bar / 7500 psi. An adjustable strap keeps the hose guard securely in place.

The hose protection is very smooth and flexible.



R+M Nr.	Length	Width	Pressure
956 160 045	750 mm	41 mm	500 bar

## Ultra high pressure swivels

### Elbow swivel



1/2" M : 1/2" F. Inox.  
Max. 600 bar

R+M Nr.
178 261 330 00

### ST-350 swivel



3/8" M : 3/8" F.  
Max. 600 bar

R+M Nr.
200 350 010



Repair kit ST-350

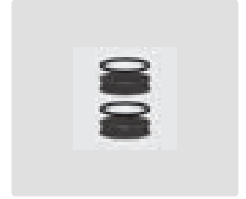
R+M Nr.
200 300 120

### R+M swivel



1/4" F : 3/8" M. Housing and axle stainless steel.  
Max. 600 bar / 90 °C

R+M Nr.
750 280 0



Seal kit swivel 750 280 0

R+M Nr.
750 200 2

### ST-351 swivel



1/2" M : 1/2" F.  
Max. 600 bar

R+M Nr.
200 351 510



Repair kit swivel ST-351

R+M Nr.
200 351 400

## Reduction nipple



Stainless steel. 500 bar

R+M Nr.	⊖	⊕
040 002 207	1/4" F	1/8" M

## ST-550 foot valves



Housing stainless steel.  
Valve stainless steel.  
Rubber feet.  
Max. 500 bar / 80 l/min / 150 °C

R+M Nr.	⊖	⊕
200 550 600	1/4" F	1/4" F



Housing stainless steel.  
Valve stainless steel.  
Rubber feet.  
Max. 500 bar / 80 l/min / 150 °C

R+M Nr.	⊖	⊕
200 550 620	M22 F	M22 M

## ST-540 foot valves



Incl. HP-gun ST-2750.  
Material housing powdercoated steel.  
Rubber feet.  
Max. 500 bar / 30 l/min / 150 °C

R+M Nr.	⊖	⊕
200 540 550	1/4" M	3/8" F

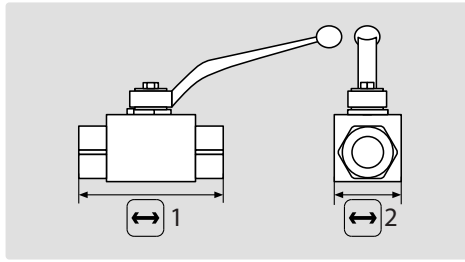


Incl. HP-gun ST-2750.  
Material housing powdercoated steel.  
Rubber feet.  
Max. 500 bar / 30 l/min / 150 °C

R+M Nr.	⊖	⊕
200 540 560	M22 M	M22 M

Symbols ⊖ length ⊕ inlet ⊖ outlet ⊗ diameter ⊐ pressure

Ultra high pressure ball valves ST-3105

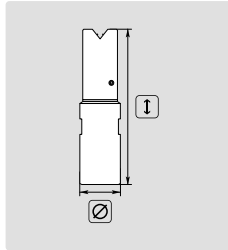


Stainless steel V4A / AISI 316 Ti. Ball stainless steel.  
Max. 500 bar / 80 °C

R+M Nr.	↔ 1	↔ 2	⊙
707 15	69 mm	26 mm	1/4" F
707 25	72 mm	32 mm	3/8" F
707 35	83 mm	35 mm	1/2" F

Sewer cleaning nozzles

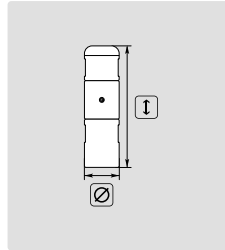
Rotating nozzles RT . 1,000 bar



1/8" F. Side jet 2. Front jet 2. Stainless steel.  
Rotating body hp-bronze. Compact model,  
universally applicable. Extreme cleaning  
performance, removes hard deposits. **↑** 80 mm.  
**⊙** 12 mm. Weight 0.18 kg.  
Max. 1,000 bar

R+M Nr.	↔
652 710 006	6 l / 100 bar
652 710 012	12 l / 100 bar
652 710 014	14 l / 100 bar

Rotating nozzles RH . 1,000 bar



1/8" F. Side jet 2. Stainless steel. Rotating  
body hp-bronze. Compact model, universally  
applicable. Extreme cleaning performance,  
removes hard deposits. **↑** 63 mm. **⊙** 12 mm.  
Weight 0.18 kg.  
Max. 1,000 bar

R+M Nr.	↔
652 810 006	6 l / 100 bar
652 810 010	10 l / 100 bar
652 810 014	14 l / 100 bar

Nozzles for sewer cleaning

Suttner nozzles for sewer cleaning ST-49.3



1/8" F. Nozzle with traction. Stainless steel.  
Hardened stainless steel body. Compact model,  
universally applicable. Extreme cleaning  
performance.  
**⊙** 12 mm.  
Max. 500 bar

R+M Nr.	ⓓ
200 049 950	05
200 049 970	07

Symbols ↔ length ↑ height ⊙ thread ↔ flow °C temperature ⓓ nozzle ⊙ diameter

## Suttner flow switches

### ST-505 flow switches 600 bar



Floater ST-505 with hole



R+M Nr.
200 005 301

R+M Nr.	cable
200 005 435	1,200 mm
200 005 438	3,500 mm

Floater VA with hole.  
Contact 1 A - 250 V.

R+M Nr.	mount	closed/open	°C	←	cable
200 505 706	3/8" F	vertical	3.3/1.8	80	30 l/min 1,200 mm
200 505 709	3/8" F	vertical	2.9/1.7	80	30 l/min 3,600 mm



Floater ST-505 without hole



R+M Nr.	cable
200 005 435	1,200 mm
200 005 438	3,500 mm

Floater brass with hole.  
Contact 1 A - 250 V.

R+M Nr.	mount	closed/open	°C	←	cable
200 505 708	3/8" F	vertical	0.5/0.1	80	30 l/min 1,200 mm
200 505 711	3/8" F	vertical	0.5/0.1	80	30 l/min 3,600 mm



Floater ST-505 without hole



R+M Nr.
200 005 311

REED switch

R+M Nr.
200 005 438

Floater VA without hole. Contact 1 A - 250 V

R+M Nr.	mount	closed/open	°C	←	cable
205 505 707	3/8" F	vertical	1.8/1.3	80	30 l/min 1,200 mm



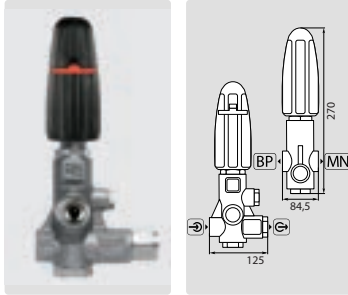
Ultra high pressure regulation valves

VB60/600



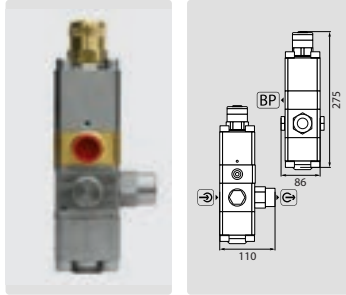
☉ = inlet 1/2" F. ☉ = outlet 1/2" F.  
 BP = bypass 1/2" F.  
 Max. 600 bar / 90 °C

H560



Stainless steel. BP = bypass 1/2" F.  
 MN = pressure gauge 1/4" F.  
 Max. 500 bar / 80 °C / 60 l/min

BKX



BP = bypass 3/4" F.  
 Max. 600 bar / 80 °C / 60 l/min

VB60/600



☉ = inlet 1/2" F. ☉ = outlet 1/2" F.  
 BP = bypass 1/2" F. Regulation valve with switch (IP55) and cable 950 mm.  
 Max. 600 bar / 90 °C

R+M Nr.	☉	☉
532 260 0	60 l/min	

R+M Nr.	☉	☉
100 005 60	1/2" F	1/2" F

R+M Nr.	☉	☉
010 000 02	1/2" F	1/2" F

R+M Nr.	☉
532 265 0	60 l/min

Ultra high pressure relief valves

VS 500



☉ 222 mm. Max. 500 bar

R+M Nr.	BP	☉
532 520 0	3/8" F	1/2" F

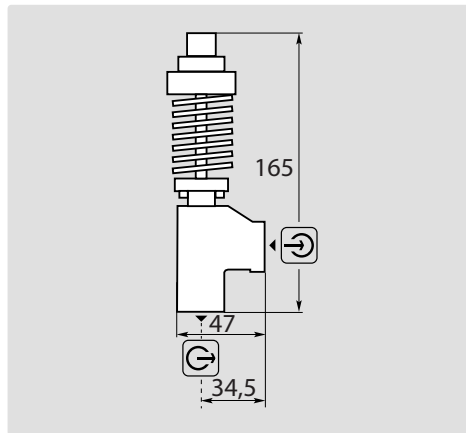
S3



☉ 110 mm. Max. 700 bar

R+M Nr.	☉
010 002 15	1/2" M

ST-230-700 Pressure regulating valve



☉ 165 mm. Max. 40 l/min / 60 °C.  
 Short-term max. 85° C

R+M Nr.	☉	☉	P
200 230 700	3/8" F	1/4" F	200-700

Jetbreaker



☉ 27 mm

R+M Nr.	☉
200 230 410	3/8" M

## Safety spectacles, safety goggles and face shields

### Safety spectacles



- » Anti-fog, scratch-proof and antistatic polycarbonate lens
- » Integrated side protection. Including neck cord
- » 100 % UV-protection
- » Protected against shock, splinters and solid particle
- » Weight 25 g

R+M Nr.

956 002 817



- » Anti-fog and scratch-proof polycarbonate smoke lens
- » Panoramac field of vision
- » 100 % UV-protection
- » Protected against shock, splinters and solid particle
- » Weight 30 g

R+M Nr.

956 002 820

### Flip-up face shields



- » Anti-fog, scratch-proof and antistatic polycarbonate lens
- » Adjustable headgear
- » 100 % UV-protection
- » Protected against shock, splinters, solid particle and chemical danger (dangerous drops)
- » Weight 200 g

R+M Nr.

956 003 487

### Safety goggles with temples



- » Anti-fog, scratch-proof and antistatic polycarbonate lens
- » Straight temples with adjustable strap. Integrated side protection. Exchangeable plastic foam rim with indirect ventilation
- » Including microfibre cloth
- » 100 % UV-protection
- » Shockproof in case of extreme temperatures
- » Protected against shock, splinters, solid particle and liquids
- » Weight 52 g

R+M Nr.

956 004 828

### Safety goggles with adjustable strap



- » Anti-fog, scratch-proof and antistatic polycarbonate lens
- » Fits over prescription spectacles. Ball-pivot. Fits with respiratory half mask
- » 100 % UV-protection
- » Shockproof in case of extreme temperatures. Resistant to chemical drops, toxic gases, small and big toxic particle, melting metals and hot solids
- » Weight 113 g

R+M Nr.

956 003 067

### Visor



- » Anti-fog, scratch-proof and antistatic polycarbonate lens
- » Visor in connection with safety goggle 956 003 067
- » Shockproof in case of extreme temperatures. Resistant to chemical drops, toxic gases, small and big toxic particle, melting metals and hot solids
- » Weight 73 g

R+M Nr.

956 003 128

The accident prevention regulations of the Employer's Liability Insurance Association regarding "the use of high pressure cleaner" (BGV D15) and "tasks with liquid jets" (BGV D26) prescribe that adequate eye and face protection have to be worn in case of an operating pressure of 25 bar and more.

Symbols length inlet outlet flow bypass pressure gauges pressure

### easyprotect365+ protection for high pressure cleaning

easyprotect365+ professional protective clothing for abrasive blasting operations up to 500 bar / 7,500 psi.

The strongest fiber in the world for the toughest demands of the world. Thanks Dyneema any application grown to safely master the most difficult tasks.

The perfect protection for people who work professionally with high-pressure cleaner not only in the industry.

#### Comfort, function and safety

Until now there has been no adequate protection for high pressure cleaning.

Nothing that corresponded to the achievements of modern devices or user requirements on comfort and functionality. Our experience with water blasting work at high pressures (up to 500 bar / 7,500 psi) and other personal protective equipment are the basis for our new clothing range. **easyprotect365+** protection for high pressure cleaning.

Ideal protection for abrasive blasting of concrete rehabilitation works, shipyards, petrochemical and steel industry.

#### Apron



- » 3-layer apron with CE certification
- » Security for blasting work up to 500 bar
- » Ideal for work in warm environments
- » Adjustable carrying band, waist band
- » Easy to put on and waterproof
- » Weight 0.7 kg
- » One Size
- » Protection class 5/5/2

R+M Nr.
956 123 501

#### Special gloves



- » Special gloves with CE certification
- » Security for blasting work up to 500 bar
- » Sand-rubber coating for maximum grip
- » Extra inner glove made of nylon
- » Protection class 5 cut 4 abrasion, tear and cut resistance
- » In two sizes 8 / 11
- » Protection class 5/5/2

R+M Nr.	size
956 100 501	8
956 100 502	11

#### Protective boots



- » Protective boots with CE Certification
- » Security for blasting work up to 500 bar
- » Designed for long working in rough conditions
- » Textile lining for maximum comfort
- » Waterproof and anti-slip sole
- » Weight 2.8 kg
- » Sizes 42 - 48
- » Protection class 5/5/3

R+M Nr.	EUR	US	UK
956 152 501	42	9	8
956 152 502	43	9,5	9
956 152 503	44	10,5	10
956 152 504	45	11,5	11
956 152 505	46	12	11,5
956 152 506	47	13	12,5
956 152 507	48	13,5	13,5

#### Protection class 5/5/3

- rotating nozzle 500 bar/7,500 psi
- flat jet 500 bar/7,500 psi
- point jet 300 bar/4,350 psi

CE 89/686/EEC

#### Protection class 5/5/2

- rotating nozzle 500 bar/7,500 psi
- flat jet 500 bar/7,500 psi
- point jet 200 bar/3,000 psi

CE 89/686/EEC

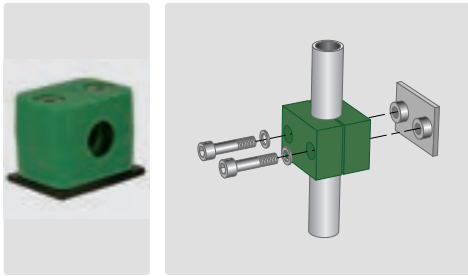
Note - load capacity for point jet:  
300 bar / 4,350 psi



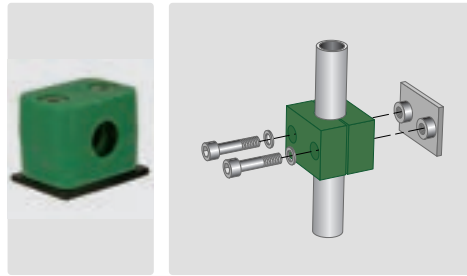
24° DIN Compression pipe couplings stainless steel V4A 1.4571 / AISI 316 TI .....	390
24° DIN Compression pipe couplings zinc-nickel coating .....	391
Accessories for hose reels .....	401, 405, 408-409
Accessories for ST-71 .....	411
Automatic hose reel, mounted with pre-assembled HP-hoses .....	406-407
Automatic hose reels .....	399-400, 403-404
Compression fittings (bicone ring system) .....	392
Compression pipe couplings .....	393
Distributor connector block .....	394
High pressure ball valves ST-3105 .....	393
High pressure ball valves .....	393
High pressure hose reels .....	408, 410, 412
High pressure hose reels ST-71 .....	411
High pressure pipes .....	389
High pressure solenoid valves closed in off-position .....	394
Hose guide system . stainless steel V2A / AISI 304 . 28 x 30 mm profile .....	396
Hose guide system . zinc-plated steel . 28 x 30 mm profile .....	395-396
Hose guide system . zinc-plated steel . 32 x 30 mm Profil .....	397-398
Inox automatic hose reels .....	402
Mounting bracket .....	393
Pipe holder .....	388
Screw clamps / fixing material .....	389
ST-71 hose reels with sewer cleaning hose assembly .....	411
Universal hose guide ST-71 .....	412
Water tank for wall mounting .....	394

Pipe holder

Assembly on welding plate

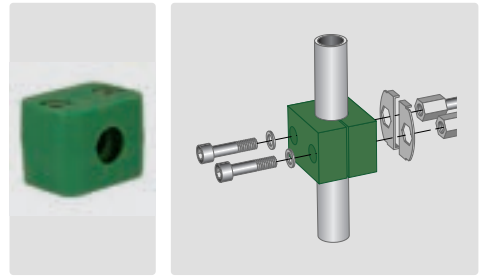


Holder including bolts, discs and welding plate.



Holder including bolts, discs and welding plate.

Simple assembly



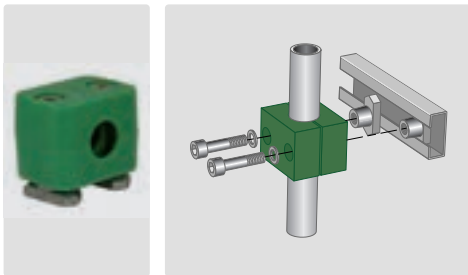
Holder including bolts and discs, zinc-plated steel. Suitable for twin assembly and assembly on double welding plate.

R+M Nr.	RØ	(M)
598 100 49	10	stainless steel
598 120 49	12	stainless steel
598 150 49	15	stainless steel
598 160 49	16	stainless steel
598 180 49	18	stainless steel
598 200 49	20	stainless steel
598 220 49	22	stainless steel

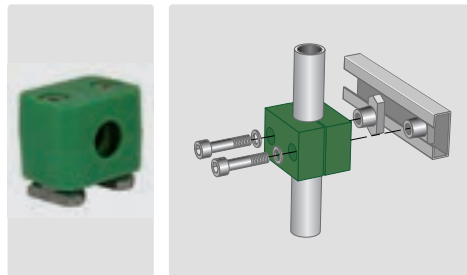
R+M Nr.	RØ	(M)
598 100 4	10	zinc-plated steel
598 120 4	12	zinc-plated steel
598 150 4	15	zinc-plated steel
598 160 4	16	zinc-plated steel
598 180 4	18	zinc-plated steel
598 200 4	20	zinc-plated steel
598 220 4	22	zinc-plated steel

R+M Nr.	RØ	(M)
598 100 3	10	zinc-plated steel
598 120 3	12	zinc-plated steel
598 150 3	15	zinc-plated steel
598 160 3	16	zinc-plated steel
598 180 3	18	zinc-plated steel
598 200 3	20	zinc-plated steel
598 220 3	22	zinc-plated steel

For assembly on support

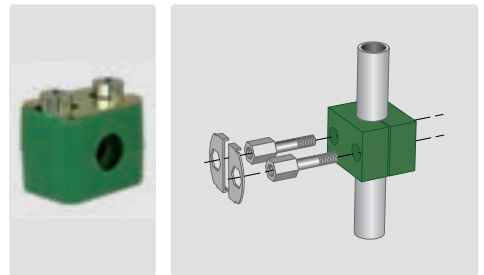


Holder including nuts for track and bolts with discs.



Holder including nuts for track and bolts with discs.

Twin assembly



Holder including twin bolts and fixing support. Zinc-plated steel

R+M Nr.	RØ	(M)
598 100 19	10	stainless steel
598 120 19	12	stainless steel
598 150 19	15	stainless steel
598 160 19	16	stainless steel
598 180 19	18	stainless steel
598 200 19	20	stainless steel
598 220 19	22	stainless steel

R+M Nr.	RØ	(M)
598 100 1	10	zinc-plated steel
598 120 1	12	zinc-plated steel
598 150 1	15	zinc-plated steel
598 160 1	16	zinc-plated steel
598 180 1	18	zinc-plated steel
598 200 1	20	zinc-plated steel
598 220 1	22	zinc-plated steel

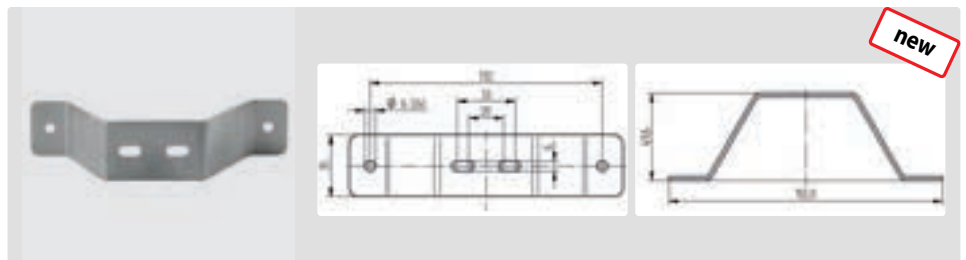
R+M Nr.	RØ	(M)
598 150 2	15	zinc-plated steel
598 160 2	16	zinc-plated steel
598 180 2	18	zinc-plated steel
598 200 2	20	zinc-plated steel
598 220 2	22	zinc-plated steel

Support pipe holder



Length 2 m

R+M Nr.	(M)
598 002 09	stainless steel



R+M Nr.	(M)
040 003 895	stainless steel

Symbols RØ pipe diameter in mm  $\delta$  wall thickness (M) material (P) pressure (G) weight Ø diameter (VPE) packing unit shipment by truck



## Screw clamps / fixing material

### Pipe clamps



Stainless steel V2A. 1.4301 / AISI 304

R+M Nr.	∅
598 912 169	12 - 16 mm
598 915 199	15 - 19 mm
598 920 239	20 - 23 mm



Hanger bolt. Stainless steel. M8 x 80

R+M Nr.
598 010 809

### Hammer head screws



M8 x 30.

Zinc-plated steel

R+M Nr.	VPE
107 902 1	1
107 902 0	50

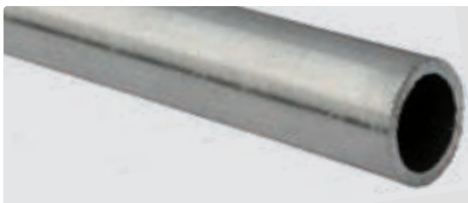


M8 x 30. Stainless steel.

R+M Nr.	VPE
107 902 9	1
107 902 8	50

## High pressure pipes

### Seamless per metre



Stainless steel - according to DIN 2391 and 17458/1 or **galvanized steel / chromated** / E235 + N according to EN 10305-4 (DIN 2445/2). Production length 5-7 m - (Minimum order). The calculation is per meter, plus cost per cut (599 000 0).

Other dimensions and grades of stainless steel are available on request.

∅	R+M Nr.	M	∅	P	∅
10	599 101 0	Stainless steel V2A / AISI 304	1.5 mm	297 bar	0.319 kg/m
10	599 101 51	Galvanized steel / chromated	1.5 mm	385 bar	0.314 kg/m
12	599 121 5	Stainless steel V2A / AISI 304	1.5 mm	241 bar	0.394 kg/m
12	599 121 51	Galvanized steel / chromated	1.5 mm	305 bar	0.388 kg/m
15	599 151 5	Stainless steel V2A / AISI 304	1.5 mm	189 bar	0.507 kg/m
15	599 151 51	Galvanized steel / chromated	1.5 mm	249 bar	0.499 kg/m
16	599 162 0	Stainless steel V2A / AISI 304	2.0 mm	252 bar	0.701 kg/m
16	599 162 02	Stainless steel V4A / AISI 316Ti	2.0 mm	305 bar	0.701 kg/m
16	599 162 01	Galvanized steel / chromated	2.0 mm	305 bar	0.691 kg/m
18	599 182 0	Stainless steel V2A / AISI 304	2.0 mm	221 bar	0.801 kg/m
20	599 202 0	Stainless steel V2A / AISI 304	2.0 mm	196 bar	0.901 kg/m
22	599 222 0	Stainless steel V2A / AISI 304	2.0 mm	177 bar	1.000 kg/m

### Despatch for pipes (length 5-7 m)

In case of less than 5 rods the despatch can only be effected by UPS. The rods are then cut (max. 2 m).

∅	parcel service (approx. 2 m)
10	3-9 pieces (6-27 m)
12	3-9 pieces (6-27 m)
15	3-9 pieces (6-27 m)
16	3-9 pieces (6-27 m)
18	3-9 pieces (6-27 m)
20	3-9 pieces (6-27 m)
22	3-9 pieces (6-27 m)

In case of 5 rods (30 m) or more the uncut lengths are sent by freight forwarding.

∅	forwarding (approx. 5-7 m)
10	from 5 pieces (from 30 m)
12	from 5 pieces (from 30 m)
15	from 5 pieces (from 30 m)
16	from 5 pieces (from 30 m)
18	from 4 pieces (from 24 m)
20	from 4 pieces (from 24 m)
22	from 4 pieces (from 24 m)

### Which diameter?

∅	water flow
10	up to 600 l/h
12	up to 900 l/h
15	up to 1,100 l/h
16	up to 1,200 l/h
18	up to 1,500 l/h
20	up to 2,400 l/h
22	up to 3,600 l/h

Do not hesitate to ask for current prices!



**24° DIN Compression pipe couplings stainless steel V4A 1.4571 / AISI 316 TI**

Standard tube connection program complies with DIN 2353 and ISO ISO 8434-1

**Type GAI, cone 24°**



R+M Nr.	RØ	Ø	TYP	↔
592 101 4	10	1/4"	L	39
592 13	12	3/8"	L	41
592 15	15	3/8"	L	45
592 17	15	1/2"	L	46
592 18	18	1/2"	L	47
592 16	16	1/2"	S	50
592 161	16	M22	S	52

**Type GE, cone 24°**



R+M Nr.	RØ	Ø	TYP	↔
581 09	8	1/4"	L	37
596 101 4	10	1/4"	L	38
596 121 4	12	1/4"	L	39
596 123 8	12	3/8"	L	39
596 121 2	12	1/2"	L	42
596 153 8	15	3/8"	L	40
596 151 2	15	1/2"	L	40
596 183 8	18	3/8"	L	43
596 181 2	18	1/2"	L	45
591 12	12	3/8"	S	46
591 120	12	1/2"	S	48
591 14	16	3/8"	S	48
591 16	16	1/2"	S	51

**Type G, cone 24°**



R+M Nr.	RØ	TYP	↔
593 081	8	L	41
593 101	10	L	43
593 121	12	L	44
593 151	15	L	46
593 18	18	L	49
593 22	22	L	53
593 12	12	S	52
593 16	16	S	58
593 20	20	S	66

**Type T, cone 24°**



R+M Nr.	RØ	TYP	↔
595 101	10	L	60
595 121	12	L	64
595 15	15	L	72
595 18	18	L	80
595 22	22	L	88
595 12	12	S	76
595 16	16	S	86
595 20	20	S	96

**Type W, cone 24°**



R+M Nr.	RØ	TYP	↔
594 101	10	L	30
594 121	12	L	32
594 15	15	L	36
594 18	18	L	40
594 22	22	L	44
594 12	12	S	38
594 16	16	S	43
594 20	20	S	48

**Type REDV, cone 24°**

Straight reducer with 24° DKO swivel and 24° cone end



R+M Nr.	RØ	RØ	TYP	↔
593 121 02	12	10	L	42
593 151 22	15	12	L	46
593 181 52	18	15	L	45
593 161 22	16	12	S	48

**Type EWVD, cone 24°**

90° elbow connector with 24° DKO swivel and 24° cone end



R+M Nr.	RØ	TYP	↔
594 101 02	10	L	30
594 121 22	12	L	32
594 151 52	15	L	36
594 161 62	16	S	43

**Type ETVD, cone 24°**

Branch Tee with 24° DKO swivel and 24° cone end



R+M Nr.	RØ	TYP	↔
594 101 02	10	L	30
594 121 22	12	L	32
594 151 52	15	L	36
594 161 62	16	S	43

**Type ELVD, cone 24°**

Run Tee with 24° DKO swivel and 24° cone end



R+M Nr.	RØ	TYP	↔
595 101 03	10	L	58
595 121 23	12	L	61
595 151 53	15	L	69
595 161 63	16	S	78

**Type EGVD-R-WD, cone 24°**

Straight connector with 24° DKO swivel



R+M Nr.	RØ	Ø	TYP	↔
596 101 42	10	1/4"	L	27
596 103 82	10	3/8"	L	29
596 123 82	12	3/8"	L	34
596 151 22	15	1/2"	L	32
596 161 22	16	1/2"	S	37

**Please follow the assembly instructions  
DIN 3859.**

**Which operating pressure for stainless steel?**

- LL = light series
  - L = solid series
  - S = heavy duty series
- Other connections are available on request.

TYP	Nominal pressure acc. to DIN 2401
LL ( 4 - 8 )	100 bar
L ( 6 - 10 )	315 bar
L ( 12 - 18 )	315 bar
L ( 22 - 42 )	160 bar
S ( 6 - 10 )	630 bar
S ( 12 - 16 )	490 bar
S ( 20 - 38 )	315 bar

Symbols thread pipe diameter in mm length in mm type

## 24° DIN Compression pipe couplings zinc-nickel coating

The optimised zinc-nickel coating has demonstrated values in excess of 1,200 hours corrosion protection against white rust during testing in accordance with DIN EN ISO 9227.

### Type GAI, cone 24°



R+M Nr.	RØ	Ø	TYP	↔
580 101 4	10	1/4"	L	40
580 123 8	12	3/8"	L	41
580 153 8	15	3/8"	L	43
580 151 2	15	1/2"	L	46
581 56	18	1/2"	L	47
580 123 81	12	3/8"	S	43
580 161 21	16	1/2"	S	50

### Type GE, cone 24°



R+M Nr.	RØ	Ø	TYP	↔
581 101 4	10	1/4"	L	38
581 121 4	12	1/4"	L	39
581 123 8	12	3/8"	L	39
581 121 23	12	1/2"	L	42
581 153 8	15	3/8"	L	40
581 81	15	1/2"	L	43
581 183 8	18	3/8"	L	41
581 181 2	18	1/2"	L	45
581 123 81	12	3/8"	S	45
581 121 21	12	1/2"	S	48
581 163 8	16	3/8"	S	48
581 80	16	1/2"	S	51

### Type G, cone 24°



R+M Nr.	RØ	TYP	↔
581 101 0	10	L	41
581 121 2	12	L	44
581 151 5	15	L	46
581 181 8	18	L	40
581 222 2	22	L	53
581 121 22	12	S	52
581 161 6	16	S	58

### Type T, cone 24°



R+M Nr.	RØ	TYP	↔
585 510	10	L	60
585 512	12	L	64
585 515	15	L	72
585 518	18	L	80
585 522	22	L	88
585 512 1	12	S	76
585 516 1	16	S	86

### Type W, cone 24°



R+M Nr.	RØ	TYP	↔
583 101 0	10	L	30
583 121 2	12	L	32
583 151 5	15	L	36
583 181 8	18	L	40
583 121 21	12	S	38
583 161 6	16	S	43

### Type REDV, cone 24°

Straight reducer with 24° DKO swivel and 24° cone end



R+M Nr.	RØ	RØ	TYP	↔
586 121 02	12	10	L	42
586 151 22	15	12	L	47
586 181 52	18	15	L	45
586 161 22	16	12	S	49

### Type EWVD, cone 24°

90° elbow connector with 24° DKO swivel and 24° cone end



R+M Nr.	RØ	TYP	↔
583 101 02	10	L	30
583 121 22	12	L	32
583 151 52	15	L	37
583 161 62	16	S	43

### Type ETVD, cone 24°

Branch Tee with 24° DKO swivel and 24° cone end



R+M Nr.	RØ	TYP	↔
585 101 02	10	L	60
585 121 22	12	L	64
585 151 52	15	L	74
585 161 62	16	S	86

### Type ELVD, cone 24°

Run Tee with 24° DKO swivel and 24° cone end



R+M Nr.	RØ	TYP	↔
585 101 03	10	L	59
585 121 23	12	L	62
585 151 53	15	L	70
585 161 63	16	S	80

### Type EGV-D-R-WD, cone 24°

Straight connector with 24° DKO swivel



R+M Nr.	RØ	Ø	TYP	↔
581 101 42	10	1/4"	L	41
581 103 82	10	3/8"	L	42
581 123 82	12	3/8"	L	47
581 151 22	15	1/2"	L	48
581 161 22	16	1/2"	S	52

Please follow the assembly instructions  
DIN 3859.

### Which operating pressure for carbon steel ZnNi coating?

LL = light series  
L = solid series  
S = heavy duty series  
Other connections are available on request.

TYP	Nominal pressure acc. to DIN 2401
LL ( 4 - 8)	100 bar
L ( 6 - 10)	500 bar
L (12 - 18)	400 bar
L (22 - 42)	250 bar
S ( 6 - 10)	800 bar
S (12 - 16)	630 bar
S (20 - 38)	420 bar

### Altemp Q NB 50



Grease for compression pipe couplings

R+M Nr.
953 60

Compression fittings (bicone ring system)

Straight screw connectors



X-GE. Zinc-plated steel

R+M Nr.	TYP	AG : AG	I
580 90	6 LL	M10 : 1/8"	20
580 95	6 L	M12 : 1/8"	23
580 98	6 L	M12 : 1/4"	28
580 99	8 L	M14 : 1/8"	24
581 00	8 L	M14 : 1/4"	29
581 05	8 L	M14 : 3/8"	31
581 10	10 L	M16 : 1/4"	30
581 20	10 L	M16 : 3/8"	28
581 25	10 L	M16 : 1/2"	34
581 50	12 L	M18 : 1/4"	31
581 60	12 L	M18 : 3/8"	28
581 55	12 L	M18 : 1/2"	31
581 141 21	14 S	M22 : 1/2"	41



X-GE. Stainless steel

R+M Nr.	TYP	AG : AG	I
581 19	10 L	M16 : 1/4"	30
581 29	10 L	M16 : 3/8"	28
581 59	12 L	M18 : 1/4"	31
581 69	12 L	M18 : 3/8"	28
596 143 81	14 S	M22 : 3/8"	39
596 141 21	14 S	M22 : 1/2"	41

Straight screw connectors



X-GAI. Zinc-plated steel

R+M Nr.	TYP	IG : AG	I
580 00	6 L	1/4" : M12	25
580 10	8 L	1/4" : M14	31
580 20	10 L	1/4" : M16	32
580 50	10 L	3/8" : M16	28
580 30	12 L	1/4" : M18	33
580 40	12 L	3/8" : M18	33



X-GAI. Stainless steel

R+M Nr.	TYP	IG : AG	I
580 29	10 L	1/4" : M16	32
580 39	12 L	1/4" : M18	33

Nominal pressure according to DIN 2401

LL = light series  
 L = solid series  
 S = heavy duty series  
 Other connections are available on request.

TYP	Stainless steel	Zinc-plated steel
LL ( 4 - 8)	100 bar	100 bar
L ( 6 - 10)	315 bar	500 bar
L (12 - 18)	315 bar	400 bar
L (22 - 42)	160 bar	250 bar
S ( 6 - 10)	630 bar	800 bar
S (12 - 16)	490 bar	630 bar
S (20 - 38)	315 bar	420 bar

Double nipples / connectors



X-G. Zinc-plated steel

R+M Nr.	TYP	AG	I
581 30	10 L	M16	27
581 70	12 L	M18	28



X-G. Stainless steel

R+M Nr.	TYP	AG	I
581 79	12 L	M18	28

Elbows



WE-R. Zinc-plated steel  
 With nut & bicone ring

R+M Nr.	TYP	AG	∅	↔
583 00	6 L	1/8"	6	28
583 20	12 L	3/8"	12	35
583 121 4	12 L	1/4"	12	35

Pipe pieces



EG. Zinc-plated steel.  
 Nut & bicone ring premounted

R+M Nr.	TYP	∅ : AG	∅	I
581 12	8 L	M14 : 1/4"	8	42
581 11	10 L	M16 : 1/4"	10	40
581 138 2	10 L	M16 : 3/8"	10	44
581 61	12 L	M18 : 3/8"	12	47
581 619*	12 L	M18 : 3/8"	12	47
581 13	12 L	M18 : 1/4"	12	47



X-EG. Zinc-plated steel.  
 Without nut & bicone ring

R+M Nr.	∅ : AG	∅	I
582 25	M18 : 3/8"	12	47

Bicone rings



Zinc-plated steel

R+M Nr.	TYP	∅
584 102	L / S	10
584 122	L / S	12

Nut



Zinc-plated steel

R+M Nr.	TYP	∅
584 101	10 L	M16
584 121	12 L	M18

\* Stainless steel

Symbols IG female thread AG male thread ∅ diameter ⊕ inlet ⊖ outlet P pressure

## Compression pipe couplings

### Stop nuts



Stainless steel V4A 1.4571 / AISI 316  
Ti. Stop nuts as per DIN 3870

R+M Nr.	⊙
590 081	M14 x 1.5
590 101	M16 x 1.5
590 121	M18 x 1.5
590 123	M20 x 1.5
590 151	M22 x 1.5
590 163	M24 x 1.5
590 181	M26 x 1.5
590 203	M30 x 2
590 221	M30 x 2
590 303	M42 x 2

### Bicone rings



Hardened stainless steel. Bicone ring as per DIN 3861 Form B

R+M Nr.	RØ	TYP
590 082	8 mm	L
590 102	10 mm	L
590 122	12 mm	L
590 122	12 mm	S
590 152	15 mm	L
590 164	16 mm	S
590 182	18 mm	L
590 204	20 mm	S
590 222	22 mm	L
590 304	30 mm	S

## Mounting bracket



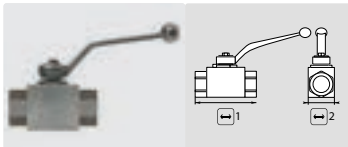
Mount for 500 bar ball valves 3/8" and 1/2"

R+M Nr.	M
708 00	stainless steel

Please follow the assembly instructions DIN 3859.

## High pressure ball valves ST-3105

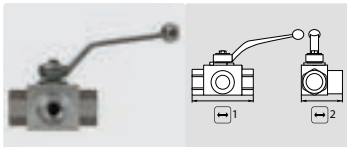
### Standard



Lever Zn.  
Ball chrome-plated.  
Max. 80 °C

R+M Nr.	⊙	P	↔ 1	↔ 2
706 03	1/4"	500 bar	69	26
706 10	3/8"	500 bar	72	32
706 15	1/2"	500 bar	83	35
706 18	3/4"	315 bar	95	49

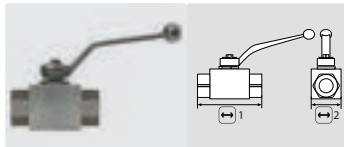
### High pressure ball valves



Lever Zn.  
Ball chrome-plated. L-form.  
Max. 80 °C

R+M Nr.	⊙	P	↔ 1	↔ 2
706 23	1/4"	500 bar	69	48
706 24	3/8"	500 bar	72	52
706 25	1/2"	500 bar	83	59
706 27	3/4"	315 bar	95	72

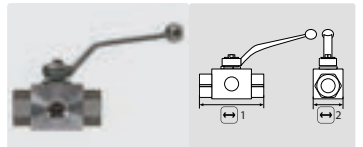
### Standard stainless steel



AISI 316 Ti.  
Ball stainless steel.  
Max. 100 °C

R+M Nr.	⊙	P	↔ 1	↔ 2
707 15	1/4"	500 bar	69	26
707 25	3/8"	500 bar	72	32
707 35	1/2"	500 bar	83	35
707 45	3/4"	315 bar	95	49

### HP ball valves stainless steel



AISI 316 Ti. Lever Zn.  
Ball stainless steel. L-form.  
Max. 100 °C

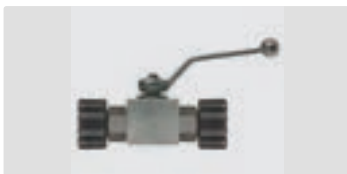
R+M Nr.	⊙	P	↔ 1	↔ 2
706 279	1/4"	500 bar	69	48
706 269	3/8"	500 bar	72	52
706 260	1/2"	500 bar	83	57
706 299	3/4"	315 bar	95	72

### Valves with connections



Zinc-plated steel. Lever Zn.  
Ball chrome-plated.  
Max. 500 bar / 80 °C

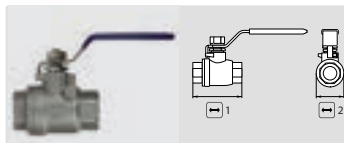
R+M Nr.	⊙	⊙	↔
706 05	M22 M	M22 F	65
706 151	M22 M	tube ∅16	83
706 20	M18 M	M18 M	64
706 101	M22 M	M22 M	100



Zinc-plated steel. Lever Zn.  
Ball chrome-plated.  
Max. 500 bar / 80 °C

R+M Nr.	⊙	⊙	↔
706 031	M22 F	M22 F	110

## High pressure ball valves



Stainless steel V2A / AISI 304.  
Ball stainless steel.  
Max. 140 bar / 60 °C

R+M Nr.	⊙	↔ 1	↔ 2
707 10	1/4"	52	28
707 20	3/8"	52	28
707 30	1/2"	64	31
707 40	3/4"	71	35



Nickel-plated brass.  
Ball chrome-plated.  
Max. 210 bar / 80 °C

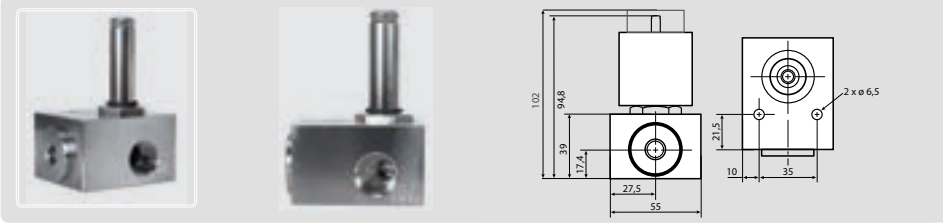
R+M Nr.	⊙	↔ 1	↔ 2
705 383 82	3/8"	30	75
705 121 22	1/2"	36	85

Further ball valve models are available on request.

Symbols ⊙ thread RØ pipe diameter in mm ↔ length in mm M material TYP type ⊥ height en mm

High pressure solenoid valves closed in off-position

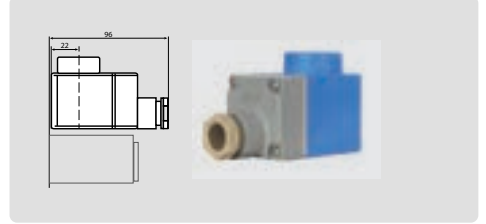
Danfoss VDHT



Stainless steel. Viton. Pressure range 0 - 160 bar. Without coil. Max. 90 °C

R+M Nr.	⊙	⇐
837 180 094	1/2"	60 l/min
837 180 092	3/8"	30 l/min

Danfoss solenoid coil



24 V / DC / 13 W

R+M Nr.
837 018 791 4

Rapa SV 04



1/4" F. NW 1.5 mm. Solenoid valve with connector. Pressure range 0 - 130 bar. Max. 90 °C

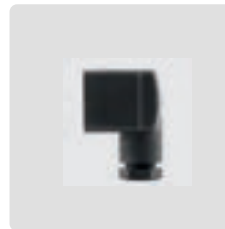
R+M Nr.	V
832 01	24 V =
832 00	24 V ~ 50 Hz
832 10	230 V ~ 50 Hz

AK



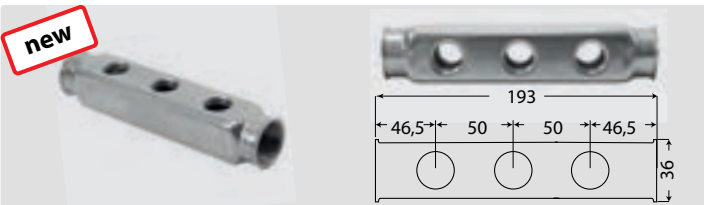
1/4" F. NW 1.2 mm. Solenoid valve without connector. Pressure range 0 - 180 bar. Max. 90 °C

R+M Nr.	⇔	I	V
833 10	48 mm	109 mm	24 V =
833 15	48 mm	109 mm	24 V ~ 50 Hz
833 00	48 mm	109 mm	230 V ~ 50 Hz



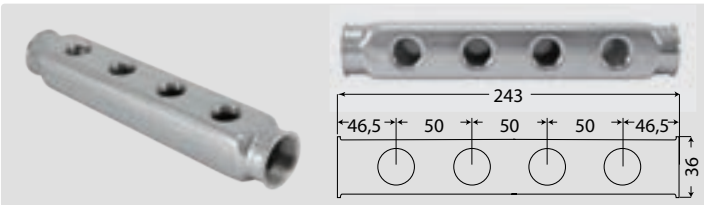
R+M Nr.
833 50

Distributor connector block



Stainless steel. 2 x 3 connections.  
H x W x D: 36 x 193 x 40 mm. 290 g.  
Max. 10 bar. 150 °C

R+M Nr.	6 x ⊙	⊕	⊖
725 061 012	1/2" F	1" F	1" F



Stainless steel. 4 connections.  
H x W x D: 36 x 243 x 40 mm. 390 g.  
Max. 10 bar. 150 °C

R+M Nr.	4 x ⊙	⊕	⊖
725 041 012	1/2" F	1" F	1" F

Water tank for wall mounting

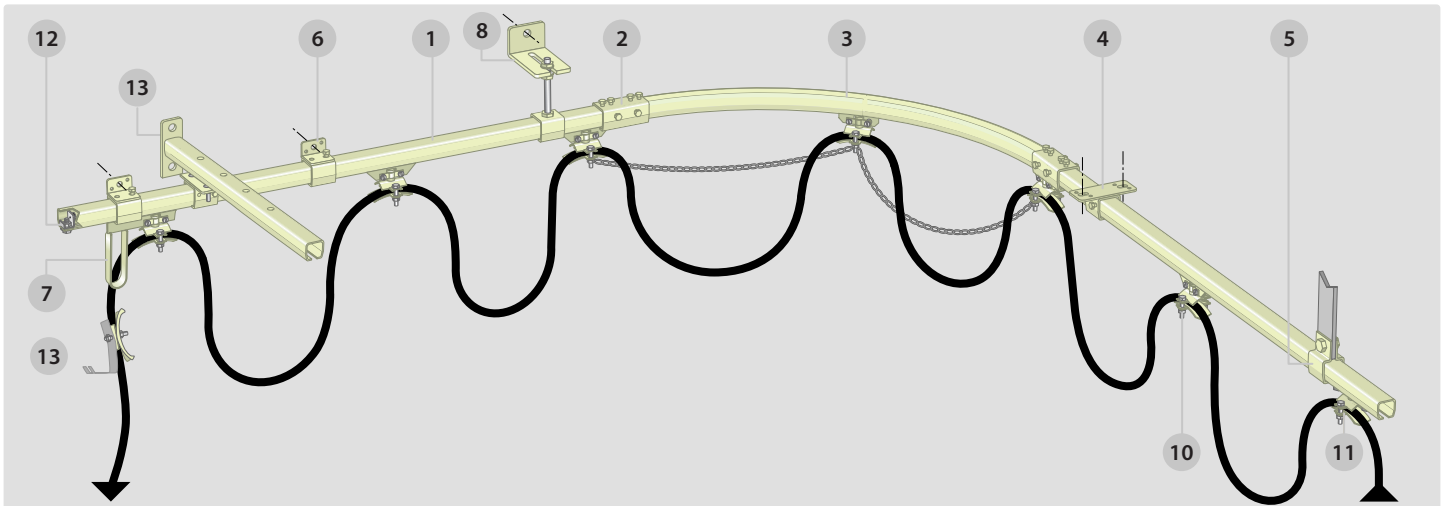


Stainless steel. Incl. wall bracket, baffle and cover. 21 kg

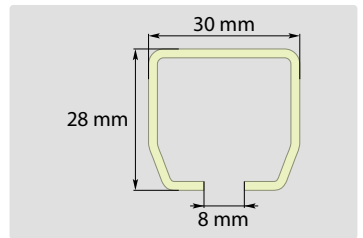
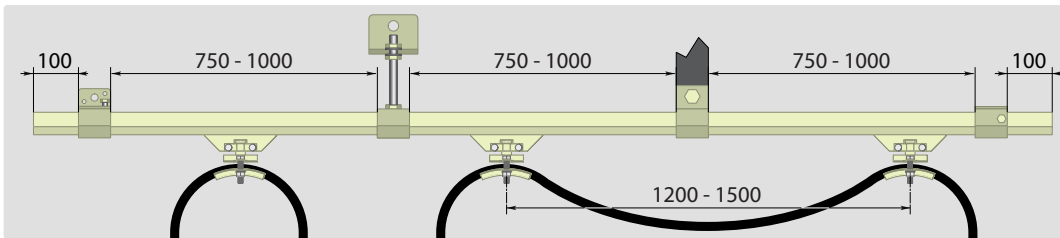
R+M Nr.	∅ / ⊕	⊖	capacity
105 000 030	27 mm / 3/4"	3/4" F	60 l

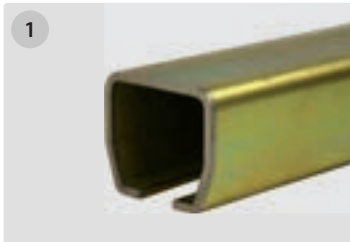

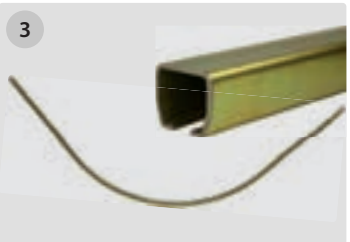



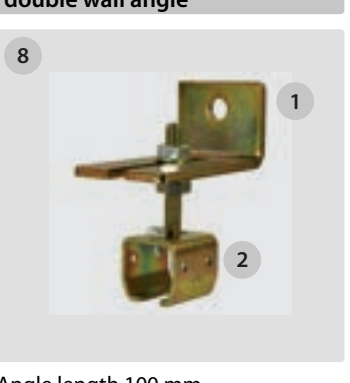


Symbols ⊕ inlet ⊖ outlet P pressure V voltage ⇐ flow I height ⊙ thread TYP type 🚚 shipment by truck

## Hose guide system . zinc-plated steel . 28 x 30 mm profile



In case of angle installation it is recommended to connect the trolleys with a chain.



C-rails	Connecting rails	90° C-rails	Ceiling support brackets
			
R+M Nr.  107 008 0 6 m	R+M Nr.  107 208 0 80 mm	R+M Nr. radius 107 508 0 650 mm	Hole size 63 mm R+M Nr.  107 608 0 40 mm
Mount base for flat iron	Wall mount base	Mounting brackets	Adjustable bracket in height + double wall angle
			
R+M Nr.  107 908 0 40 mm	R+M Nr.  107 108 0 40 mm	R+M Nr.  107 901 0 1 300 mm 107 902 0 2 $\sqrt{VPE} = 50$	Angle length 100 mm R+M Nr.  107 808 1 1 angle 107 808 2 2 sleeve

Please use the hose guide system made out of stainless steel in case of saline conditions!



**Hose guide system . zinc-plated steel . 28 x 30 mm profile**

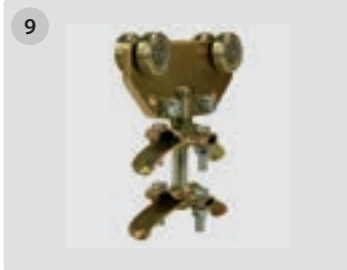
**Attachment trolleys**



Weight max. 10 kg

R+M Nr.	outer $\varnothing$
107 308 07	8 - 15 mm
107 308 06	16 - 24 mm

**Twin hose trolleys**



Weight max. 10 kg

R+M Nr.	outer $\varnothing$
107 308 012	8 - 15 mm
107 308 002	16 - 24 mm

**Hose trolleys**



Weight max. 10 kg

R+M Nr.	outer $\varnothing$
107 308 01	8 - 15 mm
107 308 0	16 - 24 mm

**End clamps**



Weight max. 10 kg

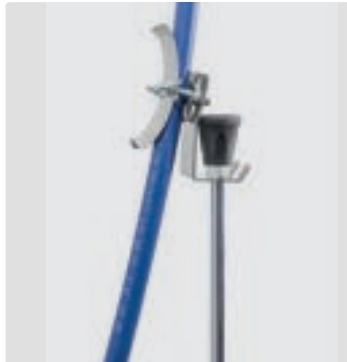
R+M Nr.	outer $\varnothing$
107 708 01	8 - 15 mm
107 708 0	16 - 24 mm

**Lance Holder**

Clamp galvanized steel, holder stainless steel. For Hose- $\varnothing$  16-24 mm



R+M Nr.
200 000 180



**Bumpers**



R+M Nr.
107 408 0

**Hose guide system . stainless steel V2A / AISI 304 . 28 x 30 mm profile**

**C-rails**



R+M Nr.	length	shipment
107 008 09	6 m	truck

**Mounting brackets**



R+M Nr.	length	VPE
107 901 9	300 mm	1
107 902 8	VPE = 50	2

**Connecting rails**



R+M Nr.
107 208 09

**Ceiling support brackets**



Hole size 63 mm

R+M Nr.	length
107 608 09	40 mm

**Adjustable bracket in height + double wall angle**



Angle length 100 mm

R+M Nr.	angle	sleeve
107 808 19	1	angle
107 808 29	2	sleeve

**Attachment trolleys**



Suitable for hoses up to 24 mm

R+M Nr.
107 308 069

**Hose trolleys**



Suitable for hoses up to 24 mm

R+M Nr.
107 308 09

**Hose end clamps**



Suitable for hoses up to 24 mm

R+M Nr.
107 708 09

**Bumpers**



R+M Nr.
107 408 09

Symbols **TYP** type **VPE** packing unit **↔** length **🚚** shipment by truck

## Hose guide system . zinc-plated steel . 32 x 30 mm Profil



Hose guide system elements for easy installation on 32 x 30 mm profile rails, for existing systems:

- » Material: galvanized steel / plastic.
- » For hoses with an outer diameter of 10-16, 17-25 and 26-32 mm.
- » Safe and variable adaptations, indestructible and easy to disassemble.
- » Smooth-running guide rollers.
- » Corrosion-free and lightweight.
- » Can be put together individually (modular system).
- » Temperature range: - 30 ° C to + 60 ° C.
- » Contact us! We supply a wide range of additional accessories on request!

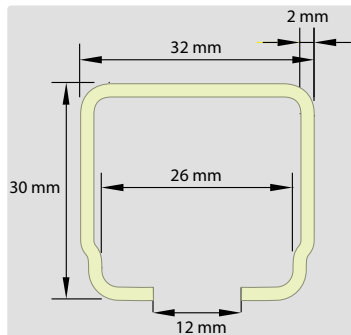


### C-Rail\*



Galvanized steel, C-Rail 32 x 30 mm.

R+M Nr.	↔
107 000 900	4 meters
107 000 801	6 meters



\* the profile is suitable for existing systems (not for items on catalog pages 395-396)

### Ceiling support brackets



Hole size 60 mm

R+M Nr.	↔
107 000 825	86 mm

### Wall mount base

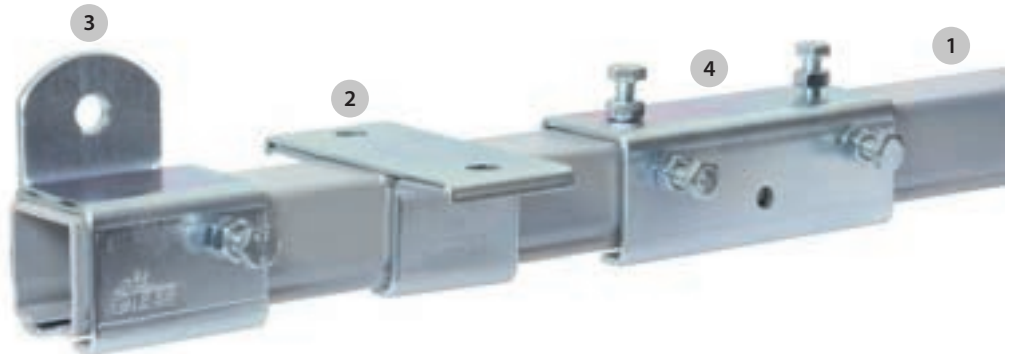


R+M Nr.	↔
107 000 830	50 mm

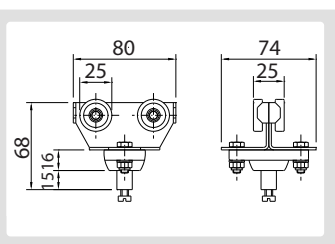
### Connecting rails



R+M Nr.	↔
107 000 810	100 mm



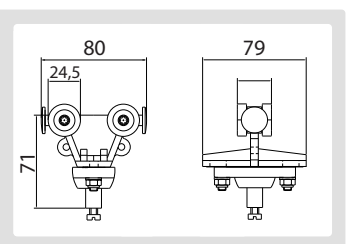
### Hose trolleys plastic / galvanized steel



For C-Rail 32 x 30 mm. Load capacity 20 kg.  
Rollers with ball bearings.

R+M Nr.
107 000 301

### Hose trolleys plastic



For C-Rail 32 x 30 mm. Load capacity 5 kg.  
Casters with steel axles.

R+M Nr.
107 000 305

### Hose guide system . zinc-plated steel . 32 x 30 mm Profil

#### Hose hanger plastic

∅ 10-16 mm



Galvanized steel screws. For C-Rail 32 x 30 mm.

R+M Nr.	↔	R
107 000 050	70	80

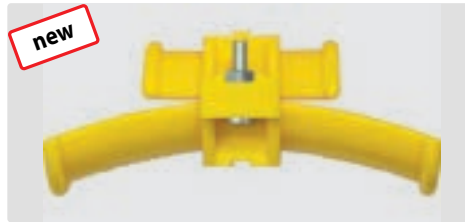
∅ 17-25 mm



Galvanized steel screws. For C-Rail 32 x 30 mm.

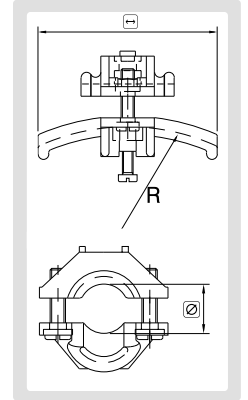
R+M Nr.	↔	R
107 000 051	100	125

∅ 26-36 mm



Galvanized steel screws. For C-Rail 32 x 30 mm.

R+M Nr.	↔	R
107 000 052	140	160



#### End clamp



Plastic / galvanized steel. For C-Rail 32 x 30 mm

R+M Nr.
107 000 779

#### End stop



Galvanized steel. Rubber buffer. For C-Rail 32 x 30 mm

R+M Nr.
107 408 0

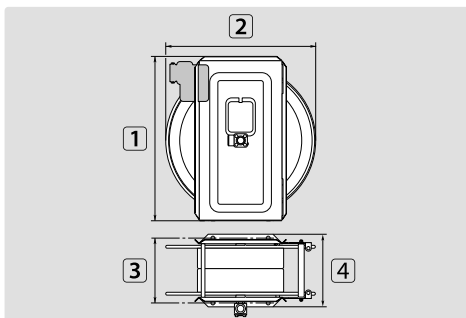
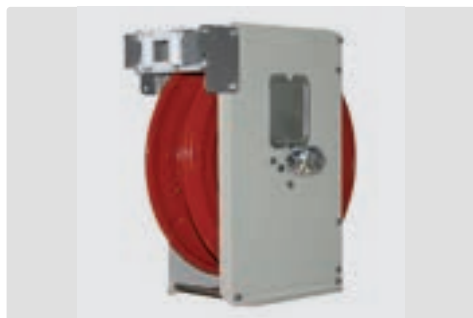
## Automatic hose reels

The ST and SoST series are robust and reliable hose reel models with automatic spring return with the following characteristics:

- » Maintenance-free slide bearings made out of plastics being resistant to chemicals, wetness and dirt.
- » There are 8 positions per rotation to stop the hose. A quick pull unmakes the locking device.
- » The hose reels are all equipped with a swivel ST-322. The swivels ST-322 are completely made out of stainless steel and have a ring as sealing element.

- » Suitable for the mediums water or water with cleaning detergent, air, oils and greases.
- » Further models are available on request: electrostatically buffed suitable for the food industry or the ATEX version designed for applications in explosion-proof areas.

### ST 14 / ST 20 / ST 30 / ST 40

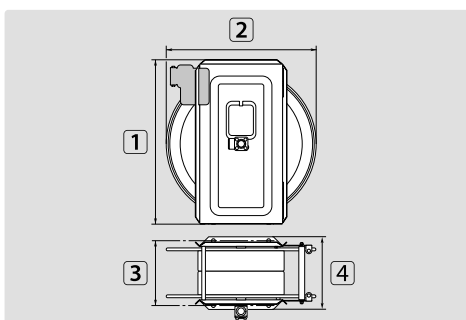


TYP	outer $\varnothing$ = hose $\leftrightarrow$
01	15.0 mm = 14 m
02	15.0 mm = 20 m
03	15.0 mm = 40 m
08	25.0 mm = 10 m
09	25.0 mm = 36 m
10	15.0 mm = 28 m

Powder-coated steel. Application in dry areas

R+M Nr.	★	⊕	⊖	DN	P	°C	g	1	2	3	4	TYP
750 14	●	3/8" F	3/8" F	10	400 bar	90 °C	14.0 kg	440 mm	400 mm	176 mm	206 mm	01
750 141	●	M22 M	M22 M	10	400 bar	90 °C	14.0 kg	440 mm	400 mm	176 mm	206 mm	01
750 20	●	3/8" F	3/8" F	10	400 bar	90 °C	16.0 kg	500 mm	460 mm	176 mm	206 mm	02
750 201	●	M22 M	M22 M	10	400 bar	90 °C	16.0 kg	500 mm	460 mm	176 mm	206 mm	02
750 30	■	3/8" F	3/8" F	10	400 bar	90 °C	18.0 kg	500 mm	460 mm	226 mm	256 mm	10
750 40	■	3/8" F	3/8" F	10	400 bar	90 °C	25.0 kg	500 mm	460 mm	276 mm	306 mm	03
750 401	■	M22 M	M22 M	10	400 bar	90 °C	25.0 kg	500 mm	460 mm	276 mm	306 mm	03
750 201 9	●	3/4" F	3/4" F	19	200 bar	90 °C	17.0 kg	500 mm	460 mm	176 mm	206 mm	08
750 401 9	▲	3/4" F	3/4" F	19	200 bar	90 °C	26.5 kg	500 mm	460 mm	376 mm	406 mm	09

### ST 14 / ST 20 / ST 30 / ST 40



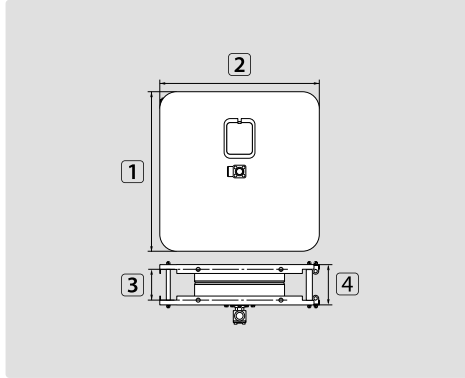
TYP	outer $\varnothing$ = hose $\leftrightarrow$
01	15.0 mm = 14 m
02	15.0 mm = 20 m
03	15.0 mm = 40 m
04	15.0 mm = 57 m
05	20.0 mm = 17 m
06	20.0 mm = 25 m
07	20.0 mm = 37 m
09	25.0 mm = 36 m
10	15.0 mm = 28 m

Stainless steel V2A / AISI 304. Application in wet areas

R+M Nr.	★	⊕	⊖	DN	P	°C	g	1	2	3	4	TYP
740 14	●	3/8" F	3/8" F	10	400 bar	90 °C	14.0 kg	440 mm	400 mm	176 mm	206 mm	01
740 141	●	M22 M	M22 M	10	400 bar	90 °C	14.0 kg	440 mm	400 mm	176 mm	206 mm	01
740 20	●	3/8" F	3/8" F	10	400 bar	90 °C	16.0 kg	500 mm	460 mm	176 mm	206 mm	02
740 201	●	M22 M	M22 M	10	400 bar	90 °C	16.0 kg	500 mm	460 mm	176 mm	206 mm	02
740 30	■	3/8" F	3/8" F	10	400 bar	90 °C	18.0 kg	500 mm	460 mm	226 mm	256 mm	10
740 301	■	M22 M	M22 M	10	400 bar	90 °C	18.0 kg	500 mm	460 mm	226 mm	256 mm	10
740 312	■	1/2" F	1/2" F	12	400 bar	90 °C	18.0 kg	500 mm	460 mm	226 mm	256 mm	06
740 40	■	3/8" F	3/8" F	10	400 bar	90 °C	25.0 kg	500 mm	460 mm	276 mm	306 mm	03
740 401	■	M22 M	M22 M	10	400 bar	90 °C	25.0 kg	500 mm	460 mm	276 mm	306 mm	03
740 60	▲	3/8" F	3/8" F	10	400 bar	90 °C	32.5 kg	500 mm	460 mm	376 mm	406 mm	04
740 201 2	●	1/2" F	1/2" F	12	300 bar	90 °C	16.0 kg	500 mm	460 mm	176 mm	206 mm	05
740 401 2	■	1/2" F	1/2" F	12	300 bar	90 °C	25.0 kg	500 mm	460 mm	276 mm	306 mm	07
740 401 9	▲	3/4" F	3/4" F	19	200 bar	90 °C	26.5 kg	500 mm	460 mm	376 mm	406 mm	09

## Automatic hose reels

SoST 14 / SoST 20

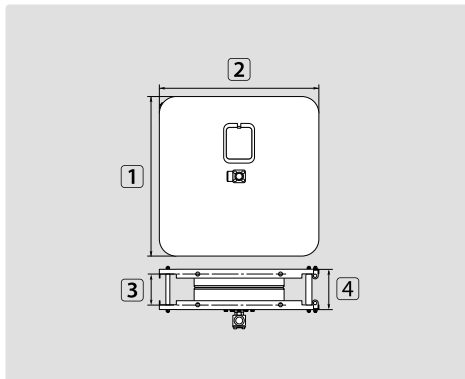


TYP	outer $\varnothing$ = hose $\leftrightarrow$
01	15.0 mm = 14 m
02	15.0 mm = 20 m

Powder-coated steel. Application in dry areas

R+M Nr.	★	⊕	⊖	DN	P	°C	⊘	1	2	3	4	TYP
740 002	●	3/8" F	1/2" F	10	400 bar	90 °C	14.0 kg	470 mm	470 mm	107 mm	135 mm	01
740 005	●	3/8" F	1/2" F	10	400 bar	90 °C	16.0 kg	470 mm	470 mm	167 mm	195 mm	02

SoST 14 / SoST 20



TYP	outer $\varnothing$ = hose $\leftrightarrow$
01	15.0 mm = 14 m
02	15.0 mm = 20 m

Stainless steel V2A / AISI 304. Application in wet areas

R+M Nr.	★	⊕	⊖	DN	P	°C	⊘	1	2	3	4	TYP
740 008	●	3/8" F	1/2" F	10	400 bar	90 °C	14.0 kg	470 mm	470 mm	107 mm	135 mm	01
740 009	●	3/8" F	1/2" F	10	400 bar	90 °C	16.0 kg	470 mm	470 mm	167 mm	195 mm	02

Symbols  $\varnothing$  weight TYP type °C temperature DN nominal diameter P pressure ★ marking ⊕ inlet ⊖ outlet 1 height ⊙ thread M material

## Accessories for hose reels

### Wall swivel brackets ST 14 / ST 20



180° swivel

R+M Nr.	★	Ⓜ
741 00	●	zinc-plated steel
741 01	●	stainless steel *

### Wall swivel brackets ST 30 / ST 40



180° swivel

R+M Nr.	★	Ⓜ
741 001	■	zinc-plated steel
741 011	■	stainless steel *

### Wall swivel brackets ST 40



180° swivel

R+M Nr.	★	Ⓜ
741 003	▲	zinc-plated steel
741 012	▲	stainless steel *

### Counterplates ST14/20/30/40



R+M Nr.	Ⓜ
741 002	stain. steel *

\* V2A / AISI 304

### Swivels ST-322



3/8" F : 3/8" M. DN 10.  
Max. 400 bar / 90 °C

R+M Nr.	ⓘ
200 322 500	65 mm



1/2" F : 3/8" M. DN 10.  
Max. 300 bar / 90 °C

R+M Nr.	ⓘ
200 322 510	65 mm



1/2" F : 1/2" M. DN 12.  
Max. 300 bar / 90 °C

R+M Nr.	ⓘ
200 322 520	67 mm



1/2" F : 1/2" M. DN 12.  
Max. 300 bar / 90 °C

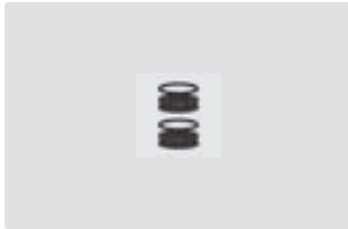
R+M Nr.	ⓘ
200 322 522	68 mm

### ST / SoST



Swivel 200 bar

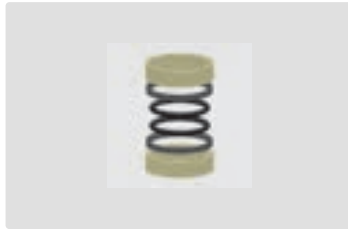
R+M Nr.	⊙
750 400 1	3/4"



Seal kit swivel 200 bar

R+M Nr.	Ⓜ
750 400 2	3/4"

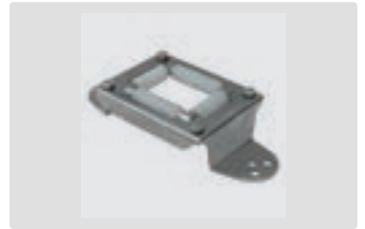
### Repair kit ST-322



Repair kit swivels ST-322

R+M Nr.
200 322 490

### Hose guides



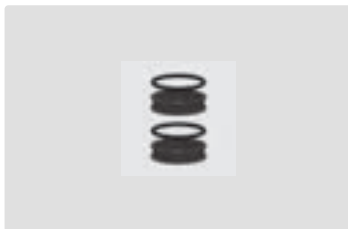
Wall hose guide frame. 50 x 37 mm

R+M Nr.
741 06



1/4" F : 3/8" M. Housing and axle stainless steel. Max. 600 bar / 90 °C

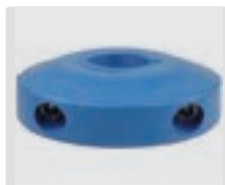
R+M Nr.	ⓘ
750 280 0	59 mm



Seal kit swivel 750 280 0

R+M Nr.
750 200 2

### Hose stops



Hose stop with six exchangeable inserts. Hose ⌀ 10 - 34 mm

R+M Nr.
741 03



R+M Nr.	⊗
200 000 171	14.5
200 000 170	16.0
200 000 172	17.7
200 000 173	21.5
200 000 174	24.5

### Bolt sets



Stainless steel. Set for bracket

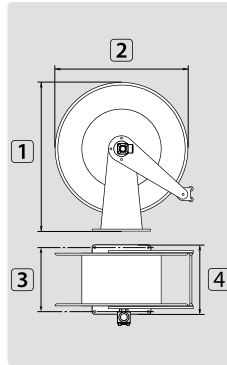
R+M Nr.
741 02



**Inox automatic hose reels**

- » Base frame stain. steel V2A / AISI 304. Reel made out of especially impact-resistant ABS plastic which is usually used for the manufacture of motorcycle helmets and in the automotive industry.
- » Due to the high quality construction of the automatic spring-driven high pressure hose reels they are suitable for applications in service stations, garages, in the agriculture and in the building industry etc.
- » The automatic hose reels are easy to install in every place such as wall, ceiling, vehicle etc. An optionally available wall bracket enables an easy mounting of the hose reel.

- » All models offer a traction release. A quick pull unmakes the locking device.
- » The hose reels are all equipped with a swivel ST-322. The swivels ST-322 are completely made out of stainless steel and have a ring as sealing element.
- » Due to the processed materials the hose reels are unhesitatingly suitable for the mediums water, water with cleaning detergent, oils, greases and air.
- » They are suitable for a working pressure of max. 300 bar and a temperature of max. 90 °C.

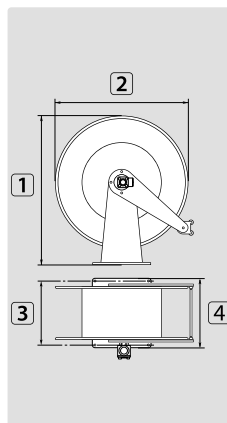


TYP	outer $\varnothing$ = hose $\leftrightarrow$
05	17.0 mm = 21 m
05	19.5 mm = 16 m
05	22.0 mm = 14 m

R+M Nr.	C	★	⊕	⊖	DN	P	°C	⊘	1	2	3	4	TYP
764 434 30	yellow	●	1/2" F	1/2" F	10	300 bar	90 °C	14.0 kg	460 mm	420 mm	140 mm	186 mm	05
764 434 32	yellow	●	M22 M	plug coupling 11 mm	10	300 bar	90 °C	14.0 kg	460 mm	420 mm	140 mm	186 mm	05
764 434 34	yellow	●	M22 M	M22 M	10	300 bar	90 °C	14.0 kg	460 mm	420 mm	140 mm	186 mm	05

R+M Nr.	C	★	⊕	⊖	DN	P	°C	⊘	1	2	3	4	TYP
764 434 31	grey	●	1/2" F	1/2" F	10	300 bar	90 °C	14.0 kg	460 mm	420 mm	140 mm	186 mm	05
764 434 33	grey	●	M22 M	plug coupling 11 mm	10	300 bar	90 °C	14.0 kg	460 mm	420 mm	140 mm	186 mm	05
764 434 35	grey	●	M22 M	M22 M	10	300 bar	90 °C	14.0 kg	460 mm	420 mm	140 mm	186 mm	05

R+M Nr.	C	★	⊕	⊖	DN	P	°C	⊘	1	2	3	4	TYP
764 434 36	black	●	1/2" F	1/2" F	10	300 bar	90 °C	14.0 kg	460 mm	420 mm	140 mm	186 mm	05
764 434 37	black	●	M22 M	plug coupling 11 mm	10	300 bar	90 °C	14.0 kg	460 mm	420 mm	140 mm	186 mm	05
764 434 38	black	●	M22 M	M22 M	10	300 bar	90 °C	14.0 kg	460 mm	420 mm	140 mm	186 mm	05



TYP	outer $\varnothing$ = hose $\leftrightarrow$
02	18.5 mm = 28 m
02	20.0 mm = 26 m
02	22.0 mm = 24 m

R+M Nr.	C	★	⊕	⊖	DN	P	°C	⊘	1	2	3	4	TYP
763 532 30	grey	▲	1/2" F	1/2" F	12	300 bar	90 °C	19.0 kg	560 mm	510 mm	153 mm	203 mm	02

Symbols ★ marking ⊕ inlet ⊖ outlet DN nominal diameter P pressure ⊘ weight TYP type °C temperature  $\leftrightarrow$  length C colour

## Automatic hose reels

Due to the high quality construction of the automatic spring-driven high pressure hose reels they are suitable for applications in service stations, garages, in the agriculture and in the building industry etc.

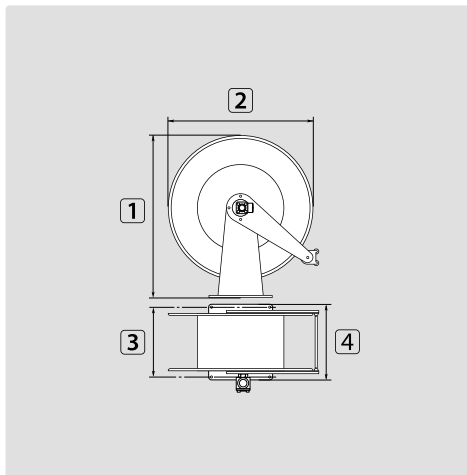
- » The automatic hose reels are easy to install in every place such as wall, ceiling, vehicle etc. An optionally available wall bracket enables an easy mounting of the hose reel.
- » All models offer a traction release. A quick pull unmakes the locking device.
- » The hose reels are all equipped with a swivel ST-322. The swivels ST-322 are completely made out of stainless steel and have a ring as sealing element.
- » Due to the processed materials the hose reels are unhesitatingly suitable for the mediums water, water with cleaning detergent,

oils, greases and air.

- » Fixed as well as swivelling brackets are available for all models. Both brackets and hose reels are made out of stainless steel V2A / AISI 304.
- » According to directive 94/9/EG (Atex 95/100) the hose reels are suitable for applications in mining and explosion-proof areas.
- » They can be used in explosive zones 1 + 2 (gas) and 21 + 22 (dust). The temperature has to be defined accordingly.



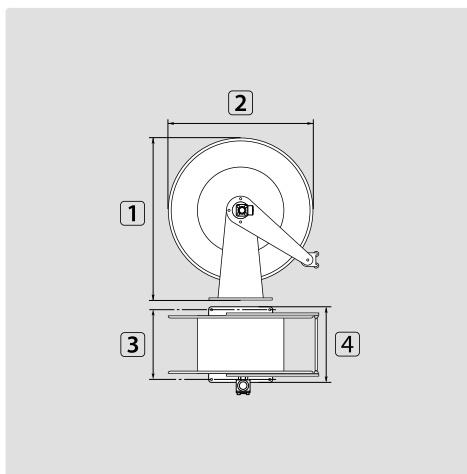
### R+M 434



TYP	outer $\varnothing$ = hose $\leftrightarrow$
01	17.0 mm = 21 m
01	19.5 mm = 16 m
01	22.0 mm = 14 m

R+M Nr.	★	Ⓒ	Ⓔ	DN	P	°C	Ⓔ	1	2	3	4	TYP
763 434 30	●	1/2" F	1/2" F	12	300 bar	90 °C	14.0 kg	460 mm	420 mm	140 mm	186 mm	01
763 434 31	●	M22 M	plug coupling 11 mm	10	300 bar	90 °C	14.0 kg	460 mm	420 mm	140 mm	186 mm	01
763 434 32	●	M22 M	M22 M	10	300 bar	90 °C	14.0 kg	460 mm	420 mm	140 mm	186 mm	01

### R+M 534

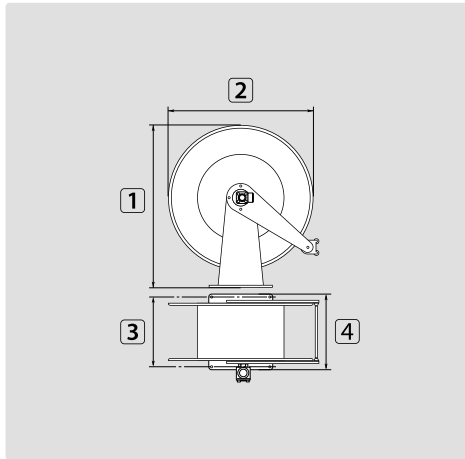
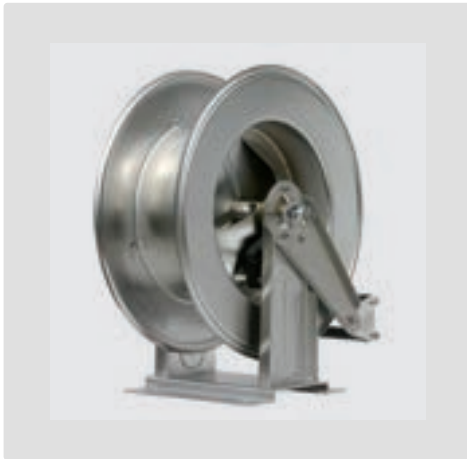


TYP	outer $\varnothing$ = hose $\leftrightarrow$
02	18.5 mm = 28 m
02	20.0 mm = 26 m
02	22.0 mm = 24 m

R+M Nr.	★	Ⓒ	Ⓔ	DN	P	°C	Ⓔ	1	2	3	4	TYP
763 534 30	▲	1/2" F	1/2" F	12	300 bar	90 °C	19.0 kg	560 mm	510 mm	153 mm	203 mm	02
763 534 31	▲	M22 M	plug coupling 11 mm	10	300 bar	90 °C	19.0 kg	560 mm	510 mm	153 mm	203 mm	02

## Automatic hose reels

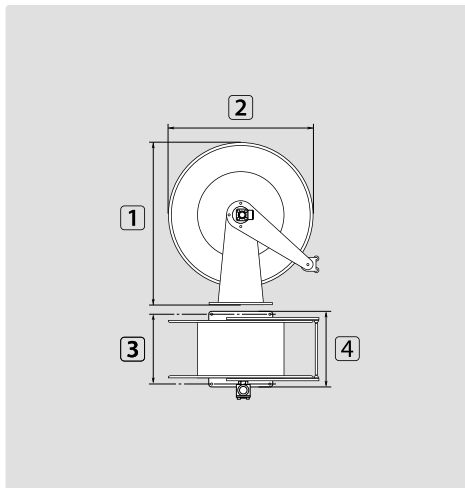
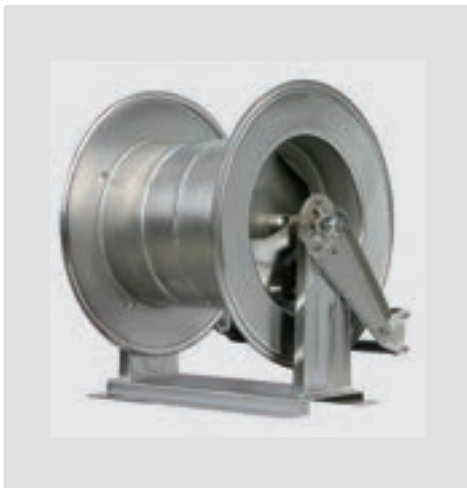
## R+M 544



TYP	outer $\varnothing$ = hose $\leftrightarrow$
03	22.0 mm = 30 m
03	28.0 mm = 22 m
03	34.0 mm = 17 m

R+M Nr.	★	Ⓒ	Ⓔ	DN	P	°C	Ⓢ	1	2	3	4	TYP
763 544 30	■	1/2" F	1/2" F	12	300 bar	90 °C	24.0 kg	573 mm	510 mm	218 mm	300 mm	03
763 544 20	■	1" F	1" F	19	100 bar	90 °C	24.0 kg	573 mm	510 mm	218 mm	300 mm	03

## R+M 564



TYP	outer $\varnothing$ = hose $\leftrightarrow$
04	22.0 mm = 60 m
04	30.0 mm = 40 m
04	35.0 mm = 30 m

R+M Nr.	★	Ⓒ	Ⓔ	DN	P	°C	Ⓢ	1	2	3	4	TYP
763 564 30	▼	1/2" F	1/2" F	10	300 bar	90 °C	30.0 kg	578 mm	510 mm	399 mm	488 mm	04

Symbols ★ marking Ⓒ inlet Ⓔ outlet DN nominal diameter P pressure  $\leftrightarrow$  length Ⓢ weight TYP type °C temperature 1 height

## Accessories for hose reels

### Wall swivel brackets



Stainless steel V2A / AISI 304. 80° swivel

R+M Nr.	★
763 430 06	●
763 530 06	▲
763 540 06	■

### Wall brackets



Stainless steel. Optionally as fit-up aid

R+M Nr.	★
763 430 02	●
763 530 02	▲
763 540 02	■
763 560 02	▼

### Swivels ST-322



☑ M28 M. DN 12. Max. 300 bar / 90 °C



Repair kit swivel ST-322

R+M Nr.
200 322 490

R+M Nr.	i	☑
200 322 523	79.5 mm	1/2" F
200 322 525	79.5 mm	3/8" F

### Centrifugal brake mechanism



For Model R+M 434, R+M 532, R+M 534, R+M 544 and R+M 564

R+M Nr.
763 430 020

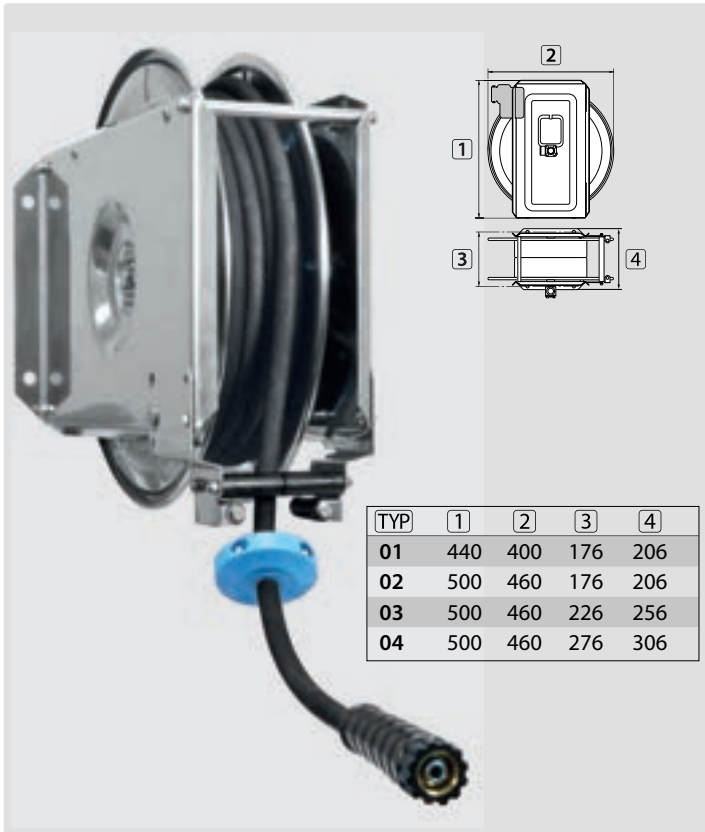
### Automatic inlet window



For Model R+M 434, R+M 532, R+M 534, R+M 544 and R+M 564

R+M Nr.	TYP
763 443 12	R+M 434
763 453 12	R+M 532, R+M 534
763 454 12	R+M 544
763 456 12	R+M 564

Automatic hose reel, mounted with pre-assembled HP-hoses



Hose reel: Stainless steel V2A / AISI 304. There are 8 positions per rotation to stop the hose. A quick pull unmakes the locking device. Suttner swivel ST-322 made out of stainless steel.

Max. 90 °C



TYP 01 with HP-hose: 1 SN. DN 10. 10 metres.

Wrapped, black cover

R+M Nr.	P	G	☺	★
740 140 01	210 bar	3/8" F	M22 F	●

TYP 02 with HP-hose: 2 SC. DN 8. 20 metres.

Wrapped, black cover

R+M Nr.	P	G	☺	★
740 202 201	400 bar	M22 M	M22 F stainless steel	●

TYP 03 with HP-hose: 1 SN. DN 8. 30 metres.

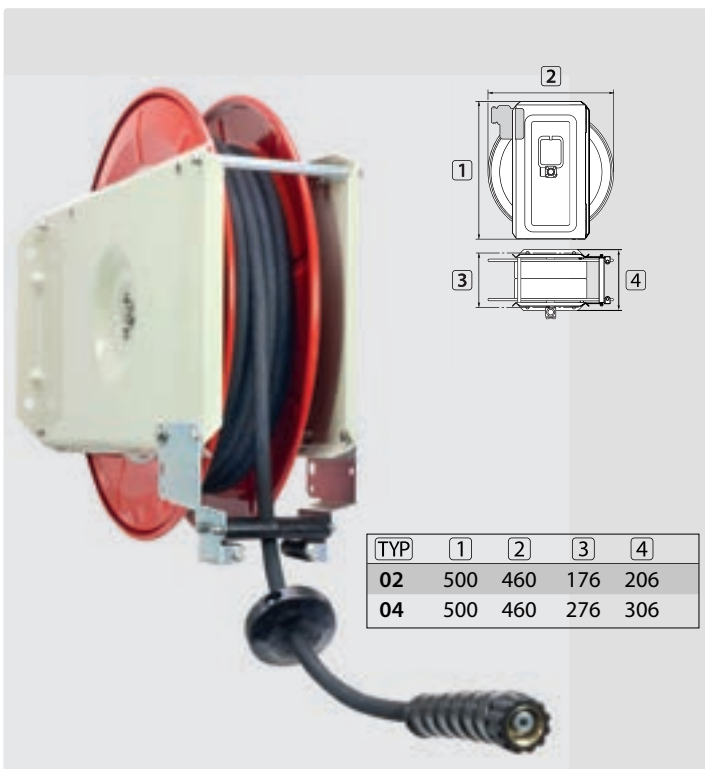
Smooth, black cover, outlet stainless steel

R+M Nr.	P	G	☺	★
740 302 222	250 bar	M22 M	M22 F stainless steel	■

TYP 04 with HP-hose: 2 SC. DN 8. 40 metres.

Wrapped, black cover, outlet stainless steel

R+M Nr.	P	G	☺	★
740 402 201	400 bar	M22 M	M22 F stainless steel	■



Hose reel: Powder-coated steel.

There are 8 positions per rotation to stop the hose. A quick pull unmakes the locking device. Suttner swivel ST-322 made out of stainless steel.

Max. 90 °C



TYP 02 with HP-hose: 2 SC. DN 8. 20 metres.

Wrapped, black cover

R+M Nr.	P	G	☺	★
750 202 201	400 bar	M22 M	M22 F stainless steel	●

TYP 04 with HP-hose: 2 SC. DN 8. 40 metres.

Wrapped, black cover

R+M Nr.	P	G	☺	★
750 402 201	400 bar	M22 M	M22 F stainless steel	■

TYP 04 with HP-hose: 2 SC. DN 8. 30 metres.

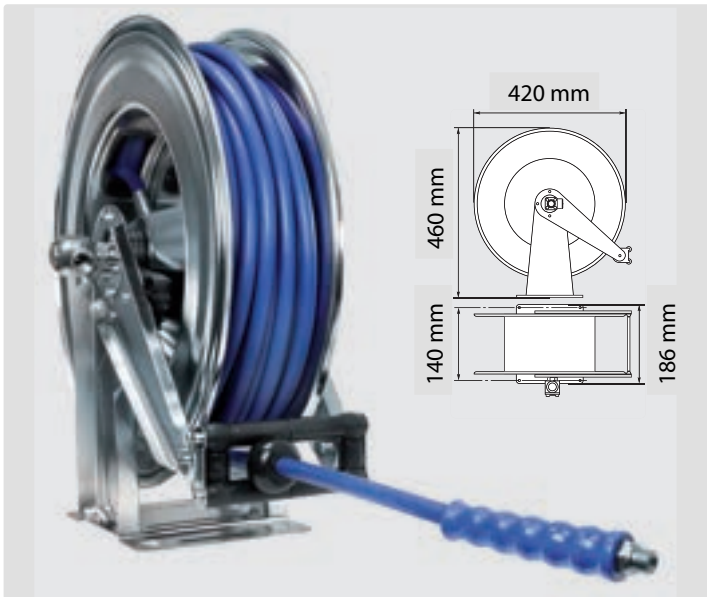
Wrapped, black cover

R+M Nr.	P	G	☺	★
750 402 202	400 bar	M22 M	M22 F stainless steel	■

Symbols ★ marking G inlet ☺ outlet P pressure TYP type 🚛 shipment by truck



## Automatic hose reel, mounted with pre-assembled HP-hoses

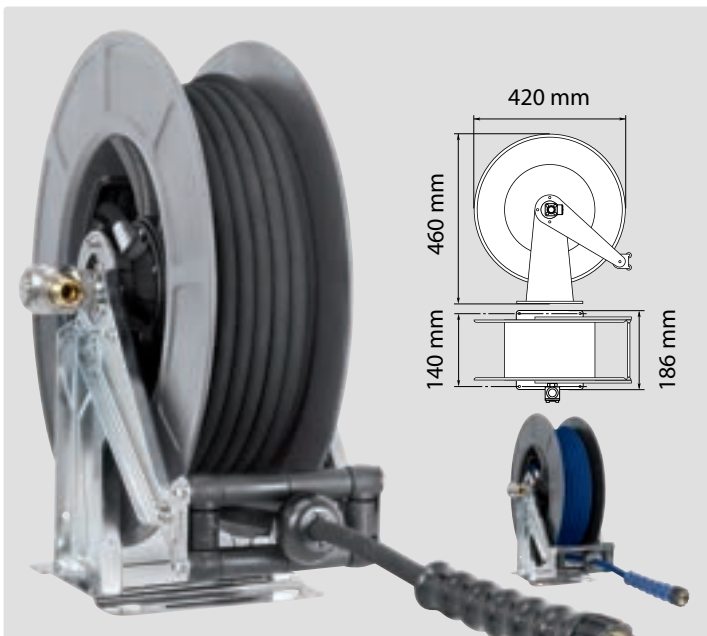


**Hose reel:** Stainless steel V2A / AISI 304. With automatic spring-drive and traction release. Suttner swivel ST-322 made out of stainless steel. Max. 90 °C



**with HP-hose:** 2 SN. DN 8. 20 metres. Smooth, blue cover. Outlet stainless steel

<b>R+M Nr.</b>	P	C	↺	★
763 434 001	300 bar	1/2" F	3/8" M stainless steel	●



**Hose reel:** Base frame stainless steel V2A / AISI 304. Reel made out of especially impact-resistant ABS plastic with automatic spring-drive and traction release. Suttner swivel ST-322 made out of stainless steel. Max. 90 °C



**Reel with HP-hose:** 2 SC. DN 8. 20 metres. Wrapped, blue cover

<b>R+M Nr.</b>	P	C	↺	reel	★
764 434 503	300 bar	M22 M	M22 F	black	●

**Reel with HP-hose:** 2 SC. DN 8. 20 metres. Wrapped, black cover

<b>R+M Nr.</b>	P	C	↺	reel	★
764 434 311	300 bar	M22 M	M22 F	grey	●

**Reel with HP-hose:** 2 SC. DN 8. 20 metres. Wrapped, black cover

<b>R+M Nr.</b>	P	C	↺	reel	★
764 434 500	300 bar	M22 M	M22 F	black	●

**Reel with HP-hose:** 1 SN. DN 8. 20 metres. Wrapped, black cover

<b>R+M Nr.</b>	P	C	↺	reel	★
764 434 502	210 bar	M22 M	M22 F	black	●



### R+M service

In case of an order for hose reels and hose please be informed that we are willingly prepared to directly mount the assembled hose on your desired hose reel.  
 For this purpose you only have to state the **R+M Nr. 740 00** on your order.  
 It's definitely worth booking this service!  
 Should you require more information about our offer, do not hesitate to contact us at any time!  
 We are looking forward to receiving your order.

**R+M Nr.**  
740 00



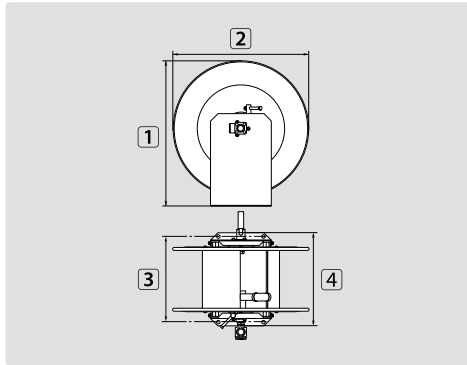
High pressure hose reels

STKI

The STKI series suitable for applications in craft and industry:

- » The base frame is made out of canted steel sheet profiles which stand for excellent stability.
- » The drum rotates by means of an adjustable handwheel being equipped with a free-wheel polyamide grip.
- » By means of a mechanical brake integrated in the bearing the drum can be slowly decelerated or even totally blocked.

- » Suitable for the mediums water or water with cleaning detergent, air, oils and greases.
- » The hose reels are all equipped with a swivel ST-322. The swivels ST-322 are completely made out of stainless steel and have a slide ring as sealing element.



TYP	outer Ø = hose
01	22.0 mm = 35 m
02	22.0 mm = 70 m
03	22.0 mm = 100 m
04	22.0 mm = 115 m
05	28.0 mm = 20 m
06	28.0 mm = 40 m
07	28.0 mm = 60 m
08	28.0 mm = 70 m
09	28.0 mm = 80 m
10	35.0 mm = 61 m

Stainless steel V2A / AISI 304

R+M Nr.	⊕	⊖	DN	P	°C	⊞	1	2	3	4	TYP
739 50	1/2" F	1/2" F	10	300 bar	90 °C	10.5 kg	515 mm	465 mm	280 mm	312 mm	01
739 60	1/2" F	1/2" F	10	300 bar	90 °C	13.5 kg	515 mm	465 mm	480 mm	512 mm	02
739 65	1/2" F	1/2" F	10	300 bar	90 °C	15.7 kg	515 mm	465 mm	680 mm	712 mm	03
739 701 2	1/2" F	1/2" F	10	300 bar	90 °C	16.8 kg	515 mm	465 mm	780 mm	812 mm	04
739 501 9	3/4" F	3/4" F	19	200 bar	90 °C	11.7 kg	515 mm	465 mm	280 mm	312 mm	05
739 601 9	3/4" F	3/4" F	19	200 bar	90 °C	14.7 kg	515 mm	465 mm	480 mm	512 mm	06
739 651 9	3/4" F	3/4" F	19	200 bar	90 °C	16.9 kg	515 mm	465 mm	680 mm	712 mm	07
739 70	3/4" F	3/4" F	19	200 bar	90 °C	18.0 kg	515 mm	465 mm	780 mm	812 mm	08
739 801 9	3/4" F	3/4" F	19	200 bar	90 °C	19.1 kg	515 mm	465 mm	880 mm	912 mm	09
739 702 4	1" F	1" F	24	100 bar	90 °C	18.3 kg	515 mm	465 mm	780 mm	812 mm	10

Accessories for hose reels

Elbow swivels



3/8" F : 3/8" M. DN 10.  
Max. 400 bar / 90 °C

R+M Nr.	⊓
200 322 500	65 mm



1/2" F : 3/8" M. DN 10.  
Max. 300 bar / 90 °C

R+M Nr.	⊓
200 322 510	65 mm



1/2" F : 1/2" M. DN 12.  
Max. 300 bar / 90 °C

R+M Nr.	⊓
200 322 520	67 mm



1/2" F : 1/2" M. DN 12.  
Max. 300 bar / 90 °C

R+M Nr.	⊓
200 322 522	68 mm

ST / SoST



Swivel 200 bar



Repair kit swivel 750 400 1

R+M Nr.	⊙
750 400 1	3/4"

R+M Nr.	TYP
750 400 2	3/4"

Symbols ⊕ inlet ⊖ outlet DN nominal diameter P pressure ⊓ height ⊔ length ⊞ weight ⊙ thread TYP type shipment by truck

## Accessories for hose reels

### Hose reel trolley

- » Stainless steel - trolley for mounting hose reels
- » Manoeuvrable and easy to handle such as a sack truck
- » Ergonomic plastic handle strip which is easily unscrewable for the food industry
- » One lance holder on each side, diameter: 37 mm
- » Suitable for the hose reels ST-71 (200 071 705), STKI 20 and STKI 40 (739 50, 739 601 9, 739 60, 739 501 9, 739 601 9)



Trolley with two big wheels. Ø 260 mm.  
H x W x D: 1,210 x 715 x 560 mm

R+M Nr.	
712 000 078	9.0 kg



Trolley with two grey and non-fading wheels.  
H x W x D: 1,175 x 700 x 650 mm

R+M Nr.	
712 000 070	7.9 kg

- » **Extension plate made of stainless steel**
- » Easy installation for 712 000 070
- » Including fastening material
- » 4 vibration dampers made of stainless steel and elastic natural rubber 55°. Rubber buffer type A. M10 x 28. Spring stiffness: 500 N / mm. Load: 2,000 N
- » For large hose reels: 739 65; 739 651 9 and 739 602 0

### Extension plate, optional



R+M Nr.	
105 000 103	

### Canister holder

- » Material: made out of stainless steel
- » Optimal sizes:
  - type 1: suitable for 5, 10 or 12 liter canister
  - type 2: suitable for 20 or 25 liter canister
- » Mounting holes 8.5 mm
- » One-piece item
- » High loading capacity by solid quality
- » Open base for placing the canister, thus ensuring an unhindered discharge of spilled liquids
- » Strength of material: 1.5 mm



R+M Nr.	H x W x D	
105 000 001	160 x 250 x 210	1.2 kg
105 000 002	200 x 285 x 310	2.0 kg

### Trolley



- » Multifunctional trolley for foam and disinfection units
- » Stainless steel. Trolley with two grey and non-fading wheels.
- » Manoeuvrable and easy to handle such as a sack truck
- » Open space for placing the canister, thus ensuring an unhindered discharge of spilled liquids
- » Ergonomic plastic handle strip which is easily unscrewable for the food industry
- » Two laterally attached lance holder
- » Sufficient space for 2 container with chemicals comprising up to 25 kg each.
- » H x W x D 1,150 x 540 x 620 mm

R+M Nr.	
710 000 163 389	14.0 kg

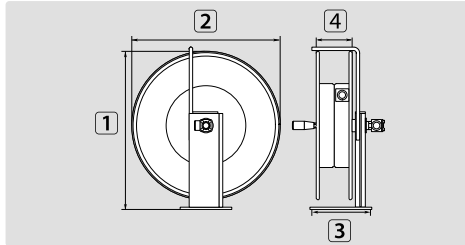
## High pressure hose reels

## STK

Series STK made out of deep-drawing metal sheet:

- » Fold-away handwheel
- » Adjustable braking and blocking device.
- » Steel shackle avoids rolling over of the hose.
- » Maintenance-free synthetic bearing sleeves.

- » The hose reels are all equipped with a swivel ST-322. The swivel ST-322 are completely made out of stainless steel and have a slide ring as sealing element.
- » Suitable for the mediums water or water with cleaning detergent, air, oils and greases.



TYP	outer $\varnothing$ = hose
01	15.0 mm = 24 m
02	15.0 mm = 36 m

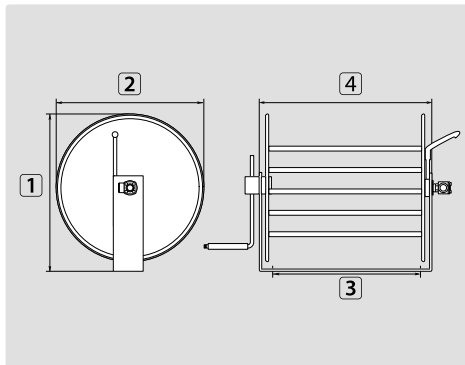
Powder-coated steel

R+M Nr.	$\odot$	$\ominus$	DN	P	$^{\circ}\text{C}$	$\delta$	1	2	3	4	TYP
760 20	3/8" F	3/8" F	10	400 bar	90 $^{\circ}\text{C}$	6.2 kg	437 mm	400 mm	210 mm	100 mm	01
760 30	3/8" F	3/8" F	10	400 bar	90 $^{\circ}\text{C}$	6.8 kg	500 mm	460 mm	210 mm	100 mm	02

## STKI mini

- » The drum rotates by means of an adjustable handwheel being equipped with a free-wheel polyamide grip.
- » By means of a mechanical brake integrated in the bearing the drum can be slowly decelerated or even totally blocked.
- » Suitable for the mediums water or water with cleaning detergent, air,

- oils and greases.
- » The hose reels are all equipped with a swivel ST-320. The swivels ST-320 are completely made out of stainless steel and have a slide ring as sealing element.



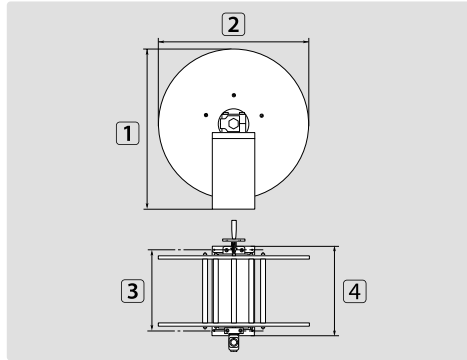
TYP	outer $\varnothing$ = hose
01	15,0 mm = 20 m

Stainless steel V2A / AISI 304

R+M Nr.	$\odot$	$\ominus$	DN	P	$^{\circ}\text{C}$	$\delta$	1	2	3	4	TYP
739 40	3/8" F	3/8" F	8	300 bar	90 $^{\circ}\text{C}$	5,0 kg	298 mm	265 mm	210 mm	258 mm	01

## High pressure hose reels ST-71

- » The base frame is made out of stainless steel V2A / AISI 304 and stands for highest stability.
- » Equipped with an especially wide orifice of 12 mm.
- » Suitable media: water or water with cleaning chemicals, air, oils and grease.
- » The drum hub consists of 5 sturdy stainless steel rods and runs in specially maintenance-free bearing sleeves.
- » The drum rotates by means of an adjustable handwheel being equipped with a free-wheel polyamide grip.
- » A mechanical brake makes it possible to lock in 6 positions.
- » This high pressure hose reel is equipped with the swivel ST-322.
- » The Suttner swivels ST-322 are completely made out of stainless steel and have a slide-ring sealing element.
- » Not suitable for being mounted at walls and ceiling.



TYP	outer ∅ = hose
01	22.0 mm = 40 m

Stainless steel V2A / AISI 304

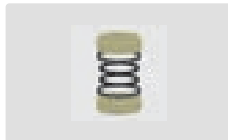
R+M Nr.	⊕	⊖	DN	P	°C	⊞	1	2	3	4	TYP
200 071 705	1/2" F	1/2" F	12	300 bar	90 °C	13 kg	460 mm	440 mm	240 mm	290 mm	01

## Accessories for ST-71

### Swivels ST-322



1/2" F : 1/2" M. DN 12.  
Max. 300 bar / 30 r.p.m.  
/ 90 °C



Repair kit swivel ST-322

R+M Nr.	⊞	R+M Nr.
200 322 520	67 mm	200 322 490

## ST-71 hose reels with sewer cleaning hose assembly

The ST-71 hose reel is equipped with a 15 m Flexy sewer cleaning hose DN 6. The frame of the reel is made out of stainless steel and the reel is made out of plastics.

The space-saving and orderly solution can either be hung up at the wall or refitted in high pressure cleaner.

The hose can be used as extension of high pressure hoses or as sewer cleaning hose.

Max. 300 bar / 90 °C

R+M Nr.	⊕	⊖
200 071 615	1/4" M	M22 M
200 071 620	1/8" M	M22 M
200 071 625	M22 F	M22 M
200 071 626	Quick screw coupling M22 F swivel	M22 M
200 071 630	plug ∅ 8.8	M22 M



Symbols ⊕ inlet ⊖ outlet DN nominal diameter P pressure ⊞ height ⇄ length ⊞ weight °C temperature TYP type ∅ diameter

## High pressure hose reels

- » High pressure hose reel: plastic.
- » Swivel: brass / stainless steel.
- » Holder: steel powder coated.
- » Max. 250 bar / 90 °C



R+M Nr.				for hose-	outer-
738 072 000	3,4 kg	3/8" M	3/8" M	20 m with	20 mm
738 074 00	3,8 kg	3/8" M	3/8" M	40 m with	20 mm

## Universal hose guide ST-71

- » Extremely robust and stable
- » Stainless steel construction
- » Hose guide rollers made of food-grade plastic, suitable for use in food processing plants
- » Suitable for hoses with an outside diameter up to 38 mm
- » Simple attachment with 2 holes  $\varnothing$  8 mm
- » Material thickness of the bracket: 4 mm



R+M Nr.
710 071 500

Symbols inlet outlet length weight diameter





Accessories for sprayer and foamer .....	444-445	Hurricane Mosmatic .....	449
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CARWASH COMFORT - you are invited to experience our blue hose wonder in DN 8! .....	435	Mosmatic car wash ceiling booms .....	456
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**easywash365+ spray guns by Suttner**

New freeze stop valves in **easywash365+** spray guns and freeze stop spray guns  
 The valves are made entirely of non-rusting materials.  
 Contrary to all commercially available freeze stop valves, the actual internal

valve body is made of a very wear-resistant, partially crystalline thermoplastic.  
 This difference significantly increases the robustness, reliability as well as preciseness in switching.

**easywash365+ standard**



**LTF**

Professional gun. Standard.  
 Max. 310 bar / 45 l/min / 150 °C

<b>R+M Nr.</b>		
202 600 518	1/4" F	3/8" F swivel

**easywash365+ weep**



**LTF**

Professional gun. Weep version.  
 Max. 310 bar / 45 l/min / 150 °C

<b>R+M Nr.</b>		
202 600 528	1/4" F	3/8" F swivel

**easywash365+ freeze stop**



**LTF**

Professional gun. Freeze stop version.  
 Max. 310 bar / 45 l/min / 150 °C

<b>R+M Nr.</b>		
202 600 538	1/4" F	3/8" F swivel

**easywash365+ standard**



**LTF**

Professional gun with lance swivel ST-345.  
 Standard.  
 Max. 310 bar / 45 l/min / 150 °C

<b>R+M Nr.</b>		
202 600 802	1/4" F	3/8" F swivel

**easywash365+ weep**



**LTF**

Professional gun with lance swivel ST-345.  
 Weep version.  
 Max. 310 bar / 45 l/min / 150 °C

<b>R+M Nr.</b>		
202 600 803	1/4" F	3/8" F swivel

**easywash365+ freeze stop**



**LTF**

Professional gun with lance swivel ST-345.  
 Freeze stop version.  
 Max. 310 bar / 45 l/min / 150 °C

<b>R+M Nr.</b>		
202 600 804	1/4" F	3/8" F swivel

**Valves complete - easywash365+**



Standard

<b>R+M Nr.</b>
202 300 490



Weep

<b>R+M Nr.</b>
202 300 491



Freeze stop

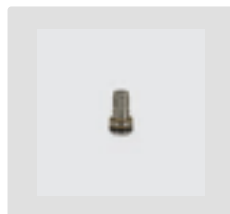
<b>R+M Nr.</b>
202 300 457

**ST-301 swivels**



1/4" F : 3/8" F. ST-2300

<b>R+M Nr.</b>
200 301 050



Repair kit ST-301

<b>R+M Nr.</b>
200 300 100

## easywash365+ spray guns with ball-bearing swivel by Suttner

- » High-quality, integrated maintenance-free swivel joint, corrosion-resistant and very smooth-running.
- » Extra-long service life of connected hoses guaranteed by the swivel protecting the hoses from twisting.
- » Convenient 360° handling in any cleaning application.
- » Max. 310 bar / 45 l/min / 150 °C.
- » Gun inlet: 3/8" F, swivelling, gun outlet: 1/4" F.
- » All guns with integrated ball-bearing swivel also feature the proven Low Trigger Force technology and are available with weep and freeze stop option or as standard version.



### easywash365+ standard



Professional gun.  
Standard.  
With integrated ball bearing swivel.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☻
202 600 514	1/4" F	3/8" F swivel

### easywash365+ weep



Professional gun.  
Weep version.  
With integrated ball bearing swivel.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☻
202 600 524	1/4" F	3/8" F swivel

### easywash365+ freeze stop



Professional gun.  
Freeze stop version.  
With integrated ball bearing swivel.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.	☺	☻
202 600 534	1/4" F	3/8" F swivel

**LTF - Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.

### Valves complete - easywash365+



Standard

R+M Nr.
202 300 490



Weep

R+M Nr.
202 300 491



Freeze stop

R+M Nr.
202 300 457

### easywash365+ - ball bearing swivel ST-303



1/4" F : 3/8" F.  
Stainless steel / nickel-plated brass

R+M Nr.
200 303 050

**LTF : Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.

Symbols ☺ outlet ☻ inlet

**What is the difference between the versions freeze stop and weep?**



The picture illustrates the different effects regarding diverse winter safety methods of high pressure spray devices. The physical effect that liquids in motion tend to freeze to a lesser extent forms the basis of both versions. Therefore, both the weep as well as the freeze stop version let water pass through the valve (in case of different pressures and under the circumstances) even if the spray gun is closed in order to keep the water which is in piping, hose and spray device in motion.

The weep high pressure spray guns let a reduced water quantity pass through even if the trigger of the gun is not pulled as there is a notch in the seal seat of the valve. This is ensured in high pressure when the high pressure pump is in operation as well as in low pressure in case of water pipe pressure.



The so called freeze stop spray guns are equipped with a valve in valve technology. The operating valve which is driven by the spray gun trigger includes the real automatically operating freeze stop piston. For cleaning applications the spray gun is opened and closed as usual by the operating valve. The integrated freeze stop valve only comes into operation when there is low pressure (water pipe pressure). It is opened in a spring driven way if the pressure is lower than 5 bar. If the pressure increases e.g. by switching on the high pressure pump the freeze stop valve closes automatically. This improves the comfort of washing as there is no water coming out of the gun when taking it out of the lance holder.

**High pressure spray guns for self-service car wash**

ST-2300 freeze stop



Professional gun. Freeze stop version.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 300 582	1/4" F	3/8" F swivel

ST-2300 weep



Professional gun. Weep version.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 300 580	1/4" F	3/8" F

ST-2300 weep



Professional gun. Weep version.  
Max. 310 bar / 45 l/min / 150 °C

R+M Nr.		
202 300 581	1/4" F	3/8" F swivel

Valve complete ST-2300



Standard

R+M Nr.
202 300 490



Weep

R+M Nr.
202 300 491



Freeze stop

R+M Nr.
202 300 457

ST-301 swivels



1/4" F : 3/8" F. ST-2300

R+M Nr.
200 301 050

Seal kits



Repair kit ST-301

R+M Nr.
200 300 100



ST-1100

R+M No.
201 100 401
201 100 403*

\* Year of manufacture from 2016

ST-1100 weep



Professional gun. Weep version.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 535	1/4" F	3/8" F

ST-1100 weep



Professional gun. Weep version.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 530	1/4" F	3/8" F swivel

ST-1100 without trigger



Professional gun without valve.  
Max. 210 bar / 25 l/min / 150 °C

R+M Nr.		
201 100 570	1/4" F	3/8" F swivel

## High pressure spray guns for self-service car wash

ST-1500 freeze stop



Professional gun. Freeze stop version.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 580	1/4" F	3/8" F

ST-1500 freeze stop



Professional gun. Freeze stop version.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 581	1/4" F	3/8" F swivel

ST-1500 weep



Professional gun. Weep version.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 620	1/4" F	3/8" F

ST-1500 without trigger



Professional gun without valve.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
201 500 750	1/4" F	3/8" F

ST-601 linear standard



Standard.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
200 601 600	1/4" F	3/8" F

ST-601 linear freeze stop



Freeze stop version.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
200 601 601	1/4" F	3/8" F

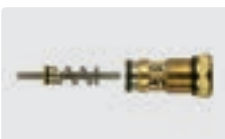
ST-601 linear weep



Weep version.  
Max. 275 bar / 45 l/min / 150 °C

R+M Nr.		
200 601 602	1/4" F	3/8" F

Valves complete



ST-601

R+M Nr.
202 000 044



ST-1500. Freeze stop

R+M Nr.
202 000 101

Valve



ST-1500. Weep

R+M Nr.
202 000 045

ST-300 swivels



1/4" F : 3/8" F. ST-1500

R+M Nr.
200 300 050



Repair kit ST-300

R+M Nr.
200 300 100

Symbols outlet inlet

**easywash365+ handles by Suttner**



Stainless steel. Handle 20° bended.  
Max. 350 bar / 150 °C

<b>R+M Nr.</b>		
200 009 650	1/4" F	1/4" M



Stainless steel. Handle 20° bended.  
**easywash365+ blue.** Max. 350 bar / 150 °C

<b>R+M Nr.</b>		
200 009 655	1/4" F	1/4" M



Stainless steel. Handle 20° bended.  
Max. 350 bar / 150 °C

<b>R+M Nr.</b>		
200 009 665	1/4" F	1/4" M



Stainless steel. Handle 20° bended.  
Max. 350 bar / 150 °C

<b>R+M Nr.</b>		
200 009 657	1/4" F	M18 M (CEL)



Stainless steel. Handle 20° bended.  
Max. 350 bar / 150 °C

<b>R+M Nr.</b>		
200 009 659	M18 F (DKOL)	M18 M (CEL)



Stainless steel. Retrofit kit. M18 F (DKOL) : 1/4" M

<b>R+M Nr.</b>		
200 009 480		

**easywash365+ lance swivels ST-345 by Suttner**

The **easywash365+** lance swivel guarantees improved ergonomics in the professional car wash and in the cleaning industry. The lance swivel is mounted between the brush lance or spray lance and the high pressure gun or the brush grip.



1/4" F : 1/4" M. 350 bar. Stainless.  
RAL 5005

<b>R+M Nr.</b>
200 345 520



1/4" F : 1/4" M. 350 bar. Stainless

<b>R+M Nr.</b>
200 345 530



1/4" F : 1/4" M. 350 bar. Stainless

<b>R+M Nr.</b>
200 345 500



1/4" F : 1/4" M. 350 bar. Stainless.  
**easywash365+ blue**

<b>R+M Nr.</b>
200 345 510

Symbols inlet outlet length ISO insulation



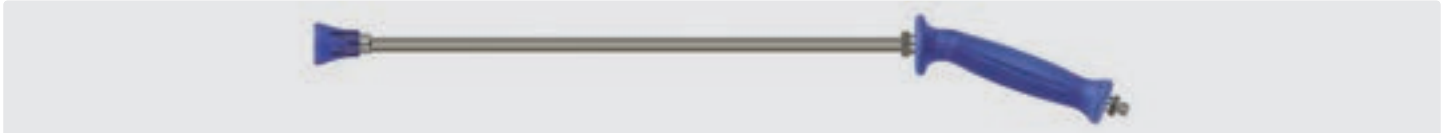
## Lance Mosmatic



Stainless steel. Lance with filter sieve, hard plastic handle and nozzle protector without nozzle. Max. 275 bar / 45 l/min / 120 °C

R+M Nr.	ISO	⊗	⊞	Ⓢ
108 280 05		1/8" F NPT	750 mm	1/4" M

## easywash365+ lances by Suttner



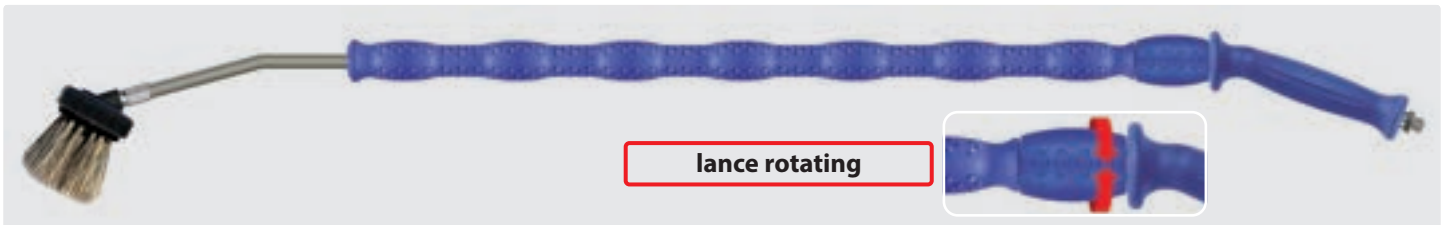
Stainless steel. Lance with **easywash365+** handle and nozzle protector ST-10 without nozzle. Max. 350 bar / 45 l/min / 150 °C

R+M Nr.	ISO	⊗	⊞	Ⓢ
515 65		1/4" F NPT	500 mm	1/4" M



Lance with moulded handle Cool & Compact, **easywash365+** handle, air injector and wash brush (bristles 60 mm). Max. 50 °C

R+M Nr.	ISO	⊗	⊞	Ⓢ
200 009 670	700 mm	wash brush	900 mm	1/4" M
200 009 675	700 mm	wash brush	1,200 mm	1/4" M



Lance with moulded handle Cool & Compact, **easywash365+** handle, **easywash365+** lance swivel, air injector and wash brush (bristles 60 mm). Max. 50 °C

R+M Nr.	ISO	⊗	⊞	Ⓢ
200 009 673	700 mm	wash brush	900 mm	1/4" M
200 009 678	700 mm	wash brush	1,200 mm	1/4" M

## Self-service lances



Self-service lances with brush longitudinal. Brush with nozzle protector for nozzle 1/8" M. Without high pressure nozzle

R+M Nr.	Ⓢ
523 960	1/8" M
523 961	1/4" M
523 962	M22 F long nipple
523 963	M22 M



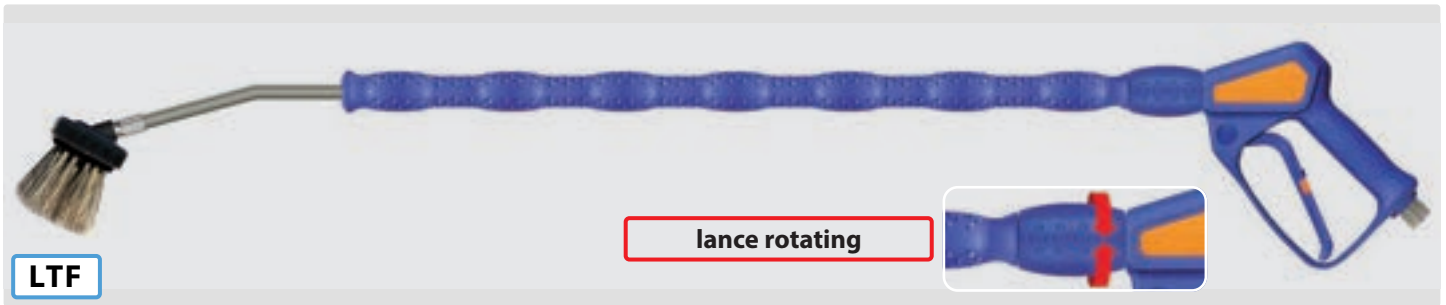
Original Vorwerk. Brush hog hair. A= 260. B= 230 x 80 mm.

R+M Nr.	C
523 72	60 mm

A = appr. width B = frame for brush C = appr. length of bristles



## easywash365+ lances by Suttner



LTF

Lance with moulded handle Cool & Compact, **easywash365+** spray gun, **easywash365+** lance swivel, air injector and wash brush (bristles 60 mm). Max. 50 °C

R+M Nr.	spray gun	ISO	☉	↔	☉
202 600 957	standard	700 mm	wash brush	900 mm	3/8" F swivel
202 600 972	weep	700 mm	wash brush	900 mm	3/8" F swivel
202 600 987	freeze stop	700 mm	wash brush	900 mm	3/8" F swivel
202 600 962	standard	700 mm	wash brush	1,200 mm	3/8" F swivel
202 600 977	weep	700 mm	wash brush	1,200 mm	3/8" F swivel
202 600 993	freeze stop	700 mm	wash brush	1,200 mm	3/8" F swivel



LTF

Lance with moulded handle Cool & Compact, **easywash365+** spray gun, air injector and wash brush (bristles 60 mm). Max. 50 °C

R+M Nr.	spray gun	ISO	☉	↔	☉
202 600 955	standard	700 mm	wash brush	900 mm	3/8" F swivel
202 600 970	weep	700 mm	wash brush	900 mm	3/8" F swivel
202 600 985	freeze stop	700 mm	wash brush	900 mm	3/8" F swivel
202 600 960	standard	700 mm	wash brush	1,200 mm	3/8" F swivel
202 600 975	weep	700 mm	wash brush	1,200 mm	3/8" F swivel
202 600 990	freeze stop	700 mm	wash brush	1,200 mm	3/8" F swivel

**LTF - Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.



LTF

Lance with moulded handle Cool & Compact, **easywash365+** spray gun and nozzle protector ST-10 without nozzle. Max. 310 bar / 150 °C

R+M Nr.	spray gun	ISO	☉	↔	☉
202 600 950	standard	300 mm	1/4" F NPT	600 mm	3/8" F swivel
202 600 966	weep	700 mm	1/4" F NPT	900 mm	3/8" F swivel
202 600 965	weep	300 mm	1/4" F NPT	600 mm	3/8" F swivel
202 600 980	freeze stop	300 mm	1/4" F NPT	600 mm	3/8" F swivel

Symbols ☉ inlet ☉ outlet ↔ length ISO insulation D nozzle

**turbofoam365+ lances by Suttner**

easywash365+ spray gun, lance and brush with turbofoam365+ air injector by Suttner

- » Especially soft cleaning with very soft hog bristles with forked ends
- » Cool & Compact insulation for a comfortable use
- » Ergonomic handling by means of the well-tried easywash365+ spray gun with LTF-technology
- » Available in 2 length: 900 and 1,200 mm
- » Brush with injector is also available as retrofit kit
- » easywash365+ spray gun is obtainable as standard, weep or freeze stop version
- » Lance swivel ST-345 is optionally available
- » Not suitable for powder chemicals



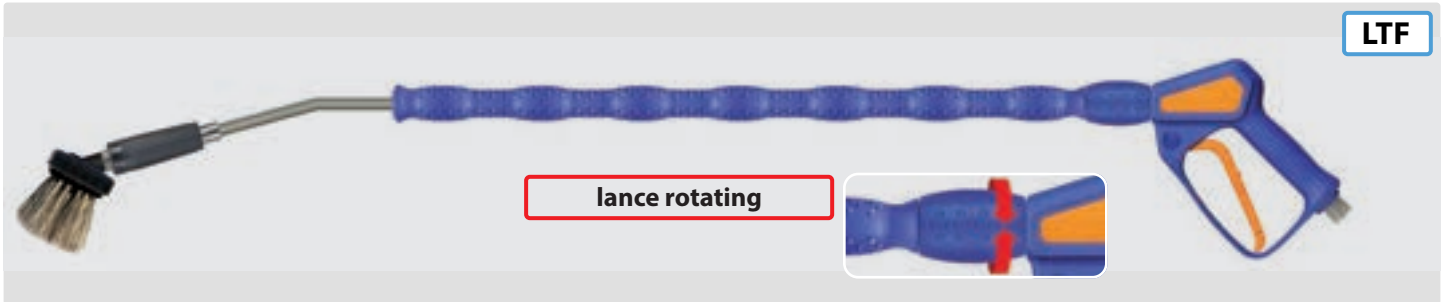
Retrofit kit for lances. Air injector turbofoam365+ and brush with cover plate. 20-150 bar. Max. 50 °C

Bristles 60 mm

R+M Nr.	Ⓒ	D
500 023 101	1/4" F	1.20
500 023 102	1/4" F	1.35
500 023 105	1/4" F	1.60

Bristles 90 mm

R+M Nr.	Ⓒ	D
500 023 201	1/4" F	1.20
500 023 202	1/4" F	1.35
500 023 205	1/4" F	1.60



**LTF**

Lance with moulded insulation Cool & Compact, easywash365+ spray gun, easywash365+ lance swivel, air injector turbofoam365+ and brush (bristles 60 mm). 20-150 bar. Max. 50 °C

R+M Nr.	spray gun	D	ISO	Ⓒ	↔	Ⓒ
502 600 100 05	standard	1.6	700 mm	brush	900 mm	3/8" F swivel
502 610 100 05	weep	1.6	700 mm	brush	900 mm	3/8" F swivel
502 620 100 05	freeze stop	1.6	700 mm	brush	900 mm	3/8" F swivel
502 601 100 05	standard	1.6	700 mm	brush	1,200 mm	3/8" F swivel
502 611 100 05	weep	1.6	700 mm	brush	1,200 mm	3/8" F swivel
502 621 100 05	freeze stop	1.6	700 mm	brush	1,200 mm	3/8" F swivel

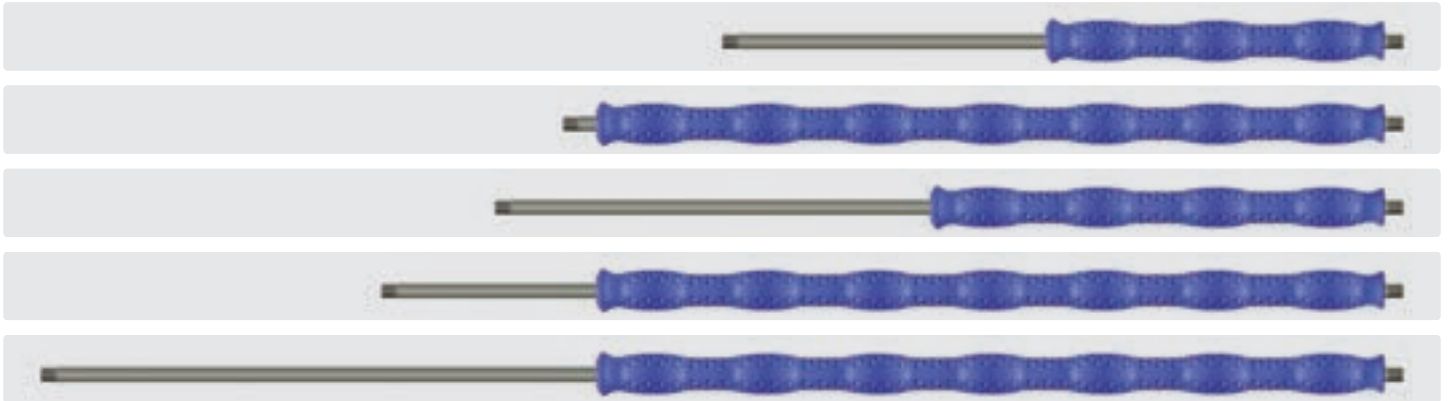


**LTF**

Lance with moulded insulation Cool & Compact, easywash365+ spray gun, air injector turbofoam365+ and brush (bristles 60 mm). 20-150 bar. Max. 50 °C

R+M Nr.	spray gun	D	ISO	Ⓒ	↔	Ⓒ
502 600 000 05	standard	1.6	700 mm	brush	900 mm	3/8" F swivel
502 610 000 05	weep	1.6	700 mm	brush	900 mm	3/8" F swivel
502 620 000 05	freeze stop	1.6	700 mm	brush	900 mm	3/8" F swivel
502 601 000 05	standard	1.6	700 mm	brush	1,200 mm	3/8" F swivel
502 611 000 05	weep	1.6	700 mm	brush	1,200 mm	3/8" F swivel
502 621 000 05	freeze stop	1.6	700 mm	brush	1,200 mm	3/8" F swivel

**easywash365+ lances by Suttner**



Stainless steel. Lance with moulded handle Cool & Compact. Max. 400 bar / 150 °C

R+M Nr.	ISO	⊖	↔	⊕
200 129 306	300 mm	1/4" M	600 mm	1/4" M
200 129 707 *	700 mm	1/4" M	740 mm	1/4" M
200 129 408	400 mm	1/4" M	800 mm	1/4" M
200 129 709	700 mm	1/4" M	900 mm	1/4" M
200 129 712	700 mm	1/4" M	1,200 mm	1/4" M



Stainless steel. Lance with moulded handle. Max. 400 bar / 150 °C

R+M Nr.	ISO	⊖	↔	⊕
200 029 709	700 mm	1/4" M	900 mm	1/4" M



Stainless steel. Lance with moulded handle. Max. 400 bar / 150 °C

R+M Nr.	ISO	⊖	↔	⊕
200 029 712 *	700 mm	1/4" M	1,200 mm	1/4" M

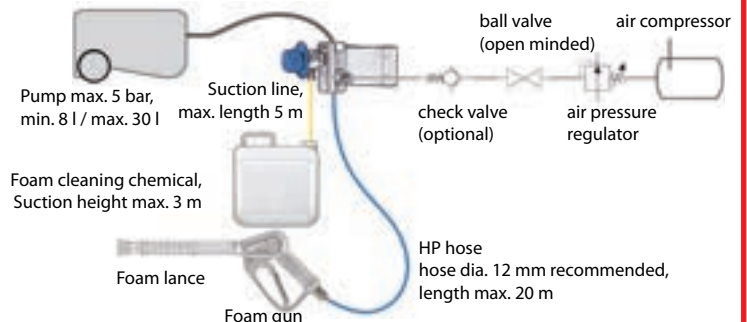
**Carwash low pressure foam lance**



Professional low pressure foam lance with patented LTF technology. Gun ST-2620 with 300 mm insulated lance and nozzle protection ST-10 with low-pressure nozzle 9040. Max. 125 bar / 80 l / min / 150 °C

R+M Nr.	⊖	TYP	⊕	R+M Nr.	⊖	TYP	⊕
202 620 906	Low pressure nozzle 9040	Standard	1/2" F swivel	202 620 905	Low pressure nozzle 9040	Weep	1/2" F swivel

**Sample application**  
**Carwash low pressure**  
**Foam lance:**  
 4 bar water pressure  
 3 bar compressed air addition  
 and 3% foam cleaning  
 chemicals via dosing pump



\* limited stock

## easywash365+ foam lances



LTF

Foam lance with **easywash365+** gun standard, lance with extension ST-9.1 245 mm and foam head ST-75. Max. 310 bar / 25 l/min / 150 °C

R+M Nr.	☺	TYP	☺
202 600 918	foam head ST-75 (1.9 mm)	standard	3/8" F swivel



LTF

Foam lance with **easywash365+** gun, lance with extension ST-9.1 245 mm and foam head ST-75. Max. 310 bar / 25 l/min / 150 °C

R+M Nr.	☺	TYP	☺
202 600 911	foam head ST-75 (1.05 mm)	weep version	3/8" F swivel
202 600 949	foam head ST-75 (1.20 mm)	weep version	3/8" F swivel
202 600 909	foam head ST-75 (1.35 mm)	weep version	3/8" F swivel
202 600 917	foam head ST-75 (1.90 mm)	weep version	3/8" F swivel



LTF

Foam lance with **easywash365+** gun, lance with extension ST-9.1 245 mm and foam head ST-75. Max. 310 bar / 25 l/min / 150 °C

R+M Nr.	☺	TYP	☺
202 600 929	foam head ST-75 (1.20 mm)	freeze stop version	3/8" F swivel.
202 600 930	foam head ST-75 (1.35 mm)	freeze stop version	3/8" F swivel
202 600 995	foam head ST-75 (1.70 mm)	freeze stop version	3/8" F swivel
202 600 919	foam head ST-75 (1.90 mm)	freeze stop version	3/8" F swivel

### Valves complete - easywash365+



Standard



Weep



Freeze stop

### ST-301 swivels



1/4" F : 3/8" F.  
**easywash365+** guns



Repair kit ST-301

R+M Nr.	202 300 490
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R+M Nr.	202 300 491
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R+M Nr.	202 300 457
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R+M Nr.	200 301 050
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R+M Nr.	200 300 100
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Symbols ☺ inlet ☺ outlet ↔ length ISO insulation



**easywash365+ foam sets**

By introducing the universally applicable **easywash365+** foam sets we succeeded in enlarging the application possibility of our foam injector family.

The stainless steel injector with high pressure foam lance which is installed via a T-piece between the outlet of the high pressure unit and the original spraying unit is especially designed for the professional cleaning of trucks of shipping or food companies as well as for applications in the industrial foam cleaning.

The connection from injector unit to the high pressure foam lance is realized by an optionally high pressure hose of up to a length of 40 m. The already existing spraying unit is used for cleaning and

rinsing works. Enormous savings of both cleaning agent and time can be achieved as the foam lance has cleaning agent immediately available without switching at the unit or change of equipment.

It is possible to simplify the handling of the construction and to boost efficiency at the same time by integrating two hose reels. This set is suitable for all common high pressure cleaning units for up to 310 bar and max. 90 °C.



**LTF**

Kr IP K

**easywash365+ foam set:** **easywash365+** foam lance standard with foam head ST-75, injector ST-160 (M22 F and 2 x M22 M) with metering valve ST-161, suction hose 1,000 mm and suction filter ST-32. Max. 310 bar / 90 °C

R+M Nr.	↻	Ⓒ
200 160 720	foam head ST-75 (1.9 mm)	3/8" F swivel

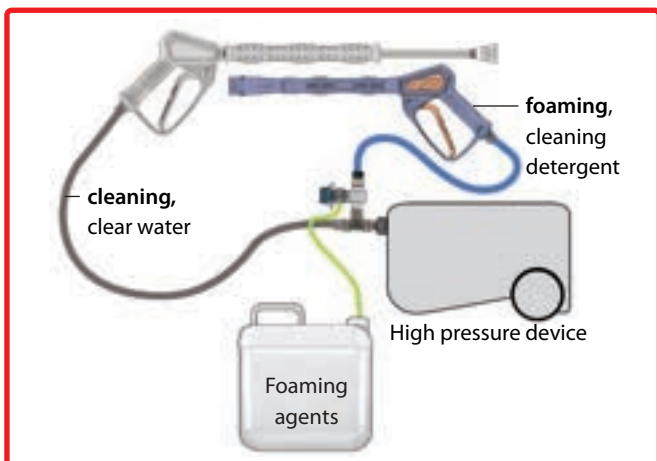


**LTF**

A

**easywash365+ foam set:** **easywash365+** foam lance standard with foam head ST-75, injector ST-160 (Coupling ST-45-250 nickel-plated brass, plug ST-45-250 zinc-plated steel and M22 M) with metering valve ST-161, suction hose 1,000 mm and suction filter ST-32. Max. 250 bar / 90 °C

R+M Nr.	↻	Ⓒ
200 160 725	foam head ST-75 (1.9 mm)	3/8" F swivel



easywash365+ foam sets



LTF

Kr IP K

easywash365+ foam set: easywash365+ spray gun, lance and brush with turbofoam365+ air injector by Suttner and injector ST-160 (M22 F and 2 x M22 M) with metering valve ST-161, suction hose 1,000 mm and suction filter ST-32. Max. 310 bar / 90 °C

R+M Nr.		↔ lance and brush	⊕
502 600 100 000	lance and brush with turbofoam365+ air injector (1.9 mm)	900 mm	3/8" F swivel
502 601 100 000	lance and brush with turbofoam365+ air injector (1.9 mm)	1,200 mm	3/8" F swivel

The following hoses are highly recommended for easywash365+ foam sets

QSC : male thread  
M22 : 3/8"



Hoses with single wire braid and wrapped cover

TYP	DN	P	°C	↔	R+M Nr.
1SN	8	315 bar	150 °C	10 m	343 103 310
				15 m	343 103 315
				20 m	343 103 320
				30 m	343 103 330

Symbols DN nominal diameter P pressure °C temperature ↔ length TYP type ⊕ inlet ⊖ outlet



**easywash365+ wash brushes - large areas are completely clean from now on!**

By means of a very wide work surface of approx. 260 x 80 mm the easywash365+ wash brush is especially designed for the efficient cleaning of large areas such as railway carriages, tramcars, omnibuses, caravans, trucks, boats and ships, facades, greenhouses as well as vehicles, motorcycles and many more.

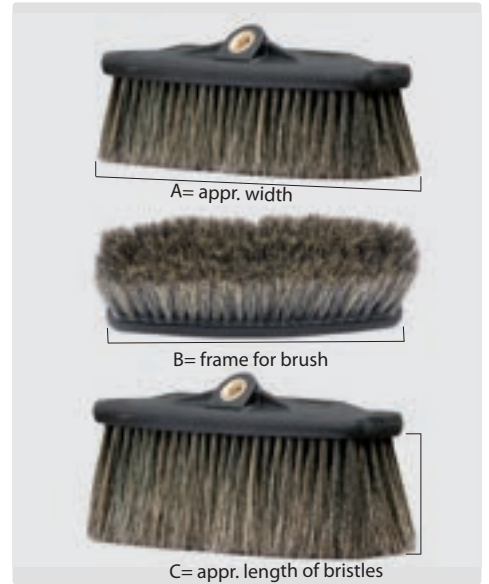
Fine and extremely soft natural bristles with split ends ensure an especially gentle cleaning of sensitive surfaces such as windows and car finish. The solid body of the easywash365+ wash brush consists of 152 bristle bundles which are attached undetachably by means of multi-component synthetic resin.

Our easywash365+ wash brush convinces all users working in the self-service foam- and prewash of an ideal and very easy handling.

The soft coating of the body made out of thermoplastic elastomer demonstrably protects sensitive surfaces from damages.

The inlet of the easywash365+ wash brush is equipped with a brass insert with 1/4" female thread which is fixed in the body. By means of an additional grub screw the high pressure lances available at self-service bays are safe from twisting and theft. Therefore, the grub screw needs to be screwed to the lance tube. **Further fastening plates or protection against theft are not required.**

13 outlet ports at the bottom of the easywash365+ wash brush enable the required water flow and guarantee a convincingly good foam quality at the same time.



**Wash brushes**



A= 270. B= 260 x 80 mm. Hog hair.  
Max. 40 l/min / 60 °C

R+M Nr.	C	Ⓢ
200 023 550	60 mm	1/4" F



A= 270. B= 260 x 80 mm. Hog hair.  
Max. 40 l/min / 60 °C

R+M Nr.	C	Ⓢ
200 023 650	90 mm	1/4" F



A= 270. B= 260 x 80 mm. Hog hair / synthetic.  
Max. 40 l/min / 60 °C

R+M Nr.	C	Ⓢ
200 023 660	90 mm	1/4" F

**Wash brushes**

**Wash brushes**



A= 260. B= 230 x 80 mm. Hog hair.  
Max. 50 °C

R+M Nr.	C
200 023 500	60 mm
200 023 600	90 mm

**Wash brush with cover**



A= 260. B= 230 x 80 mm. Hog hair.  
Max. 50 °C

R+M Nr.	C	Ⓢ
200 023 710	60 mm	1/4" F



A= 260. B= 230 x 80 mm. Hog hair.  
With stainless steel frame.  
Max. 50 °C

R+M Nr.	C	Ⓢ
200 023 735	60 mm	1/4" F



A= 260. B= 230 x 80 mm. Hog hair.  
With stainless steel frame.  
Max. 50 °C

R+M Nr.	C	Ⓢ
200 023 736	90 mm	1/4" F

**Covers**



Cover suitable as theft protection for wash brushes. Plastic. Max. 50 °C

R+M Nr.	B ⇄
020 001 540	230 mm

**Frames for wash brushes**



Frame with fixing bolts. Stainless steel.  
Max. 60 °C

R+M Nr.	B ⇄	Ⓢ
200 023 560	230 mm	1/4" F



Frame. Stainless steel.  
Max. 60 °C

R+M Nr.	B ⇄	Ⓢ
200 023 570	230 mm	1/4" F

## Wash brushes



A= 260. B= 230 x 80 mm. Hog hair.  
Max. 50 °C



A= 260. B= 230 x 80 mm. Hog hair.  
Max. 50 °C



A= 260. B= 230 x 80 mm. Hog hair.  
With stainless steel frame. Max. 50 °C



A= 260. B= 230 x 80 mm. Hog hair.  
Max. 50 °C

R+M Nr.	C	Ⓢ
523 703	60 mm	1/8" M

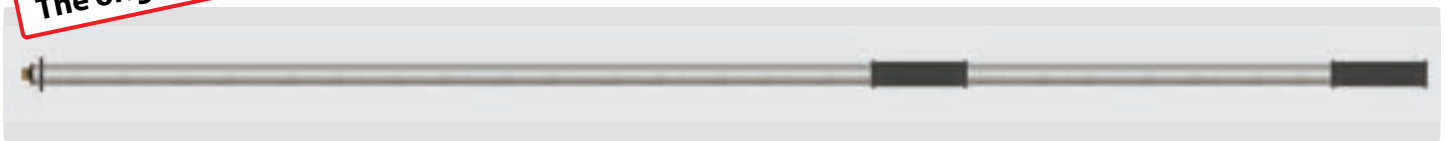
R+M Nr.	C	Ⓢ
200 023 700	60 mm	1/4" F

R+M Nr.	C	Ⓢ
200 023 730	60 mm	1/4" F

R+M Nr.	C	Ⓢ
523 701	60 mm	M18 x 1.5 F

**The original**

## Vorwerk lances & wash brushes



Extension pipe with water flow

R+M Nr.	↔	Ⓢ	Ⓢ
523 790 1	1,000 mm	1/4" M	1/4" F
523 790 2	1,500 mm	1/4" M	1/4" F
523 790 3	2,000 mm	1/4" M	1/4" F

### Vorwerk wash brushes



A= 300. B= 300 x 100 mm. Nylon

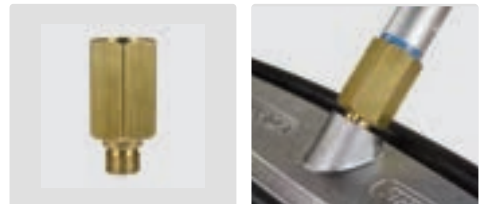
R+M Nr.	C	Ⓢ
523 780	60 mm	1/4" F



A= 240. B= 230 x 80 mm. Hog hair

R+M Nr.	C	Ⓢ
523 70	60 mm	1/4" F
523 75	90 mm	1/4" F

### Adaptor



Adaptor for lances with coarse thread.

Coarse thread : 1/4" M

R+M Nr.
010 003 610



Brush. A= 260. B= 230 x 80 mm.  
Hog hair

R+M Nr.	C
523 72	60 mm
523 73	90 mm



Frame. 260 mm.  
Aluminium

R+M Nr.	Ⓢ
523 76	1/4" F

### Air injector



1/4" F : 1/4" M.  
Flow at 100 bar

R+M Nr.	↔	∅
108 290 60	13 l/min	1.5
108 290 20	34 l/min	2.5

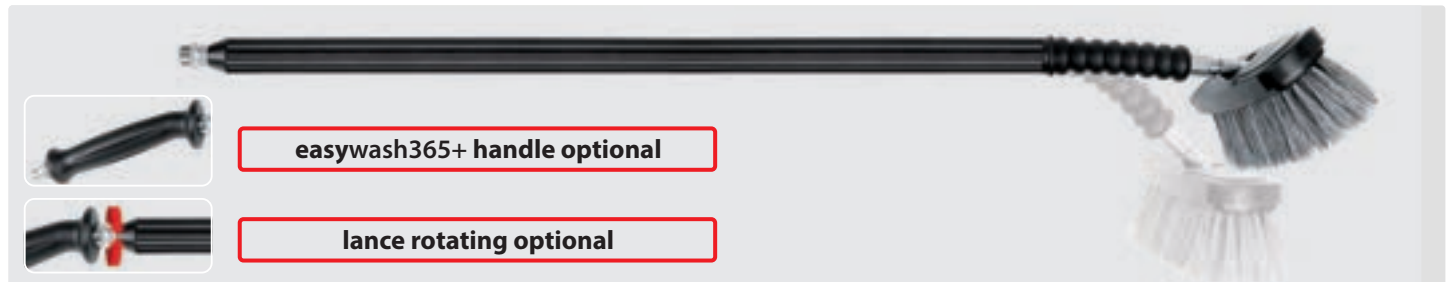
Symbols ↔ length Ⓢ inlet Ⓢ outlet ∅ diameter ↔ flow

### Mosmatic flex-brush wand – no more washing without coin slot!

**Flex-mechanism:** The Flex-Brush has an additional feature compared to all existing wands. It's the wobble feature! This will allow the brush head to wobble when not under pressure and become solid when under pressure. The mechanism requires a minimum pressure of 2.5 bar to be used. This will happen through a pin which moves forward. As soon as the pressure drops, the pin will move back to its origin position and the brush head starts to wobble again.

**Integrated swivel (optional):** An integrated swivel at the inlet of the brush-wand will give you optimal freedom of movement. In addition, the high pressure hose will not tangle up and will provide the user a secure handling.

**easywash365+ handle (optional):** for a safe and ergonomic handling.



Lance with moulded handle, air injector and wash brush (bristles 60 mm). Max. 50 °C

R+M Nr.	TYP	↔	ISO	⊖	P	↔	⊕
108 271 02	-	1,000 mm	800 mm	wash brush	2.5 - 20 bar	min. 5 l/min	1/4" M
108 271 07	-	1,000 mm	800 mm	wash brush	20 - 80 bar	min. 9 l/min	1/4" M
108 273 02	-	1,200 mm	800 mm	wash brush	2.5 - 20 bar	min. 5 l/min	1/4" M handle
108 273 07	-	1,200 mm	800 mm	wash brush	20 - 80 bar	min. 9 l/min	1/4" M handle
108 271 22	swivel	1,000 mm	800 mm	wash brush	2.5 - 20 bar	min. 5 l/min	1/4" M
108 271 27	swivel	1,000 mm	800 mm	wash brush	20 - 80 bar	min. 9 l/min	1/4" M
108 273 22	swivel	1,200 mm	800 mm	wash brush	2.5 - 20 bar	min. 5 l/min	1/4" M handle
108 273 27	swivel	1,200 mm	800 mm	wash brush	20 - 80 bar	min. 9 l/min	1/4" M handle

### easywash365+ brush holder



Container with overflow and lateral drain for cleaning. For wall and floor mounting.

H x W x D = 670 x 340 x 143 mm

R+M Nr.	(M)
105 810	stainless steel



Wash brush holder, two-piece.

For floor mounting and positioning for different length of lances.

Holder: H x W x D: 315 x 305 x 120 mm.

Support pipe: Pipe Ø 42 mm,

height adjustable from 570 to 1,000 mm

R+M Nr.	(M)
105 820	stainless steel

### Brush holder



Suitable for all brushes. Hole spacing 202 mm.

H x W x D = 90 x 250 x 100 mm

R+M Nr.	(M)
108 290 30	stainless steel

## easywash365+ Prewashing trolley

**new**

- » Stainless steel
- » 2 separate areas
- » Water pipe connection: ST-45 plug nipple for 1/2" DN 13 or 3/4" DN 19
- » Drain tap and nozzle for DN 13
- » Incl. Intake hose with filter and check valve
- » Storage of detergent canisters up to 30 liters
- » The water and detergent supply is automatically closed or opened by a float valve



R+M Nr.	ⓐ	ⓑ
105 830	ST-45	ball valve

## Wheel scrubber WHEELBLASTER PRO

- » Made out of stainless steel
- » 4 nozzles tips are required
- » Variable height and swing adjustment
- » Multiple cleaning heads can be installed
- » High impact at distance
- » DYTIs swivel
- » Rotor arm 160/160 mm
- » Minimum flow rate: 30 l/min.
- » **Delivery about 3 weeks**

The Wheelblaster Pro is the new standard for vehicle wash systems. The complete wash head can be placed nearly anywhere you wish and has variable height and swing adjustment. The unit must be equipped with 4 stabilizer nozzles. These four 0° stabilizer nozzles increase distance and impact to achieve optimal cleaning. It is possible to cover a larger cleaning area by mounting various cleaning heads on the 1 meter high stand



action-⊗:	
distance	cleaning surface
250 mm	450 mm
500 mm	700 mm
750 mm	950 mm
1,000 mm	1,200 mm

R+M Nr.	TYP	°C	P	U	ⓐ	ⓑ
108 845 41	incl. stand	120°	275 bar	up to 2,000 rpm	3/8" F	11.5 kg
108 845 91	excl. stand	120°	275 bar	up to 2,000 rpm	3/8" F	4.2 kg

## Wheel scrubber



Buffed stainless steel. Accessories for automatic car wash. Turbo swivel. Rotating arm is powered by water. Adjustable in height. Connectable with a hose of the pumping system.  
 4 nozzles 1/8" M NPT are required.  
 Rotor ⊗ 470 / 350 mm.  
 Max. 250 bar / 2,000 r.p.m. / 120 °C

R+M Nr.	TYP	ⓐ
108 845 12	standard	3/8" F
108 845 17	high performance	3/8" F

Symbols ⓐ inlet ⓑ outlet TYP type P] pressure U revolutions ⓑ weight M] material °C temperature ⊕ width ⊖ flow



easywash365+ lance holder

Lance holder for floor mounting



Lance holder with drain  $\varnothing$  20 mm.  
Pipe length 730 mm.  
Appropriate wall mounting bracket (105 625)

R+M Nr.	(M)	Pipe- $\varnothing$
105 620	stainless steel	60 mm



Lance holder with drain  $\varnothing$  20 mm.  
Pipe length 730 mm.  
Appropriate wall mounting bracket (105 625)

R+M Nr.	(M)	Pipe- $\varnothing$
105 626	stainless steel	100 mm

Lance holder with suspension



Holder with suspension and drain  $\varnothing$  20 mm.  
Pipe length 730 mm.  
Appropriate wall mounting bracket (105 625)

R+M Nr.	(M)	Pipe- $\varnothing$
105 650	stainless steel	60 mm

easywash365+ lance holder



Lance holder with drain  $\varnothing$  20 mm.  
Pipe length 730 mm

R+M Nr.	(M)	Pipe- $\varnothing$
105 640	stainless steel	60 mm

easywash365+ twin lance holder



Lance holder with drain  $\varnothing$  20 mm.  
Pipe length 2 x 730 mm

R+M Nr.	(M)	Pipe- $\varnothing$
105 660	stainless steel	60 mm

Lance holder for wall mounting



Pipe length 590 mm

R+M Nr.	(M)	Pipe- $\varnothing$
105 630	stainless steel	60 mm

easywash365+ carwash lance holder

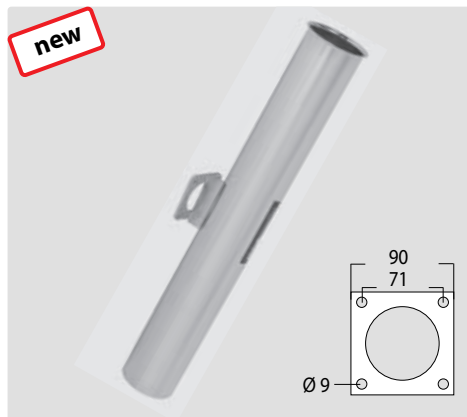


Stainless steel. Height adjustable.  
Lance support: 800 mm.

R+M Nr.	$\varnothing$	I	$\leftrightarrow$
105 610 060	7 kg	800-900 mm	710 mm

Lance holder, Mosmatic

Lance holder for wall mounting



Pipe length 720 mm

R+M Nr.	(M)	Pipe- $\varnothing$
108 291 43	stainless steel	60 mm



## easywash365+ mat cleaner



**new**

H x W x D 1,200 x 540 x 35 mm.  
Mounting plates  $\varnothing$  100 mm.  
Weight 16 kg.  
Mounting parts excluded in delivery

<b>R+M Nr.</b>	(M)
105 735	stainless steel



H x W x D 1,000 x 500 x 400 mm.  
Weight 30.3 kg.  
Mounting parts included in delivery

<b>R+M Nr.</b>	(M)
105 700	zinc-plated steel

## easywash365+ mat cleaner in RAL colour



**new**

Unvarnished:  
The face is  
zinc-plated

Drawer and  
body:  
Industrial  
varnish in  
RAL colour

The handy mat cleaner – now also available in your preferred RAL colour  
H x W x D 1,000 x 500 x 400 mm. Scope of supply  
including fastening material.

Corrosion resistance: Zinc-plated with resistant, special varnish for  
industrial applications Please add the 4 numbers of your preferred  
RAL colour to the article number.

E.g. brilliant blue 5007: R+M Nr. 105 705 007.

Delivery about 2 weeks

brilliant blue 5007	colza yellow 1021	leaf green 6002	traffic red 3020	flame red 3000
yellow orange 2000	signal orange 2010	steel blue 5011	signal blue 5005	golden yellow 1004

<b>R+M Nr.</b>	(S)	(M)
105 70 (RAL-colour)	30.3 kg zinc-plated/varnished in RAL colour	

## easywash365+ holder

### Car mat holder



The solid car mat  
holder for practical wet  
cleaning of rubber mats  
or within the vacuum  
cleaner area for textile  
mats.  
Height 300 mm

<b>R+M Nr.</b>	(M)
108 909 09 stainl. steel	



The solid car mat  
holder for practical wet  
cleaning of rubber mats  
or within the vacuum  
cleaner area for textile  
mats.  
Height 240 mm

<b>R+M Nr.</b>	(M)
105 750 stainl. steel	

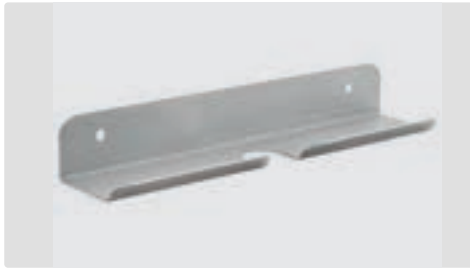
### Holder for motorcycle helmets



H x W x D 150 x 125 x  
87 mm.  
Weight 0.38 kg.  
Mounting parts exclu-  
ded in delivery.

<b>R+M Nr.</b>	(M)
105 000 stainl. steel	

**easywash365+ Holder for Underbody Lance**



Stainless Steel. H x W x D 35 x 245 x 45 mm. Pre-drilled mounting holes at a distance of 190 mm

R+M Nr.	
040 000 321	260 g



**Low pressure pre-spraying unit**



Pre-spraying unit with gun ST-810, lance ST-28 Cool & Compact zinc-plated steel, nozzle protector ST-10 and nozzle 65° 01 with filter.  
Max. 140 bar / 150 °C

R+M Nr.			
200 810 785	nozzle 65° 01	500 mm	1/4" M <sub>swivel</sub>

**Sleeves for windscreen wipers**



Polyethylene. 25 µ. HDPE. Blocked at 50 pieces each. Tear-off perforation

R+M Nr.	H x L	
980 908 002 6	90 x 800 mm	2,500
980 806 002 6	80 x 600 mm	5,000

**Protective gloves**

**Protective gloves in dispenser box**



Gloves made out of pressed transparency film. Hammered. Taking of gloves at the bottom. 100 pieces per box. Size 240 x 300 mm

R+M Nr.	
105 901 000	1,000 pieces
105 903 000	3,000 pieces
105 910 000	10,000 pieces

**Wall mount for protective gloves**



Taking of gloves at the bottom. Stainless steel

R+M Nr.	W	H	D
105 900	235	165	20

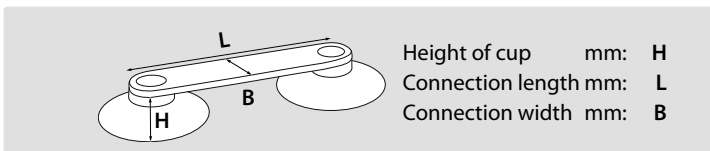


Polyethylene. 45 µ. LDPE. Blocked at 50 pieces each. Tear-off perforation

R+M Nr.	H x L	
980 706 004 6	70 x 600 mm	5,000
980 908 004 6	90 x 800 mm	2,500

**HDPE = high density**  
**LDPE = low density**

**Vacuum cups**



Height of cup mm: H  
Connection length mm: L  
Connection width mm: B

For fixing the rear wipers onto the window. 100 pieces.

**Suitable to adhere to smooth, nonporous surfaces**

Flexible PVC. **Soft degree of hardness.**

\* Thermoplastic elastomer. **Solid degree of hardness.** Limited stock



R+M Nr.	H	L	B	
105 950	8	86	16	100
R+M Nr.	H	L	B	
105 951 *	8	86	16	100
R+M Nr.	H	L	B	
105 952	7	100	16	100
R+M Nr.	H	L	B	
105 953	8	86	16	100

Symbols inlet outlet length material packing unit shipment by truck weight

## CARWASH COMFORT - the new hose wonder in self-service washing bays

**The original**



- » High standard of easy and comfortable use in combination with spraying equipment, e.g. brush lance.
- » Light weight, 92 g/m at DN 6. More than half in weight in comparison to an usual self-service hose.
- » Chemically resistant, smooth interior made out of PES.
- » Transparent surface made out of a thermoplastic elastomer, depending on colour: CCBL, CCRT, CCGR, CCGE, CCGN.
- » Oil-, UV-, ozone-resistant and weatherproof.
- » Flexible in case of low temperatures: -40 °C – +60 °C, -40 °F – +140 °F.

- » High-tensile polyester reinforcing, working pressure of up to 200 bar, with a fourfold guarantee, that the hose does not burst.
- » Outer diameter 12 mm at DN 6.
- » Burst pressure > 800 bar.

1/4" : 1/4"	3/8" : 3/8"	M14 : M14	M18 : M18	3/8" : 3/8"																																																																																																																																																						
Female thread (DKR)	Female thread (DKR)	Female thread (DKOL)	Female thread (DKOL)	Male thread (AGR)																																																																																																																																																						
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462 044 306		6.0 m																																																																																																																																																								

**CARWASH COMFORT - the new hose wonder in self-service washing bays**



Female thread (DKR)

Female thread (DKR)

Female thread (DKOL)

Female thread (DKOL)

Male thread (AGR)

R+M Nr.	↔	length
463 052 703 5	↔	3.5 m
463 052 703 7	↔	3.7 m
463 052 704	↔	4.0 m
463 052 704 2	↔	4.2 m
463 052 704 5	↔	4.5 m
463 052 704 7	↔	4.7 m
463 052 705	↔	5.0 m
463 052 705 5	↔	5.5 m
463 052 706	↔	6.0 m

R+M Nr.	↔	length
463 054 703 5	↔	3.5 m
463 054 703 7	↔	3.7 m
463 054 704	↔	4.0 m
463 054 704 2	↔	4.2 m
463 054 704 5	↔	4.5 m
463 054 704 7	↔	4.7 m
463 054 705	↔	5.0 m
463 054 705 5	↔	5.5 m
463 054 706	↔	6.0 m

R+M Nr.	↔	length
463 072 703 5	↔	3.5 m
463 072 703 7	↔	3.7 m
463 072 704	↔	4.0 m
463 072 704 2	↔	4.2 m
463 072 704 5	↔	4.5 m
463 072 704 7	↔	4.7 m
463 072 705	↔	5.0 m
463 072 705 5	↔	5.5 m
463 072 706	↔	6.0 m

R+M Nr.	↔	length
463 076 703 5	↔	3.5 m
463 076 703 7	↔	3.7 m
463 076 704	↔	4.0 m
463 076 704 2	↔	4.2 m
463 076 704 5	↔	4.5 m
463 076 704 7	↔	4.7 m
463 076 705	↔	5.0 m
463 076 705 5	↔	5.5 m
463 076 706	↔	6.0 m

R+M Nr.	↔	length
463 044 703 5	↔	3.5 m
463 044 703 7	↔	3.7 m
463 044 704	↔	4.0 m
463 044 704 2	↔	4.2 m
463 044 704 5	↔	4.5 m
463 044 704 7	↔	4.7 m
463 044 705	↔	5.0 m
463 044 705 5	↔	5.5 m
463 044 706	↔	6.0 m



Female thread (DKR)

Female thread (DKR)

Female thread (DKOL)

Female thread (DKOL)

Male thread (AGR)

R+M Nr.	↔	length
464 052 303 5	↔	3.5 m
464 052 303 7	↔	3.7 m
464 052 304	↔	4.0 m
464 052 304 2	↔	4.2 m
464 052 304 5	↔	4.5 m
464 052 304 7	↔	4.7 m
464 052 305	↔	5.0 m
464 052 305 5	↔	5.5 m
464 052 306	↔	6.0 m

R+M Nr.	↔	length
464 054 303 5	↔	3.5 m
464 054 303 7	↔	3.7 m
464 054 304	↔	4.0 m
464 054 304 2	↔	4.2 m
464 054 304 5	↔	4.5 m
464 054 304 7	↔	4.7 m
464 054 305	↔	5.0 m
464 054 305 5	↔	5.5 m
464 054 306	↔	6.0 m

R+M Nr.	↔	length
464 072 303 5	↔	3.5 m
464 072 303 7	↔	3.7 m
464 072 304	↔	4.0 m
464 072 304 2	↔	4.2 m
464 072 304 5	↔	4.5 m
464 072 304 7	↔	4.7 m
464 072 305	↔	5.0 m
464 072 305 5	↔	5.5 m
464 072 306	↔	6.0 m

R+M Nr.	↔	length
464 076 303 5	↔	3.5 m
464 076 303 7	↔	3.7 m
464 076 304	↔	4.0 m
464 076 304 2	↔	4.2 m
464 076 304 5	↔	4.5 m
464 076 304 7	↔	4.7 m
464 076 305	↔	5.0 m
464 076 305 5	↔	5.5 m
464 076 306	↔	6.0 m

R+M Nr.	↔	length
464 044 303 5	↔	3.5 m
464 044 303 7	↔	3.7 m
464 044 304	↔	4.0 m
464 044 304 2	↔	4.2 m
464 044 304 5	↔	4.5 m
464 044 304 7	↔	4.7 m
464 044 305	↔	5.0 m
464 044 305 5	↔	5.5 m
464 044 306	↔	6.0 m



Female thread (DKR)

Female thread (DKR)

Female thread (DKOL)

Female thread (DKOL)

Male thread (AGR)

R+M Nr.	↔	length
465 052 303 5	↔	3.5 m
465 052 303 7	↔	3.7 m
465 052 304	↔	4.0 m
465 052 304 2	↔	4.2 m
465 052 304 5	↔	4.5 m
465 052 304 7	↔	4.7 m
465 052 305	↔	5.0 m
465 052 305 5	↔	5.5 m
465 052 306	↔	6.0 m

R+M Nr.	↔	length
465 054 303 5	↔	3.5 m
465 054 303 7	↔	3.7 m
465 054 304	↔	4.0 m
465 054 304 2	↔	4.2 m
465 054 304 5	↔	4.5 m
465 054 304 7	↔	4.7 m
465 054 305	↔	5.0 m
465 054 305 5	↔	5.5 m
465 054 306	↔	6.0 m

R+M Nr.	↔	length
465 072 303 5	↔	3.5 m
465 072 303 7	↔	3.7 m
465 072 304	↔	4.0 m
465 072 304 2	↔	4.2 m
465 072 304 5	↔	4.5 m
465 072 304 7	↔	4.7 m
465 072 305	↔	5.0 m
465 072 305 5	↔	5.5 m
465 072 306	↔	6.0 m

R+M Nr.	↔	length
465 076 303 5	↔	3.5 m
465 076 303 7	↔	3.7 m
465 076 304	↔	4.0 m
465 076 304 2	↔	4.2 m
465 076 304 5	↔	4.5 m
465 076 304 7	↔	4.7 m
465 076 305	↔	5.0 m
465 076 305 5	↔	5.5 m
465 076 306	↔	6.0 m




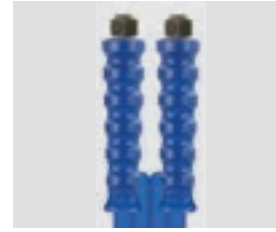











R+M Nr.	↔	length
465 044 303 5	↔	3.5 m
465 044 303 7	↔	3.7 m
465 044 304	↔	4.0 m
465 044 304 2	↔	4.2 m
465 044 304 5	↔	4.5 m
465 044 304 7	↔	4.7 m
465 044 305	↔	5.0 m
465 044 305 5	↔	5.5 m
465 044 306	↔	6.0 m

Symbols ↔ length



## CARWASH COMFORT - you are invited to experience our blue hose wonder in DN 8!






High-tensile polyester reinforcing, working pressure of up to 200 bar. DN 8. -40 °C – +60 °C, -40 °F – +140 °F

1/4" : 1/4"		3/8" : 3/8"		M14 : M14		M18 : M18		3/8" : 3/8"	
									
Female thread (DKR)		Female thread (DKR)		Female thread (DKOL)		Female thread (DKOL)		Male thread (AGR)	
<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>
471 052 603 5	3.5 m	471 054 603 5	3.5 m	471 072 603 5	3.5 m	471 076 603 5	3.5 m	471 044 603 5	3.5 m
471 052 603 7	3.7 m	471 054 603 7	3.7 m	471 072 603 7	3.7 m	471 076 603 7	3.7 m	471 044 603 7	3.7 m
471 052 604	4.0 m	471 054 604	4.0 m	471 072 604	4.0 m	471 076 604	4.0 m	471 044 604	4.0 m
471 052 604 2	4.2 m	471 054 604 2	4.2 m	471 072 604 2	4.2 m	471 076 604 2	4.2 m	471 044 604 2	4.2 m
471 052 604 5	4.5 m	471 054 604 5	4.5 m	471 072 604 5	4.5 m	471 076 604 5	4.5 m	471 044 604 5	4.5 m
471 052 604 7	4.7 m	471 054 604 7	4.7 m	471 072 604 7	4.7 m	471 076 604 7	4.7 m	471 044 604 7	4.7 m
471 052 605	5.0 m	471 054 605	5.0 m	471 072 605	5.0 m	471 076 605	5.0 m	471 044 605	5.0 m
471 052 605 5	5.5 m	471 054 605 5	5.5 m	471 072 605 5	5.5 m	471 076 605 5	5.5 m	471 044 605 5	5.5 m
471 052 606	6.0 m	471 054 606	6.0 m	471 072 606	6.0 m	471 076 606	6.0 m	471 044 606	6.0 m
									
Female thread (DKR)		Female thread (DKR)		Female thread (DKOL)		Female thread (DKOL)		Male thread (AGR)	
<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>
471 405 230 35	3.5 m	471 405 430 35	3.5 m	471 407 230 35	3.5 m	471 407 630 35	3.5 m	471 404 430 35	3.5 m
471 405 230 37	3.7 m	471 405 430 37	3.7 m	471 407 230 37	3.7 m	471 407 630 37	3.7 m	471 404 430 37	3.7 m
471 405 230 4	4.0 m	471 405 430 4	4.0 m	471 407 230 4	4.0 m	471 407 630 4	4.0 m	471 404 430 4	4.0 m
471 405 230 42	4.2 m	471 405 430 42	4.2 m	471 407 230 42	4.2 m	471 407 630 42	4.2 m	471 404 430 42	4.2 m
471 405 230 45	4.5 m	471 405 430 45	4.5 m	471 407 230 45	4.5 m	471 407 630 45	4.5 m	471 404 430 45	4.5 m
471 405 230 47	4.7 m	471 405 430 47	4.7 m	471 407 230 47	4.7 m	471 407 630 47	4.7 m	471 404 430 47	4.7 m
471 405 230 5	5.0 m	471 405 430 5	5.0 m	471 407 230 5	5.0 m	471 407 630 5	5.0 m	471 404 430 5	5.0 m
471 405 230 55	5.5 m	471 405 430 55	5.5 m	471 407 230 55	5.5 m	471 407 630 55	5.5 m	471 404 430 55	5.5 m
471 405 230 6	6.0 m	471 405 430 6	6.0 m	471 407 230 6	6.0 m	471 407 630 6	6.0 m	471 404 430 6	6.0 m
									
Female thread (DKR)		Female thread (DKR)		Female thread (DKOL)		Female thread (DKOL)		Male thread (AGR)	
<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>	<b>R+M Nr.</b>	<input type="checkbox"/>
471 205 230 35	3.5 m	471 205 430 35	3.5 m	471 207 230 35	3.5 m	471 207 630 35	3.5 m	471 204 430 35	3.5 m
471 205 230 37	3.7 m	471 205 430 37	3.7 m	471 207 230 37	3.7 m	471 207 630 37	3.7 m	471 204 430 37	3.7 m
471 205 230 4	4.0 m	471 205 430 4	4.0 m	471 207 230 4	4.0 m	471 207 630 4	4.0 m	471 204 430 4	4.0 m
471 205 230 42	4.2 m	471 205 430 42	4.2 m	471 207 230 42	4.2 m	471 207 630 42	4.2 m	471 204 430 42	4.2 m
471 205 230 45	4.5 m	471 205 430 45	4.5 m	471 207 230 45	4.5 m	471 207 630 45	4.5 m	471 204 430 45	4.5 m
471 205 230 47	4.7 m	471 205 430 47	4.7 m	471 207 230 47	4.7 m	471 207 630 47	4.7 m	471 204 430 47	4.7 m
471 205 230 5	5.0 m	471 205 430 5	5.0 m	471 207 230 5	5.0 m	471 207 630 5	5.0 m	471 204 430 5	5.0 m
471 205 230 55	5.5 m	471 205 430 55	5.5 m	471 207 230 55	5.5 m	471 207 630 55	5.5 m	471 204 430 55	5.5 m
471 205 230 6	6.0 m	471 205 430 6	6.0 m	471 207 230 6	6.0 m	471 207 630 6	6.0 m	471 204 430 6	6.0 m



**High pressure hoses for self-service washing bays**

Hoses with single wire braid and wrapped cover. 1SN. Nominal diameter 6. Max. 210 bar /150 °C

1/4" : 1/4"		3/8" : 3/8"		1/4" : 1/4"		M14 : M14		M14 : M14	
									
Female thread (DKR)		Female thread (DKR)		Female thread (DKR)		Female thread (DKOL) VA		Female thread (DKOL)	
R+M Nr.	↔	R+M Nr.	↔	R+M Nr.	↔	R+M Nr.	↔	R+M Nr.	↔
331 152 803 5	3.5 m	331 154 803 5	3.5 m	331 152 603 5	3.5 m	331 172 803 59	3.5 m	331 172 803 5	3.5 m
331 152 804 2	4.2 m	331 154 804 2	4.2 m	331 152 604	4.0 m	331 172 804 29	4.2 m	331 172 804	4.0 m
331 152 805	5.0 m	331 154 805	5.0 m	331 152 604 2	4.2 m	331 172 804 79	4.7 m		
				331 152 605 5	5.5 m			331 172 805	5.0 m

**M22 : 10**  swivel

			
QSC - swivel disc plug		QSC - swivel disc plug	
R+M Nr.	↔	R+M Nr.	↔
330 117 303 5	3.5 m	331 117 303 5	3.5 m
330 117 304	4.0 m	331 117 304	4.0 m
330 117 304 2	4.2 m	331 117 304 2	4.2 m
		331 117 305	5.0 m
330 117 310	10.0 m	331 117 310	10.0 m

**Further hp hoses suitable for self-service washing bays are available on request.**

**Heated low pressure hoses**

Connecting hoses within ceiling boom 1 SN DN 8 black

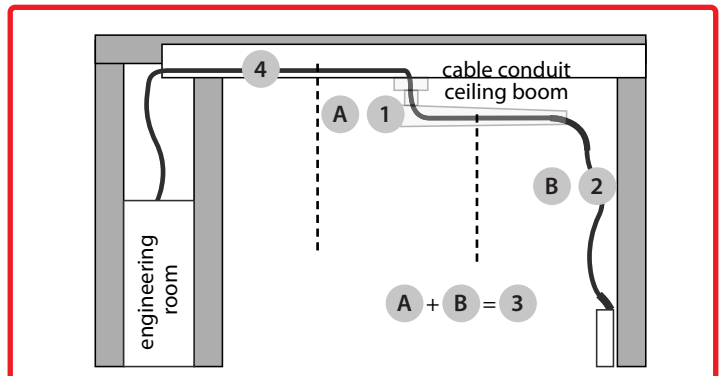
Tightly wound surface with steel wire braid, therefore an excellent bending behaviour

Female thread (DKR)

1/4" with e-cable



R+M Nr.	↔
330 012 701 001	2.2 m
330 012 701 002	3.1 m
330 012 701 003	3.6 m



Symbols ↔ length

**Heated low pressure hoses**

**Hoses from ceiling boom to foam lance**

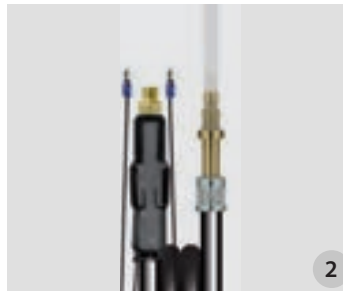
Heated foam hoses for blue lance.

**Soft and smooth surface:**

- » enjoyably easy handling
- » very gentle to surface of the vehicle
- » no black stripes on the car



**1/4" (AGR) with e-cable : silicone hose**



R+M Nr.	
330 012 701 008	4.8 m
330 012 701 009	5.2 m
330 012 701 010	5.6 m
330 012 701 012	6.5 m

**Complete hose comprising connecting hose within ceiling boom and hose from boom to foam lance**

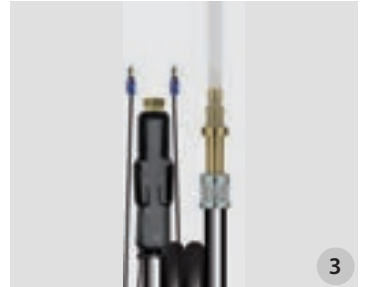
Heated foam hoses.

**Soft and smooth surface:**

- » enjoyably easy handling
- » very gentle to surface of the vehicle
- » no black stripes on the car



**1/4" female thread (DKR) with e-cable : silicone hose**



R+M Nr.	
330 012 701 016	7.2 m
330 012 701 017	8.0 m
330 012 701 018	10.0 m

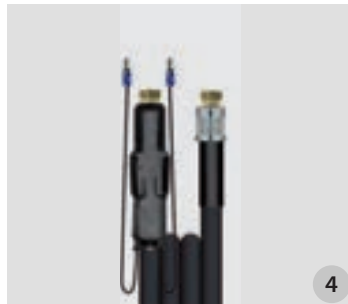
**Connecting hoses to the ceiling boom 1 SN DN 8 black**

Heated foam hoses for 2 or 3 washing bays.

**Tightly wound surface with steel wire braid, therefore an excellent bending behaviour**

**Female thread (DKR)**

**1/4" with e-cable: 1/4"**



R+M Nr.	
330 012 701 021	10 m
330 012 701 022	12 m

**Heated high pressure hoses (before 2005)**

**Heated high pressure hoses 1 SN DN 8 black**

Heated high pressure hoses for 2 or 3 washing bays. **Tightly wound surface with steel wire braid, therefore an excellent bending behaviour**

**M22 x 1.5 QSC with e-cable : 10 mm plug nipple with bearing**



R+M Nr.	
330 012 701 023	12 m
330 012 701 024	15 m

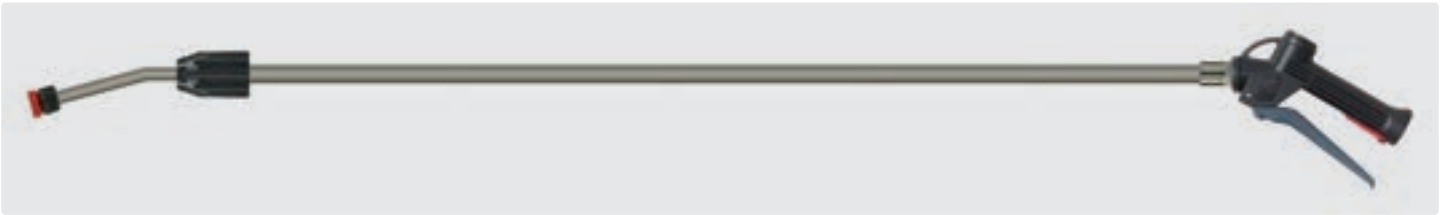
**M22 x 1.5 QSC with e-cable : 3/8 M plug nipple with bearing**



R+M Nr.	
330 012 701 025	12 m
330 012 701 026	15 m

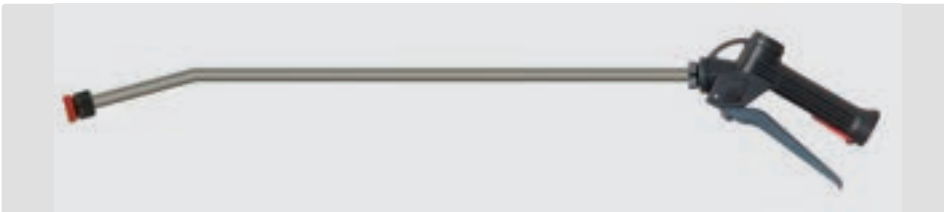
**Chemical spray guns ST-510 & lances**

**Chemical spray guns ST-510 with lances**



1000 - 2000 mm. Spray gun with telescopic lance made out of stainless steel and nozzle holder without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 600	nozzle holder	1/2" F



600 mm. Spray gun with lance made out of stainless steel and nozzle nut without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 550	nozzle holder	1/2" F



210 mm. Spray gun with lance made out of plastic and nozzle nut without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 710	nozzle holder	1/2" F



300 mm. Spray gun with lance made out of stainless steel and nozzle nut without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 560	nozzle holder	1/2" F

**Chemical spray gun ST-510**



Gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 70 l/min / 50 °C

R+M Nr.		
200 510 500	1/2" F	1/2" F



600 mm. Spray gun with lance made out of plastic and nozzle nut without nozzle. Spray gun with stainless steel V4A / AISI 316 ball being resistant to chemicals. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 700	nozzle holder	1/2" F

**Filter**



Plastic. Max. 50 °C

R+M Nr.
500 04



600 mm. Spray gun with lance made out of plastic and nozzle nut without nozzle. Spray gun with acid-resistant ball. Max. 25 bar / 30 l/min / 50 °C

R+M Nr.		
200 510 705	nozzle holder	1/2" F

**Symbols** thread volume inlet outlet

**Foam gun**



**Applications**

Designed for applications with acidic and caustic cleaner, soaps, disinfectants, degreasing and softening agents. The field of application is very versatile.

- » Food industry and canteen kitchen
- » Sanitary facilities and swimming baths
- » Cleaning of trucks, cars and other vehicles
- » Garages and petrol stations
- » Shops and workshops

The foam gun directly connected to the public water pipe produces a cleaning foam by means of foam injector. The water pressure sucks in the cleaning agent and air, both are being mixed to consistent foam, sprayed out via the spraying head and the foam wand. The cleaning agent can also purposely and automatically be diluted via a built-in proportioner so that the right mixture of chemical and water as foam can be chosen for the cleaning application.

**Technical specifications**

Water pressure 2.5 - 6 bar (for maximum accuracy 3 - 4 bar)  
Output 5.5 l/min

**Mixing Ratio**

Multi-ratio dial has 5 mixing settings and off



A	B	C	D	E	0
1:128	1:64	1:32	1:20	1:10	off

R+M Nr.	<input type="checkbox"/>	<input type="checkbox"/>
106 996 500	incl. coupler plugs "universal"	1 l

**Features**

- » Exceptional chemical resistance to acidic and caustic cleaner.
- » Foam generating wand creates a thick clinging foam.
- » Automatic dosing of chemicals.
- » Durable polymer mixing head with stainless steel screws.
- » Multi-ratio dial has 5 mixing settings and off.
- » Gun is removable from quick coupling for clear rinsing with water.
- » Easy filling by means of wide mouth.
- » Only works with water pipe pressure.
- » Suitable for all customary water couplings.
- » Chemical container volume 1,000 ml

**easyclean365+ Gun**

**New improved version**

The new cleaning wonder the so called **easyclean365+ Gun** ensures the most professional and efficient interior and exterior cleaning of all kinds of dirt in the car wash sector. From now on strenuous manual work together with different cleaning agents are not necessary anymore as the **easyclean365+ Gun** removes chocolate on seats, dirt in ventilation ducts and also brake dust on wheel rims by its technically mature technology. Thereby, it generates the cleaning efficiency of a rotary cutter - only a permanent compressed air connection for minimum 5.5 bar and a suitable cleaning agent are required and necessary. By the needed low water volume and the effect in depth of the dirt a speedy drying of the surfaces is guaranteed!

Save your **easyclean365+ Gun** today and become acquainted with its convincing performance!

**Technical specifications**

Working pressure 5.5 - 9.0 bar  
Air consumption 200 l/min



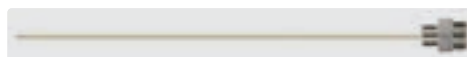
R+M Nr.	<input type="checkbox"/>	<input type="checkbox"/>
106 996 700	1/4" F	1 l

**Accessories easyclean365+ Gun**



Discharge funnel

R+M Nr.
106 996 710



Spray hose

R+M Nr.
106 996 711



Suction hose

R+M Nr.
106 996 717



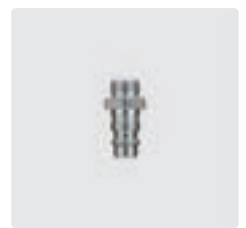
Weighted tube ass'y

R+M Nr.
106 996 712



Bottle 1 l

R+M Nr.
106 996 713



Plug for compressed air

R+M Nr.
555 30

**Disinfection cold fog device ST-83.1**

The brand new ST-83.1 cold fog hand tool is ideal for small applications for fogging of disinfectants, odor neutralizers or insecticides.

- » **Inexpensive** and safe application for hygienically germ-free cleaning of interiors to remove microorganisms, viruses and bacteria. Also for use on construction sites for dust deposition or mold removal
- » **No inhalation of the disinfectant solution** as rooms do not have to be entered
- » The finest nebulization of active ingredients comes into the smallest gaps and into the last corner

- » **A compressed air connection is required:**  
Inlet pressure 3 bar, 180-220 l / min.
- » **Extremely productive use:** (e.g. 1 liter for rooms with 60 m<sup>3</sup>, room size of approx. 25 m<sup>2</sup> or 5 - 7 vehicle compartments)



Disinfection cold fog air device ST-83. For compressed air connection 3 bar, 180-220 l / min. Stainless steel / plastic

R+M Nr.	D	U
200 083 500	0:7	1 l



**Better swirling:**  
Particularly suitable in smaller rooms such as passenger compartments.

**Two different fog nozzle inserts are included.**

**Larger throw range.**  
For the treatment of entire rooms or for targeted treatment at the air intake of ventilation systems.

**ST-83 cold fog hand tool accessories**

**ST-83 window bracket**



With elastomer protection rings. Stainless steel

R+M Nr.
200 083 400

**ST-83 adapter for canisters**



For 5 - 30 liter canisters. Incl. 0.5 m clear PVC hose for suction of chemicals, DN 4

R+M Nr.
200 083 200

**Exchangeable nozzle inserts**



Plastic. 10 nozzle inserts (0.5 - 2.0 mm). Incl. o-rings

R+M Nr.
200 163 340



## Sprayer

### Industry Line

The sprayer of the series Industry line are special devices for extraordinary difficult applications such as car wash, oil platforms or industrial cleaning applications.

They are resistant to lots of chemicals which are used in industry.

Due to the acid-resistant lance, the EPDM / Viton seals and the extremely durable high-pressure container the devices are designed for the most difficult cleaning applications. Safety for the user is absolutely guaranteed.

### Field of application

- » Oil industry
- » Chemical industry
- » Control of epidemics
- » Workshops and factories
- » Disinfection and rat control



R+M Nr.	Seal kit	⌀	ℓ	∅	ℓ	VPE
106 995 070	EPDM	2.0 kg	470 mm	220 mm	7 l	1/4
106 995 090	EPDM	2.2 kg	570 mm	220 mm	9 l	1/4
106 995 120	EPDM	2.4 kg	600 mm	220 mm	12 l	1/4
106 995 070 1	Viton	2.0 kg	470 mm	220 mm	7 l	1/4
106 995 090 1	Viton	2.2 kg	570 mm	220 mm	9 l	1/4
106 995 120 1	Viton	2.4 kg	600 mm	220 mm	12 l	1/4

### Spare parts Industry Line



Telescopic lance with handle 700 - 1,350 mm

R+M Nr.
106 995 500



Lance tip with nozzle 1.5 mm

R+M Nr.
106 995 558



Hose 1.7 m

R+M Nr.
106 995 501



Seal kit Viton

R+M Nr.
106 995 503

### Spare parts Master Line

Seal kit EPDM

R+M Nr.
106 995 508

Seal kit Viton

R+M Nr.
106 995 502

### Ergo Industry



The compression sprayer of the series Ergo Industry are modern hand pressure sprayer. Due to their user-friendly design and the excellent quality of their Viton seals they are the best on the market regarding technical solutions of compression sprayer.

### Equipment

- » Nozzle consisting of a regulator for defining the stream angle
- » Interior filter being placed at the flexible intake pipe. **Upside down spraying is possible**
- » Durably efficient pump
- » Precision dosing valve. **With transparent volume scale on the tank**
- » Ergonomic shape. **On-off button for spraying at the handle**
- » The sprayer can be hung up by means of the hand grip

R+M Nr.	ℓ	⌀	VPE
106 995 015 2	1.5 l	0.54 kg	1/12
106 995 020 2	2.0 l	0.60 kg	1/12

### Mini Line



The trigger sprayer of the series Mini line are used for manual spraying and sprinkling of plants in greenhouses, gardens, on terraces and balconies. The sprayer are equipped with technically advanced nozzles with adjustable stream angle. They are perfect devices for spraying liquid fertilizers, chemicals and for sprinkling water. All parts of the sprayer are made out of durable materials which are resistant to chemicals. The special spraying head of the Mini assures a very fine stream of liquid so that it does not weep. sealing: NBR

### Equipment

- » Precision valve for an ideal spraying of liquids
- » Ergonomic spraying head is fitted with an easy pusher for spraying
- » Filter armed at the little intake pipe

R+M Nr.	ℓ	⌀	VPE
106 995 005	0.5 l	0.10 kg	1/25
106 995 010	1.0 l	0.12 kg	1/60

### Sprayer

#### AXEL

After being filled (up to 2/3 l) and short pumping (up to 4 bar), the AXEL foam sprayer is immediately ready for use. Three more foam nozzles are included in the scope of supply. Depending on the foam carpet to be generated, they can be changed quickly. This is why this sprayer is unique in terms of its various fields of use. Thanks to the EPDM seals, the sprayer is perfectly suitable for a large number of cleaning agents/shampoos. When removing the foam nozzle inserts, AXEL 2000/3000 can be used like a normal pressure sprayer, too. This is why the AXEL foam sprayers are probably the best foam sprayers of this type available in the market.

#### Equipment:

- » incl. 3 more foam nozzles with exchangeable pads
- » EPDM seal kit



R+M Nr.	📏	⚖️	VPE
106 995 586	1.0 l	0.86 kg	1/12
106 995 587	2.0 l	0.89 kg	1/12

#### titan

Titan is a modern and comfortable knapsack sprayer with viton seals.

Titan knapsack is designed to make their exploitation and operation easy and comfortable. The lever can be adapted to either side of the sprayer to suit both right and left hand operators.

#### Equipment:

- » telescopic wand 75-135 cm
- » light-weight, hermetic (no-hole at the base) tank
- » transparent walls with a scale
- » strong, durable base
- » high efficient pump with glass balls inside the piston
- » 2 nozzles with regulation of stream angle  
MR 1.5 (1.5 mm), MR 1.0 (1.0 mm)
- » push-in valve (thumb control for instant on/off)
- » safety valve
- » in line filter
- » reinforced PCV hose 130 cm
- » extra spare parts and silicone smear enclosed



R+M Nr.	⚖️	H x W x D	📏	VPE
106 995 312	3.6 kg	610 x 400 x 150 mm	12 l	1
106 995 316	4.2 kg	610 x 410 x 180 mm	16 l	1
106 995 320	4.4 kg	610 x 410 x 205 mm	20 l	1

Symbols ⚖️ weight 📏 height ⏜ diameter VPE packing unit 📏 volume

## Sprayer

### VX ALKA battery operated, mobile

The spray devices from our VX ALKA series are special devices for disinfecting and applying cleaning agents.

Long working hours are possible thanks to the battery and annoying pumping is no longer necessary.

#### Disinfection of machines and systems.

The mobile sprayer is ideal when disinfection has to be carried out in a large area. The large capacity of 20 liters and the powerful battery enable a long period of use without the mobile device having to be carried.

Use in washing systems, on drilling rigs or for special operations - these are areas of application for which the VX ALKA series was created.

They are resistant to a wide variety of chemicals used in industry.

The acid-resistant lance, the seals and the ultra-durable pressure tank guarantee that the device can cope with even the most difficult tasks and that the user is absolutely safe.

#### Areas of application :

- » Oil industry
- » Chemical industry
- » Control of the epidemic
- » Workshops and businesses
- » Disinfection and pest control
- » Car washes



R+M Nr.		H x W x D		VPE
106 995 612	6,8 kg	340 x 240 x 640 mm	12 l	1

### RX ALKA battery operated, mobile

The spray devices from our RX ALKA series are special devices for disinfecting and applying cleaning agents. Long working hours are possible thanks to the battery and annoying pumping is no longer necessary.

#### Disinfection of machines and systems.

The mobile sprayer is ideal when disinfection has to be carried out in a large area. The large capacity of 12 liters and the powerful battery enable a long period of use without the mobile device having to be carried.

The backpack system enables fatigue-free and ergonomic work.

Use in washing systems, on drilling rigs or for special operations - these are areas of application for which the RX ALKA series was created. They are resistant to a wide variety of chemicals used in industry. The acid-resistant lance, the seals and the ultra-durable pressure tank guarantee that the device can cope with even the most difficult tasks and that the user is absolutely safe.

#### Areas of application :

- » Oil industry
- » Chemical industry
- » Control of the epidemic
- » Workshops and businesses
- » Disinfection and pest control
- » Car washes



R+M Nr.		H x W x D		VPE
106 995 620	8,2 kg	400 x 350 x 910 mm	20 l	1

**Sprayer with pressure tank**



- » The filling is very easy and effected by means of a plastic hopper to fill in.
- » 1/4" M connection to be attached at the compressed-air supply.
- » Max. 8 bar. Equipped with a default safety valve.
- » Chemically resistant hose 10 m. Spray lance 600 mm with nozzle. Fill level indication.
- » Suitable for the use in the car wash and industry.
- » **Available from 10 pieces in other RAL colors.**

R+M Nr.	TYP	📦
106 024 500	coated steel	24 l
106 050 500 🚚	coated steel	50 l
106 100 500 🚚	coated steel	100 l

**Foamer with pressure tank**



- » The filling is very easy and effected by means of a plastic hopper to fill in.
- » 1/4" M connection to be attached at the compressed-air supply.
- » Max. 8 bar. Equipped with a default safety valve.
- » Chemically resistant hose 10 m. Foam lance 600 mm with nozzle head and 4 nozzles. Fill level indication.
- » Integrated dosing unit to realise the desired air/foam mixture. Permanent pressure exposure is required in order to achieve an uniform foam result.
- » Suitable for the use in the car wash and industry.
- » **Available from 10 pieces in other RAL colors.**

R+M Nr.	TYP	📦
106 024 550	coated steel	24 l
106 050 550 🚚	coated steel	50 l
106 100 550 🚚	coated steel	100 l

For storing and applying Group 2 liquids according to Pressure Equipment Directive 2014/68/EU, Article 13:  
Not suitable for liquids of group 1 and especially strong alkaline solution and acids.

**Accessories for sprayer and foamer**

Foam hoses	Spray hoses	Foam head	Nozzles			
Bayonet. 10 m	1/4" M. 10 m	1/2" M	Foamer. 55° 55	Foamer. 60° 25	Sprayer. 110° 04	Sprayer. 110° 045
R+M Nr. 106 901 01	R+M Nr. 106 911 01	R+M Nr. 106 906 0	R+M Nr. 609 805 59	R+M Nr. 609 802 59	R+M Nr. 609 110 04	R+M Nr. 609 110 045

Symbols TYP type 📦 volume 🚚 shipment by truck



## Sprayer with pressure tank



- » The filling is very easy and effected by means of a plastic hopper to fill in.
- » 1/4" M connection to be attached at the compressed-air supply.
- » Max. 8 bar. Equipped with a default safety valve.
- » Chemically resistant hose 10 m. Spray lance 600 mm with nozzle. Fill level indication.
- » Suitable for the use in the food industry, car wash and industry.

## Foamer with pressure tank



- » The filling is very easy and effected by means of a plastic hopper to fill in.
- » 1/4" M connection to be attached at the compressed-air supply.
- » Max. 8 bar. Equipped with a default safety valve.
- » Chemically resistant hose 10 m. Spray lance 600 mm with nozzle. Fill level indication.
- » Integrated dosing unit to realise the desired air/foam mixture. Permanent pressure exposure is required in order to achieve an uniform foam result.
- » Suitable for the use in the food industry, car wash and industry.

R+M Nr.	TYP	Capacity
106 024 600	stainless steel AISI 304, V2A	24 l
106 050 600	stainless steel AISI 304, V2A	50 l
106 100 600	stainless steel AISI 304, V2A	100 l

R+M Nr.	TYP	Capacity
106 024 650	stainless steel AISI 304, V2A	24 l
106 050 650	stainless steel AISI 304, V2A	50 l
106 100 650	stainless steel AISI 304, V2A	100 l

For storing and applying Group 2 liquids according to Pressure Equipment Directive 2014/68/EU, Article 13:  
Not suitable for liquids of group 1.

## Accessories for sprayer and foamer

Nozzle	Nozzle filters	Reduction nipples	Adaptor	Nut for nozzle	Seal		
Sprayer. 100° 03	50 MESH	1/4" F : 1/2" M. Brass	1/4" F : 1/2" M. Stainless steel	Bayonet : 1/4" M	Plug DN 7.4 : 1/4" F	1/2" M	
R+M Nr. 609 110 03	R+M Nr. 106 909 2	R+M Nr. 575 40	R+M Nr. 575 49	R+M Nr. 106 900 1	R+M Nr. 554 714	R+M Nr. 106 909 3	R+M Nr. 106 909 4



**easyclean365+ microfibre cloths**



Excellent water absorption and high absorption speed by polyurethane skin which treats the surfaces with care.

According to the principle "completely clean with only one wipe". Even spots like fingerprints are removed in the twinkling of an eye and the surfaces gleam in mint condition.

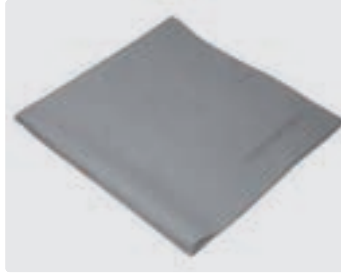
Washable and usable several times.

Water drops on the surfaces after cleaning are a thing of the past and the use of any detergents is dropped.

Due to the interwoven and strong texture the microfibre cloth is tear-resistant. Furthermore, it is lint-free, antibacterial, very kind to your skin and anti-allergic.

Composition: PET/PA microfibre, high-tech polyurethane.

**easyclean365+ microfibre cloth WA 1400**

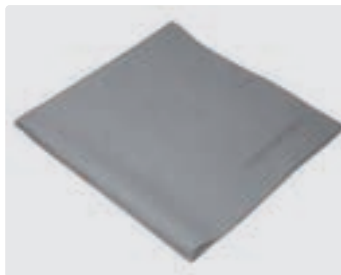


The extremely absorbent drying wonder! Ideal for the professionally exterior cleaning of vehicles, car finish, motorcycles, catering trade, kitchen & bathroom. Single pack with European perforation and product code.

Size: 37.5 x 40 cm

R+M Nr.	(M)	(VPE)
951 700 611	PET/PA microfibre, high-tech polyurethane	10
951 700 650	PET/PA microfibre, high-tech polyurethane	50

**easyclean365+ microfibre cloth WA 1400**

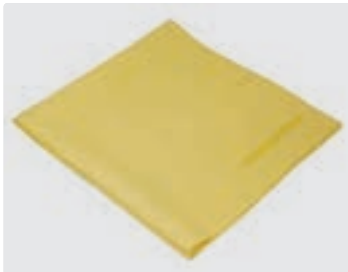


The extremely absorbent drying wonder! Ideal for the professionally exterior cleaning of vehicles, car finish, motorcycles, catering trade, kitchen & bathroom.

Size: 44 x 50 cm

R+M Nr.	(M)	(VPE)
951 700 601	PET/PA microfibre, high-tech polyurethane	10
951 700 605	PET/PA microfibre, high-tech polyurethane	50

**easyclean365+ microfibre cloth WA 600**



The streak-free cleaning wonder! Ideal for the professionally interior cleaning of vehicles, car finish, motorcycles, catering trade, kitchen & bathroom. Single pack with European perforation and product code.

Size: 35 x 40 cm

R+M Nr.	(M)	(VPE)
951 700 710	PET/PA microfibre, high-tech polyurethane	10
951 700 750	PET/PA microfibre, high-tech polyurethane	50

**easyclean365+ microfibre cloth WA 1400**



The extremely absorbent drying wonder! Ideal for the professionally exterior cleaning of vehicles, car finish, motorcycles, catering trade, kitchen & bathroom.

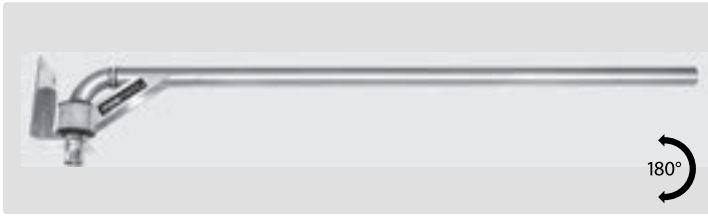
Size: 45 x 50 cm

R+M Nr.	(M)	(VPE)
951 700 510	PET/PA microfibre, high-tech polyurethane	10
951 700 550	PET/PA microfibre, high-tech polyurethane	50

## Air spinner system, Mosmatic

The air spinner system is a novelty used in the self-service car wash. It is especially designed for outdoor vacuum cleaner and self-service drying plants. The air spinner system eliminates the use of floor hoses so that the user has more room to move.

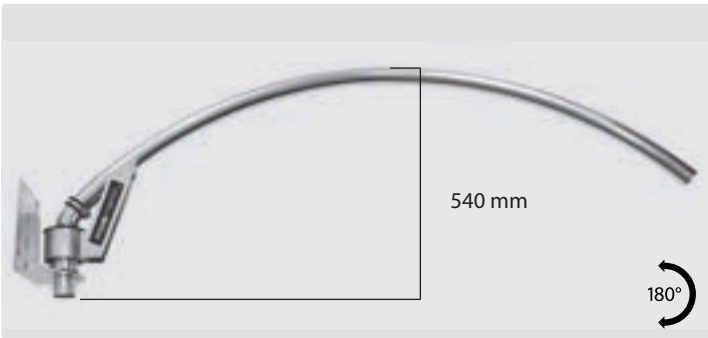
### Air system spinner LU-W for wall fastening



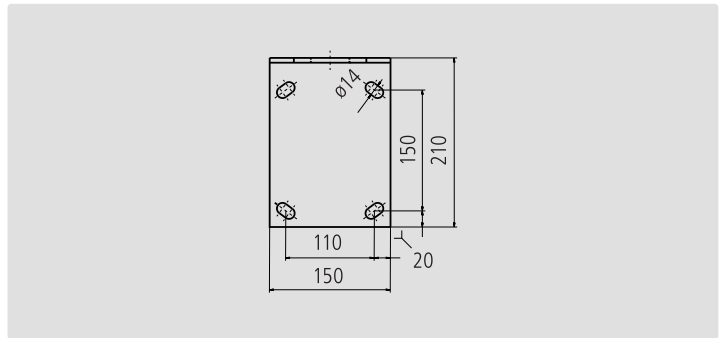
R+M Nr.	↔	M	⊙	⊞
108 603 11	1,600 mm	stainless steel	⊙ 50 mm	8.0 kg



R+M Nr.	↔	M	⊙	⊞
108 609 25	1,000 mm	stainless steel	⊙ 40 mm	7.0 kg

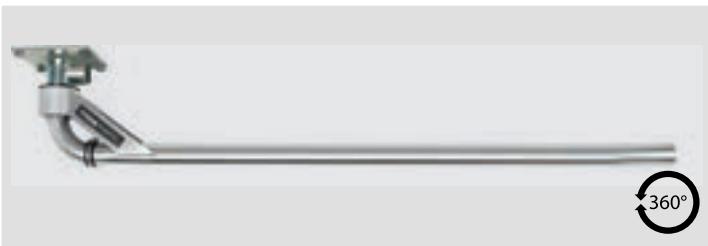


R+M Nr.	↔	M	⊙	⊞
108 609 58	1,750 mm	stainless steel	⊙ 50 mm	8.6 kg

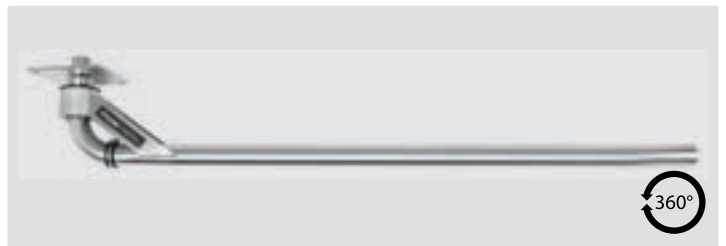


Wall plate

### Air system spinner LU-D for ceiling fastening



R+M Nr.	↔	M	⊙	⊞
108 603 10	1,600 mm	stainless steel	⊙ 50 mm	8.0 kg



R+M Nr.	↔	M	⊙	⊞
108 603 13	1,600 mm	stainless steel	⊙ 50 mm	8.0 kg



R+M Nr.	↔	M	⊙	⊞
108 603 26	1,550 mm	stainless steel	⊙ 50 mm	8.2 kg

Symbols ↔ length M material ⊙ thread ⊞ weight ⊘ diameter VPE packing unit

**Air spinner system Mosmatic**

Air system spinner LU-B for floor fastening



Spinner with a moving radius of 360°. Height 3,100 mm

R+M Nr.	↔	M	⊙	⊞
108 603 12	1,600 mm	stainless steel	⊙ 50 mm	18.0 kg

**90° elbow pipe**



1 pipe clamp

R+M Nr.	⊙
108 603 14	⊙ 50 mm

**Extension**



1 pipe clamp. 1,000 mm

R+M Nr.	⊙
108 603 15	⊙ 50 mm

**Rotating socket**



1 pipe clamp

R+M Nr.	⊙
108 603 23	⊙ 50 mm

**Clip flue**



2 pipe clamps. ↔ Max. 1.5 m

R+M Nr.	⊙
108 603 20	⊙ 50 mm

**System is also available in 40 mm.**

**Self-service air dryer Mosmatic**



**To easily dry in a quick and uncomplicated way!**

Substantially reduces water spots, no impairment of the paint – both in summer and winter. The strong blower and the especially moulded air nozzle guarantee a polished and spotless result. It dries the smallest gaps such as door joints, wing mirrors, radiator grills etc. and really eliminates water spots. Combined with a Mosmatic air spinner system the dryer is for sure an interesting and very profitable attraction at your wash bay.

**Attention:** Connection should be carried out by authorised staff only!

**Specifications**

Dimension drying unit	533 mm x 533 mm.
Dimension universal plate	421 mm x 421 mm



Drying unit with 75 cm hose connection ⊙ 50 mm, universal plate for mounting the dryer, special air nozzle with 4.5 m hose connection ⊙ 50 mm, wall holder for mounting the special air nozzle, information and operation sign.

R+M Nr.	V	W
108 603 96	220 - 240 Volt 50 / 60 Hz	2 motors à 1,600 Watt



**Symbols** ⊙ diameter ⊕ inlet ⊖ outlet ℃ temperature P pressure ⊙ thread M material ↔ length ⊞ weight

## Underbody lance ST-97.1

Material stainless steel. Rolls: POM. Pipe: stainless steel, plastic-coated. Max. 40 l/min. 100 °C. 3 nozzles 1/8" M are required. Spraying angle of 25°



R+M Nr.	⊘	⊖	spray gun	P	↔	⊘ rolls
200 097 801	3/8" F	3 x 1/8" F	ST-601 standard	180 bar	1,700 mm	60 mm
200 097 803	3/8" F	3 x 1/8" F	ST-601 weep	180 bar	1,700 mm	60 mm
200 097 802	3/8" F	3 x 1/8" F	ST-601 freeze stop	180 bar	1,700 mm	60 mm

## Hurricane Mosmatic

### Hurricane

- » Ergonomical and versatile
- » Requires 2 HP-nozzles
- » Incl. HP gun
- » Easy to maneuver
- » High rpm stainless steel swivel features reinforced self lubricated stainless steel ball bearings for improved performance. The dual spring based carbide seal system, guarantees long lasting operation under tough conditions

Manual underbody washing made easy. The handy Hurricane is versatile as for example for cars, trucks, agricultural and construction machines. The object to be cleaned does not even need to be on a lifting platform.



R+M Nr.	⊘	min. clearance	⊖	°C	P	castor-⊘	⊘	⊖
108 806 91	520 mm	165 mm	2 x HP-nozzles 15°, 1/8"	120°	275 bar	1x 60, 2 x 100 mm	3/8" F	12.4 kg
108 806 93 *	520 mm	230 mm	2 x nozzle tips 15°	120°	275 bar	1x 60, 2 x 100 mm	3/8" F	15.1 kg

### Hurricane Flip, 2 - in - 1 Mosmatic

The Mosmatic Hurricane Flip can be used as surface cleaner and underbody wash, all in one unit. The Hurricane Flip can be converted from a floor cleaner to an undercarriage cleaner in just a few simple steps. The proven toggle joint makes easy and effortless cleaning possible. Positioned on the side of the housing, this special design enables cleaning under the vehicle. With 3 stainless steel castors ø 60 mm. Incl. 2 high-pressure nozzles ex works for e.g. 15 l / min. at 130 bar or 18 l/min. at 175 bar. Max. 275 bar / 120 °C.



Thanks to the low profile, the vehicle does not need to be lifted on a platform to be cleaned.



R+M Nr.	⊘	⊘	P
108 786 02	300 mm	3/8" F	max. 275 bar

\* Delivery about 3 weeks



**Surface cleaner with air recovery system and integrated gum remover, Mosmatic**



- » Such as the other devices of the FL-AH series the new FL-AH-KAU is a record performance regarding quality, finish and excellent cleaning result. We do not know anybody who has not yet seen places such as railway stations, stadiums, schools and many more which are covered with hundreds of chewing gums. This development is the best solution against this appearance!
- » In order to ensure an effective removal of the gums the special nozzle is positioned behind the stainless steel cap. The surface is cleaned in a conventional way by means of the gun which is mounted at the right side. In case of removing stubborn dirt e.g. chewing gums the special nozzle is switched on by the gun mounted at the left side. The gums are cut up and totally removed by the hp jets and finally sucked in.
- » By means of four 100 mm plastic rolls the surface cleaner can be easily moved.
- » The frame as well as all mounting parts made out of stainless steel offer additional stability. Best cleaning results are achieved due to the height adjustable housing.
- » The swivel has reinforced self-lubricating stainless steel ball bearings and a dual spring based carbide seal system especially designed for higher revs. This combination guarantees a very long durability.
- » 2 spray guns ST-2605 equipped with the patented LTF technology, 2 hp nozzles 15° 03 and a special nozzle for the removal of chewing gums are included. Further nozzle sizes are available on request.
- » Suitable for 50 mm suction hose. Suction hose is excluded.
- » Max. 350 bar / 120 °C. Min. 15 l/min / 250 bar

R+M Nr.	∅	Ⓢ	Ⓢ
108 809 61	520 mm	3/8" F	20 kg

**LTF - Low Trigger Force 90 % reduced holding force and 40 % reduced trigger force against usual market guns.**

**Floor cleaner Mosmatic**

**FL-ABB 200**



Stainless steel. 2 flat stream nozzles 15° 1/8" M are required.  
Min. 18 l/min / 150 bar.  
Max. 350 bar / 120 °C

- » Floor cleaner - graffiti removing by means of suction system
- » Field of application: graffiti removing, restoration of different surfaces, maintenance of buildings and exclusively designed for applications with high water pressure
- » Suitable for applications from the outside e.g. concrete, brick, lime stone buildings or wooden surfaces
- » Suitable for 50 mm suction hose
- » Our spray gun ST-2605 (202 605 500) equipped with the patented LTF system is recommended for effortless cleaning applications
- » The high pressure gun and nozzles are excluded

R+M Nr.	∅	Ⓢ	Ⓢ
108 780 35	200 mm	1/4" F	2.7 kg

**FL-EB 200**



Stainless steel. 2 flat stream nozzles 15° 1/8" M are required.  
Max. 275 bar / 120 °C

- » Floor cleaner - economy
- » This multifunction floor cleaner is especially designed for all applications such as brick-lined walls, boat walls, bases, stairs, sidewalks, windows etc.
- » Our spray gun ST-2605 (202 605 500) equipped with the patented LTF system is recommended for effortless cleaning applications
- » The high pressure gun and nozzles are excluded

R+M Nr.	∅	Ⓢ	Ⓢ
108 780 02	200 mm	1/4" F	2.7 kg



**easywash365+ vertical boom**



**Absolutely new in the car wash industry!**

- » Completely made out of stainless steel
- » Rotatable by 360°
- » Solid construction
- » Spring action

The vertical boom for single washing bays! This cost-efficient solution is ideal for smaller self-service motorcycle, bicycle or car washing bays. It is not absolutely imperative that the boom is incorporated in the technical board as it can be easily mounted on the wall. Therefore, the vertical boom is also the perfect solution for areas with a shortage of space. Due to its compact design not much room is needed, but however a high degree of mobility is given. The radius of 360° as well as the built-in spring guarantee best possible mobility when carrying out the washing.

The **easywash365+** vertical boom is completely made out of stainless steel. A mounting bracket is included in the consignment.

**Technical specifications:**

Height 2,008 mm.  
Weight 4.4 kg

R+M Nr.  
108 607 01

**easywash365+ suction swivel arm**



**New for self-service vacuum cleaning**

- » entirely made out of stainless steel
- » solid construction
- » suspension

The vertical **easywash365 + suction swivel arm** for self-service! This cost-effective solution is ideal for single suction places. In this case, the arm does not necessarily have to be integrated into the cabinet technology, but can be easily mounted on a wall. Perfect if space might be limited, because due to its construction this boom needs little space and bending over offers a lot of mobility.

The built-in spring prevents kinking of the suction hose and allows a barrier-free handling with optional freedom of mobility.

The vertical **easywash365 + suction swivel arm** is completely made out of stainless steel and is supplied including a mounting bracket.

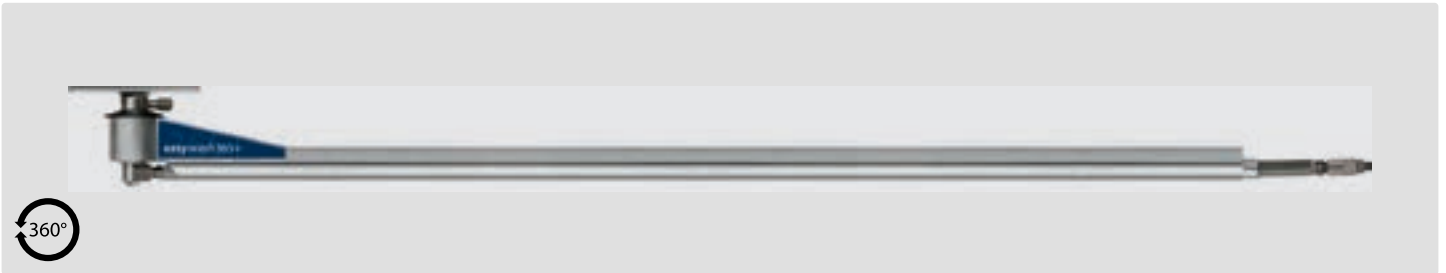
Height 2,320 mm.  
Tube height 1,500 mm.  
Internal tube diameter of 65 mm.  
Weight 10.1 kg

R+M Nr.  
109 001 500

Symbols inlet weight diameter

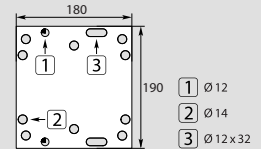
## easywash365+ car wash ceiling booms

## easywash365+ standard

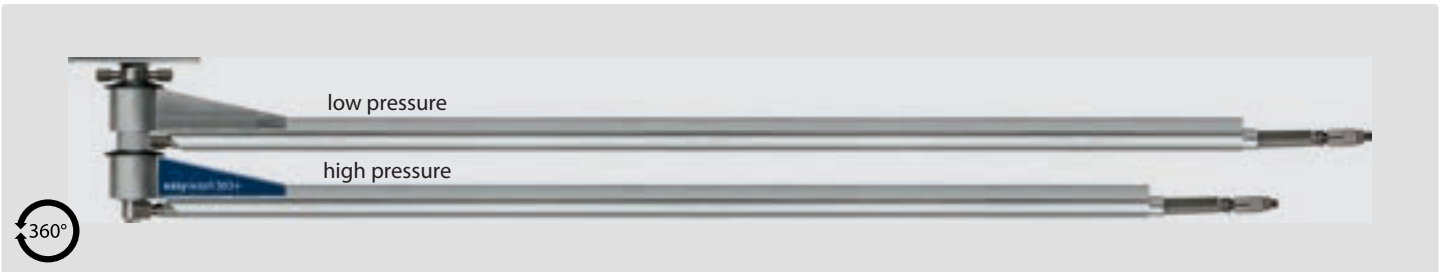


Stainless steel. Ready for installation with two integrated swivels and professional high pressure hose with spring and integrated hose bend restrictors. Axle 2-ball bearings and permanently lubricated. Max. 275 bar / 90 °C.

R+M Nr.	↔	⊙	⊙	⊞
109 766 954	1,750 mm	1/4" F	1/4" M	8.0 kg

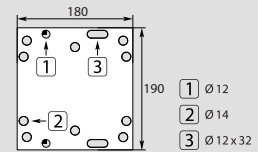


## easywash365+ double ceiling booms



Stainless steel. Ready for installation with three integrated swivels, professional high pressure hose with spring and integrated hose bend restrictors. Axle 2-ball bearings and permanently lubricated. Especially developed for 2 different application mediums. Max. 275 bar / 90 °C

R+M Nr.	↔	⊙	⊙	⊞
109 767 921 	1,600 mm / 1,750 mm	1/4" F	1/4" M	13.5 kg



Symbols ⊙ inlet ⊙ outlet ⊞ weight ↔ length  shipment by truck

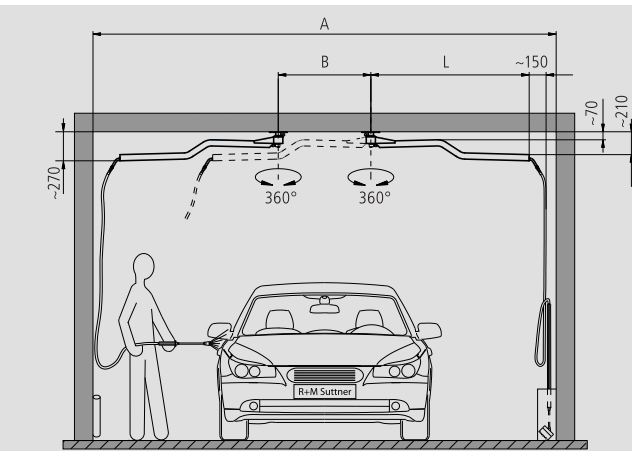
## easywash365+ car wash ceiling booms

### easywash365+ car wash ceiling boom-Z



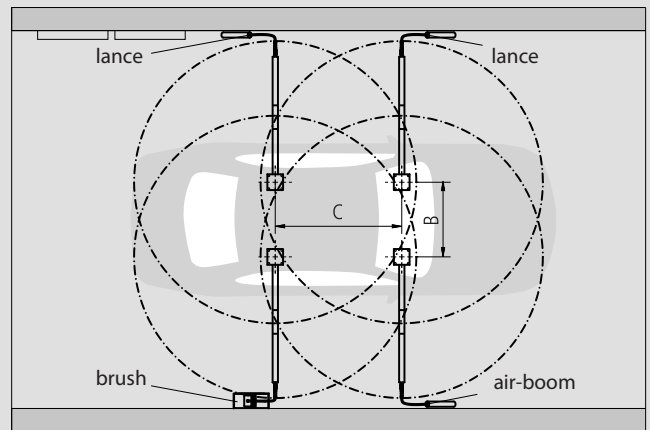
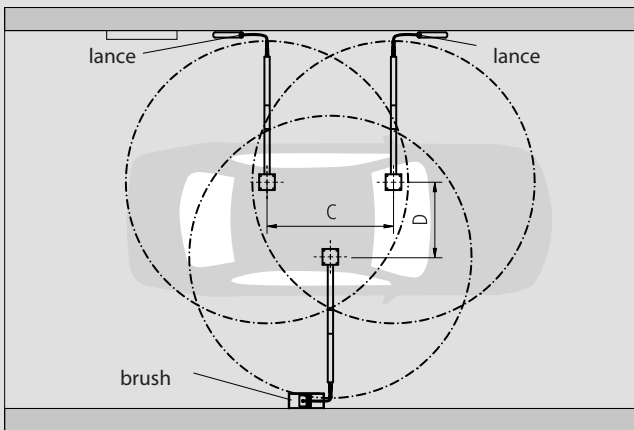
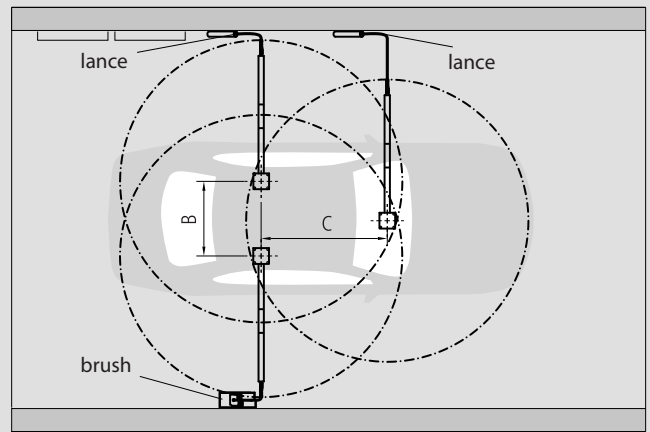
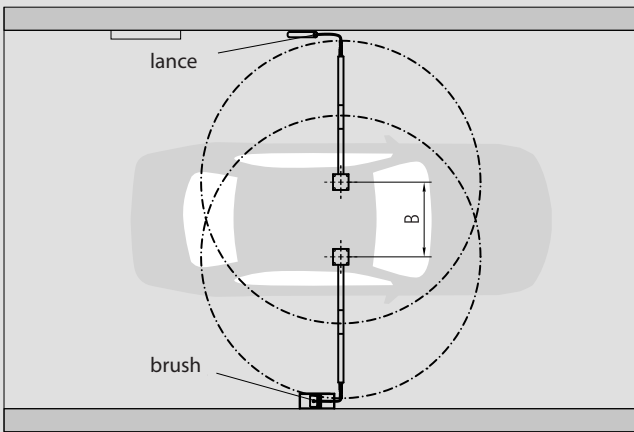
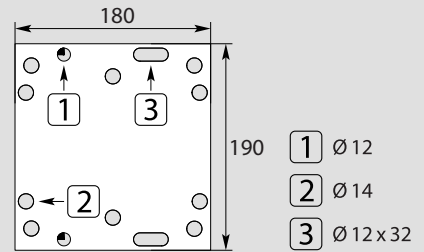
Stainless steel. Ready for installation with two integrated swivels and professional high pressure hose with spring and integrated hose bend restrictors. Axle 2-ball bearings and permanently lubricated. Especially designed for using two booms side by side.  
Max. 275 bar / 90 °C

<b>R+M Nr.</b>				
109 765 926	1,550 mm	1/4" F	1/4" M	8.0 kg



Mounting example for ceiling boom-Z

- A = 4,600 mm
- B = 900 mm
- C = 1,500 mm
- D = 750 mm
- L = 1,550 mm



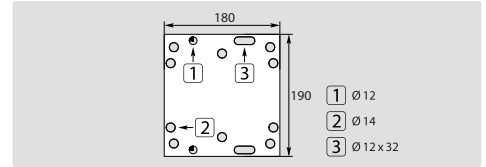
easywash365+ car wash ceiling booms with suspension

easywash365+ standard



Stainless steel. Ready for installation with two integrated swivels and professional high pressure hose with spring and integrated hose bend restrictors. Axle 2-ball bearings and permanently lubricated. Max. 275 bar / 90 °C.

R+M Nr.	↔	Ⓞ	↻	Ⓢ
109 766 972	1,750 mm	1/4" F	1/4" M	8.0 kg

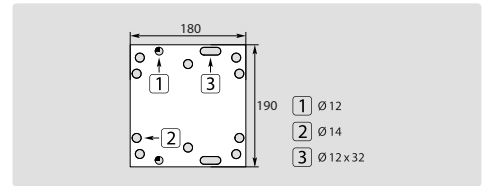


easywash365+ car wash ceiling boom-Z



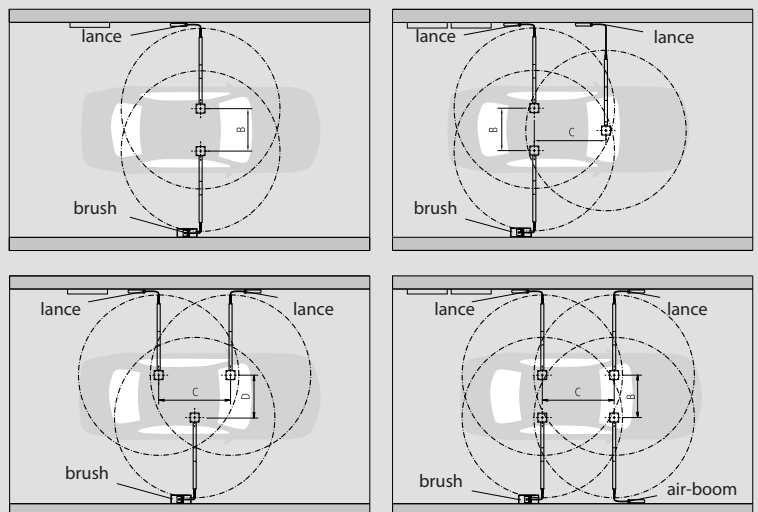
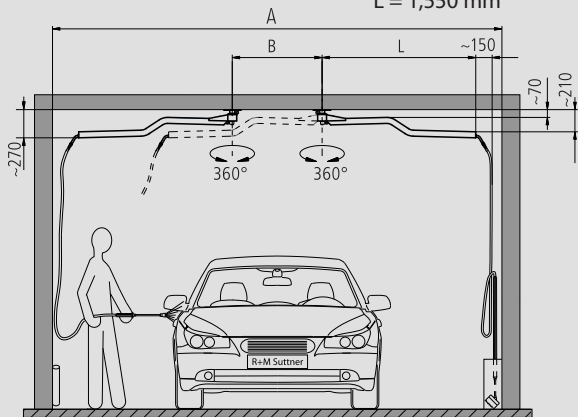
Stainless steel. Ready for installation with two integrated swivels and professional high pressure hose with spring and integrated hose bend restrictors. Axle 2-ball bearings and permanently lubricated. Especially designed for using two booms side by side. Max. 275 bar / 90 °C

R+M Nr.	↔	Ⓞ	↻	Ⓢ
109 765 978	1,550 mm	1/4" F	1/4" M	8.0 kg



Mounting example for ceiling boom-Z

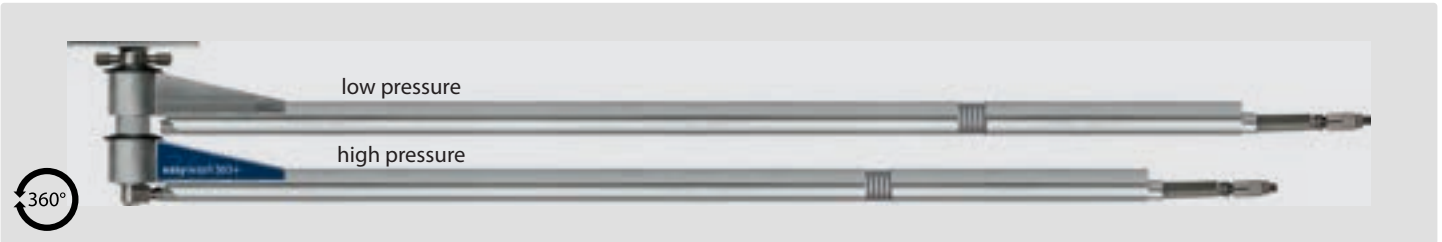
- A = 4,600 mm
- B = 900 mm
- C = 1,500 mm
- D = 750 mm
- L = 1,550 mm



Symbols Ⓞ inlet ↻ outlet Ⓢ weight ↔ length

## easywash365+ car wash ceiling booms

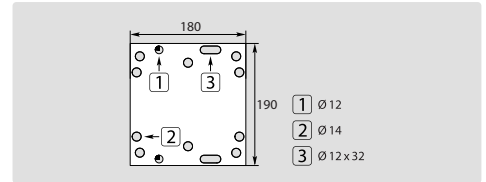
### easywash365+ double ceiling booms with suspension



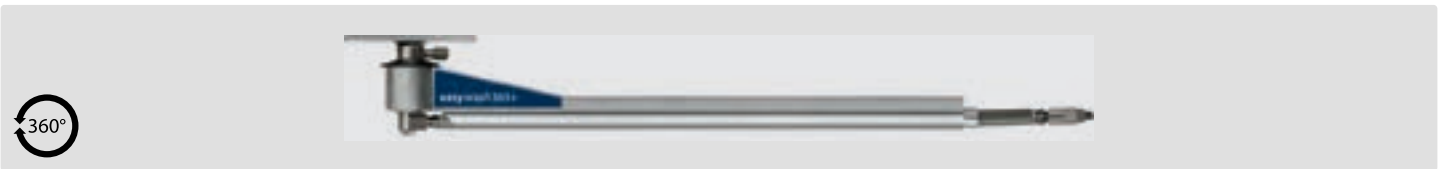
Stainless steel. Ready for installation with three integrated swivels, professional high pressure hose with spring and integrated hose bend restrictors. Axle 2-ball bearings and permanently lubricated. Especially developed for 2 different application mediums.

Max. 275 bar / 90 °C

R+M Nr.	↔	⊕	⊖	⊞
109 763 904	1,600 mm / 1,750 mm	1/4" F	1/4" M	13.5 kg



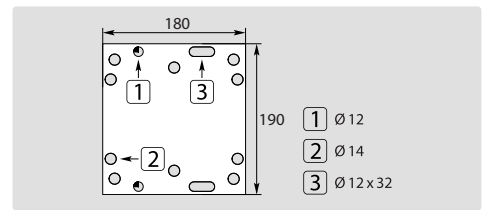
### easywash365+ motorcycle ceiling booms



Stainless steel. Ready for installation with two integrated swivels and professional high pressure hose with spring and integrated hose bend restrictors. Axle 2-ball bearings and permanently lubricated. Especially designed for using in motorcycle bays.

Max. 275 bar / 90 °C

R+M Nr.	↔	⊕	⊖	⊞
109 766 956	850 mm	1/4" F	1/4" M	5.9 kg



## Swivels for easywash365+ ceiling booms



1/4" M BSP : 3/8" F NPT

R+M Nr.
108 409 26



1/4" M BSP : 3/8" F NPT

R+M Nr.
108 329 27

## Wall mounts



Stainless steel V2A / AISI 304. For easywash365+ and Mosmatic ceiling booms

R+M Nr.
109 721 047

## Positioner



Positioner with magnet. By means of a positioning device the Mosmatic ceiling boom-Z can easily be parked in the desired position.

R+M Nr.
108 659 11

## Replacement hoses

### easywash365+

Hoses for easywash365+ ceiling booms / \*\*ceiling boom-Z

R+M Nr.	↔
340 144 000 994 9	850 mm
340 144 001 694 9**	1,550 mm
340 144 001 744 9	1,600 mm
340 144 001 894 9	1,750 mm
340 144 002 034 9	2,050 mm

### Mosmatic

Hoses for Mosmatic ceiling booms / \*ceiling boom-Z incl. replacement spring

R+M Nr.	↔
345 176 001 578*	1,450 mm
346 176 001 67	1,550 mm
345 176 001 678*	1,550 mm
346 176 001 72	1,600 mm
346 176 001 87	1,750 mm
345 176 001 878*	1,750 mm
346 176 002 00	1,900 mm
346 176 002 15	2,050 mm
346 176 002 35	2,250 mm
346 176 002 60	2,500 mm

## Replacement spring

### easywash365+



Replacement spring for easywash365+ ceiling booms

R+M Nr.
108 901 858

### Mosmatic



Replacement spring for Mosmatic ceiling booms

R+M Nr.
108 375 70



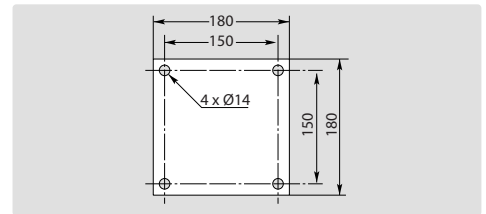
Mosmatic car wash ceiling booms

Mosmatic Ceiling boom/ Wall boom extension



Stainless steel. This classic, straight ceiling boom is used in numerous industrial areas, such as truck washing, food, manufacturing or assembly. A real all-rounder that can be used in many ways. For the use of liquids, gases or air. 1/2" throughout. Max. 150 bar / 120 °C.

Attention: Delivery time of approx. 2 weeks!



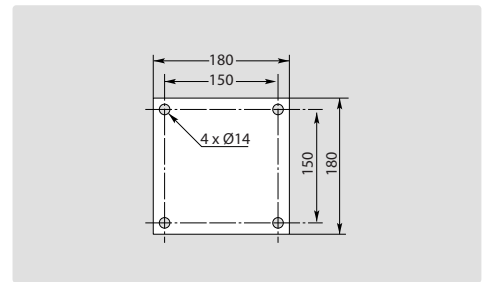
R+M Nr.	↔	⌚	⌚	⊞
108 664 11	1,450 mm	1/2" F	1/2" M	10,2 kg

Mosmatic double ceiling booms with insulated high pressure hoses



Stainless steel. Ready for installation with three integrated swivels, professional high pressure hose with spring and integrated hose bend restrictors. Axle 2-ball bearings and permanently lubricated. Especially developed for 2 different application mediums. Max. 275 bar / 90 °C.

Attention: Delivery time of approx. 2 weeks!



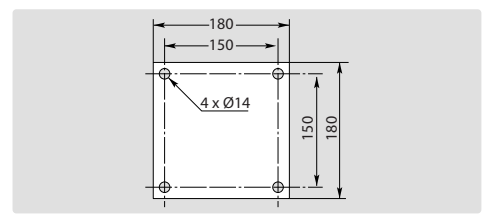
R+M Nr.	↔	⌚	⌚	⊞
108 674 23	1,750 mm / 1,900 mm	1/4" F	1/4" M	19.2 kg
108 674 33	1,900 mm / 2,050 mm	1/4" F	1/4" M	19.5 kg
108 674 43	2,050 mm / 2,250 mm	1/4" F	1/4" M	19.8 kg
108 674 53	2,250 mm / 2,500 mm	1/4" F	1/4" M	21.1 kg

Mosmatic car wash ceiling boom-Z with insulated high pressure hose



Stainless steel. Ready for installation with two integrated swivels. Especially designed for using two booms side by side. Insulated high pressure hose. Max. 275 bar / 90 °C.

Attention: Delivery time of approx. 2 weeks!



R+M Nr.	↔	⌚	⌚	⊞
108 650 11	1,550 mm	1/4" F	1/4" M	9.9 kg

## Mosmatic car wash ceiling booms with LED

- » Modern visual effects
- » Visualisation of the wash cycles
- » Additional lighting for the wash bay
- » Stand out above competition
- » **Delivery about 3 weeks**

The worlds first for the self-service car wash. The LED Boom can be synchronized with your wash cycle to visualize your wash program. The LED ceiling boom is not only an eye-catcher for self-service car washes, but also provides additional lighting for the bay adding safety for your clients. This is product should be installed by a certified electrician.



### Mosmatic standard with LED



Ceiling boom with ball bearing swivels. Maintenance-free. Connection with swivel

R+M Nr.	M	↔	P	⊕	⊖	V	LED/m	IP code	light intensity	°C	⊞
108 662 23	stainless steel	1,750 mm	275 bar	1/4" F	1/4" M	24	30	IP 66	120 lx	90° C	10.2 kg

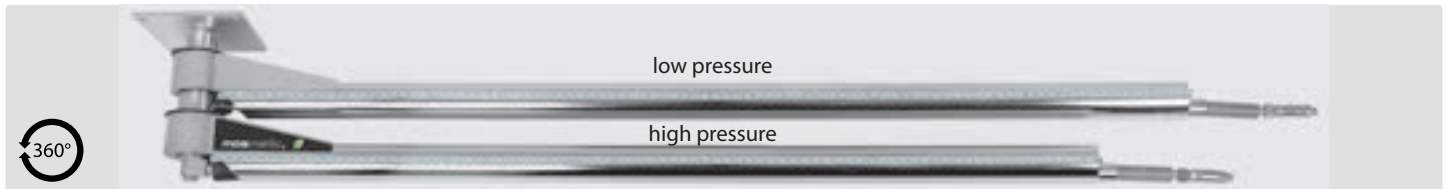
### Mosmatic car wash ceiling boom-Z with LED



Ready for installation with two integrated swivels. Especially designed for using two booms side by side. Insulated high pressure hose

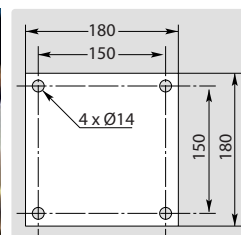
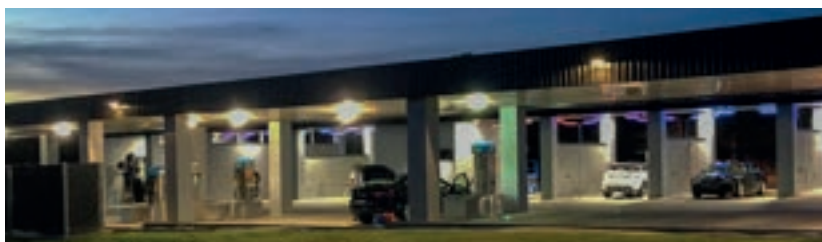
R+M Nr.	M	↔	P	⊕	⊖	V	LED/m	IP code	light intensity	°C	⊞
108 652 13	stainless steel	1,550 mm	275 bar	1/4" F	1/4" M	24	30	IP 66	120 lx	90° C	10.1 kg

### Mosmatic double ceiling booms with LED



Ready for installation with three integrated swivels, professional high pressure hose with spring and integrated hose bend restrictors. Axle 2-ball bearings and permanently lubricated. Especially developed for 2 different application mediums

R+M Nr.	M	↔	P	⊕	⊖	V	LED/m	IP code	light intensity	°C	⊞
108 676 13	stainless steel	1,600 / 1,750 mm	275 bar	1/4" F	1/4" M	24	30	IP 66	120 lx	90° C	18.9 kg



### LED-Controller

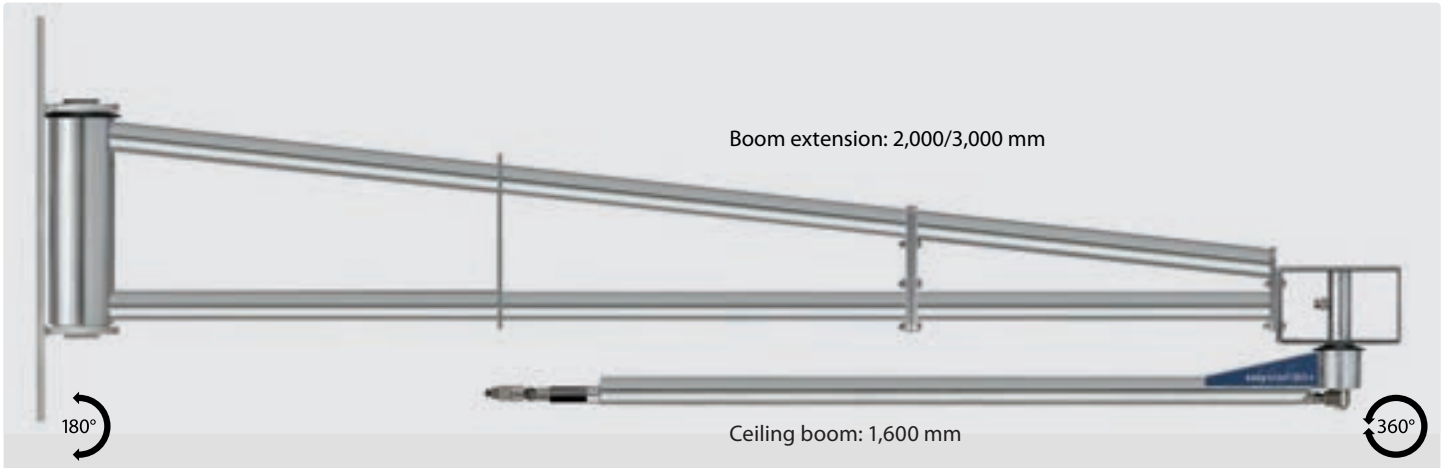
Controller, power supply, remote control, receiver with housing. For max. 2 booms

R+M Nr.

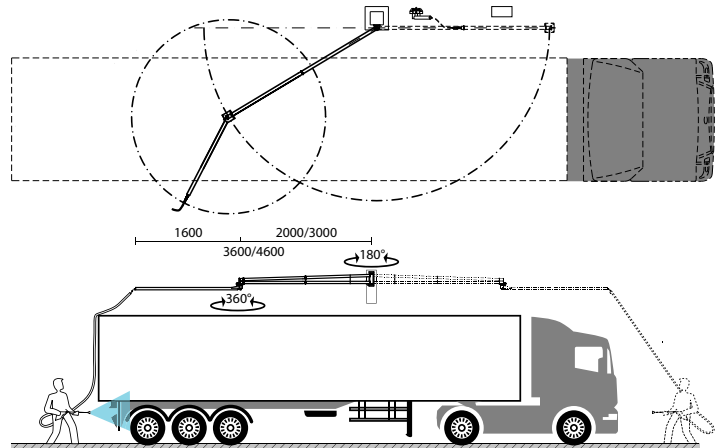
108 659 75

**easywash365+ wall boom extension with ceiling boom**

**Wall boom extension with ceiling boom**



- » Designed for washing large vehicles
- » Ceiling boom swivelling 360°, wall boom swivelling by 180°
- » Maintenance-free ball bearing swivels
- » Optionally available counter plate
- » Total length of up to 4,600 mm
- » Max. 275 bar / 120 °C
- » Connection: 3/8" M
- » Material: stainless steel



**easywash365+ wall boom extension with ceiling boom**

R+M Nr.	↔	Ⓞ	Ⓢ
109 760 972	2,000 + 1,600	3/8" M	3/8" M
109 760 973	3,000 + 1,600	3/8" M	3/8" M

**easywash365+ wall boom counter plate**

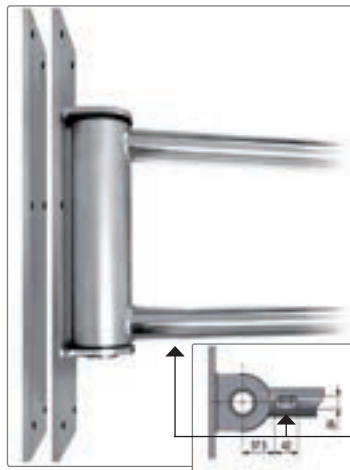
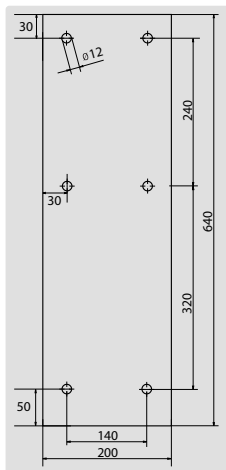
Stainless steel. 10 mm

R+M Nr.
109 790 419 3

**High pressure hose for easywash365+ boom extension**

3/8" F : 3/8" F - 90°. 2 SC. DN 8. Black

R+M Nr.	↔
345 154 002 11	2,100
345 154 003 11	3,100



**Top connection:** robust bracket for safe assembly of the boom

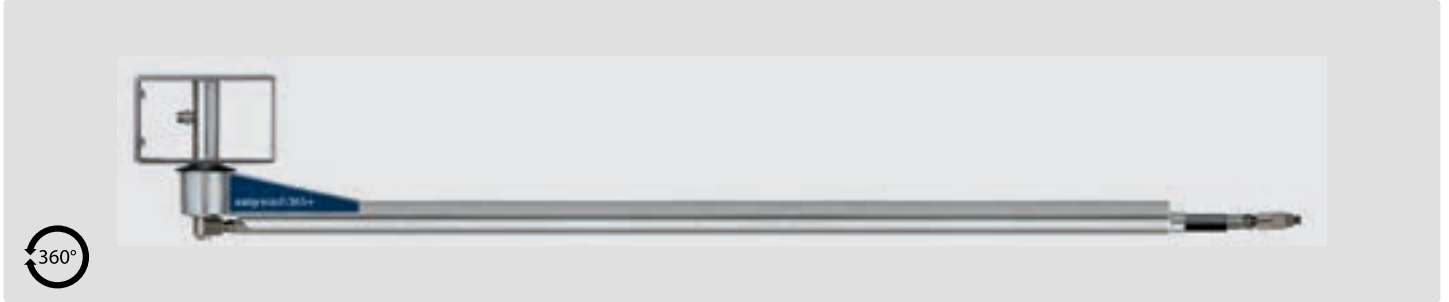
**Very robust** and welded attachment with an optionally available counter plate for your safety (screws M10)

**Pass:** high pressure hose for wall boom extension is optionally available

Symbols inlet outlet length shipment by truck

## easywash365+ wall and ceiling booms

High pressure ceiling boom including high pressure hose for walls and ceiling



- » Assembly at walls or ceiling
- » High pressure hose including, DN 8, black
- » Ceiling boom swivelling by 360°, 180° in case of wall assembly
- » Ball bearing swivel
- » Total length of up to 2,500 mm
- » Max. 275 bar / 120 °C
- » Connection: 3/8" M
- » Material: stainless steel

### easywash365+ wall and ceiling booms

Stainless steel. Boom with ball bearing swivel and high pressure hose. DN 8. Maintenance-free. Max. 275 bar / 120 °C

R+M Nr.	↔	⊕	⊖
109 766 970	1,600 mm	3/8" M	3/8" M
109 766 971	2,000 mm	3/8" M	3/8" M
109 766 973	2,500 mm	3/8" M	3/8" M

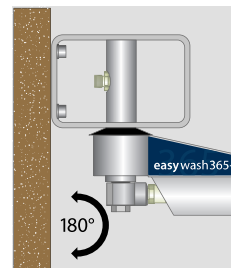


Tip: 3/8" M connection for high pressure hose with o-ring

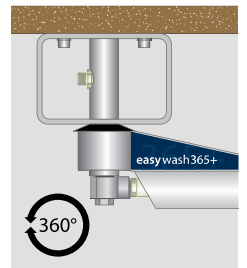
### Replacement hoses

R+M Nr.	↔
355 144 001 758 4	1,600 mm
355 144 002 198 4	2,000 mm
355 144 002 648 4	2,500 mm

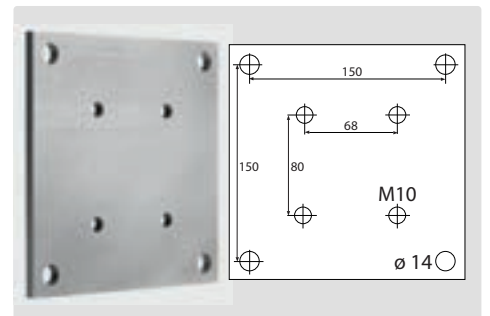
### Wall fixing



### Ceiling fixing



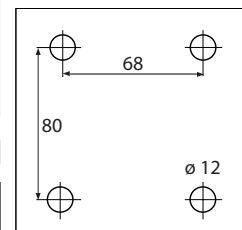
### easywash365+ mounting plate



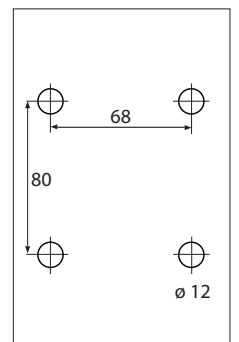
For walls and ceiling. Stainless steel. 180 x 180 mm. Thickness: 8 mm. 4 x M10

### R+M Nr.

109 790 461 4



Ready for mounting: the bracket enables an easy assembly



R+M car wash booms

R+M booms with hose reel ST 14



Zinc-plated steel. Extension with hose reel ST 14 made out of stainless steel.  
 Hose capacity outer  $\varnothing$  = hose  $\varnothing$  15 mm  $\cdot$  20 mm = 12 m.  
 Without high pressure hose. Max. 300 bar.

**Attention: Delivery time of approx. 2 weeks!**

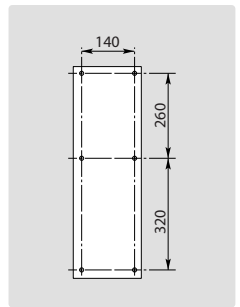
R+M Nr.	$\varnothing$	$\odot$	$\ominus$	$\boxplus$
109 825	2,570 mm	3/8" F	3/8" F	45.0 kg
109 835	3,570 mm	3/8" F	3/8" F	50.0 kg
109 845	4,570 mm	3/8" F	3/8" F	54.0 kg

Hose stopper



Hose stop with six exchangeable inserts.  
 Hose  $\varnothing$  10 - 34 mm

R+M Nr.
741 03



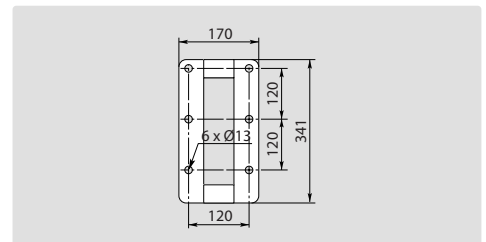
R+M car wash booms

R+M booms with pressure pipe



Zinc-plated steel. Pipe zinc-plated steel. Maintenance-free.  
 Max. 400 bar

R+M Nr.	$\varnothing$	$\odot$	$\ominus$	$\boxplus$
109 10	2,000 mm	1/4" M	1/4" M	12.0 kg
109 20	2,500 mm	1/4" M	1/4" M	14.0 kg
109 30	3,000 mm	1/4" M	1/4" M	15.0 kg
109 40	3,500 mm	1/4" M	1/4" M	17.0 kg



Symbols  $\varnothing$  length  $\odot$  inlet  $\ominus$  outlet  $\boxplus$  weight  $\varnothing$  diameter shipment by truck



## R+M car wash booms

### R+M booms with hose carrier



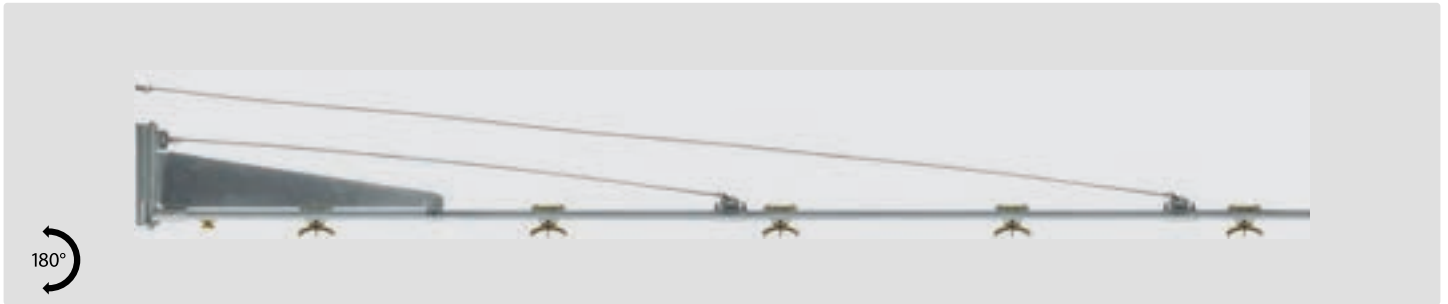
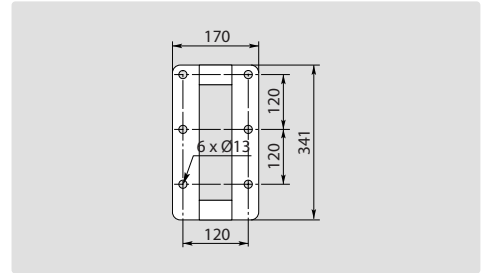
Zinc-plated steel. Maintenance-free. Trolley zinc-plated steel  
 Ø 17 - 25 mm

R+M Nr.		hose reel trolleys	
109 506	3,000 mm	3 pieces	12.0 kg
109 516	4,000 mm	4 pieces	14.0 kg

#### Hose trolleys



R+M Nr.  
107 308 001



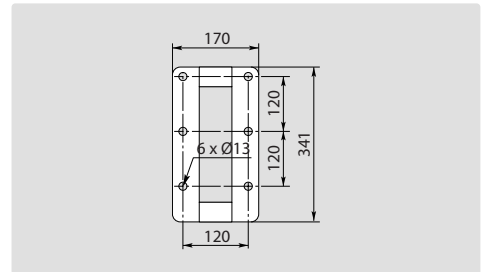
Zinc-plated steel. Maintenance-free. Trolley zinc-plated steel  
 Ø 17 - 25 mm

R+M Nr.		hose reel trolleys	
109 526	5,000 mm	5 pieces	38.0 kg
109 536	6,000 mm	6 pieces	43.0 kg

#### Hose trolleys



R+M Nr.  
107 308 001



Suttner swivels

ST-300 swivels



3/8" M : 3/8" F. Stainless steel / nickel-plated brass. Max. 275 bar / 90 °C

R+M Nr.	
200 300 010	45 mm



Repair kit

R+M Nr.
200 300 100

ST-300 swivels



1/4" F : 3/8" F. Stainless steel / nickel-plated brass. Max. 275 bar / 90 °C

R+M Nr.	
200 300 050	57 mm



Repair kit

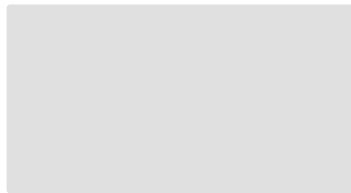
R+M Nr.
200 300 100

ST-300 swivels



1/4" M : 1/4" F. Brass. Max. 275 bar / 90 °C

R+M Nr.	
200 300 040	44 mm



R+M Nr.
---------

ST-301 swivels



1/4" F : 3/8" F. Stainless steel / brass. Swivel with radial friction bearing. Max. 350 bar / 90 °C

R+M Nr.	
200 301 050	58 mm



Repair kit

R+M Nr.
200 300 100

ST-301 swivels



1/4" F : M22 M. Stainless steel / brass. Swivel with radial friction bearing. Max. 350 bar / 90 °C

R+M Nr.	
200 301 060	62 mm



Repair kit

R+M Nr.
200 300 100

ST-310 swivels



1/4" F : 3/8" F. Stainless steel. Max. 350 bar / 90 °C

R+M Nr.	
200 310 000	57 mm



Repair kit

R+M Nr.
200 300 100

ST-310 swivels



3/8" M : 3/8" F. Stainless steel. Max. 350 bar / 90 °C

R+M Nr.	
200 310 010	45 mm



Repair kit

R+M Nr.
200 300 100

ST-310 swivels



1/2" M : 1/2" F. Stainless steel. Max. 350 bar / 90 °C

R+M Nr.	
200 310 040	49 mm



Repair kit

R+M Nr.
200 300 100

Symbols height

## Suttner swivels

### ST-311 swivels



1/4" F : 3/8" F. Stainless steel.  
Swivel with radial friction bearing.  
Max. 350 bar / 90 °C

<b>R+M Nr.</b>	
200 311 050	58 mm



Repair kit

<b>R+M Nr.</b>
200 300 100

### ST-311 swivels



1/4" F : M22 M. Stainless steel.  
Swivel with radial friction bearing.  
Max. 350 bar / 90 °C

<b>R+M Nr.</b>	
200 311 060	58 mm



Repair kit

<b>R+M Nr.</b>
200 300 100

### ST-340 swivels



1/2" M : 1/2" F. Stainless steel.  
Max. 350 bar / 90 °C

<b>R+M Nr.</b>	
200 340 010	52 mm



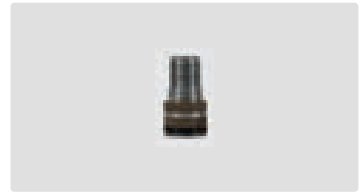
Repair kit

<b>R+M Nr.</b>
200 340 100



1/4" F : 1/2" F. Stainless steel.  
Max. 350 bar / 90 °C

<b>R+M Nr.</b>	
200 340 050	73 mm



Repair kit

<b>R+M Nr.</b>
200 340 100



1/2" M : 1/2" F. Brass.  
Max. 250 bar / 90 °C

<b>R+M Nr.</b>	
200 340 510	52 mm



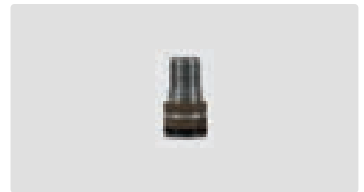
Repair kit

<b>R+M Nr.</b>
200 340 150



1/4" F : 1/2" F. Brass.  
Max. 250 bar / 90 °C

<b>R+M Nr.</b>	
200 340 520	73 mm



Repair kit

<b>R+M Nr.</b>
200 340 100

### ST-351 swivels



1/2" M : 1/2" F.  
Max. 600 bar

<b>R+M Nr.</b>	
200 351 510	72 mm



Repair kit swivel ST-351

<b>R+M Nr.</b>
200 351 400

### ST-350 swivels



3/8" M : 3/8" F. Stainless steel.  
Max. 500 bar / 90 °C

<b>R+M Nr.</b>	
200 350 010	45 mm



Repair kit

<b>R+M Nr.</b>
200 300 120

### ST-345 swivels



1/4" F : 1/4" M. 350 bar. Stainless

<b>R+M Nr.</b>
200 345 500



1/4" F : 1/4" M. 350 bar. Stainless.  
easywash365+ blue

<b>R+M Nr.</b>
200 345 510



1/4" F : 1/4" M. 350 bar. Stainless.  
RAL 5005

<b>R+M Nr.</b>
200 345 520



1/4" F : 1/4" M. 350 bar. Stainless

<b>R+M Nr.</b>
200 345 530

### Suttner swivels ST-320

Completely stainless steel. Swivel with slide ring as sealing element



3/8" F : 3/8" M. DN 6.  
Max. 400 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 320 500	48 mm



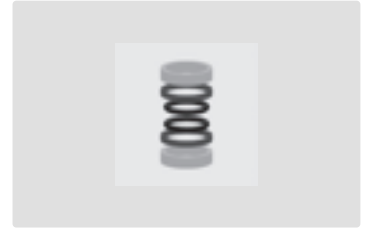
1/4" F : 1/4" M. DN 6.  
Max. 400 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 320 550	48 mm



3/8" F : 3/8" M. DN 6.  
Max. 400 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 320 502	48 mm



Repair kit swivels ST-320

R+M Nr.
200 320 490

### Suttner swivels ST-322

Completely stainless steel. Swivel with slide ring as sealing element. Field of application: Hose reels



3/8" F : 3/8" M. DN 10.  
Max. 400 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 322 500	65 mm



1/2" F : 3/8" M. DN 10.  
Max. 300 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 322 510	65 mm



1/2" F : 1/2" M. DN 12.  
Max. 300 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 322 520	67 mm



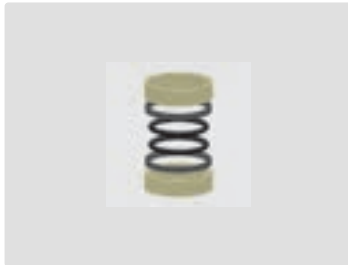
1/2" F : 1/2" M. DN 12.  
Max. 300 bar / 30 r.p.m. / 90 °C

R+M Nr.	
200 322 522	68 mm



M28 M. DN 12.  
For series R+M 434 - R+M 564.  
Max. 300 bar / 30 r.p.m. / 90 °C

R+M Nr.		
200 322 523	79.5 mm	1/2" F
200 322 525	79.5 mm	3/8" F



Repair kit swivels ST-322

R+M Nr.
200 322 490

Symbols height inlet VPE packing unit

## easywash365+ swivels

Housing nickel-plated brass. Axle stainless steel. Field of application: Ceiling booms in self-service car wash



1/4" F : 1/4" M. DN 7.  
Max. 275 bar / 30 r.p.m. / 120 °C

R+M Nr.	Ø
562 390 503	46 mm



3/8" F : 1/4" M. DN 7.  
Max. 275 bar / 30 r.p.m. / 120 °C

R+M Nr.	Ø
562 390 505	46 mm



3/8" F : 3/8" M. DN 7.  
Max. 275 bar / 30 r.p.m. / 120 °C

R+M Nr.	Ø
562 390 507	46 mm



Repair kit **easywash365+** swivels

R+M Nr.
750 140 2

## easywash365+ swivels

Housing stainless steel / nickel-plated brass. Axle stainless steel. Maintenance-free. DN 6. Field of application: Swivels applicable to high pressure spray guns and hose connections, ceiling booms in self-service car wash



1/4" M : 1/4" F.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 600	63 mm	1
562 391 601	63 mm	25



1/4" M : 3/8" F.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 605	64 mm	1
562 391 606	64 mm	25



3/8" M : 1/4" F.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 610	63 mm	1
562 391 611	63 mm	25



3/8" M : 3/8" F.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 615	64 mm	1
562 391 616	64 mm	25



1/4" F : 1/4" F.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 620	69 mm	1
562 391 621	69 mm	25



3/8" F : 3/8" F.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 625	67 mm	1
562 391 626	67 mm	25



1/4" F : M18 M.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 630	62 mm	1
562 391 631	62 mm	25



1/4" F : M14 M.  
Max. 275 bar / 120 °C

R+M Nr.	Ø	VPE
562 391 627	62 mm	1
562 391 628	62 mm	25

## Mosmatic swivels WDG

Housing nickel-plated brass. Axle stainless steel. Field of application: Ceiling booms in self-service car wash



1/4" F : 1/4" M. DN 7.  
Max. 150 bar / 30 r.p.m. / 90 °C

R+M Nr.	Ø
750 140 11	46 mm



3/8" F : 1/4" M. DN 7.  
Max. 150 bar / 30 r.p.m. / 90 °C

R+M Nr.	Ø
750 140 1	46 mm



Repair kit  
Mosmatic swivels WDG

R+M Nr.
750 140 2



### Mosmatic swivels DGS / DGV / DGK

Housing stainless steel / nickel-plated brass. Axle stainless steel. DN 6. Rust-proof and maintenance-free. Field of application: Swivels applicable to high pressure spray guns and hose connections, ceiling booms in self-service car wash. Max. 275 bar / 30 r.p.m. / 120 °C



**DGS.** Double ball bearing system

R+M Nr.			
108 300 01	1/4" F	1/4" M	59 mm
108 300 02	1/4" F	1/4" F	62 mm
108 300 03	1/4" F	3/8" M	60 mm
108 300 04	1/4" F	3/8" F	63 mm
108 300 05	1/4" F	M14 M	57 mm
108 300 06	1/4" F	M16 M	57 mm
108 300 07	1/4" F	M18 M	57 mm
108 300 09	1/4" F	M22 M	61 mm
108 301 03	3/8" F	3/8" M	60 mm
108 301 04	3/8" F	3/8" F	63 mm
108 301 07	3/8" F	M18 M	57 mm
108 301 09	3/8" F	M22 M	61 mm



**DGV.** Single ball bearing system

R+M Nr.			
108 325 11	1/4" M	1/4" M	60 mm
108 325 12	1/4" M	1/4" F	63 mm
108 325 13	1/4" M	3/8" M	61 mm
108 325 18	1/4" M	M21 M	62 mm
108 325 21	3/8" M	1/4" M	60 mm
108 325 24	3/8" M	3/8" F	61 mm
108 325 32	3/8" M	1/4" F	63 mm
108 325 33	3/8" M	3/8" M	61 mm
108 325 34	3/8" M	3/8" F	63 mm
108 325 37	3/8" M	M18 M	58 mm
108 325 39	3/8" M	M22 M	62 mm
108 325 82	1/4" F	1/4" F	67 mm
108 325 87	1/4" F	M18 M	62 mm



**DGK.** Single ball bearing system

R+M Nr.			
108 320 31	1/4" M	DN 06	58 mm
108 320 33	1/4" F	DN 06	62 mm
108 321 32	3/8" M	DN 08	66 mm

### Mosmatic swivels DGVI

Stainless steel. DN 6. Rust-proof and maintenance-free. Field of application: Swivels applicable to high pressure spray guns and hose connections. Max. 500 bar / 30 r.p.m. / 120 °C



R+M Nr.			
108 327 02	1/4" M*	1/4" F	54
108 327 24	3/8" M*	3/8" F	56
108 327 34	3/8" M	3/8" F	64
108 328 14	1/2" M	1/2" F	75

R+M Nr.			
108 327 81	1/4" F	1/4" M	64
108 327 83	1/4" F	3/8" M	65

R+M Nr.			
108 327 82	1/4" F	1/4" F	66
108 327 84	1/4" F	3/8" F	68

R+M Nr.			
108 327 87	1/4" F	M18 M	62
108 327 88	1/4" F	M21 M	66
108 327 89	1/4" F	M22 M	66

### Mosmatic swivels DGE / DGEI

Stainless steel. Maintenance-free. Field of application: especially designed for high flow rates and low revolutions per minute as for example at automatic car wash plants. Max. 30 r.p.m. / 120 °C. DN 13 for 1/2". DN 25 for 1"



**DGE 90°.** Housing nickel-plated brass. Single ball bearing system. Rust-proof. Max. 275 bar



**DGE.** Housing nickel-plated brass. Single ball bearing system. Rust-proof. Max. 275 bar



**DGEI.** Housing stainless steel. Triple ball bearing system. Max. 350 bar



**DGEI 90°.** Housing stainless steel. Triple ball bearing system. Max. 350 bar

R+M Nr.			
108 348 23	1/2" F	1/2" M	91
108 348 25	1" F	1" M	113

R+M Nr.			
108 348 03	1/2" F	1/2" M	80
108 348 05	1" F	1" M	90

R+M Nr.			
108 347 03	1/2" F	1/2" M	80
108 347 05	1" F	1" M	95

R+M Nr.			
108 347 23	1/2" F	1/2" M	97
108 347 25	1" F	1" M	123

\* conical

Symbols length mm outlet inlet type

**Mosmatic high RPM swivels DY-Series**

Axle stainless steel. Housing nickel-plated brass. Triple ball bearing system. DN 6. Rust-proof and maintenance-free. Field of application: especially designed for high revolutions per minute and self-rotating applications. Max. 275 bar / 2,000 r.p.m. / 120 °C



DYF.

R+M Nr.			
108 580 03	1/4" F	3/8" M	80
108 581 03	3/8" F	3/8" M	80
108 580 00	1/4" F	M12 M	66



DYF.

R+M Nr.			
108 584 01	3/8" F	1/4" M	84



DYG.

R+M Nr.			
108 570 03	1/4" F	3/8" M	80
108 571 03	3/8" F	3/8" M	80



DYL.

R+M Nr.			
108 560 03	1/4" F	3/8" M	80
108 561 03	3/8" F	3/8" M	80
108 561 04	3/8" F	3/8" F	80
108 560 01	1/4" F	1/4" F	79



DYL 90°

R+M Nr.			
108 563 03	1/4" F	3/8" M	84
108 563 01	1/4" F	1/4" M	84

**Mosmatic seal kits**



R+M Nr.	TYP
108 369 05	DY hard metal
108 369 01	DX ceramic

**Mosmatic swivels DGL**



Axle stainless steel. Housing nickel-plated brass. Triple ball bearing system. DN 6. Rust-proof and maintenance-free. Field of application: designed for self-spinning applications. Very low torque required. Max. 275 bar / 1,000 r.p.m. / 30 °C. Max. 275 bar / 30 r.p.m. / 120 °C

R+M Nr.			
108 311 03	3/8" F	3/8" M	66

**Mosmatic high RPM swivels DY-Series / WDRS**

Axle and housing stainless steel. Triple ball bearing system. Maintenance-free. DN 6 for 3/8". DN 13 for 1/2". DN 38 for 1.1/2"



**DYCI.** Triple ball bearing system. Field of application: especially designed for high revolutions per minute and self-rotating applications. Max. 350 bar / 2,000 r.p.m. / 120 °C

R+M Nr.	☺	☹	↔
108 550 03	1/4" F	3/8" M	95
108 551 03	3/8" F	3/8" M	95



**DYCI.** Triple ball bearing system. Field of application: especially designed for high revolutions per minute and self-rotating applications. Max. 350 bar / 2,000 r.p.m. / 120 °C

R+M Nr.	☺	☹	↔
108 552 53	M22	3/8" M	95



**DYDI.** Triple ball bearing system. Field of application: especially designed for high revolutions per minute and self-rotating applications. Max. 500 bar / 2,000 r.p.m. / 120 °C

R+M Nr.	☺	☹	↔
108 552 63	M22	3/8" M	95



**WDRS.** Double ball bearing system. Field of application: especially designed for high flow rates, e.g. automatic car wash. Max. 200 bar / 60 - 150 r.p.m. / 80 °C

R+M Nr.	☺	☹	↔
108 412 11	1/2" F	1/2" M	110
108 415 11	1.1/2" F	1.1/2" M	150

Axle and housing stainless steel. Quadruple ball bearing system. DN 6. Maintenance-free. Field of application: especially designed for high revolutions per minute and self-rotating applications. Max. 2,000 r.p.m. / 120 °C



**DYT.** Max. 350 bar

R+M Nr.	☺	☹	↔
108 590 03	1/4" F	3/8" M	107
108 591 01	3/8" F	1/4" M	109
108 591 03	3/8" F	3/8" M	109



**DYT 90°.** Max. 350 bar

R+M Nr.	☺	☹	↔
108 593 03	1/4" F	3/8" M	109
108 594 03	3/8" F	3/8" M	110



**DYU.** Max. 500 bar

R+M Nr.	☺	☹	↔
108 591 13	3/8" F	3/8" M	109



**DYU 90°.** Max. 500 bar

R+M Nr.	☺	☹	↔
108 594 13	3/8" F	3/8" M	110

**R+M swivels**



3/4" F : 3/4" M. DN 19. Housing and axle stainless steel. Max. 200 bar / 90 °C

R+M Nr.	ⓘ
750 400 1	80 mm



Repair kit swivel 750 400 1

R+M Nr.
750 400 2



3/8" M : 3/8" F. Brass. Max. 220 bar / 90 °C

R+M Nr.	ⓘ
562 50	39 mm



1/4" F : 3/8" M. DN 6. Housing and axle stainless steel. Max. 600 bar / 90 °C

R+M Nr.	ⓘ
750 280 0	59 mm



Seal kit swivel 750 280 0

R+M Nr.
750 200 2



3/8" M : 1/4" F. Brass. Max. 220 bar / 90 °C

R+M Nr.	ⓘ
562 60	39 mm

Coin meter

EMS-57



- » Mechanical coin tester with coin return (MMP)
- » Sort of coins: 1
- » Display for time left with 3 digits
- » Preselection / minimum insert 1 - 4 coins adjustable
- » Adjustable time selection 1sec - 640 minutes per coin
- » Splash proof electronic
- » Current on contact 16 A - AC1
- » H x W x D 260 x 160 x 110 mm
- » Weight 3.5 kg

Housing powder-coated steel

230 V - 50 Hz

money
JETON (profiled)
50 Cent
1 €

R+M Nr.
925 712 303
925 712 305
925 712 301

EMS-81



- » Mechanical coin tester with coin return (MMP)
- » Sort of coins: 1
- » Display for time left with 3 digits
- » Preselection / minimum insert 1 - 4 coins adjustable
- » Adjustable time selection 1 - 640 minutes per coin
- » Electronic counter for operating times, checkouts, clients
- » Splash proof electronic
- » Current on contact 16 A - AC1
- » H x W x D 260 x 160 x 110 mm
- » Weight 3.5 kg

Housing powder-coated stainless steel

24 V-50 Hz

230 V-50 Hz

money
JETON (profiled)
50 Cent
1 €

R+M Nr.
928 110 243 9
928 110 245 9
928 110 241 9

R+M Nr.
928 112 303 9
928 112 305 9
928 112 301 9

**Attention**  
Connection only  
by authorised staff.

EMS-82



- » Electronic coin tester with coin return (EMP)
- » Sorts of coins (Token 22 and 26 mm with hole. Coins 0.10 - 0.20 - 0.50 - 1.00 - 2.00 Euro)
- » Display for time left with 3 digits
- » Preselection / minimum insert freely programmable
- » Freely programmable time selection
- » Electronic counter for operating times, checkouts, clients
- » Splash proof electronic
- » Current on contact 16 A - AC1
- » H x W x D 260 x 160 x 110 mm
- » Weight 3.5 kg

Housing powder-coated stainless steel with spraying protection flap

24 V - 50 Hz

230 V - 50 Hz

money
programmable

R+M Nr.
928 210 240 9

R+M Nr.
928 212 300 9

Symbols height length inlet outlet

### Motor control easywash365+



Motor control for the operation of motors with 4 - 7.5 kW power at 400 VAC, 50 Hz, IP 65. RAL 7035.  
 H x W x D 380 x 380 x 210 mm.  
 Supply: 400VAC, 50Hz, 3Ph / N / PE with main switch (cam switch) 25A. Control voltage conditioning 24VDC, 2.5A with backup fuse 2A.  
 Motor outlet with power contactor 7.5kW and wide-range motor protection switch 8-32A.  
 LOGO small control unit.  
 1 operating hours counter (IP 65) and 2 command and signaling devices built into the door

R+M Nr.	☒
920 001 380	14 kg

### Coin box easywash365+ including control box

#### Coin box easywash365+ including control box



R+M coin box, mechanical, feat. money return, incl. control box, IP 66, RAL 7035 feat. 2 m supply cable with CEE-plug, 16 A, 400 VAC, 50 Hz, 3 PH/N/PE. Control voltage processing 24 VAC, 20 VA with 2 automatic circuit breakers. Motor output with power contactor 7.5 kW, wired to CEE add-on box. Feat. a time relay for pulse stretching 0.05 s - 10 h. Excl. control cable

R+M Nr.	money	coin box	control box
925 513 803	chip (profiled)	260 x 160 x 110	300 x 300 x 155
925 513 805	50 Cent	260 x 160 x 110	300 x 300 x 155
925 513 801	1 €	260 x 160 x 110	300 x 300 x 155
925 513 802	2 €	260 x 160 x 110	300 x 300 x 155

#### Control cable



5 wires, UV-resistant. Sold by metre.

R+M Nr.	☒
925 510 001	5 G 1.5 mm <sup>2</sup>

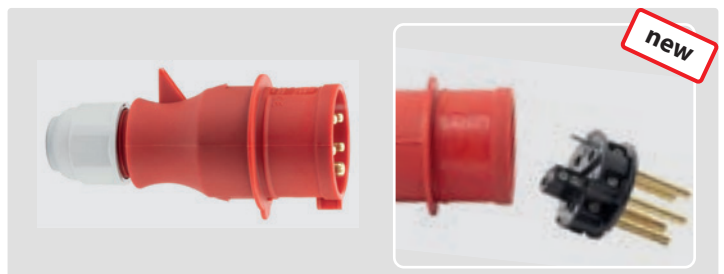
#### Control box easywash365+



Control box, IP 66, RAL 7035. H x W x D 300 x 300 s 155 mm. Feat. 2 m supply cable with CEE-plug 16 A, 400 VAC, 50 Hz, 3 Ph/N/PE. Control voltage processing 24 VAC, 20 VA with 2 automatic circuit breakers. Motor output with power contactor 7.5 kW, wired to CEE add-on box. Feat. a time relay for pulse stretching 0.05 s - 10 h. Excl. control cable

R+M Nr.	☒
925 510 000	9,6 kg

#### CEE Plug



400V / 16A / 3PNE. IP 44. With screw terminals up to a maximum of 2.5 mm<sup>2</sup>

R+M Nr.	
901 338 001	

Symbols ☒ material ☒ length ☒ temperature ☒ diameter ☒ type ☒ weight



## Coin tester

### Coin tester with microswitch



R+M Nr.	money	front plate	hole size
940 10	JETON (profiled)	129 x 52 mm	119 x 42 mm
940 18	50 Cent	129 x 52 mm	119 x 42 mm
940 19	1 €	129 x 52 mm	119 x 42 mm
940 20	2 €	129 x 52 mm	119 x 42 mm

### Coin tester with light barrier



R+M Nr.	money	front plate	hole size
940 108	JETON (profiled)	129 x 52 mm	119.0 x 42 mm
940 214	JETON (profiled)	150 x 50 mm	140.5 x 41 mm
940 188	50 Cent	129 x 52 mm	119.0 x 42 mm
940 210	50 Cent	150 x 50 mm	140.5 x 41 mm
940 198	1 €	129 x 52 mm	119.0 x 42 mm
940 211	1 €	150 x 50 mm	140.5 x 41 mm
940 208	2 €	129 x 52 mm	119.0 x 42 mm
940 212	2 €	150 x 50 mm	140.5 x 41 mm

### Spraying protection flap



Polycarbon crystal clear. With two magnets and stainless steel fixing.  
Weight 0.1 kg

R+M Nr.	H x W x D
108 900 77	200 x 60 x 30 mm

### Token



Packing unit 100 pieces

R+M Nr.	∅	TYP
929 10	25 mm	profiled
929 15	22 mm	with hole
929 16	26 mm	with hole

## Wash brushes with water flow

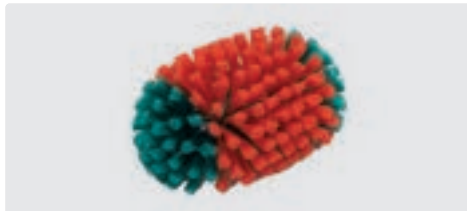
### Hand wash brush



Brush with integrated water flow. Connection suitable for Gardena system. Ideal for smaller cleaning applications. Bristles 50 mm

R+M Nr.	↔	(M)	°C
527 001 103	350 mm	polyester	50 °C

### Rim brush for trucks / busses



Brush for the cleaning of rims of trucks and busses. Connection for aluminum handles. Bristles 50 mm

R+M Nr.	↔	(M)	°C
527 001 102	230 mm	polyester	50 °C

### Wash brush



Solid brush suitable for larger surfaces. Suitable for cleaning of upper areas. With rubber edge. Connection for aluminum handle. Bristles 50 mm

R+M Nr.	↔	(M)	°C
527 001 100	400 mm	polyester	50 °C

### Wash brush swivelling



Brush with swivel. The inclined/slanted bristles ensure that all corners can be reached. With connection for aluminum handles. Bristles 50 mm

R+M Nr.	↔	(M)	°C
527 001 101	200 mm	polyester	50 °C

### High-low wash brush



The form of the brush allows the bristles to be in constant contact with the surface. The brush is equipped with a rubber edge. With connection for aluminum handles. Bristles 50 mm

R+M Nr.	↔	(M)	°C
527 001 104	250 mm	polyester	50 °C

### Wash brush



Solid brush suitable for larger surfaces. Suitable for cleaning of upper areas. The brush is equipped with a rubber edge. Connection for aluminum handles. Bristles 50 mm

R+M Nr.	↔	(M)	°C
527 001 109	260 mm	polyester	50 °C

## Wash brushes without water flow

## Long hand brush



Solid brush with long handle. Suitable for gas stations.

Bristles 47 mm

R+M Nr.	↔	(M)	°C
527 001 106	410 mm	polyester	50 °C

## Short hand brush



Solid brush with short handle. Suitable for cleaning rims and radiator grills.

Bristles 45 mm

R+M Nr.	↔	(M)	°C
527 001 107	245 mm	polyester	50 °C

## Ergonomic hand brush



Brush with rubber edge, ergonomic handle and inclined/slanted bristles. Suitable for dry and wet use. Bristles 40 mm

R+M Nr.	↔	(M)	°C
527 001 108	290 mm	polyester	50 °C

## Rim brushes



Brush for cleaning of car rims.  $\varnothing$  65 mm.

Bristles 40 mm

R+M Nr.	↔	(M)	°C
527 001 105	330 mm	polyester	50 °C



Soft brush for cleaning car rims.  $\varnothing$  65 mm.

Bristles 40 mm.

R+M Nr.	↔	(M)	°C
527 001 113	330 mm	polyester	50 °C

## Multi brush



Brush with soft bristles. Suitable for cleaning aluminum rims. Bristles 45 mm

R+M Nr.	↔	(M)	°C
527 001 112	320 mm	polyester	50 °C

## Interior brush



Industrial brush 330 x 35 mm.

Brush for cleaning vehicle interior.

Bristles 30 mm

R+M Nr.	↔	(M)	°C
527 001 415	330 mm	polyester	50 °C

## Wash brushes without water flow

### Nail brushes



Very solid brush with a hole for hanging.  
40 x 47 x 120 mm

R+M Nr.	↔	(M)	°C
527 001 409	120 mm	polyester	50 °C

### Brush set



2 long-handled brushes with 30 mm and 50 mm wide bristles.

R+M Nr.	↔	(M)	°C
527 001 115	390 mm	polyester	50 °C

### Workshop broom



Wooden cover with screwed socket for handles.  
Suitable for sweeping wet and oily waste.

R+M Nr.	↔	(M)	°C
527 001 418	665 mm	PVC	60 °C

## Window brushes and accessories

### Hand squeegees



Effectively removes water and avoids lime spots.  
Protects lacquer and windows. With connection for aluminum handles

R+M Nr.	↔	(M)	°C
527 001 110	250 mm	rubber	50 °C
527 001 201	350 mm	rubber	50 °C



Effectively removes water and avoids lime spots.  
Protects lacquer and windows. With connection for aluminum handles

R+M Nr.	↔	(M)	°C
527 001 202	450 mm	rubber	50 °C

### Floor squeegees



Effective floor squeegee for water and oil.  
Oil-resistant rubber. With connection for aluminum handles.

R+M Nr.	↔	(M)	°C
527 001 302	600 mm	PP/rubber	50 °C

### Pad holder with swivel



The pads are fastened safely with sinkable arene hooks. With connection for aluminum handles

R+M Nr.	↔	(M)	°C
527 001 209	230 mm	polypropylen	50 °C

### Pad white



Scrubbing nylon, suitable for removing insects.  
Only suitable for windows and glass

R+M Nr.	(VPE)	(M)	°C	↔
527 001 206	1	nylon	50 °C	250
527 001 206 10	10	nylon	50 °C	250

### Pad brown



Suitable for removing extreme dirt on rough surfaces.  
Not designed for the use on coated surfaces

R+M Nr.	(VPE)	(M)	°C	↔
527 001 207	1	nylon	50 °C	250
527 001 207 10	10	nylon	50 °C	250

Symbols (VPE) packing unit (M) material ↔ length °C temperature

### Window brushes and accessories

**Windscreen scraper**


The cleaning is facilitated by means of the integrated insect net. Popular at gas stations

R+M Nr.	↔	⊘	⊓	°C
527 001 203	200 mm	500 mm	50 °C	

**Windscreen scraper with telescopic handle**


The cleaning is facilitated by means of the integrated insect net. Ideal for trucks and busses

R+M Nr.	↔	⊘	⊓	°C
527 001 204	200 mm	700 - 1,250 mm	50 °C	

**Replacement scraper**


Spare head for 527 001 203 and 527 001 204

R+M Nr.	↔	⊘	°C
527 001 205	200 mm	50 °C	

### Wall mounts



Wall holder helps keeping order and increases the life of the brushes

R+M Nr.	↔	M	°C
527 001 404	245 mm	aluminium	50 °C

### Snowbrooms



Snowbroom with integrated ice scraper. Shatterproof at artic temperatures. Bristles 45 mm

R+M Nr.	↔	M
527 001 208	500 mm	PVC

### Shovels



To shovel snow or suitable as safety equipment for dangerous materials.

R+M Nr.	↔	M
527 001 303	500 mm	PVC

### Quick couplings suitable for Nito system


**Hose tail for 1/2" hose**

R+M Nr.	M
527 003 001	nickel-plated brass


**Plug 1/2" M**

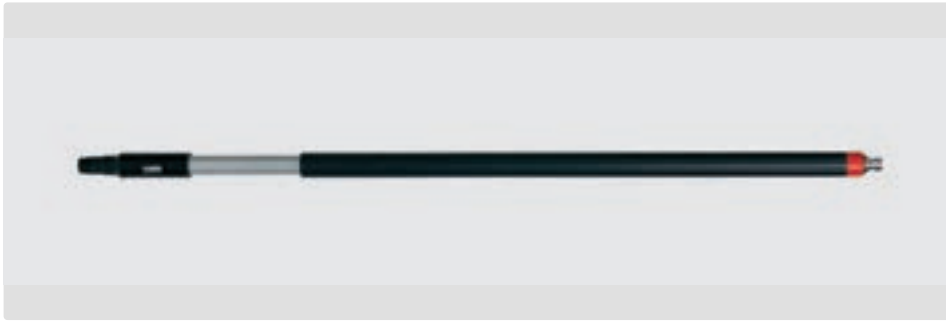
R+M Nr.	M
527 003 003	nickel-plated brass


**Coupling NITO 1/2" : coupling "universal"**

R+M Nr.	M
527 003 010	nickel-plated brass

Symbols M material ↔ length ⊘ diameter °C temperature ⊓ height

## Handles with water flow



Aluminium handle. Ergonomic handle with insulated grip. Connector suitable for Nito system

R+M Nr.	∅	↔	M	°C
527 001 405	34 mm	1,010 mm	aluminium	max. 50 °C

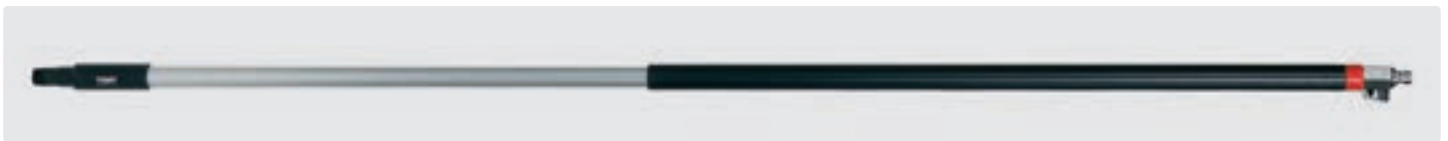
Adaptor for wash brushes with coarse thread

**new**



Adaptor for lances without coarse thread. Coarse thread F: thread M

R+M Nr.	↔
527 001 118	85 mm



Aluminium handle. Ergonomic handle with insulated grip and ball valve. Connector suitable for Nito system

R+M Nr.	∅	↔	M	°C
527 001 406	34 mm	1,575 mm	aluminium	max. 50 °C



Aluminium handle. Ergonomic handle with insulated grip. Hose tail suitable for 1/2" and 3/4" hose

R+M Nr.	∅	↔	M	°C
527 001 400	34 mm	1,575 mm	aluminium	max. 50 °C



Aluminium handle. Telescopic handle with insulated grip. Hose tail suitable for 1/2" and 3/4" hose

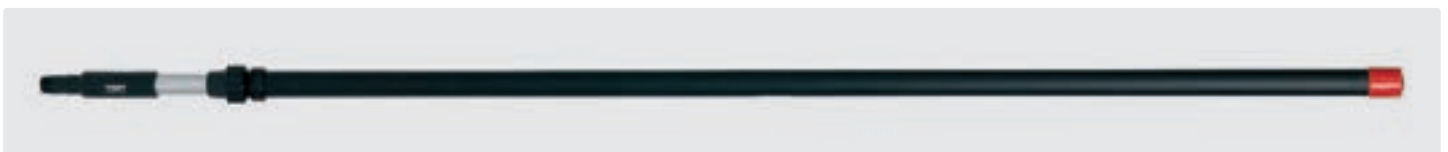
R+M Nr.	∅	↔	M	°C
527 001 402	50 mm	1,600-2,780 mm	aluminium	max. 50 °C

## Handles without water flow



Aluminium handle. Ergonomic handle with insulated grip

R+M Nr.	∅	↔	M	°C
527 001 403	34 mm	1,505 mm	aluminium	max. 50 °C



Aluminium handle. Telescopic handle with insulated grip

R+M Nr.	∅	↔	M	°C
527 001 401	50 mm	1,575-2,780 mm	aluminium	max. 50 °C



### Centrifugal pump



AR800X self-priming centrifugal pump for car washes.

230 V / 800 watts.

Max. Suction height 8 m.

Max. Delivery head 38 m.

Max. Temperature: 35° C

Cable length: 1m. incl. plug.

Stainless steel pump head.

Motor with thermal protection

R+M Nr.			
170 519 88	1" IG	1" F	58.33 l/min.

Symbols  length  inlet  outlet  weight  diameter  shipment by truck



Barrel cleaner .....	487
easyfarm365+ .....	478-479
foamblaster ST-76 .....	479
kommunal365+ .....	481-483
Longcast lances .....	480, 487
Micro Droplets Nozzle Holder .....	485
Mosmatic duct cleaner .....	488
Mosmatic manhole cleaner .....	488
ST-3500 high-flow spray guns .....	484
Suttner barrel cleaner .....	487
Suttner high pressure quick couplings ST-3100 .....	481
Suttner high pressure spray guns .....	485
Suttner rotating nozzles ST-458.1 with ceramic insert .....	484
Suttner tank cleaner .....	486
Suttner ultra high pressure lances .....	484
weeddevil® – Our new device for weed control .....	489
weeddevil® – weed killer .....	490

easyfarm365+



LTF

Professional gun with coupling KW.  
Max. 250 bar / 60 l/min / 150 °C

R+M Nr.		
202 620 655	coupling KW	1/2" F swivel



LTF

Professional gun with coupling ST-3100.  
Max. 250 bar / 60 l/min / 150 °C

R+M Nr.		
202 620 650	coupling ST-3100	1/2" F swivel

ST-340 swivels



1/4" F : 1/2" F



Repair kit ST-340

R+M Nr.
200 340 520

R+M Nr.
200 340 150

**LTF - Low Trigger Force** 90 % reduced holding force and 40 % reduced trigger force against usual market guns.

Grips



Grip for lances with  
moulded handle

R+M Nr.
200 009 700



Grip for ST-85  
Push & Pull lances

R+M Nr.
200 009 680

Protector ST-10



1/4" F. Plastic. Stainless  
steel

R+M Nr.
200 010 760

Suitable high pressure hoses are  
on page 154 and 163.

ST-85 Push & Pull lances



Plug KW. Lance stainless steel, vented handle ST-9 380 mm and nozzle protector ST-10 without nozzle. Variable adjustment of spraying angle from 20 to 140°. Especially designed for cleaning of places which are difficult to access. Max. 210 bar / 150 °C

R+M Nr.			
200 085 253	1/4" F NPT	600 mm	plug KW
200 085 613	1/4" F NPT	850 mm	plug KW
200 085 603	1/4" F NPT	1,000 mm	plug KW
200 085 653	1/4" F NPT	1,500 mm	plug KW

Lances



Plug KW. Lance stainless steel, moulded handle 300 mm, valve ST-53 on top, nozzle protector ST-10 with low pressure nozzle and 1/4" M thread for rotating nozzles. Lance without rotating nozzle. Max. 250 bar / 150 °C

R+M Nr.			
200 053 538	300 mm	1/4" M	980 mm plug KW

## easyfarm365+

### Lances



Plug KW. Lance stainless steel, moulded handle 400 mm and nozzle protector ST-10 with nozzle. Max. 400 bar / 150 °C

R+M Nr.	ISO	☉	↔	Ⓞ
200 000 522	400 mm	1/4" F NPT	1,000 mm	plug KW



Plug KW. Lance stainless steel, moulded handle 300 mm, valve ST-54 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 310 bar / 150 °C

R+M Nr.	ISO	☉	↔	Ⓞ
200 054 507	300 mm	1/4" F NPT	980 mm	plug KW



Plug KW. Lance stainless steel, moulded handle 400 mm and 1/4" M thread for rotating nozzles. Lance without rotating nozzle. Max. 400 bar / 150 °C

R+M Nr.	ISO	☉	↔	Ⓞ
200 000 523	400 mm	1/4" M	1,000 mm	plug KW

## foamblaster ST-76

**The foamblaster ST-76 is designed for applications in agriculture, industry, municipal cleaning and fire fighting technology.**

There are injector nozzles with diameters of up to 2.8 mm for high flow rates available for all **easyfoam365+** stainless steel injectors ST-160, ST-164, ST-166 and ST-167.

Material: stainless steel / plastic.

Min. 70 bar for use in combination with an **easyfoam365+** injector unit. Min. 30 bar for use with water / foamagent premix.

Max. 250 bar / 20 - 60 l/min / 100 °C

R+M Nr.	D	Ⓞ
200 076 615	2.3 mm	1/2" F
200 076 618	2.6 mm	1/2" F
200 076 621	2.8 mm	1/2" F
200 076 600	2.9 mm	1/2" F
200 076 624	3.0 mm	1/2" F
200 076 630	3.3 mm	1/2" F
200 076 633	3.5 mm	1/2" F



Symbols ☉ outlet Ⓞ inlet ↔ length ISO insulation D nozzle

### Longcast lances



3/8" F. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, gun ST-2300, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 280 bar / 45 l/min / 100 °C

R+M Nr.		
200 078 510	nozzle protector without nozzle	3/8" F



1/2" F. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, gun ST-2320, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 150 bar / 80 l/min / 100 °C

R+M Nr.		
200 078 520	nozzle protector without nozzle	1/2" F



**LTF**

1/2" F. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, gun easyfarm365+, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 250 bar / 60 l/min / 100 °C

R+M Nr.		
200 078 530	nozzle protector without nozzle	1/2" F swivel



1/4" M. Stainless steel. Longcast lance 350 mm with insulation ST-29 Cool & Compact 330 mm, grip aside and nozzle protector made out of plastic without nozzle.  
Max. 280 bar / 130 l/min / 100 °C

R+M Nr.		
200 078 500	nozzle protector without nozzle	1/4" M

The longcast lance can be connected to a low pressure pump, to a high pressure pump, to the public water system or to the extinguishing water network.

The lance works in the medium pressure range. By means of its very good solidity, good handling and compactness the lance is especially suitable for the intensive use.

The lateral hand grip makes a stepless adjustment of the water jet during the operation possible. A long casting point jet or a progressive, conical spray jet can be set.

In order to realize ideal cleaning results the nozzle size needs to be adapted to the pump performance (pressure and flow rate).

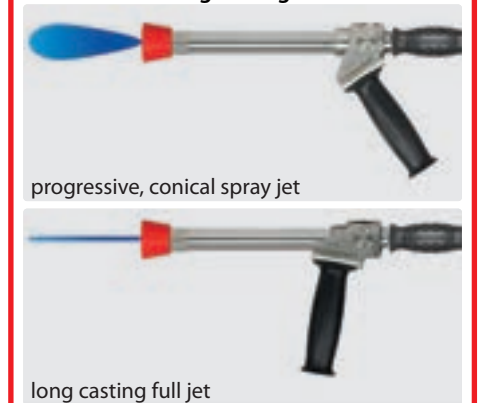
#### Nozzles for longcast lances



M15x1 M. Stainless steel

R+M Nr.	D
200 078 412	1.2 mm
200 078 415	1.5 mm
200 078 418	1.8 mm
200 078 420	2.0 mm
200 078 423	2.3 mm
200 078 425	2.5 mm
200 078 430	3.0 mm
200 078 435	3.5 mm

#### functioning of longcast lance





## kommunal365+



Professional gun.  
Max. 150 bar / 80 l/min / 150 °C

R+M Nr.		
202 320 500	1/4" F	1/2" F



Professional gun.  
Max. 150 bar / 80 l/min / 150 °C

R+M Nr.		
202 320 510	1/2" F	1/2" F



Professional gun.  
Max. 150 bar / 80 l/min / 150 °C

R+M Nr.		
202 320 520	1/2" F	1/2" F swivel

### ST-340 swivels



1/4" F : 1/2" F

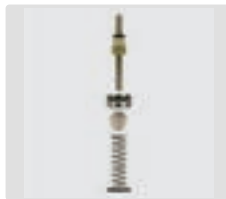
R+M Nr.
200 340 520



Repair kit ST-340

R+M Nr.
200 340 100

### Seal kits



R+M Nr.
202 320 495

### Shoulder supports



New European Union guidelines imperatively prescribe the use of shoulder supports for cleaning applications exceeding an operating reaction force of 150 N.

R+M Nr.
202 705 590

### Grips



Grip for lances with moulded handle

R+M Nr.
200 009 700



Grip for ST-85 Push & Pull lances

R+M Nr.
200 009 680

### Protector ST-10



ST-10. 1/4" F.  
Plastic.  
Stainless steel

R+M Nr.
200 010 755

Suitable high pressure hoses are in chapter 07.

## Suttner high pressure quick couplings ST-3100

### Couplings and plug ST-3100



Coupling : F.  
Stainless steel.  
Max. 250 bar / 150 °C



Coupling : M.  
Stainless steel. 60° cone.  
Max. 250 bar / 150 °C



Plug : F. Stainless steel.  
Max. 250 bar / 150 °C



Plug : M.  
Stainless steel. 60° cone.  
Max. 250 bar / 150 °C

		R+M Nr.		R+M Nr.		R+M Nr.		R+M Nr.	
1/4"	10	203 100 466	44 mm	203 100 653	47 mm	040 005 665	35 mm		
3/8"	12	203 100 461	44 mm	203 100 474	50 mm	040 005 667	41 mm	040 005 668	47 mm
1/2"	12	203 100 460	44 mm	203 100 655	45 mm	040 005 661	47 mm	040 005 662	47 mm

Symbols outlet inlet height nozzle thread nominal diameter

## kommunal365+

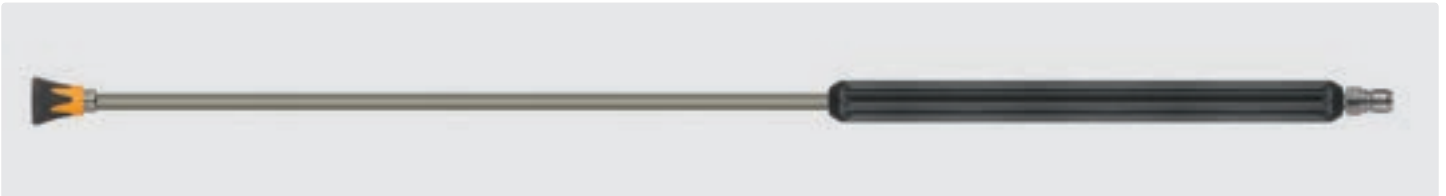
## ST-85 Push &amp; Pull lances



Plug ST-3100. Lance stainless steel, vented handle ST-9 380 mm and nozzle protector ST-10 with nozzle. Variable adjustment of spraying angle from 20 to 140°. Especially designed for cleaning of places which are difficult to access. Max. 210 bar / 150 °C

R+M Nr.	ISO	☺	☹	☺
200 085 251		1/4" F NPT	600 mm	plug ST-3100
200 085 611		1/4" F NPT	850 mm	plug ST-3100
200 085 601		1/4" F NPT	1,000 mm	plug ST-3100
200 085 651		1/4" F NPT	1,500 mm	plug ST-3100

## Lances



Plug ST-3100. Lance stainless steel, moulded handle 400 mm and nozzle protector ST-10 with nozzle. Max. 400 bar / 150 °C

R+M Nr.	ISO	☺	☹	☺
200 000 520	400 mm	1/4" F NPT	1,000 mm	plug ST-3100



Plug ST-3100. Lance stainless steel, moulded handle 300 mm, valve ST-54 aside and nozzle protector ST-10 with low pressure nozzle & thread 1/4" F. Max. 310 bar / 150 °C

R+M Nr.	ISO	☺	☹	☺
200 054 506	300 mm	1/4" F NPT	980 mm	plug ST-3100

Symbols ☺ outlet ☹ inlet ☹ length ISO insulation

## kommunal365+

### Lances



Plug ST-3100. Lance stainless steel, moulded handle 400 mm and 1/4" M thread for rotating nozzles. Lance without rotating nozzle. Max. 400 bar / 150 °C

R+M Nr.	ISO	⊖	↔	⊕
200 000 521	400 mm	1/4" M	1,000 mm	plug ST-3100



Plug ST-3100. Lance stainless steel, moulded handle 300 mm, valve ST-53 on top, nozzle protector ST-10 with low pressure nozzle and 1/4" M thread for rotating nozzles. Lance without rotating nozzle. Max. 250 bar / 150 °C

R+M Nr.	ISO	⊖	↔	⊕
200 053 537	300 mm	1/4" M	980 mm	plug ST-3100

**Suttner rotating nozzles  
ST-458.1 with ceramic insert**

ST-458.1



1/4" F. Spray angle 20°. 120 - 250 bar. Max. 100 °C

R+M Nr.	D
200 458 811	11
200 458 812	12
200 458 815	15
200 458 820	20
200 458 825	25
200 458 830	30

R+M Nr.
200 458 311
200 458 312
200 458 315
200 458 320
200 458 325
200 458 330

**ST-3500 high-flow spray guns**



Professional high-flow gun. Stainless steel. Industrial high pressure cleaning and jetting gun for municipal cleaning and other industrial cleaning tasks. Valve piston hardened stainless steel. Max. 350 bar / 200 l/min / 150 °C

Professional high-flow gun. Stainless steel. Industrial high pressure cleaning and jetting gun for municipal cleaning and other industrial cleaning tasks. Valve piston hardened stainless steel. Swivel stainless steel. Max. 350 bar / 200 l/min / 150 °C

R+M Nr.	☺	☻
203 500 500	1/2" F	1/2" F

R+M Nr.	☺	☻
203 500 550	1/2" F	1/2" F swivel

**Suttner ultra high pressure lances**

Ultra high pressure lances ST-3600 - 600 bar



1/2" M. Lance with grip. Max. 600 bar / 150 °C

R+M Nr.	☺	☻	☻	☻	M
203 600 416	1/2" M	1,500 mm	1/2" M		stainless steel
203 600 415	1/2" M	2,000 mm	1/2" M		stainless steel

R+M Nr.



1/2" M. Lance with grip and sleeve 1/4" F NPT stainless steel without high pressure nozzle. Max. 600 bar / 150 °C

R+M Nr.	☺	☻	☻	M
203 600 400	1/4" F NPT	500 mm	1/2" M	stainless steel
203 600 401	1/4" F NPT	800 mm	1/2" M	stainless steel
203 600 402	1/4" F NPT	1,000 mm	1/2" M	stainless steel

R+M Nr.



1/2" M. Lance with grip for rotating nozzles with 1/4" F (without rotating nozzle). Max. 600 bar / 150 °C

R+M Nr.	☺	☻	☻	M
203 600 411	1/4" M	500 mm	1/2" M	stainless steel
203 600 410	1/4" M	800 mm	1/2" M	stainless steel
203 600 412	1/4" M	1,000 mm	1/2" M	stainless steel

R+M Nr.

Symbols ☺ outlet ☻ inlet ☻ length M material D nozzle

## Suttner high pressure spray guns

ST-2635 Industrial



**LTF+**

Professional gun. Patented valve kit. Especially wear-resistant ball made out of carbide.  
Max. 400 bar / 35 l/min / 150 °C

R+M Nr.			Swivel	Trigger
202 635 550	1/4" F	3/8" F swivel	ST-311	black
202 635 555	1/4" F	3/8" F swivel	ST-303	grey



**new**



**LTF+**

**K**

Professional gun with insulated outlet suitable for lances with swivel screw coupling. Patented valve kit. Especially wear-resistant ball made out of carbide. Swivel made out of stainless steel.  
Max. 400 bar / 35 l/min / 150 °C

R+M Nr.		
202 635 720	M22 M	M22 M swivel

ST-311 swivel



1/4" F : 3/8" F



1/4" F : M22 M

R+M Nr.
200 311 050

R+M Nr.
200 311 060



Repair kit ST-311

R+M Nr.
200 300 100



**LTF+**

Professional gun with coupling KW. Patented valve kit. Especially wear-resistant ball made out of carbide. Max. 400 bar / 35 l/min / 150 °C

R+M Nr.			Swivel	Trigger
202 635 570	Coupling KW	3/8" F swivel	ST-311	black
202 635 575	Coupling KW	3/8" F swivel	ST-303	grey



**new**

**LTF+ - Low Trigger Force + 90 % reduced holding force and 55 % reduced trigger force against usual market guns.**

**Suitable lances are on pages 244 - 260.**

## Micro Droplets Nozzle Holder

### Fields of application:

Disinfection, humidification, cooling, dust suppression, decontamination, odor control in agricultural, food and construction industry, defence and firefighting technology, car washing and detailing



ST-78. Stainless steel

R+M Nr.	
200 078 830	1/4" F

### functioning of Micro Droplets Nozzle Holder



progressive, conical spray jet

### Nozzles for Micro Droplets Nozzle Holder



M15x1 M. Stainless steel

R+M Nr.	
200 078 412	1.2 mm
200 078 415	1.5 mm
200 078 420	2.0 mm
200 078 423	2.3 mm
200 078 425	2.5 mm
200 078 430	3.0 mm
200 078 435	3.5 mm



## Suttner tank cleaner

ST-82 h16/40 self rotating tank cleaner



- » Inlet: 1/2" F
- » Pressure: 40 - 160 bar
- » Flow: 20 - 50 l / min
- » Temperature: 0 - 90 °C
- » Turns: 29 - 36 r.p.m
- » Coverage 244°
- » Weight: 3,6 kg
- » 3 nozzles needed 1/8" M NPT
- » Other versions on request 20-50 l/min

R+M Nr.	D	Q	P
200 082 600		basic version without nozzle	
200 082 608	3 x 045	23 l/min	60 bar
200 082 601	3 x 060	40 l/min	100 bar
200 082 607	3 x 060	41 l/min	100 bar
200 082 602	3 x 030	21 l/min	110 bar
200 082 606	3 x 035	25 l/min	110 bar
200 082 605	3 x 035	27 l/min	125 bar
200 082 603	3 x 040	30 l/min	140 bar
200 082 604	3 x 050	40 l/min	140 bar



You can find application videos and other versions in our online shop.

Please specify pressure & flow rate with your order.  
The tank cleaner are individually assembled to your needs.

\* with protection cage

ST-82 h16/120 self rotating tank cleaner



- » Inlet: 3/4" F
- » Pressure: 30 - 160 bar
- » Flow: 20 - 120 l/min
- » Temperature: 0 - 90 °C
- » Turns: 10 - 16 r.p.m
- » Coverage 360°
- » Weight: 5,9 kg
- » 2 nozzles and 2 caps needed, max. 4 nozzles 1/4 " M NPT

R+M Nr.	D	Q	P
200 082 730	2 x 180	69 l/min	60 bar
200 082 717	2 x 110	42 l/min	70 bar
200 082 713	2 x 120	50 l/min	80 bar
200 082 722	4 x 130	105 l/min	85 bar
200 082 701	2 x 075	34 l/min	100 bar
200 082 709	4 x 050	45 l/min	100 bar
200 082 708	2 x 110 *	48 l/min	100 bar
200 082 723	4 x 055	50 l/min	100 bar
200 082 705	4 x 055 *	50 l/min	100 bar
200 082 721	2 x 045	20 l/min	100 bar
200 082 702	2 x 060	27 l/min	100 bar
200 082 729	2 x 090	42 l/min	100 bar
200 082 727	4 x 090	85 l/min	110 bar
200 082 724	2 x 050	24 l/min	115 bar
200 082 703	2 x 045	22 l/min	120 bar
200 082 726	2 x 045 *	22 l/min	120 bar
200 082 710	4 x 045	42 l/min	120 bar
200 082 731	2 x 110	110 l/min	120 bar
200 082 716	4 x 070	67 l/min	120 bar
200 082 728	4 x 110 *	110 l/min	120 bar
200 082 732	2 x 110	60 l/min	120 bar
200 082 719	2 x 040	20 l/min	125 bar
200 082 720	2 x 040 *	20 l/min	125 bar
200 082 712	2 x 050	25 l/min	130 bar
200 082 733	4 x 085	90 l/min	135 bar
200 082 704	2 x 040	21 l/min	140 bar
200 082 725	2 x 050 *	27 l/min	140 bar
200 082 706	2 x 060	32 l/min	140 bar
200 082 711	4 x 040 *	40 l/min	140 bar
200 082 714	-	50-60 l/min	140 bar
200 082 715	2 x 055	28 l/min	140 bar
200 082 718	2 x 065 *	35 l/min	140 bar
200 082 734	4 x 075	80 l/min	140 bar
200 082 707	4 x 040	45 l/min	160 bar

## Suttner barrel cleaner

ST-82 e25 / 21 power-operated barrel cleaner CE



- » Inlet: M22 M
- » Pressure: max. 220 bar
- » Flow: max. 21 l/min
- » Temperature: 0 - 90 °C
- » Electric motor: 12 V =
- » Power supply: 230 V / 50 Hz
- » 10 m cable with plug
- » Coverage 360°
- » Weight: 3.2 kg
- » Nozzles are included in the scope of delivery

<b>R+M Nr.</b>
200 082 500

## Barrel cleaner

M 28 E power-operated barrel cleaner with exhaust + CE



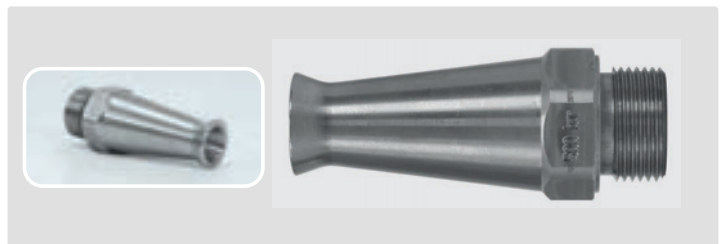
- » Inlet: M22 M
- » Pressure: max. 140 bar
- » Flow: 10 - 25 l/min
- » Temperature: 0 - 90 °C
- » Electric motor: 12 V =
- » Power supply: 230 V / 50 Hz
- » 10 m cable with plug
- » Coverage 360°
- » Weight: 6.2 kg
- » Nozzles are included in the scope of delivery

<b>R+M Nr.</b>
276 284 380

## Longcast nozzle

- » Stainless steel
- » Applications: cleaning of shafts
- » Extremely high impact force
- » Long reach
- » Nozzle protection
- » Max. 500 bar / 150 °C

<b>R+M Nr.</b>		
040 001 963	5 mm	3/4" M



Industrial high-flow gun ST-3500, lance 500 mm with side handle.  
Long Cast Nozzle.  
Max. 350 bar / 200 l/min / 150 °C

### Application:

- » Man hole cleaning
- » Paper Industry. Removal of snow balls during fibre jetting
- » Cleaning Tasks in Off-Shore or Marine Applications

<b>R+M Nr.</b>		
203 500 560	750 mm	1/2" F swivel



Symbols  inlet  outlet  nozzle  flow  pressure  diameter  length

**Mosmatic manhole cleaner**

**Manhole cleaner TXS-2f**



Inlet 1/2" F. Max. 170 bar / 120 °C

R+M Nr.	∅	⊠
108 810 33	300 mm	3.7 kg
108 810 43	400 mm	4.4 kg
108 810 53	500 mm	5.3 kg

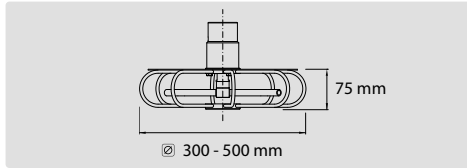
Mosmatic manhole cleaner TXS-2f with protective plate

Cleans ducts and manholes and realizes cleaning results like never before. The cleaner is self-rotating and very easy in its handling. By means of a protective plate the manhole cleaner and the user profit from extra protection.

Completely made of stainless steel.

Nozzles are excluded. 2 nozzles 1/8" M are required.

Further versions are available on request.



**Mosmatic duct cleaner**

Cleans ducts, tanks and every kind of container and realizes results like never before. Even the strongest dirt will be removed.

Depending on the kind of application you can either choose the fixed version having fixed horizontal rotor arms or the adjustable version. The angle of the rotor arms at the adjustable model can be changed thus varying the cleaning power.

The duct cleaner is equipped with a standard stainless steel cage protecting and prolonging the life of the rotor arm inside.

The field of application is almost unlimited. Mobile lavatories, drains, chimneys, rubbish chutes, ducts, tanks, container etc.

Further versions are available on request.

**TYR 2s**



TYR-2s adjustable. Duct cleaner with adjustable rotor arms for a variable spraying angle.

Completely rust-free. Inlet 3/8" F. Nozzles are excluded.

2 nozzles 1/8" M are required.

Max. 275 bar / 120 °C

R+M Nr.	∅	⊠
108 815 02	75 mm	0.5 kg
108 815 22	150 mm	0.8 kg
108 815 52	300 mm	1.1 kg

**TYR 2f**



TYR-2f fixed. Duct cleaner with straight rotor arms for a horizontal spraying angle. Ideal for the cleaning of vertical chutes. Completely rust-free.

Inlet 3/8" F. Nozzles are excluded.

2 nozzles 1/8" M are required.

Max. 275 bar / 120 °C

R+M Nr.	∅	⊠
108 814 02	75 mm	0.5 kg
108 814 22	150 mm	1.0 kg
108 814 52	300 mm	1.3 kg



**Adapter**



3/8" M : M18 F. Stainless steel

R+M Nr.
040 001 125

## weeddevil® – Our new device for weed control

- » Ideal for professional service provider in the garden-, municipal and building cleaning industry
- » Completely made out of stainless steel
- » For hot water use of up to 120 °C, 0 - 350 bar
- » Suitable for low and high pressure applications
- » A working width of 400 mm
- » 1/4" nozzles have the ideal spraying angle of 65°

» swivelling application on sloping and vertical areas is possible

**Completely chemical-free!**



**weeddevil®**



ST-2605

**LTF**

Our spray gun ST-2605 with the patented LTF technology is recommended for effortless working.



4 nozzles 1/4" M NPT are required

**At the underside:** concentrated and well-directed hot water without any temperature loss by an optimally designed housing having a perfect cleaning distance.



**Useable at the left or right:** the handle at the side optimises the handling and protects within hot water applications.

4 nozzles 1/4" M are required. 2 robustly industrial castors (260 mm). Max. 120 °C

R+M Nr.	M	castors Ø	working-↔	Ⓒ	Ⓓ	P	°C	Ⓔ	I / ↔
200 097 700	stainl. steel	260 mm	400 mm	1/4" F	4 x 1/4" F	max. 350 bar	120 °C	7.4 kg	1,250 / 530 mm

### Accessories thermometer



Easy mounting with counter plate and screws (incl.), or with back spring. 0 - 120 °C

R+M Nr.	tube-Ø
200 097 420	16 mm (weeddevil)
200 097 425	13 mm (1/4")

### Accessories flow restrictor



Flow restrictor for water reduction. Incl. adapter and nozzles (1,0, 1,1, 1,2, 1,3, 1,4)

R+M Nr.	Ⓒ	Ⓓ
200 097 750	1/4" M	1/4" M / M22 F

**Symbols** M material Ø diameter Ⓒ inlet Ⓓ outlet ↔ width I height °C temperature Ⓔ weight P pressure

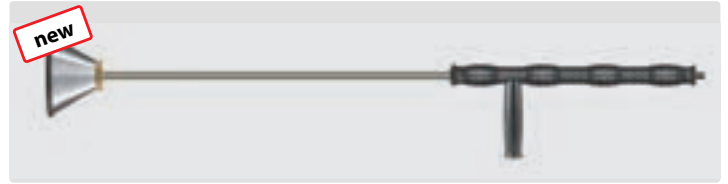
## weeddevil® – weed killer

- » Completely made out of stainless steel
- » For hot water use of up to 120 °C
- » For use in low pressure application





- » Working width 150 mm
- » Extremely robust and lightweight with 0.52 kg
- » Ideal for individual treatment



weeddevil®






Completely  
chemical-free!

weeddevil lance with cone with ST-29.2 Cool & Compact with side handle. Pleasantly ergonomic handle with 400 mm insulation. For pumps up to max. 25 l / min.: If necessary, the flow restrictor 200 097 750 has to be used

R+M Nr.				
500 097 100	1/4" F	150	120	stainless steel / brass
500 097 101	M18x1,5 F	150	120	stainless steel / brass
500 097 102	TR20x6 F	150	120	stainless steel / brass

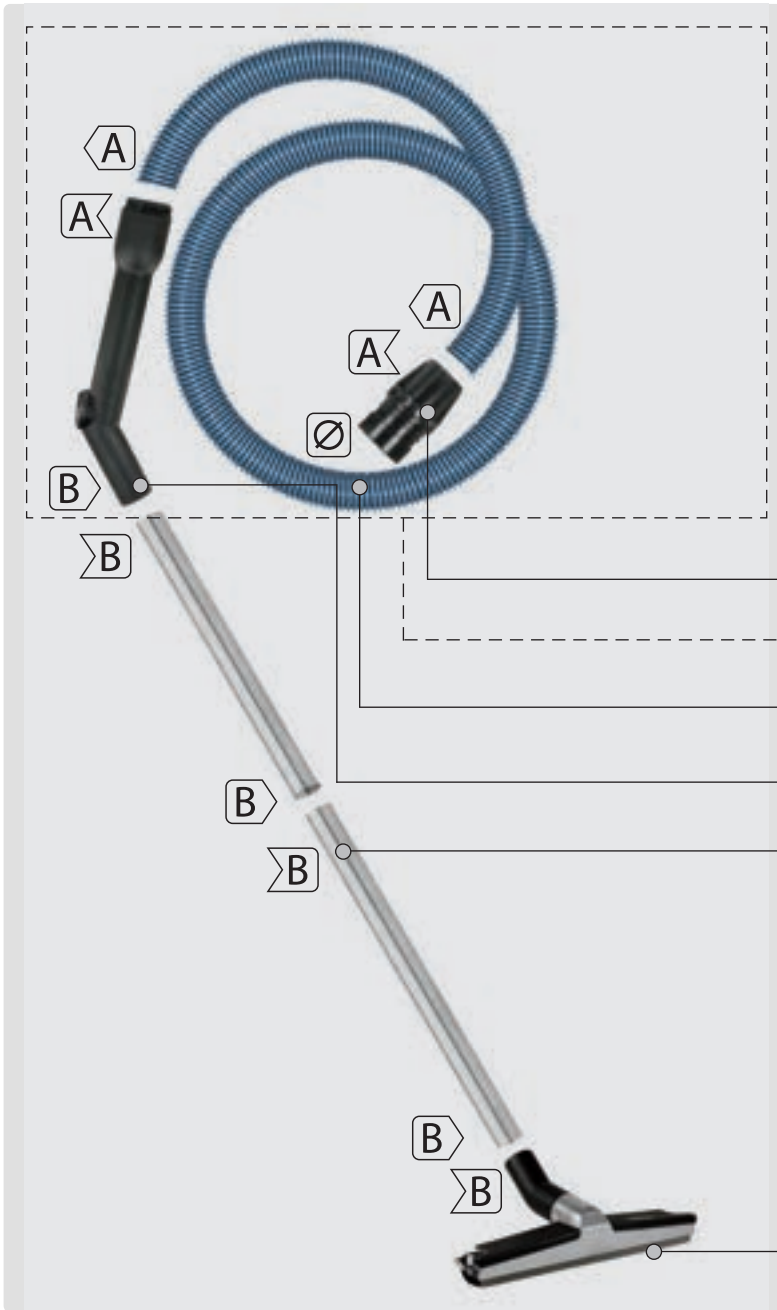
R+M Nr.				
500 097 103	1/4" M	1.150	120	stainless steel / brass

Symbols  height mm  inlet  length mm  diameter mm  material





Accessories antistatic .....	502
Accessories for floor cleaning machines .....	523
Accessories for spray-ex-sucker .....	523
Car Wash vacuum hoses .....	501
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Vacuum hoses oil-resistant .....	500
Vacuum motor cable .....	514
Vacuum motors .....	510-514
Vacuum tubes .....	494-498



S	A	= DN 32		
F	R	H	P	= DN 38
L	M	T	= DN 50	

B	= 35 mm
G	= 45 mm
O	= 58 mm

- Tank sleeve
- Hose assembled
- Vacuum hoses
- Handle with adjustment. Tool sleeve PVC / rubber
- Vacuum tubes

<del>A</del>	<del>x</del>	<del>A</del>
A	✓	A
<del>B</del>	<del>x</del>	<del>B</del>
B	✓	B
<del>A</del>	<del>x</del>	<del>B</del>
<del>B</del>	<del>x</del>	<del>B</del>

Vacuum tools

**Vacuum hoses assembled**



(265 054 + 263 253)

R+M Nr.	↔	DN	Ø	S
263 240	2 m	32	58 mm	32 mm



(265 054 + 263 653)

R+M Nr.	↔	DN	Ø	B
263 640	2 m	32	58 mm	35 mm



(265 053 + 264 051)

R+M Nr.	↔	DN	Ø	H	G
264 040	2.5 m	38	58	38	45



(265 055 + 265 051)

R+M Nr.	↔	DN	Ø	O	M
265 040	2 m	50	58	58	50

Symbols ↔ length Ø diameter in mm DN nominal diameter in mm TYP type 🚚 shipment by truck

## Tank sleeve



Ghibli

R+M Nr.	Ø	▷F
264 054	49 mm	38 mm



R+M Nr.	Ø	▷F
264 055	49 mm	38 mm



R+M Nr.	Ø	▷A
265 054	58 mm	32 mm



R+M Nr.	Ø	▷A
265 054	58 mm	32 mm



R+M Nr.	Ø	▷F
265 053	58 mm	38 mm

## Vacuum hoses

### Black

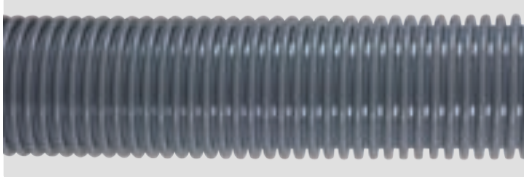
- 25 °C - + 60 °C



R+M Nr.	TYP	DN	Outer Ø	↔
262 548 20	A	25 mm	32.0 mm	20 m
263 648 20	A	32 mm	40.0 mm	20 m
263 548 20	A	35 mm	43.3 mm	20 m
264 048 *	F	38 mm	47.0 mm	1 - 20 m
264 048 20	F	38 mm	47.0 mm	20 m
265 048 *	L	50 mm	60.0 mm	1 - 20 m
265 048 20	L	50 mm	60.0 mm	20 m

### Grey

- 25 °C - + 60 °C



R+M Nr.	TYP	DN	Outer Ø	↔
263 645 *	A	32 mm	40.0 mm	1 - 20 m
263 645 20	A	32 mm	40.0 mm	20 m
264 045 *	F	38 mm	47.0 mm	1 - 20 m
264 045 20	F	38 mm	47.0 mm	20 m
265 045 *	L	50 mm	60.0 mm	1 - 20 m
265 045 20	L	50 mm	60.0 mm	20 m

### Silver

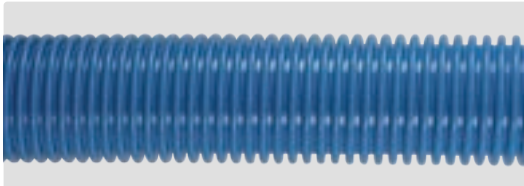
- 25 °C - + 60 °C



R+M Nr.	TYP	DN	Outer Ø	↔
262 549 20 **	A	25 mm	32.0 mm	20 m
262 749 20		27 mm	34.5 mm	20 m
263 249 20	A	32 mm	40.0 mm	20 m
263 649 20	A	36 mm	44.3 mm	20 m
264 049 20	F	38 mm	47.0 mm	20 m
265 049 20	L	50 mm	60.0 mm	20 m

### Blue

- 25 °C - + 60 °C



R+M Nr.	TYP	DN	Outer Ø	↔
264 047 20	F	38 mm	47.0 mm	20 m

### Black antistatic

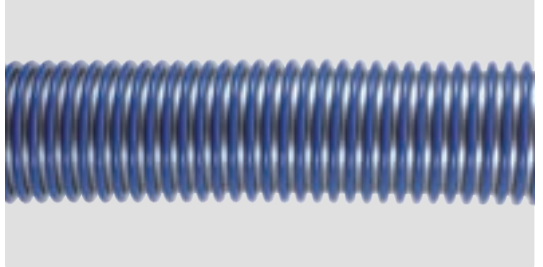
- 50 °C - + 60 °C. 10<sup>6</sup> Ω/m electrically efferent



R+M Nr.	TYP	DN	Outer Ø	↔
262 548 30	A	25 mm	35,5 mm	30 m
263 646 30	A	32 mm	40,5 mm	30 m
264 046 30	F	38 mm	48,0 mm	30 m
265 046 30	L	50 mm	61,0 mm	30 m

### EVA Silver - blue

- 45 °C - + 65 °C



R+M Nr.	TYP	DN	Outer Ø	↔
263 660 01* **	A	35 mm	42.4 mm	1 - 30 m
263 660 30	A	35 mm	42.4 mm	30 m
264 060 01 *	F	38 mm	47.6 mm	1 - 30 m
264 060 30	F	38 mm	47.6 mm	30 m
265 060 01 *	L	50 mm	60.0 mm	1 - 30 m
265 060 30	L	50 mm	60.0 mm	30 m

### Brown

- 60 °C - + 120 °C (temporary up to + 150 °C)



### Oil and temperature resistant

R+M Nr.	TYP	DN	Outer Ø	↔
263 644 *		36 mm	44.7 mm	1 - 20 m
263 644 20	A	36 mm	44.7 mm	20 m
265 044 *	A	50 mm	61.0 mm	1 - 25 m
265 044 25	L	50 mm	61.0 mm	25 m

\*\* limited stock  
\* per metre

**Tool sleeve PVC**



<b>R+M Nr.</b>		∅
263 250	A 32 mm S 32 mm	32 mm
263 650	A 32 mm B 36 mm	35 - 36 mm



<b>R+M Nr.</b>	F	∅
264 052	38 mm	45 mm



<b>R+M Nr.</b>	F	∅
264 050	38 mm	58 mm



<b>R+M Nr.</b>	A	∅	TYP
263 658	32 mm	58 mm	
265 030	32 mm	58 mm	antistatic



<b>R+M Nr.</b>	L	∅
265 050	50 mm	58 mm

**Handle with adjustment**



<b>R+M Nr.</b>			
263 253	A 32 mm	S 32 mm	
263 653	A 32 mm	B 35 mm	
263 653 1	A 32 mm	B 36 mm	
264 053	F 38 mm	G 45 mm	

**Rubber tool sleeve**



<b>R+M Nr.</b>	F	H	G
264 051	38 mm	38 mm	45 mm



<b>R+M Nr.</b>	L	O	M
265 051	50 mm	58 mm	50 mm

for 265 021

<b>R+M Nr.</b>	L	O	M
265 051	50 mm	58 mm	50 mm

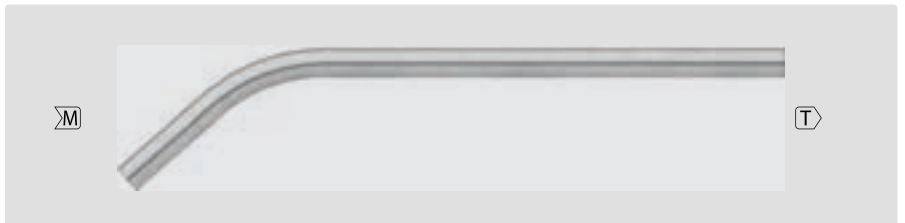
**Vacuum tubes**



<b>R+M Nr.</b>	M	↔	∅
263 623	chrome-plated	480 mm	35 mm



<b>R+M Nr.</b>	M	↔	∅
264 021	chrome-plated	1,200 mm	38 mm



<b>R+M Nr.</b>	M	↔	∅
265 021	chrome-plated	1,200 mm	50 mm



<b>R+M Nr.</b>	M	↔	∅
263 223	PVC	450 mm	32 mm
263 623 1	PVC	450 mm	35 mm



<b>R+M Nr.</b>	M	↔	∅
264 023	PVC	500 mm	45 mm



<b>R+M Nr.</b>	M	↔	∅
265 023	PVC	500 mm	58 mm

**Symbols** M material ↔ length ∅ diameter in mm DN nominal diameter TYP type



## Vacuum tools

Combi-nozzle dry. Switchable. For all carpets and hard covers. Plastic



R+M Nr.	TYP	↔	∅	
263 611	vacuum tool dry	285 mm	35 mm	B
263 211	vacuum tool dry	285 mm	32 mm	S

Combi-nozzle dry for parquet with long and soft horsehair for gentle cleaning applications on sensitive surfaces. Plastic. Soft rollers



R+M Nr.	TYP	↔	∅	
263 612 2	combi-nozzle dry	300 mm	35 mm	B

All-purpose nozzle D300. Vacuum tool with brush strips or rubber lips and height adjustable rollers. Plastic. For all carpets and hard covers



R+M Nr.	TYP	↔	∅	
263 612 31	dry tool	300 mm	35 mm	B
263 612 38	wet tool	300 mm	35 mm	B
263 612 32	set of brush strips	300 mm		
263 612 33	set of rubber lips	300 mm		

All-purpose nozzle. Vacuum tool with grooved rubber lips and height adjustable rollers. Plastic



R+M Nr.	TYP	↔	∅	
263 612 1	vacuum tool wet/dry	400 mm	35 mm	B
263 612 13	rubber lip (1 piece)		35 mm	

All-purpose nozzle D360. Vacuum tool with brush strips, rubber lips and height adjustable rollers. Plastic. For all carpets and hard covers



R+M Nr.	TYP	↔	∅	
263 612 41	vacuum tool dry	360 mm	35 mm	B
263 612 38	vacuum tool wet	360 mm	35 mm	B
263 812 41	vacuum tool dry	360 mm	38 mm	P
263 812 48	vacuum tool wet	360 mm	38 mm	P
263 612 42	set of brush strips			
263 612 43	set of rubber lips			

Floor body with exchangeable vacuum tool



R+M Nr.	TYP	↔	∅	
264 005	floor body		38 mm	P
264 007	dry tool	375 mm	38 mm	
264 006	wet tool	375 mm	38 mm	

Floor body with exchangeable vacuum tool



R+M Nr.	TYP	↔	∅	
263 605	floor body		35 mm	B
263 205	floor body		32 mm	S
263 610	dry tool	320 mm		
263 609	wet tool	320 mm		



S A = DN 32 . F = DN 38 . L = DN 50 . R = DN 38 . B = 35 mm . G = 45 mm . H = 38 mm . M = 50 mm . O = 58 mm



Vacuum tools



All-purpose nozzle M400. Vacuum tool with brush strips, rubber lips and height adjustable rollers. Plastic. For all carpets and hard covers

R+M Nr.	TYP	↔	∅	
263 213	vacuum tool wet/dry	400 mm	32 mm	S
263 613	vacuum tool wet/dry	400 mm	35 mm	B
263 813	vacuum tool wet/dry	400 mm	38 mm	P
264 013	vacuum tool wet/dry	400 mm	40 mm	K
265 013	vacuum tool wet/dry	400 mm	50 mm	T
265 000 401	set of rubber lips			
265 000 402	set of brush strips			



All-purpose nozzle with brush strips, rubber lips and height adjustable rollers. Plastic

R+M Nr.	TYP	↔	∅	
265 005	vacuum tool wet/dry	450 mm	50 mm	T
265 006	set of brush strips			
265 007	set of rubber lips			
265 007 3	oil-resistant squeegee blades			



All-purpose nozzle M450. Vacuum tool with brush strips, rubber lips and height adjustable rollers. Plastic. For all carpets and hard covers

R+M Nr.	TYP	↔	∅	
263 614	vacuum tool wet/dry	450 mm	35 mm	B
263 814	vacuum tool wet/dry	450 mm	38 mm	P
264 014	vacuum tool wet/dry	450 mm	40 mm	K
265 014	vacuum tool wet/dry	450 mm	50 mm	T
265 814	vacuum tool wet/dry	450 mm	58 mm	O A
265 000 451	set of rubber lips			
265 000 452	set of brush strips			



All-purpose nozzle GRD 370. Vacuum tool with brush strips, rubber lips and height adjustable rollers. Aluminium. For all carpets and hard covers

R+M Nr.	TYP	↔	∅	
263 612 60	vacuum tool wet	370 mm	35 mm	B
263 612 62	set of brush strips			
263 612 63	set of rubber lips			
263 612 70	oil-resistant squeegee blades			



All-purpose nozzle GRD 450. Vacuum tool with brush strips, rubber lips and height adjustable rollers. Aluminium. For all carpets and hard covers

R+M Nr.	TYP	↔	∅	
263 612 51	vacuum tool dry	450 mm	35 mm	B
263 612 52	vacuum tool wet	450 mm	35 mm	B
263 812 51	vacuum tool dry	450 mm	38 mm	P
263 812 52	vacuum tool wet	450 mm	38 mm	P
264 012 51	vacuum tool dry	450 mm	40 mm	K
264 012 52	vacuum tool wet	450 mm	40 mm	K
265 006	set of brush strips			
265 007	set of rubber lips			
265 007 3	oil-resistant squeegee blades			



All-purpose nozzle IRD 500. Vacuum tool with brush strips, rubber lips and height adjustable rollers. Aluminium. For all carpets and hard covers

R+M Nr.	TYP	↔	∅	
265 008 1	vacuum tool dry	500 mm	50 mm	T
265 008 8	vacuum tool wet	500 mm	50 mm	T
265 008 2	set of brush strips			
265 008 3	set of rubber lips			
265 009 0	oil-resistant squeegee blades			

Symbols I height ↔ length ∅ diameter TYP type DN nominal diameter

## Vacuum tools

### Upholstery suction nozzle



Brush oval

R+M Nr.		
263 618	240 mm	35 mm



R+M Nr.		
263 215	100 mm	32 mm



R+M Nr.		
263 615	130 mm	35 mm



Upholstery / mattress tool with thread lifter

R+M Nr.		
263 615 1	90 mm	35 mm



Brush rotating. Suitable for sensitive parts, upholstery & furniture

R+M Nr.		
263 617 1	220 mm	35 mm



All-purpose brush. USB

R+M Nr.		
263 618 1	230 mm	35 mm

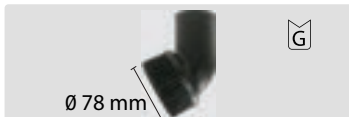
### Furniture brush



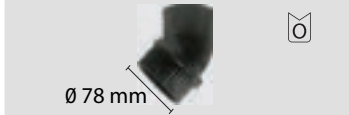
R+M Nr.	
263 217	32 mm



R+M Nr.	
263 617	35 mm



R+M Nr.	
264 017	45 mm



R+M Nr.	
265 017	58 mm



Furniture brush rotating

R+M Nr.	
263 617 2	35 mm

### Radiator brush



For grout nozzles 263 619 1 and 263 619 2, 35 mm

R+M Nr.	
263 620	140 mm



For grout nozzle 263 219, 32 mm

R+M Nr.	
263 220	140 mm

### Animal care set



Body brush

R+M Nr.		
263 624 1	240 mm	35 mm



Curry-cumb

R+M Nr.		
263 624 2	240 mm	35 mm



Curry-cumb with knobs

R+M Nr.		
263 624 3	240 mm	35 mm

### Rubber suction pipe

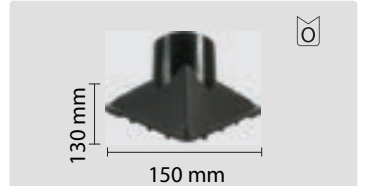


R+M Nr.	
264 028	45 mm

### Nozzle for coarse dirt



R+M Nr.	
265 016	58 mm



Triangle tool

R+M Nr.	
265 015	58 mm

### Pipe dusting nozzle



R+M Nr.		
263 629	100 mm	35 mm
263 628	200 mm	35 mm



= DN 32 . = DN 38 . = DN 50 . = DN 38 . = 35 mm . = 45 mm . = 38 mm . = 50 mm . = 58 mm

Vacuum tools

Grout nozzles



R+M Nr.	↔	∅
263 219	200 mm	32 mm



R+M Nr.	↔	∅
263 619	200 mm	35 mm
263 619 1	300 mm	35 mm
263 619 2	370 mm	35 mm



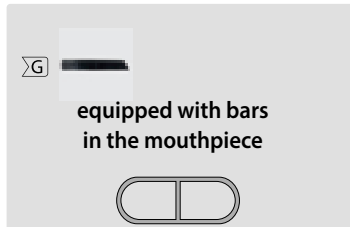
R+M Nr.	↔	∅
264 020	305 mm	38 mm



R+M Nr.	↔	∅
264 019	245 mm	45 mm



R+M Nr.	↔	∅
264 019 3	350 mm	45 mm



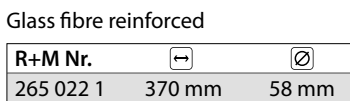
R+M Nr.	↔	∅
264 019 4	350 mm	45 mm



R+M Nr.	↔	∅
265 018	270 mm	58 mm



R+M Nr.	↔	∅
265 019	230 mm	58 mm



R+M Nr.	↔	∅
265 020	370 mm	58 mm



R+M Nr.	↔	∅
265 022	370 mm	58 mm

Flexible grout nozzles



Rotating. Anti-theft protection due to three-part clip locking system

R+M Nr.	↔	∅
264 019 12	375 mm	DN 38



Rotating. Easy assembly due to screw thread

R+M Nr.	↔	∅
264 019 1	420 mm	DN 38



With inner bar 18 cm. Rotating. Rotating. Easy assembly due to screw thread

R+M Nr.	↔	∅
264 019 11	420 mm	DN 38



Rotating. Easy assembly due to screw thread

R+M Nr.	↔	∅
265 019 1	420 mm	DN 50



With inner bar 18 cm. Rotating. Easy assembly due to screw thread

R+M Nr.	↔	∅
265 019 11	420 mm	DN 50

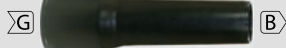


Flexible. PVC

R+M Nr.	↔	∅
263 621	630 mm	35 mm



## Reducing pieces



R+M Nr.	G	B
264 025	45 mm	35 / 36 mm



R+M Nr.	O	B
265 025	58 mm	35 / 36 mm

## Hose connectors



R+M Nr.	Ø
263 656	32 mm



R+M Nr.	Ø
264 056	38 mm



R+M Nr.	Ø
265 056	50 mm

## Electric appliance adapter

- Ø 26 mm
- Ø 32 mm
- Ø 35 mm



R+M Nr.	Ø
263 625	35 mm

## Floor tools



Floor tool dry. Height adjustable rollers. Tank sleeve 58 mm

R+M Nr.	TYP
264 032 *	vacuum hose 600 mm
264 030 *	floor tool 600 mm
264 030 1 *	set of brush stripes



Floor tool wet. Height adjustable rollers. Tank sleeve 58 mm

R+M Nr.	TYP
264 032 *	vacuum hose 600 mm
264 031 *	floor tool 600 mm
264 031 1 *	set of rubber lips

\* limited stock

S A = DN 32 . F = DN 38 . L = DN 50 . R = DN 38 . B = 35 mm . G = 45 mm . H = 38 mm . M = 50 mm . O = 58 mm



Symbols ⇄ length Ø diameter in mm TYP type DN nominal diameter

**Vacuum hoses oil-resistant**

Coiled hose made of polyester elastomer.

Properties: A profile hose made of solid plastic, smooth on the inside, with very low flow resistance, good restoring force (after compression or kinking) with excellent flexibility.

Areas of application: industrial vacuum cleaners, chemical plant construction, conveyor and suction systems, car exhaust systems, very good resistance to oil and fuels, hot air.

Temperature range: - 60 °C - + 120 °C (temporary up to + 150 °C)



R+M Nr.	TYP	DN	Outer Ø	↔
263 644 *	A	36 mm	44.7 mm	1 - 20 m
263 644 20	A	36 mm	44.7 mm	20 m
265 044 *	L	50 mm	61.0 mm	1 - 25 m
265 044 25	L	50 mm	61.0 mm	25 m

**Suction swivel arm easywash365+**

**New for self-service vacuum cleaning**

- » entirely made out of stainless steel
- » solid construction
- » suspension
- » The vertical **easywash365 +** suction swivel arm for self-service! This cost-effective solution is ideal for single suction places. In this case, the arm does not necessarily have to be integrated into the cabinet technology, but can be easily mounted on a wall. Perfect if space might be limited, because due to its construction this boom needs little space and bending over offers a lot of mobility.
- » The built-in spring prevents kinking of the suction hose and allows a barrier-free handling with optional freedom of mobility.
- » The vertical **easywash365 +** suction swivel arm is completely made out of stainless steel and is supplied including a mounting bracket.
- » Height 2,320 mm. Tube height 1,500 mm. Internal tube diameter of 65 mm. Weight 10.1 kg



R+M Nr.
109 001 500

**Crevice tool holder**

**Designed for central vacuum systems**

- » Attachment on wall, pillar, housing or floor
- » Extremely robust and stable
- » Stainless steel design, ground and brushed
- » Holders are designed for the new hose sleeves, which can also be easily swivelled under vacuum:

Holder for **264 052 9 for 45 mm**, accessories in conjunction with crevice nozzle 264 019 3 - 264 019 458 mm. Accessorie: 264 053 0

Holder for **264 053 0 for 58 mm**, accessories in conjunction with crevice nozzle 265 020 - 265 022 - 265 022 1



Crevice nozzle holder for wall mounting.  
Stainless steel

R+M Nr.	Ø
105 610 010	45 mm
105 610 011	58 mm



Crevice nozzle holder on column for floor mounting.  
Stainless steel

R+M Nr.	Ø
105 610 012	45 mm
105 610 013	58 mm



Double crevice nozzle holder on column incl. adapter plate.  
Stainless steel

R+M Nr.	Ø
105 610 014	45 mm
105 610 015	58 mm

Ⓢ ⓐ = DN 32 . ⓑ = DN 38 . Ⓒ = DN 50 . Ⓓ = DN 38 . Ⓡ = 35 mm . Ⓢ = 45 mm . Ⓣ = 38 mm . Ⓤ = 50 mm . Ⓥ = 58 mm

\* per metre

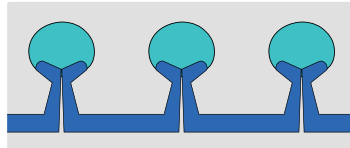




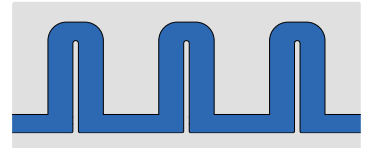
## Car Wash vacuum hoses

The Car Wash vacuum hoses are equipped with a highly abrasion- and dirt-resistant plastic coil (non marking).

- » Extremely light and very flexible structure
- » An even interior for small pressure drops
- » High elastic recovery in case of radial deformation
- » UV-resistant, weatherproof and flexible at low temperatures

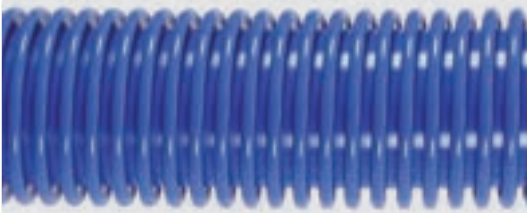


Car Wash vacuum hoses



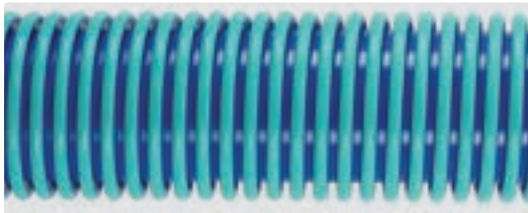
Standard vacuum hoses

Blue



R+M Nr.	TYP	DN	Outer Ø	↔
264 049 1	R	38	50 mm	16 m

Blue - turquoise



R+M Nr.	TYP	DN	Outer Ø	↔
264 049 2	R	38	50 mm	16 m



Hose connectors

R+M Nr.	Ø
264 056 1	38 mm

Sleeve



R+M Nr.	Ø	R
264 052 6	50 / 58 mm	38 mm



R+M Nr.	Ø	R
264 052 7	50 / 58 mm	38 mm



swiveling

R+M Nr.	G H	R
264 052 1	45 / 38 mm	38 mm



R+M Nr.	G H	R
264 052 4	45 / 38 mm	38 mm

Grout nozzles



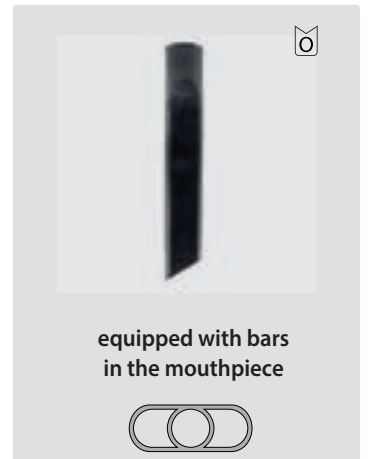
R+M Nr.	I	Ø
264 019	245 mm	45 mm



R+M Nr.	I	Ø
264 019 2	420 mm	38 mm



R+M Nr.	I	Ø
265 020	370 mm	58 mm



equipped with bars in the mouthpiece

R+M Nr.	I	Ø
265 022	370 mm	58 mm



equipped with bars in the mouthpiece

Glass fibre reinforced

R+M Nr.	I	Ø
265 022 1	370 mm	58 mm



Angle nozzle

R+M Nr.	Ø
264 052 2	38 mm



swiveling

R+M Nr.	R
264 052 9	G 45 mm 38 mm
264 053 0	O 58 mm 38 mm

Symbols I height ↔ length DN nominal diameter TYP type

Accessories antistatic

Vacuum tubes antistatic



R+M Nr.	M	↔	∅
264 023 01	<=10 <sup>4</sup> Ω/m electrically efferent	500 mm	45 mm



R+M Nr.	M	↔	∅
265 023 01	<=10 <sup>4</sup> Ω/m electrically efferent	500 mm	58 mm

Vacuum hoses black antistatic

- 50 °C - + 60 °C. 10<sup>6</sup> Ω/m electrically efferent

Black



R+M Nr.	TYP	DN	Outer ∅	↔
262 548 30	A	25 mm	35.5 mm	30 m
263 646 30	A	32 mm	40.5 mm	30 m
264 046 30	F	38 mm	48.0 mm	30 m
265 046 30	L	50 mm	61.0 mm	30 m

Hose coupling antistatic



R+M Nr.	M	F	G
264 052 01	10 <sup>4</sup> Ω/m	38 mm	45 mm



R+M Nr.	M	L	O
265 050 01	10 <sup>4</sup> Ω/m	50 mm	58 mm

Tool sleeve PVC antistatic



R+M Nr.	A	∅
265 030	32 mm	58 mm

Vacuum tools antistatic



R+M Nr.	M	I	∅
264 019 01	10 <sup>4</sup> Ω/m	250 mm	45 mm


















R+M Nr.	M	I	∅
265 019 01	10 <sup>4</sup> Ω/m	230 mm	58 mm

Ⓢ ⓐ = DN 32 . ⓑ = DN 38 . ⓓ = DN 50 . Ⓡ = DN 38 . Ⓟ = 35 mm . ⓖ = 45 mm . ⓗ = 38 mm . ⓘ = 50 mm . Ⓤ = 58 mm






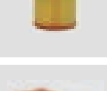




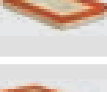



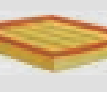
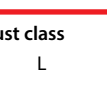


Symbols ⓘ height ↔ length ∅ diameter in mm Ⓤ internal diameter TYP type M material DN nominal diameter 🚚 shipment by truck

## Cartridge filter for cleaning devices

	<b>R+M Nr.</b> 268 263 510	<b>TYP</b> paper	$\varnothing$ 185 mm	$\odot$ 145 mm	$\text{I}$ 145 mm	<b>dust class</b> M	<b>manufacturer number</b> Festool: 485 808 Protool: 625 324 ALTO/WAP: 11753
	<b>R+M Nr.</b> 268 263 520	<b>TYP</b> PET	$\varnothing$ 185 mm	$\odot$ 145 mm	$\text{I}$ 140 mm	<b>dust class</b> M	<b>manufacturer number</b> Protool: 625 324 ALTO/ WAP: 302 000 490
	<b>R+M Nr.</b> 268 263 610	<b>TYP</b> paper	$\varnothing$ 185 mm	$\odot$ 145 mm	$\text{I}$ 233 mm	<b>dust class</b> M	<b>manufacturer number</b> Festool: 486 241 ALTO/WAP: 30063
	<b>R+M Nr.</b> 268 263 620	<b>TYP</b> paper	$\varnothing$ 185 mm	$\odot$ 145 mm	$\text{I}$ 233 mm	<b>dust class</b> H	<b>manufacturer number</b> Festool: 486 145 ALTO/WAP: 11618
	<b>R+M Nr.</b> 268 263 700	<b>TYP</b> paper / screen	$\varnothing$ 185 mm	$\odot$ 142 mm	$\text{I}$ 250 mm	<b>dust class</b> M	<b>manufacturer number</b> ALTO/WAP: 41164
	<b>R+M Nr.</b> 268 263 710	<b>TYP</b> PET / screen	$\varnothing$ 185 mm	$\odot$ 142 mm	$\text{I}$ 250 mm	<b>dust class</b> M	<b>manufacturer number</b> ALTO/WAP: 41164
	<b>R+M Nr.</b> 268 263 800	<b>TYP</b> paper / screen	$\varnothing$ 185 mm	$\odot$ 150 mm	$\text{I}$ 190 mm	<b>dust class</b> M	<b>manufacturer number</b> ALTO/WAP: 34641
	<b>R+M Nr.</b> 268 263 810	<b>TYP</b> paper / screen	$\varnothing$ 185 mm	$\odot$ 150 mm	$\text{I}$ 160 mm	<b>dust class</b> M	<b>manufacturer number</b> Lavor: 3.752.0032
	<b>R+M Nr.</b> 268 263 820	<b>TYP</b> paper / screen	$\varnothing$ 185 mm	$\odot$ 150 mm	$\text{I}$ 163 mm	<b>dust class</b> M	<b>manufacturer number</b> AquaVac: AZ91171175
	<b>R+M Nr.</b> 268 264 000	<b>TYP</b> PET	$\varnothing$ 185 mm	$\odot$ 140 mm	$\text{I}$ 115 mm	<b>dust class</b> M	<b>manufacturer number</b> Festool: 488 461 ALTO/WAP: 29747
	<b>R+M Nr.</b> 268 264 200	<b>TYP</b> paper	$\varnothing$ 203 mm	$\odot$ 140 mm	$\text{I}$ 171 mm	<b>dust class</b> M	<b>manufacturer number</b> Festool: 488 924 ALTO/WAP: 60077
	<b>R+M Nr.</b> 268 264 210	<b>TYP</b> paper	$\varnothing$ 203 mm	$\odot$ 140 mm	$\text{I}$ 171 mm	<b>dust class</b> H	<b>manufacturer number</b> Festool: 489 221 ALTO/WAP: 60076
	<b>R+M Nr.</b> 268 264 300	<b>TYP</b> screen	$\varnothing$ 185 mm	$\odot$ 142 mm	$\text{I}$ 250 mm	<b>dust class</b> -	<b>manufacturer number</b> ALTO/WAP: 10022
	<b>R+M Nr.</b> 268 264 310	<b>TYP</b> screen	$\varnothing$ 185 mm	$\odot$ 142 mm	$\text{I}$ 140 mm	<b>dust class</b> -	<b>manufacturer number</b> ALTO/WAP: 15475
	<b>R+M Nr.</b> 268 268 600	<b>TYP</b> paper	$\varnothing$ 210 mm	$\odot$ 140 mm	$\text{I}$ 140 mm	<b>dust class</b> H	<b>manufacturer number</b> Protool: 625 372 ALTO/WAP: 302000658

dust class	transmittance	endangerings	dust class	transmittance	endangerings
L	max. 1 %	keeps 99.995 % back from: » dusts with max. concentration of > 1 mg/m <sup>3</sup>	H	max. 0.01 %	keeps 99.995 % back from: » dusts with max. concentration » cancer-causing dusts » dusts with pathogenic germs
M	max. 0.10 %	keeps 99.9 % back from: » dusts with max. concentration of > 0.1 mg/m <sup>3</sup> » wood dusts (up to 1200 W/50 l)			

## Cartridge filter for cleaning devices

	<b>R+M Nr.</b> 268 268 710	<b>TYP</b> PET / screen	$\varnothing$ 275 mm	$\odot$ 218 mm	$\text{I}$ 183 mm	<b>dust class</b> M	<b>manufacturer number</b> ALTO/WAP: 107400562 Protool: 626 437
	<b>R+M Nr.</b> 268 269 000	<b>TYP</b> paper / screen	$\varnothing$ 185 mm	$\odot$ 150 mm	$\text{I}$ 201 mm	<b>dust class</b> M	<b>manufacturer number</b> Rowenta ZR-70
	<b>R+M Nr.</b> 268 269 100	<b>TYP</b> paper / screen	$\varnothing$ 190 mm	$\odot$ 145 mm	$\text{I}$ 166 mm	<b>dust class</b> M	<b>manufacturer number</b> Thomas: 787 421
	<b>R+M Nr.</b> 268 269 300	<b>TYP</b> paper	$\varnothing$ 122 mm	$\odot$ 79 mm	$\text{I}$ 113 mm	<b>dust class</b> M	<b>manufacturer number</b> Top-Craft (NT 0506)
	<b>R+M Nr.</b> 268 280 210	<b>TYP</b> paper	<b>length</b> 215 mm	$\leftrightarrow$ 115 mm	$\text{I}$ 58 mm	<b>dust class</b> M	<b>manufacturer number</b> Festool: 452 065 Kärcher: 6.904-068
	<b>R+M Nr.</b> 268 280 220	<b>TYP</b> PES	<b>length</b> 215 mm	$\leftrightarrow$ 115 mm	$\text{I}$ 58 mm	<b>dust class</b> M	<b>manufacturer number</b> Kärcher: 6.904-123
	<b>R+M Nr.</b> 268 228 200	<b>TYP</b> paper	<b>length</b> 202 mm	$\leftrightarrow$ 75 mm	$\text{I}$ 70 mm	<b>dust class</b> L	<b>manufacturer number</b> Kärcher: 6.414-498
	<b>R+M Nr.</b> 268 228 300	<b>TYP</b> paper	<b>length</b> 239 mm	$\leftrightarrow$ 140 mm	$\text{I}$ 56 mm	<b>dust class</b> L	<b>manufacturer number</b> Kärcher: 6.904-206
	<b>R+M Nr.</b> 268 228 310	<b>TYP</b> paper	<b>length</b> 239 mm	$\leftrightarrow$ 140 mm	$\text{I}$ 56 mm	<b>dust class</b> M	<b>manufacturer number</b> Kärcher: 6.904-367
	<b>R+M Nr.</b> 268 228 330	<b>TYP</b> PES	<b>length</b> 239 mm	$\leftrightarrow$ 140 mm	$\text{I}$ 56 mm	<b>dust class</b> M	<b>manufacturer number</b> Kärcher: 6.904-360
	<b>R+M Nr.</b> 268 228 340	<b>TYP</b> PES	<b>length</b> 239 mm	$\leftrightarrow$ 140 mm	$\text{I}$ 56 mm	<b>dust class</b> M	<b>manufacturer number</b> Kärcher: 6.904-360
	<b>R+M Nr.</b> 268 228 400	<b>TYP</b> paper	<b>length</b> 250 mm	$\leftrightarrow$ 150 mm	$\text{I}$ 35 mm	<b>dust class</b> M	<b>manufacturer number</b> Festool: 456 077
	<b>R+M Nr.</b> 268 228 600	<b>TYP</b> paper	<b>length</b> 300 mm	$\leftrightarrow$ 140 mm	$\text{I}$ 68 mm	<b>dust class</b> M	<b>manufacturer number</b> Kärcher: 6.904-283
	<b>R+M Nr.</b> 268 228 620	<b>TYP</b> PES	<b>length</b> 300 mm	$\leftrightarrow$ 140 mm	$\text{I}$ 68 mm	<b>dust class</b> M	<b>manufacturer number</b> Kärcher: 6.904-284
	<b>R+M Nr.</b> 268 228 900	<b>TYP</b> paper	<b>length</b> 300 mm	$\leftrightarrow$ 140 mm	$\text{I}$ 68 mm	<b>dust class</b> M	<b>manufacturer number</b> Kärcher: 6.907-276
	<b>R+M Nr.</b> 268 228 910	<b>TYP</b> PES	<b>length</b> 300 mm	$\leftrightarrow$ 140 mm	$\text{I}$ 68 mm	<b>dust class</b> M	<b>manufacturer number</b> Kärcher: 6.907-277
	<b>R+M Nr.</b> 268 228 700	<b>TYP</b> paper	<b>length</b> 278 mm	$\leftrightarrow$ 216 mm	$\text{I}$ 54 mm	<b>dust class</b> L	<b>manufacturer number</b> Kärcher: 5.731-020
	<b>R+M Nr.</b> 268 289 400	<b>TYP</b> paper	<b>length</b> 328 mm	$\leftrightarrow$ 290 mm	$\text{I}$ 50 mm	<b>dust class</b> L	<b>manufacturer number</b> ALTO/WAP: 61605

dust class	transmittance	endangerings	dust class	transmittance	endangerings
L	max. 1 %	keeps 99.995 % back from: » dusts with max. concentration of > 1 mg/m <sup>3</sup>	H	max. 0.01 %	keeps 99.995 % back from: » dusts with max. concentration » cancer-causing dusts » dusts with pathogenic germs
M	max. 0.10 %	keeps 99.9 % back from: » dusts with max. concentration of > 0.1 mg/m <sup>3</sup> » wood dusts (up to 1200 W/50 l)			

## Cartridge filter allocation for cleaning devices

Manufacturer	TYP	device	absolute filter	micro filter	filter screen
ALTO / NILFISK	wet/dry vacuum cleaner	aero 400	268 263 510		
ALTO / NILFISK	wet/dry vacuum cleaner	aero 440	268 263 510		
ALTO / NILFISK	wet/dry vacuum cleaner	aero 5 Gallon	268 263 510		
ALTO / NILFISK	wet/dry vacuum cleaner	aero 600	268 263 510		
ALTO / NILFISK	wet/dry vacuum cleaner	aero 640	268 263 510		
ALTO / NILFISK	wet/dry vacuum cleaner	aero 7 Gallon AS/E	268 263 510		
ALTO / NILFISK	wet/dry vacuum cleaner	aero 800A	268 263 510		
ALTO / NILFISK	wet/dry vacuum cleaner	aero 840A	268 263 510		
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 30-01 PC	268 263 520		268 264 310
ALTO / NILFISK	safety vacuum cleaner	Attix 30-0H PC		268 268 600	
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 30-11 PC	268 263 520		268 264 310
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 30-21 PC	268 263 520		268 264 310
ALTO / NILFISK	safety vacuum cleaner	Attix 30-2H PC		268 268 600	
ALTO / NILFISK	special vacuum cleaner	Attix 30-2M PC	268 263 520		
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 350-01	268 263 520		
ALTO / NILFISK	safety vacuum cleaner	Attix 350-0H		268 268 600	
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 360-11	268 263 520		
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 360-21	268 263 520		
ALTO / NILFISK	safety vacuum cleaner	Attix 360-2H		268 268 600	
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 40-01 PC	268 263 520		268 264 310
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 40-21 PC	268 263 520		268 264 310
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 50-01 PC	268 263 520		268 264 310
ALTO / NILFISK	safety vacuum cleaner	Attix 50-0H PC		268 268 600	
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 50-21 PC	268 263 520		268 264 310
ALTO / NILFISK	safety vacuum cleaner	Attix 50-2H PC		268 268 600	
ALTO / NILFISK	special vacuum cleaner	Attix 50-2M PC	268 263 520		268 264 310
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 550-01	268 263 520		
ALTO / NILFISK	safety vacuum cleaner	Attix 550-0H		268 268 600	
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 550-21	268 263 520		
ALTO / NILFISK	safety vacuum cleaner	Attix 550-2H		268 268 600	
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 560-21 XC	268 268 710		
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 560-2M XC	268 268 710		
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 560-31 XC	268 268 710		
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 590-21	268 263 520		
ALTO / NILFISK	safety vacuum cleaner	Attix 751-0H		268 268 600	
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 751-11	268 263 520		268 264 310
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 751-21	268 263 520		268 264 310
ALTO / NILFISK	safety vacuum cleaner	Attix 751-2M	268 263 520		
ALTO / NILFISK	water vacuum cleaner	Attix 751-61			268 264 310
ALTO / NILFISK	water vacuum cleaner	Attix 751-71			268 264 310
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 761-21 XC	268 268 710		
ALTO / NILFISK	special vacuum cleaner	Attix 763-2M ED	268 268 710		
ALTO / NILFISK	wet/dry vacuum cleaner	Attix 791-21 EC	268 263 520		
ALTO / NILFISK	high-performance vacuum cleaner	Attix 961-01	268 268 710		
ALTO / NILFISK	high-performance vacuum cleaner	Attix 963-21 ED XC	268 268 710		
ALTO / NILFISK	high-performance vacuum cleaner	Attix 965-21 SD SC	268 268 710		
ALTO / NILFISK	high-performance vacuum cleaner	EC 380-E	268 263 510		268 264 310
ALTO / NILFISK	safety vacuum cleaner	EC 380-SW/B1	268 263 610	268 263 620	
ALTO / NILFISK	high-performance vacuum cleaner	EC 480	268 263 610	268 263 620	
ALTO / NILFISK	safety vacuum cleaner	EC 480 E/IH/B1	268 263 610	268 263 620	
ALTO / NILFISK	safety vacuum cleaner	EC 480-SW/B1	268 263 610	268 263 620	
ALTO / NILFISK	high-performance vacuum cleaner	EC 850	268 263 700		268 264 300
ALTO / NILFISK	high-performance vacuum cleaner	EC 850-E	268 263 700		268 264 300
ALTO / NILFISK	self-service vacuums	SB-Saugstation	268 263 610	268 263 620	
ALTO / NILFISK	self-service vacuums	SB-Saugstation EC	268 263 610	268 263 620	
ALTO / NILFISK	self-service vacuums	SB-Saugstation Tandem	268 263 610	268 263 620	
ALTO / NILFISK	self-service vacuums	SB-Saugstation Tandem EC	268 263 610	268 263 620	
ALTO / NILFISK	wet/dry vacuum cleaner	SQ 450-11/21/31	268 264 000		268 264 310
ALTO / NILFISK	wet/dry vacuum cleaner	SQ 490-31	268 264 000		268 264 310

Symbols  height  length  diameter in mm  internal diameter TYP type



## Cartridge filter allocation for cleaning devices

Manufacturer	(TYP)	device	absolute filter	micro filter	filter screen
ALTO / NILFISK	wet/dry vacuum cleaner	SQ 550-11/21/31	268 263 510		268 264 310
ALTO / NILFISK	wet/dry vacuum cleaner	SQ 650-11	268 263 510	268 263 520	268 264 310
ALTO / NILFISK	safety vacuum cleaner	SQ 650-1H		268 264 210	
ALTO / NILFISK	safety vacuum cleaner	SQ 650-1M	268 264 200		
ALTO / NILFISK	safety vacuum cleaner	SQ 650-3H		268 264 210	
ALTO / NILFISK	safety vacuum cleaner	SQ 650-3M	268 264 200		
ALTO / NILFISK	water vacuum cleaner	SQ 650-61			268 264 310
ALTO / NILFISK	water vacuum cleaner	SQ 650-71			268 264 310
ALTO / NILFISK	wet/dry vacuum cleaner	SQ 651-11	268 263 510		268 264 310
ALTO / NILFISK	wet/dry vacuum cleaner	SQ 690-21	268 263 510		
ALTO / NILFISK	wet/dry vacuum cleaner	SQ 690-31	268 263 510		
ALTO / NILFISK	safety vacuum cleaner	SQ 690-3M/B1	268 264 200		268 264 210
ALTO / NILFISK	safety vacuum cleaner	SQ 691-9M/B1	268 264 200		268 264 210
ALTO / NILFISK	wet/dry vacuum cleaner	SQ 850-11	268 289 400		
ALTO / NILFISK	wet/dry vacuum cleaner	ST 10	268 263 510		
ALTO / NILFISK	wet/dry vacuum cleaner	ST 15	268 263 510		
ALTO / NILFISK	wet/dry vacuum cleaner	ST 20	268 263 510		
ALTO / NILFISK	wet/dry vacuum cleaner	ST 25	268 263 510		
ALTO / NILFISK	wet/dry vacuum cleaner	ST 35E	268 263 510		
ALTO / NILFISK	high-performance vacuum cleaner	turbo 1001	268 263 610	268 263 620	
ALTO / NILFISK	special water vacuum cleaner	turbo 1001 AE			268 264 310
ALTO / NILFISK	special water vacuum cleaner	turbo 1001 AE-F			268 264 310
ALTO / NILFISK	high-performance vacuum cleaner	turbo 1001 Ki	268 263 610	268 263 620	
ALTO / NILFISK	safety vacuum cleaner	turbo 1001 SA	268 263 610	268 263 620	
ALTO / NILFISK	safety vacuum cleaner	turbo 1001 SA/K1	268 263 610	268 263 620	
ALTO / NILFISK	safety vacuum cleaner	turbo 1001 SW/IH	268 263 610	268 263 620	
ALTO / NILFISK	safety vacuum cleaner	turbo 1001 SWE/I	268 263 610	268 263 620	
ALTO / NILFISK	high-performance vacuum cleaner	turbo D	268 263 700		268 264 300
ALTO / NILFISK	safety vacuum cleaner	turbo D/X-B1	268 263 700		
ALTO / NILFISK	high-performance vacuum cleaner	turbo D2	268 263 700		268 264 300
ALTO / NILFISK	safety vacuum cleaner	turbo D-B1	268 263 700		
ALTO / NILFISK	high-performance vacuum cleaner	turbo GT	268 263 800		
ALTO / NILFISK	high-performance vacuum cleaner	turbo M2	268 263 700		268 264 300
ALTO / NILFISK	high-performance vacuum cleaner	turbo M2 L	268 263 700		268 264 300
ALTO / NILFISK	safety vacuum cleaner	turbo M2 S-FA	268 263 700		268 264 300
ALTO / NILFISK	special water vacuum cleaner	turbo M2-AE			268 264 300
ALTO / NILFISK	safety vacuum cleaner	turbo SSR	268 263 510		
ALTO / NILFISK	high-performance vacuum cleaner	turbo XL	268 263 510		268 264 310
ALTO / NILFISK	high-performance vacuum cleaner	turbo XL 25	268 263 510		268 264 310
ALTO / NILFISK	safety vacuum cleaner	turbo XL-SW	268 263 510	268 263 620	
ALTO / NILFISK	safety vacuum cleaner	turbo XL-SW/IH	268 263 610	268 263 620	
ALTO / NILFISK	safety vacuum cleaner	turbo XL-SW/K1		268 263 620	
AQUAVAC	wet/dry vacuum cleaner	1000	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	2000 plera 6160 F	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	6160 F	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	6160 P dustri	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	6200 P Bulldog 6201 A	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	6201 A	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	6400 F	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	7402 B	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	7402 P	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	7403 B	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	7403 P	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	7408 P	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	7409 P	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	7413 B	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	8103 B	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	8202 B	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	8203 P	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	8204 B	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	9121 P	268 263 820		

## Cartridge filter allocation for cleaning devices

Manufacturer	TYP	device	absolute filter	micro filter	filter screen
AQUAVAC	wet/dry vacuum cleaner	9127 P	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	AZ 90304-12	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	AZ 90304-75	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	AZ 90306-12A	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	AZ 91951-10	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	euromac v10	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Hobby 11	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Hobby 22	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Hobby 24	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Hobby 33	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Hobby 36	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Hobby 44	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Hobby Vac 1000	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Max 630	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Max 7	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Multisystem 3000	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Multisystem 4000	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Multisystem 500i	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Plus 1000	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Super 615 S1	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Super 760	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Synchro 22	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Synchro 30	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Synchro 30 A	268 263 820		
AQUAVAC	wet/dry vacuum cleaner	Synchro 40 A	268 263 820		
FESTOOL	mobile dust extractor	CT 11 E	268 280 212		
FESTOOL	mobile dust extractor	CT 22 E	268 280 212		
FESTOOL	mobile dust extractor	CT 33 E/LE	268 280 212		
FESTOOL	mobile dust extractor	CT 44 E/LE	268 280 212		
FESTOOL	mobile dust extractor	CT 55 E	268 280 212		
FESTOOL	mobile dust extractor	CT Mini	268 228 400		
FESTOOL	mobile dust extractor	CTL 11 E	268 280 212		
FESTOOL	mobile dust extractor	CTL 22 E	268 280 212		
FESTOOL	mobile dust extractor	CTL 33 E/LE	268 280 212		
FESTOOL	mobile dust extractor	CTL 44 E/LE	268 280 212		
FESTOOL	mobile dust extractor	CTL 55 E	268 280 212		
FESTOOL	mobile dust extractor	CTL Mini	268 228 400		
FESTOOL	mobile dust extractor	CTM 11 E	268 280 212		
FESTOOL	mobile dust extractor	CTM 22 E	268 280 212		
FESTOOL	mobile dust extractor	CTM 33 E/LE	268 280 212		
FESTOOL	mobile dust extractor	CTM 44 E/LE	268 280 212		
FESTOOL	mobile dust extractor	CTM 55 E	268 280 212		
FESTOOL	special vacuum cleaner	SR 12 /14/15	268 263 610	268 263 620	
FESTOOL	special vacuum cleaner	SR 200/201	268 263 510		
FESTOOL	special vacuum cleaner	SR 202 /203/212	268 263 610	268 263 620	
FESTOOL	special vacuum cleaner	SR 301 /302/303	268 263 610	268 263 620	
FESTOOL	special vacuum cleaner	SR 5	268 263 510		
FESTOOL	special vacuum cleaner	SR 6	268 263 610	268 263 620	
FESTOOL	special vacuum cleaner	SRH 204 E-AS		268 264 210	
FESTOOL	special vacuum cleaner	SRH 45 E		268 264 210	
FESTOOL	special vacuum cleaner	SRM 152	268 264 200		
FESTOOL	special vacuum cleaner	SRM 212 LE-AS	268 263 610	268 263 620	
FESTOOL	special vacuum cleaner	SRM 312 LE-AS	268 263 610	268 263 620	
FESTOOL	special vacuum cleaner	SRM 45 E-AS	268 264 200		
FESTOOL	special vacuum cleaner	SRM 70 LE-EC/B1	268 264 200		
Kärcher	wet/dry vacuum cleaner	A 2701	268 228 200		
Kärcher	wet/dry vacuum cleaner	A 2731 pt	268 228 200		
Kärcher	wet/dry vacuum cleaner	A 2801 plus	268 228 200		
Kärcher	wet/dry vacuum cleaner	K 2000 E	268 280 210		

Symbols TYP type

## Cartridge filter allocation for cleaning devices

Manufacturer	TYP	device	absolute filter	micro filter	filter screen
Kärcher	wet/dry vacuum cleaner	K 2000 E	268 280 220		
Kärcher	wet/dry vacuum cleaner	K 2000 TE	268 280 210		
Kärcher	wet/dry vacuum cleaner	K 2000 TE	268 280 220		
Kärcher	wet/dry vacuum cleaner	K 2501	268 228 200		
Kärcher	wet/dry vacuum cleaner	K 2501 TE	268 228 200		
Kärcher	wet/dry vacuum cleaner	K 2601 plus	268 228 200		
Kärcher	hard cover/carpet cleaner	K 3001	268 228 200		
Kärcher	wet/dry vacuum cleaner	K 3500 E	268 280 210		
Kärcher	wet/dry vacuum cleaner	K 3500 E	268 280 220		
Kärcher	wet/dry vacuum cleaner	K 3501	268 280 210		
Kärcher	wet/dry vacuum cleaner	K 3501	268 280 220		
Kärcher	wet/dry vacuum cleaner	NT 14/1 Eco Te	268 280 220		
Kärcher	wet/dry vacuum cleaner	NT 181 profi	268 228 200		
Kärcher	wet/dry vacuum cleaner	NT 35 I Eco	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 35/1 Eco	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 35/1 Eco Bs	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 35/1 Eco M	268 228 310		
Kärcher	wet/dry vacuum cleaner	NT 35/1 Eco M	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 35/1 Eco Te	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 351 Eco	268 280 220		
Kärcher	wet/dry vacuum cleaner	NT 361 Eco	268 228 300		
Kärcher	wet/dry vacuum cleaner	NT 361 Eco BE	268 228 300		
Kärcher	wet/dry vacuum cleaner	NT 361 Eco Bs	268 228 330		
Kärcher	safety vacuum cleaner	NT 361 Eco M	268 228 300		
Kärcher	wet/dry vacuum cleaner	NT 361 Eco M	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 361 Eco TE	268 228 300		
Kärcher	wet/dry vacuum cleaner	NT 45/1 Eco	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 45/1 Eco M	268 228 310		
Kärcher	wet/dry vacuum cleaner	NT 45/1 Eco M	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 45/1 Eco Te	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 55/1 Eco	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 55/1 Eco Bs	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 55/1 Eco M	268 228 310		
Kärcher	wet/dry vacuum cleaner	NT 55/1 Eco M	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 551 Eco	268 228 700		
Kärcher	wet/dry vacuum cleaner	NT 551 Eco M	268 228 700		
Kärcher	wet/dry vacuum cleaner	NT 561 Eco	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 561 Eco	268 228 300		
Kärcher	safety vacuum cleaner	NT 561 Eco M	268 228 300		
Kärcher	wet/dry vacuum cleaner	NT 561 Eco M	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 561 Eco TE	268 228 300		
Kärcher	wet/dry vacuum cleaner	NT 611 Eco	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 611 Eco	268 228 300		
Kärcher	wet/dry vacuum cleaner	NT 611 Eco BS	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 611 Eco K	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 611 Eco KF	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 611 Eco M	268 228 330		
Kärcher	wet/dry vacuum cleaner	NT 611 Eco TE	268 228 300		
Kärcher	wet/dry vacuum cleaner	NT 65/2 Eco	268 228 600		
Kärcher	wet/dry vacuum cleaner	NT 65/2 Eco	268 228 620		
Kärcher	wet/dry vacuum cleaner	NT 65/2 Eco TC	268 228 600		
Kärcher	wet/dry vacuum cleaner	NT 65/2 Eco TC	268 228 620		
Kärcher	wet/dry vacuum cleaner	NT 700 Eco	268 228 700		
Kärcher	wet/dry vacuum cleaner	NT 702 Eco	268 228 700		
Kärcher	wet/dry vacuum cleaner	NT 72/2 Eco Tc	268 228 620		
Kärcher	wet/dry vacuum cleaner	NT 72/2 Eco TC	268 228 600		
Kärcher	wet/dry vacuum cleaner	IVC 60/12-1 Tact Ec	268 228 900		
Kärcher	wet/dry vacuum cleaner	IVC60/24-2 Tact <sup>2</sup>	268 228 900		
Kärcher	wet/dry vacuum cleaner	IVC 60/24-2 TactLp	268 228 900		
Kärcher	wet/dry vacuum cleaner	IVC60/24-2 Tact <sup>2</sup> M	268 228 900		
Kärcher	wet/dry vacuum cleaner	IVC 60/30 Tact <sup>2</sup>	268 228 900		

## Cartridge filter allocation for cleaning devices

Manufacturer	TYP	device	absolute filter	micro filter	filter screen
Kärcher	wet/dry vacuum cleaner	NT55/2 Tact <sup>2</sup> Mel	268 228 900		
Kärcher	wet/dry vacuum cleaner	NT65/2 Tact <sup>2</sup>	268 228 900		
Kärcher	wet/dry vacuum cleaner	NT65/2 Tact <sup>2</sup> Tc	268 228 900		
Kärcher	wet/dry vacuum cleaner	NT75/2 Tact <sup>2</sup> Me	268 228 900		
Kärcher	wet/dry vacuum cleaner	NT75/2 Tact <sup>2</sup> MeTc	268 228 900		
Kärcher	wet/dry vacuum cleaner	IVC 60/12-1Tact EC	268 228 910		
Kärcher	wet/dry vacuum cleaner	IVC60/24-2 Tact <sup>2</sup>	268 228 910		
Kärcher	wet/dry vacuum cleaner	IVC60/24-2 Tact <sup>2</sup> Lp	268 228 910		
Kärcher	wet/dry vacuum cleaner	IVC60/30 Tact <sup>2</sup>	268 228 910		
Kärcher	wet/dry vacuum cleaner	NT65/2 Tact <sup>2</sup>	268 228 910		
Kärcher	wet/dry vacuum cleaner	NT65/2 Tact <sup>2</sup> Tc	268 228 910		
Kärcher	wet/dry vacuum cleaner	NT75/2 Tact <sup>2</sup> Me	268 228 910		
Kärcher	wet/dry vacuum cleaner	NT75/2 tact <sup>2</sup> MeTc	268 228 910		
LAVOR	vacuum cleaner	GBX 22; GBX 32	268 263 810		
LAVOR	vacuum cleaner	Genio	268 263 810		
LAVOR	vacuum cleaner	GN 22; GN 32	268 263 810		
LAVOR	vacuum cleaner	GNX 22; GNX 32	268 263 810		
LAVOR	vacuum cleaner	Nilo	268 263 810		
PROTOOL	vacuum cleaner	VCP 250 E	268 263 510		
PROTOOL	vacuum cleaner	VCP 260 E-L		268 263 520	
PROTOOL	vacuum cleaner	VCP 260 E-M		268 263 520	
PROTOOL	vacuum cleaner	VCP 32 E			
ROWENTA	multipurpose vacuum cleaner	BP 61	268 269 000		
ROWENTA	multipurpose vacuum cleaner	Bully	268 269 000		
ROWENTA	multipurpose vacuum cleaner	Collecto	268 269 000		
ROWENTA	multipurpose vacuum cleaner	Multicraft (ZR-70)	268 269 000		
ROWENTA	multipurpose vacuum cleaner	NT-Serie (ZR-70)	268 269 000		
ROWENTA	multipurpose vacuum cleaner	RB-Serie (ZR-70)	268 269 000		
ROWENTA	multipurpose vacuum cleaner	ZR 80; ZR 81	268 269 000		
THOMAS	wet/dry vacuum cleaner	820	268 269 100		
THOMAS	wet/dry vacuum cleaner	1620	268 269 100		
THOMAS	wet/dry vacuum cleaner	1020; 1030; 1031	268 269 100		
THOMAS	wet/dry vacuum cleaner	1043 LG	268 269 100		
THOMAS	wet/dry vacuum cleaner	1120 comfort	268 269 100		
THOMAS	wet/dry vacuum cleaner	1120; 1130	268 269 100		
THOMAS	wet/dry vacuum cleaner	1218 plus	268 269 100		
THOMAS	wet/dry vacuum cleaner	1220 plus	268 269 100		
THOMAS	wet/dry vacuum cleaner	1220 S	268 269 100		
THOMAS	wet/dry vacuum cleaner	1220; 1231; 1243	268 269 100		
THOMAS	wet/dry vacuum cleaner	1231 E	268 269 100		
THOMAS	wet/dry vacuum cleaner	1250 S	268 269 100		
THOMAS	wet/dry vacuum cleaner	1320; 1330	268 269 100		
THOMAS	wet/dry vacuum cleaner	1445 S	268 269 100		
THOMAS	wet/dry vacuum cleaner	1518; 1520	268 269 100		
THOMAS	wet/dry vacuum cleaner	1520 C	268 269 100		
THOMAS	wet/dry vacuum cleaner	1520 plus	268 269 100		
THOMAS	wet/dry vacuum cleaner	1620 C	268 269 100		
THOMAS	wet/dry vacuum cleaner	786/B	268 269 100		
THOMAS	wet/dry vacuum cleaner	826 SD; 826 SDE	268 269 100		
THOMAS	wet/dry vacuum cleaner	920; 926	268 269 100		
THOMAS	wet/dry vacuum cleaner	931 SL	268 269 100		
THOMAS	wet/dry vacuum cleaner	Bravo 20 Biturbo	268 269 100		
THOMAS	wet/dry vacuum cleaner	Compact 20; 20R; 20S	268 269 100		
THOMAS	wet/dry vacuum cleaner	Hobby 1000	268 269 100		
THOMAS	wet/dry vacuum cleaner	Hobby Vac	268 269 100		
THOMAS	wet/dry vacuum cleaner	Inox 1220	268 269 100		
THOMAS	wet/dry vacuum cleaner	Inox 20 Professional	268 269 100		
THOMAS	wet/dry vacuum cleaner	Inox 30 Professional	268 269 100		
THOMAS	wet/dry vacuum cleaner	Junior 1216; 1230; 1516	268 269 100		

Symbols TYP type

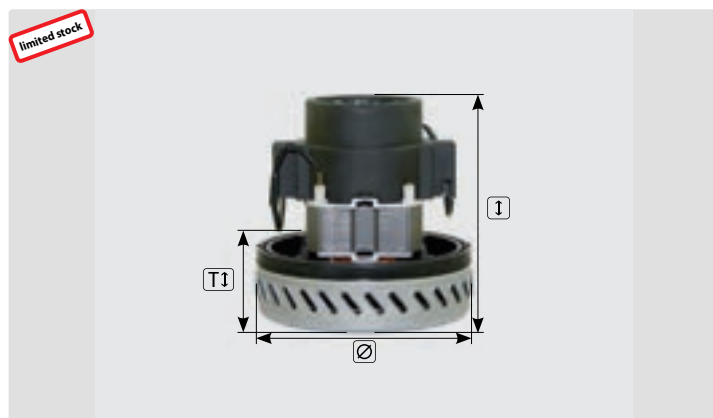
### Cartridge filter allocation for cleaning devices

Manufacturer	TYP	device	absolute filter	micro filter	filter screen
THOMAS	wet/dry vacuum cleaner	Multivac Studio 1030 E	268 269 100		
THOMAS	wet/dry vacuum cleaner	Multivac Studio 1035	268 269 100		
THOMAS	wet/dry vacuum cleaner	Multivac Studio 1235	268 269 100		
THOMAS	wet/dry vacuum cleaner	Power Boy 1218	268 269 100		
THOMAS	wet/dry vacuum cleaner	Power Edition 1530	268 269 100		
THOMAS	wet/dry vacuum cleaner	Silverstar 1220; 1235	268 269 100		
THOMAS	wet/dry vacuum cleaner	Studio 1030	268 269 100		
THOMAS	wet/dry vacuum cleaner	Super 30	268 269 100		
THOMAS	wet/dry vacuum cleaner	Super 30 R	268 269 100		
THOMAS	wet/dry vacuum cleaner	Super 30 S	268 269 100		
THOMAS	wet/dry vacuum cleaner	Syntho	268 269 100		
THOMAS	wet/dry vacuum cleaner	Twin	268 269 100		
THOMAS	wet/dry vacuum cleaner	Vario 20	268 269 100		
THOMAS	wet/dry vacuum cleaner	Vario 20 S	268 269 100		
TOP-CRAFT	wet/dry vacuum cleaner	NT 0506; NT 0507; NT 0609	268 269 300		

### Vacuum motors

#### Applies to all wet and dry motors

- » 2-ball bearings
- » Double insulation
- » Insulation class "B"



1 stage. 230 V / 50 Hz.  
Cable type 3 enclosed

R+M Nr.	TYP	W	I	TI	Ø	VPE
262 101	069200001	1,000	144	45	144	1



1 stage. 230 V / 50 Hz.  
Cable pre-installed

R+M Nr.	TYP	W	I	TI	Ø	VPE
262 110 004	universal	1,100	142	46	144	1
262 110 004 006	universal	1,100	142	46	144	6



1 stage with waste air pipe & base. Voltage: 24 V.  
Cable pre-installed

R+M Nr.	TYP	W	I	TI	Ø	VPE
262 037 131	119 652-29	370	166	52	144	1
262 037 132	universal	370	152	52	144	1
262 037 132 006	universal	370	152	52	144	6



1 stage with waste air pipe and base.  
230 V / 50 Hz. Cable type 3 enclosed

R+M Nr.	TYP	W	I	TI	Ø	VPE
262 090 131	069400001	1,000	147	49	144	1

Symbols W watt I height TI turbine height Ø diameter TYP type VPE Verpackungseinheit



## Vacuum motors



1 stage. 230 V / 50 Hz.  
Cable type 2 enclosed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 110 101	061200219 / 6110930052	1,100	133	49	148	1



2 stage. 24 V.  
Cable pre-installed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 050 230	069103006	500	171	68	144	1



2 stage. 230 V / 50 Hz.  
Cable type 1 enclosed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 080 103	universal	800	168	67	144	1
262 080 103 006	universal	800	168	67	144	6
262 100 103	universal	1,000	174	67	144	1
262 100 103 006	universal	1,000	174	67	144	6
262 120 103	universal	1,200	175	66	144	1
262 120 103 006	universal	1,200	175	66	144	6
262 120 303	universal	1,200	168	67	144	1
262 120 303 006	universal	1,200	168	67	144	6
262 120 704	universal	1,200	174	67	144	1
262 120 704 006	universal	1,200	174	67	144	6

With thermal safety device

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 120 203	universal	1,200	178	72	144	1
262 120 203 006	universal	1,200	178	72	144	6
262 140 103	universal	1,400	176	72	144	1
262 140 103 006	universal	1,400	176	72	144	6



2 stage. 230 V / 50 Hz.  
Cable type 1 enclosed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 080 102	361	800	163	72	144	1
262 100 102	7568	1,000	170	72	144	1
262 120 102	7778-5	1,200	178	72	144	1
262 120 302	7363-12	1,200	163	72	144	1
262 120 702	586-2	1,200	170	67	144	1

With thermal safety device

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 120 202	7778-4	1,200	178	72	144	1
262 140 102	7788	1,400	176	72	144	1



2 stage. 230 V / 50 Hz.  
Cable type 2 enclosed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 100 202	BDS 10302 / 6110930135	1.000	167	70	144	1
262 120 602	BDS 12382 / 6110930141	1.200	176	70	144	1

## Vacuum motors



2 stage. 230 V / 50 Hz.  
Cable pre-installed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 110 103	universal	1,100	173	66	145	1
262 110 103 006	universal	1,100	173	66	145	6



2 stage. 230 V / 50 Hz.  
Cable pre-installed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 110 002	570	1,100	175	60	144	1



2 stage. 230 V / 50 Hz.  
Cable type 2 enclosed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 120 502	A210	1,200	181	67	144	1



2 stage. 230 V / 50 Hz.  
Cable pre-installed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 120 802	universal	1,200	170	66	144	1
262 120 804 006	universal	1,200	170	66	144	6



3 stage with waste air pipe. 230 V / 50 Hz.  
Cable pre-installed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 160 103	116 136-00	1,600	198	87	183	1



2 stage. 230 V / 50 Hz.  
Cable pre-installed

R+M Nr.	VPE	W	I	Ti	Ø	VPE
262 120 902	universal	1,200	172	66	148	1
262 120 902 006	universal	1,200	172	66	148	6

Symbols W watt I height Ti turbine height Ø diameter TYP type

## Vacuum motors

new



2 stage with waste air pipe and base.  
Voltage: 24 V. Cable pre-installed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 043 213	universal	430	170	69	144	1
262 043 213 006	universal	430	170	69	144	6



3 stage with waste air pipe. Cable pre-installed.  
262 064 113 : 24/50 Hz. 262 074 113 : 36/50 Hz

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 064 113	116 515-13	640	199	91	144	1
262 074 113	116 513-13	740	199	91	144	1



2 stage with waste air pipe. 24 V.  
Cable pre-installed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 043 112	116 157-00	430	165	69	145	1
262 043 113	universal	430	165	69	145	1
262 043 113 006	universal	430	165	69	145	6



2 stage with waste air pipe. 24 V.  
Cable pre-installed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 050 112	63265R	500	168	72	144	1



1 stage. 230 V / 50 Hz.  
Cable pre-installed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 120 104	402-6	1,200	128	42	134	1



1 stage. 230 V / 50 Hz.  
Cable type 1 enclosed

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 150 104	404-2	1,500	128	42	134	1



1 stage. 230 V / 50 Hz.  
Without cable, (Cable type 1 optional)

R+M Nr.	TYP	W	I	Ti	Ø	VPE
262 120 703	063700003 / 6110930052	1,200	136	46	143	1
262 120 701	064200001 / 6110820039	1,200	131	45	127	1

Vacuum motors



1 stage. 230 V / 50 Hz.  
Without cable, (Cable type 1 optional)

R+M Nr.	TYP	W	i	Ti	Ø	VPE
262 100 001	063200074 / 6210820033	1,050	122	45	130	1
262 100 002	universal	1,050	122	45	130	1
262 100 002 006	universal	1,050	122	45	130	6



1 stage. 230 V / 50 Hz.  
Without cable, (Cable type 1 optional)

R+M Nr.	TYP	W	i	Ti	Ø	VPE
262 120 801	063200085 / 6210820036	1,200	128	51	132	1

Further vacuum motors are available on request.

Vacuum motor cable



Cable lug 6.3 : cable lug 4.8.  
Cable 500 mm.  
Cable type 1

R+M Nr.
262 000 001



Fork 3.5 : open.  
Cable 300 mm.  
Cable type 2

R+M Nr.
262 000 002



Wire end ferrule 2.8 : open.  
Cable 300 mm.  
Cable type 3

R+M Nr.
262 000 003

Carbon brushes



R+M Nr.	suitable for R+M Nr.
262 000 102	262 080 102
262 000 102	262 100 102
262 000 102	262 120 102
262 000 102	262 120 202
262 000 102	262 120 302
262 000 202	262 140 102
262 000 202	262 120 702
262 000 402	262 100 202
262 000 402	262 120 602



R+M Nr.	suitable for R+M Nr.
262 000 502	262 100 001
262 000 101	262 110 002
262 120 1	262 101
262 120 1	262 120
262 120 3	262 120 902

Seal



Rubber ring. For sealing and heightening the motor

R+M Nr.	Ø	i
267 158 0	144 mm	20 mm

Motor cover



Cover for vacuum motors: 262 101, 262 120, 262 120 402, 262 120 502, 262 120 104

R+M Nr.
262 000 600

## Motor allocation for vacuum motors

There are many new vacuum motors in the range - further models are available on request!

R+M Nr.	suitable for	VPE	TYP
262 100 102	Ackermann & Schmitt	1	Flex S 34
262 100 103 006	Ackermann & Schmitt	6	Flex S 34
262 120 802	Ackermann & Schmitt	1	Flex S 36 . S 38 K
262 120 804 006	Ackermann & Schmitt	6	Flex S 36 . S 38 K
262 160 103	Active	1	Pro . Pro Plus
262 050 230*	Adiatek	1	Amber 66 - 24 Volt . Jade 50 . Jade 55 . Jade 55 C . Ruby 45 . Ruby 55
262 064 113	Adiatek	1	Coral 65
262 100 102	AL-CO	1	Jet Stream
262 100 103 006	AL-CO	6	Jet Stream
262 110 001*	AL-CO	1	Alto-Nr. 47751
262 110 004 006	AL-CO	6	Alto-Nr. 47751
262 043 213 006	Alto	6	Encore L 17 . Encore S 17
262 050 112*	Alto	1	SSB 430 . SSB 540 . SSB 540 S . SSB 600 . SSE 600 . SSB 660 M . SSB 800 . SSE 800
262 050 112*	Alto	1	Vision 17 E . Vision 17 B . Vision 20 E . Vision 21i . Vision V . Vision 26i . Vision 26 ix
262 080 102	Alto	1	M 1 . M 2 . M 2S-FA . M 2 AE . M 2 SW-K1
262 080 103 006	Alto	6	M 1 . M 2 . M 2S-FA . M 2 AE . M 2 SW-K1
262 100 102	Alto	1	1001 . 1001 Euro . 1001 KL . 1001 SA . 1001AE . 1001AE F . 1001 SA-K1 . 1001-SW-ICH . 1001-SWE-ICH
262 100 102	Alto	1	XL . XL-E . XL-25 . XL-SW-IH . XL-SWE-IH . XL-SW-K1
262 100 102	Alto	1	SQ 450-1H . SQ 650-1H . turbo 1001 . turbo 1001 Euro . turbo 1001 KI . turbo 1001 SA . turbo 1001 AE . turbo 1001 AE/F . turbo 1001 SA/KI . turbo 1001 SW/ICH . turbo 1001 SWE/ICH . turbo M1 . turbo M2 . turbo XL...
262 100 103 006	Alto	6	1001 . 1001 Euro . 1001 KL . 1001 SA . 1001AE . 1001AE F . 1001 SA-K1 . 1001-SW-ICH . 1001-SWE-ICH
262 100 103 006	Alto	6	XL . XL-E . XL-25 . XL-SW-IH . XL-SWE-IH . XL-SW-K1
262 100 103 006	Alto	6	SQ 450-1H . SQ 650-1H . turbo 1001 . turbo 1001 Euro . turbo 1001 KI . turbo 1001 SA . turbo 1001 AE . turbo 1001 AE/F . turbo 1001 SA/KI . turbo 1001 SW/ICH . turbo 1001 SWE/ICH . turbo M1 . turbo M2 . turbo XL...
262 120 202	Alto	1	SB 680 . SB 710 . SB 711
262 120 203 006	Alto	6	SB 680 . SB 710 . SB 711
262 120 202	Alto	1	Attix 3 (until model 2007) . Attix 4 . Attix 5 (until model 2007) . Attix 6 . Attix 7 . Attix 9 (until model 2007) . Attix 350-01/Attix 360-21/Attix 360-2M
262 120 203 006	Alto	6	Attix 3 (until model 2007) . Attix 4 . Attix 5 (until model 2007) . Attix 6 . Attix 7 . Attix 9 (until model 2007) . Attix 350-01/Attix 360-21/Attix 360-2M
262 120 202	Alto	1	SQ 400 . SQ 450 . SQ 450 . SQ 500 . SQ 550 . SQ 600 . SQ 650 . SQ 651-11 . Turbo SR-C . Turbo SR-U
262 120 203 006	Alto	6	SQ 400 . SQ 450 . SQ 450 . SQ 500 . SQ 550 . SQ 600 . SQ 650 . SQ 651-11 . Turbo SR-C . Turbo SR-U
262 120 102	Alto	1	Attix 3.. (bis 2007), Attix 4., Attix 5.. (bis 2007), Attix 6., Attix 7., Attix 9.. (until 2007), SB 710, SB 711, SB 680, SQ 400, SQ 450-11, SQ 450-21, SQ 450-31, SQ 450-1M, SQ 450-3M, SQ 450-3H, SQ 500, SQ 550-11, SQ 550-21, SQ 550-31, SQ 600, SQ 650-11, SQ 650-61, SQ 650-71, SQ 650-1M, SQ 650-3M, SQ 650-3H, SQ 651-11, Turbo SR-C, Turbo SR-U
262 120 103 006	Alto	6	Attix 3.. (until 2007), Attix 4., Attix 5.. (until 2007), Attix 6., Attix 7., Attix 9.. (until 2007), SB 710, SB 711, SB 680, SQ 400, SQ 450-11, SQ 450-21, SQ 450-31, SQ 450-1M, SQ 450-3M, SQ 450-3H, SQ 500, SQ 550-11, SQ 550-21, SQ 550-31, SQ 600, SQ 650-11, SQ 650-61, SQ 650-71, SQ 650-1M, SQ 650-3M, SQ 650-3H, SQ 651-11, Turbo SR-C, Turbo SR-U
262 140 102	Alto	1	SB Station 2000 . SB Station TA 00 . SQ 850-11
262 140 103 006	Alto	6	SB Station 2000 . SB Station TA 00 . SQ 850-11
262 064 113	Alto Clarke	1	V17 . V20 . V21 . Vision V . Encore 24 . Encore 26 . Encore 20L . Encore 20S
262 074 113	Alto Clarke	1	V26 . V32 . Encore 28 . Encore 33 . Encore 38
262 110 001*	Alto Wap	1	ST 10.20
262 110 004 006	Alto Wap	6	ST 10.20
262 120 701	Alto Wap	1	Maxxi WD
262 160 103	Ashbys	1	Commander
262 080 102	AWA	1	Saugboy
262 080 103 006	AWA	6	Saugboy
262 100 102	AWA	1	Saugboy Compact
262 100 103 006	AWA	6	Saugboy Compact
262 120 102	BOSCH	1	GAS 25 GAS 50 GAS 50M

Symbols **TYP** type **VPE** packing unit



## Motor allocation for vacuum motors

R+M Nr.	suitable for	VPE	TYP
262 120 103 006	BOSCH	6	GAS 25 GAS 50 GAS 50M
262 110 102	CFM	1	127 (2 motors) . 137 (3 motors)
262 110 103 006	CFM	6	127 (2 motors) . 137 (3 motors)
262 050 230*	Cimex	1	EB 600
262 043 112	Clarke	1	1700 . 2000
262 043 113 006	Clarke	6	1700 . 2000
262 043 212	Clarke	1	2000
262 043 213 006	Clarke	6	
262 050 112*	Clarke	1	1700
262 050 230*	Clarke	1	TB 18
262 064 113	Clarke	1	AD 240 . V 20 . V 21 . Vision V
262 074 113	Clarke	1	AD 280 . V 26 . V 32
262 043 213 006	Cleanfix	6	RA 400 . RA 530 B
262 050 112*	Cleanfix	1	RA 55 B 50 . RA 80 B . RA 410 B . RA 430 B . RA 501 B . RA 561 B . RA 700 B . RA 800 . RA 900
262 100 001	Cleanfix	1	RS 05 . S 12+
262 100 002 006	Cleanfix	6	RS 05 . S 12+
262 043 112	Cleanfix	1	RA 430 B
262 043 113 006	Cleanfix	6	RA 430 B
262 100 001	Cleanfix	1	RS 05 . S 12+ . RA 430 B
262 100 002 006	Cleanfix	6	RS 05 . S 12+ . RA 430 B
262 043 112	Columbus	1	RA 55 B 50 . RA 80 B
262 043 113 006	Columbus	6	RA 55 B 50 . RA 80 B
262 050 112*	Columbus	1	RA 55 B 50 . RA 80 B
262 050 230*	Columbus	1	BF 42
262 064 113	Columbus	1	RA 66 . ARA 80 BM 100 . ARA 80 BM 150
262 110 102	Columbus	1	RA 43 . SW 2000 . SW 3000 . SW 53
262 110 103 006	Columbus	6	RA 43 . SW 2000 . SW 3000 . SW 53
262 120 801	Columbus	1	ST 7
262 120 701	Columbus	1	RS 27 . ST 22
262 120 702	Columbus	1	RS 27 . ST 22
262 120 704 006	Columbus	6	RS 27 . ST 22
262 037 131	Comac	1	Abila 17 . Abila 42 . Abila 45 . Abila 52
262 037 132 006	Comac	6	Abila 17 . Abila 42 . Abila 45 . Abila 52
262 043 112	Comac	1	CB 40 . CB 50 . L 17 B . L 17-41 B . S 42 B . L17 . 41B . Simpla 45 . Simpla 50
262 043 113 006	Comac	6	CB 40 . CB 50 . L 17 B . L 17-41 B . S 42 B . L17 . 41B . Simpla 45 . Simpla 50
262 050 112*	Comac	1	CB 40 . CB 50 . L 17 B . L 17-41 B . S 42 B . L17 . 41B . Simpla 45 . Simpla 50
262 050 230*	Comac	1	L 20 . L 24 B . LB 20
262 074 113	Comac	1	C 83 B . C 85 B . C 100 B . C 104 B . C 125 . Flexy 75 . Flexy 85 . Tripla 65 . Tripla 75
262 100 102	Comac	1	CA 30 . CA 80
262 100 103 006	Comac	6	CA 30 . CA 80
262 043 213 006	Comac	6	Simpla 45 . Simpla 50
262 043 112	Dulevo	1	Hydro 18 . Hydro 20
262 043 113 006	Dulevo	6	Hydro 18 . Hydro 20
262 043 213 006	Electrolux	6	34 5B . 355 B
262 100 001	Elektrolux	1	Z 910
262 100 002 006	Elektrolux	6	Z 910
262 160 103	Elite	1	dl . 2000
262 120 102	Fein	1	SQ 450-21
262 120 103 006	Fein	6	SQ 450-21
262 120 202	Fein	1	SQ 450-21
262 120 203 006	Fein	6	SQ 450-21
262 110 001*	Festo / Festool	1	CTL Midi
262 110 004 006	Festo / Festool	6	CTL Midi
262 100 102	Festool	1	SR 5 E . SR 5 E-AS . SR 5 LE-AS . SR 6 E-AS . SR 12 E-AS . SR 12 LE-AS . SR 13 E . SR 14 E-AS
262 100 103 006	Festool	6	SR 5 E . SR 5 E-AS . SR 5 LE-AS . SR 6 E-AS . SR 12 E-AS . SR 12 LE-AS . SR 13 E . SR 14 E-AS
262 100 102	Festool	1	SR 14 LE-AS . SR 15 E
262 100 103 006	Festool	6	SR 14 LE-AS . SR 15 E
262 120 102	Festool	1	CTL 22 E . SR 212 LE-AS . SRH 204 E-AS
262 120 103 006	Festool	6	CTL 22 E . SR 212 LE-AS . SRH 204 E-AS
262 120 202	Festool	1	SR 151E-AS . SR 151 LE-AS . SRM 152 E-AS . SRH 153 . SR 200 E . SR 201 E-AS . SR 201 LE-AS
262 120 203 006	Festool	6	SR 151E-AS . SR 151 LE-AS . SRM 152 E-AS . SRH 153 . SR 200 E . SR 201 E-AS . SR 201 LE-AS

## Motor allocation for vacuum motors

There are many new vacuum motors in the range - further models are available on request!

R+M Nr.	suitable for	VPE	TYP
262 120 202	Festool	1	SR 202 E-AS . SE 203 E-AS . SR 203 LE-AS . SR 301 L-AS . SE 301 LE-AS . SR 302 E-AS . SR 303 E-AS
262 120 203 006	Festool	6	SR 202 E-AS . SE 203 E-AS . SR 203 LE-AS . SR 301 L-AS . SE 301 LE-AS . SR 302 E-AS . SR 303 E-AS
262 120 202	Festool	1	SR 212 . SR 312 . SRH 204 E-AS . SR 212 LE-AS . SRH 204 E-AS
262 120 203 006	Festool	6	SR 212 . SR 312 . SRH 204 E-AS . SR 212 LE-AS . SRH 204 E-AS
262 120 802	Festool	1	CT 22, CT 33, CTL 22 E/SR 15 TE-AS, SR 151 LE-AS, SR 200 E, SR 201 LE-AS, SR 202 LE-AS, SR 202 E-AS, SR 212,
262 120 804 006	Festool	6	CT 22, CT 33, CTL 22 E/SR 15 TE-AS, SR 151 LE-AS, SR 200 E, SR 201 LE-AS, SR 202 LE-AS, SR 202 E-AS, SR 212
262 120 802	Festool	1	SR 212 LE-AS, SR 301 L-AS, SR 302 E-AS, SR 303 E-AS, SRM152 E-AS, SRH 153, SHR 201 E-AS, SE 203 E-AS, SE 203
262 120 804 006	Festool	6	SR 212 LE-AS, SR 301 L-AS, SR 302 E-AS, SR 303 E-AS, SRM152 E-AS, SRH 153, SHR 201 E-AS, SE 203 E-AS, SE 203
262 120 802	Festool	1	LE-AS, SHR 204 E-AS, SE 301 LE-AS
262 120 804 006	Festool	6	LE-AS, SHR 204 E-AS, SE 301 LE-AS
262 037 131	Fimap	1	Mini
262 037 132 006	Fimap	6	Mini
262 043 213 006	Fimap	6	42 . 452 . 52 . 502 . 53 BTM . Gamma 50
262 064 113	Fimap	1	Gamma 65
262 074 113	Fimap	1	Magna 100 S
262 050 112*	Fiorentini	1	Monodisco S 45 B . Monodisco S 53 B
262 050 230*	Fiorentini	1	ICM 21 . ICM 26 B
262 120 702	Flex	1	S 47
262 120 704 006	Flex	6	S 47
262 100 102	Flex-Ackermann	1	Flex S 34
262 100 103 006	Flex-Ackermann	6	Flex S 34
262 120 102	Flex-Ackermann	1	Flex S 38 K
262 120 103 006	Flex-Ackermann	6	Flex S 38 K
262 120 202	Flex-Ackermann	1	Flex S 38 K
262 120 203 006	Flex-Ackermann	6	Flex S 38 K
262 043 213 006	Floor	6	Shark 45 . Shark 54 . Shark 60
262 050 112*	Floor	1	54 ECO
262 074 113	Floor	1	450 . 530
262 037 131	Floordress	1	S 12 +
262 037 132 006	Floordress	6	S 12 +
262 100 001	Floordress	1	S 12 +
262 100 002 006	Floordress	6	S 12 +
262 043 112	Floorpul	1	AM116157.13
262 043 113 006	Floorpul	6	AM116157.13
262 043 213 006	Floorpul	6	AM116157.29
262 064 113	Floorpul	1	AM116515.13
262 074 113	Floorpul	1	AM116513.13
262 120 502	Früh	1	Ronda 200
262 043 112	Gansow	1	35 BF 46
262 043 113 006	Gansow	6	35 BF 46
262 050 112*	Gansow	1	35 BF 46
262 110 102	Ghibli	1	AS10 . AS27 . AS59 . AS59P . AS60
262 110 103 006	Ghibli	6	AS10 . AS27 . AS59 . AS59P . AS60
262 120 502	Ghibli	1	AS 400
262 120 701	Ghibli	1	GHIBLI 2505325
262 120 702	Ghibli	1	Hilti VC20 . VC 40 ( older model )
262 120 704 006	Ghibli	6	Hilti VC20 . VC 40 ( older model )
262 120 902	Ghibli	1	AS 400
262 100 001	Ghibli	1	AS 6
262 100 002 006	Ghibli	6	AS 6
262 120 701	Ghibli	1	AS 9 . SP 8
262 064 113	Gutbrod	1	NRA 600 BAE
262 043 212	Hako	1	B 43 . B 43 Super . B 55 . B 65 . B 75 . B 85 . B 450 . B 530 . B 550 . B 650 . B 750 . B 850
262 043 213 006	Hako	6	B 43 . B 43 Super . B 55 . B 65 . B 75 . B 85 . B 450 . B 530 . B 550 . B 650 . B 750 . B 850
262 050 230*	Hako	1	SBR 50 . SBR 60

Symbols TYP type VPE packing unit

## Motor allocation for vacuum motors

R+M Nr.	suitable for	VPE	TYP
262 074 113	Hako	1	B 90 . BS 100 . Hakomatic 100 . Hakomatic 130 . Hakomatic 1000-100 . Hakomatic 1000-130
262 110 102	Hako	1	E 350
262 110 103 006	Hako	6	E 350
262 120 102	Hako	1	VC 380 H . VC 380 W . VC 500 W . VC 640 S . VC 640 W
262 120 103 006	Hako	6	VC 380 H . VC 380 W . VC 500 W . VC 640 S . VC 640 W
262 120 202	Hako	1	VC 380 H . VC 380 W . VC 500 W . VC 640 S . VC 640 W
262 120 203 006	Hako	6	VC 380 H . VC 380 W . VC 500 W . VC 640 S . VC 640 W
262 120 701	Hako	1	Super Vac L 1-30
262 120 802	Hako	1	VC 380 H, VC 380 W, VC 500 W, VC 640 S, VC 640 W
262 120 804 006	Hako	6	VC 380 H, VC 380 W, VC 500 W, VC 640 S, VC 640 W
262 140 102	Hako	1	VC 800 W
262 140 103 006	Hako	6	VC 800 W
262 064 113	Hefter	1	ST 81 . ST 111
262 043 112	Henkel	1	BA 4300
262 043 113 006	Henkel	6	BA 4300
262 120 102	Hilti	1	WVC 40-M
262 120 103 006	Hilti	6	WVC 40-M
262 120 202	Hilti	1	WVC 40-M
262 120 203 006	Hilti	6	WVC 40-M
262 120 802	Hilti	1	WVC 40-M
262 120 804 006	Hilti	6	WVC 40-M
262 100 001	Hitachi	1	CV 200 CV 300
262 100 002 006	Hitachi	6	CV 200 CV 300
262 120 801	Igefa	1	VC 14
262 100 001	Igefa	1	VC 14
262 100 002 006	Igefa	6	VC 14
262 110 102	IPC	1	Cleantime 12
262 110 103 006	IPC	6	Cleantime 12
262 043 112	Kärcher	1	BD 450 . BD 550 . BR 530 . BR 550 . BR 700 (24V-BAT)
262 043 113 006	Kärcher	6	BD 450 . BD 550 . BR 530 . BR 550 . BR 700 (24V-BAT)
262 050 112*	Kärcher	1	B 60 . BD 90/140 R . BD 550 . BD 750 . BR 75/140 R ECO . BR 90/140 R . BR 530 . BR 550 (24V-BAT) . BR 700 . BR 750
262 074 113	Kärcher	1	BD 700 . BR 700
262 080 102	Kärcher	1	BR 400 . DUO SB
262 080 103 006	Kärcher	6	BR 400 . DUO SB
262 101*	Kärcher	1	NT 221 . NT 351 . NT 361
262 110 101	Kärcher	1	6.490-110
262 110 102	Kärcher	1	NT 601 . NT 651 . NT 800 . NT 801
262 110 103 006	Kärcher	6	NT 601 . NT 651 . NT 800 . NT 801
262 120 102	Kärcher	1	DUO SB Serie
262 120 103 006	Kärcher	6	DUO SB Serie
262 120 104	Kärcher	1	A 2200 . WD 5.400 . WD 5.500 . WD 5.600
262 120 702	Kärcher	1	NT 361 ECO . NT 561 ECO . NT65/2 ECO . NT 72/2 ECO
262 120 703	Kärcher	1	NT 14-1 . NT 25-1 . NT 35-1 . NT 45-1 . NT 55-1 . 6.490-166.0
262 120 704 006	Kärcher	6	NT 14-1 . NT 25-1 . NT 35-1 . NT 45-1 . NT 55-1 . 6.490-166.0
262 120 802	Kärcher	1	T 201
262 120 804 006	Kärcher	6	T 201
262 160 103	Kärcher	1	Puzzi Profi K . Puzzi Profi 200
262 110 001*	Kärcher	1	2501 . 2801 . A 2800 . 2001 . 2501 . NT 200 . NT 221 . NT 301 . NT 351 . NT 27-1
262 110 004 006	Kärcher	6	2501 . 2801 . A 2800 . 2001 . 2501 . NT 200 . NT 221 . NT 301 . NT 351 . NT 27-1
262 100 001	Kärcher	1	T12-1
262 100 002 006	Kärcher	6	T12-1
262 120 701	Kärcher	1	SV 1902 . SV 1820
262 100 001	Kenter Kenbo	1	Silent 25 S Plus
262 100 002 006	Kenter Kenbo	6	Silent 25 S Plus
262 140 102	Kistool	1	1515 N
262 140 103 006	Kistool	6	1515 N
262 074 113	Kleenrite	1	HX 5120
262 100 102	Makita	1	441
262 100 103 006	Makita	6	441
262 120 102	Makita	1	443 . 444 M . 447 L

## Motor allocation for vacuum motors

R+M Nr.	suitable for	VPE	TYP
262 120 103 006	Makita	6	443 . 444 M . 447 L
262 120 202	Makita	1	443 . 444 M . 447 L
262 120 203 006	Makita	6	443 . 444 M . 447 L
262 120 802	Makita	1	443,444 M
262 120 804 006	Makita	6	443,444 M
262 043 112	Minuteman	1	170
262 043 113 006	Minuteman	6	170
262 064 113	Minuteman	1	200 . 340
262 074 113	Minuteman	1	320 . 3200 . 3800
262 043 213 006	Nilco	6	E 400 . E 410 . E480
262 050 112*	Nilco	1	430 B
262 101*	Nilco	1	S 18
262 110 102	Nilco	1	445
262 110 103 006	Nilco	6	445
262 140 102	Nilco	1	GS 1725
262 140 103 006	Nilco	6	GS 1725
262 110 001*	Nilco	1	S 17 NT . S 18 . S 32
262 110 004 006	Nilco	6	S 17 NT . S 18 . S 32
262 043 112	Nilfisk-Advance	1	BA 450 . BA 530 . BA 600 . BA 650 . SSB 430 . SSB 480 . SSB 540 . SSB 540 S . SSB 600 . SSE
262 043 113 006	Nilfisk-Advance	6	BA 450 . BA 530 . BA 600 . BA 650 . SSB 430 . SSB 480 . SSB 540 . SSB 540 S . SSB 600 . SSE
262 043 213 006	Nilfisk-Advance	6	W 345
262 050 112*	Nilfisk-Advance	1	BA 430 . BA 450 . BA 451 . BA 530 . BA 531 . BA 600 . BA 650
262 064 113	Nilfisk-Advance	1	BR 700 . BR 750 . BR 850 . BR 1000 . Trac 240
262 074 113	Nilfisk-Advance	1	AR 4100 . Trac 280 . BA 700 S . BA 800 . BR 850
262 100 001	Nilfisk-Advance	1	GD 1000 . GMP Serie . Viking GD 110 . GM 80
262 100 002 006	Nilfisk-Advance	6	GD 1000 . GMP Serie . Viking GD 110 . GM 80
262 100 102	Nilfisk-Advance	1	UZ 878
262 100 103 006	Nilfisk-Advance	6	UZ 878
262 120 102	Nilfisk-Advance	1	IVB . 3
262 120 103 006	Nilfisk-Advance	6	IVB . 3
262 120 202	Nilfisk-Advance	1	IVB . 3
262 120 203 006	Nilfisk-Advance	6	IVB . 3
262 120 502	Nilfisk-Advance	1	WD 200
262 120 701	Nilfisk-Advance	1	GWD 375 . GWD 350
262 120 801	Nilfisk-Advance	1	Bacuum . GD 1000 . GD 2000 . GMP Serie . GS 82 . King GM 200 . King GM 300 . GM 80
262 120 802	Nilfisk-Advance	1	IVB/3
262 120 804 006	Nilfisk-Advance	6	IVB/3
262 120 902	Nilfisk-Advance	1	WD 200
262 043 213 006	Nilfisk-Alto	6	2000 . Encore S 17 . L 17
262 050 112*	Nilfisk-Alto	1	SSB 400 . SSB 430 . SSB 480 . SSB 480 W . SSB 540 . SSB 540 S . SSB 600 . SSE 600 . SSB 660 M . SSB 80 [...]
262 050 112*	Nilfisk-Alto	1	Scrubtec 343 B . B Combi . E . Vision 17 E+B . Vision 20 E . Vision 21i . Vision V . Vision 26i + [...]
262 064 113	Nilfisk-Alto	1	Encore 24 . Encore 26 . Encore L 20 (24 version) . Encore S 20 (24 Volt)
262 074 113	Nilfisk-Alto	1	Encore 28 . Encore 33 . Encore 38 . R 38 . Scrubtec 770 S . Vision 26 . Vision 32
262 110 001*	Nilfisk-Alto	1	ST 10.20 . ST Aero . Alto-Nr. 47751
262 110 004 006	Nilfisk-Alto	6	ST 10.20 . ST Aero . Alto-Nr. 47751
262 080 102	Nilfisk-Alto	1	M 1 . M 2 . M 2S-FA . M 2 AE . M 2 SW-K1
262 080 103 006	Nilfisk-Alto	6	M 1 . M 2 . M 2S-FA . M 2 AE . M 2 SW-K1
262 100 102	Nilfisk-Alto	1	SQ 450-1H . SQ 650-1H . turbo 1001 . turbo 1001 Euro . turbo 1001 KI . turbo 1001 SA . turbo 1001 AE
262 100 102	Nilfisk-Alto	1	turbo 1001 AE/F . turbo 1001 SA/KI . turbo 1001 SW/ICH . turbo 1001 SWE/ICH . turbo M1 . turbo M2 turbo XL...
262 100 103 006	Nilfisk-Alto	6	SQ 450-1H . SQ 650-1H . turbo 1001 . turbo 1001 Euro . turbo 1001 KI . turbo 1001 SA . turbo 1001 AE
262 100 103 006	Nilfisk-Alto	6	turbo 1001 AE/F . turbo 1001 SA/KI . turbo 1001 SW/ICH . turbo 1001 SWE/ICH . turbo M1 . turbo M2
262 100 103 006	Nilfisk-Alto	6	turbo XL...
262 120 102	Nilfisk-Alto	1	SB 680 . SB 710 . SB 711
262 120 103 006	Nilfisk-Alto	6	SB 680 . SB 710 . SB 711
262 120 102	Nilfisk-Alto	1	Attix 3 (until 2007) . Attix 4 . Attix 5 (until model 2007) . Attix 6 . Attix 7 . Attix 9 (until 2007)
262 120 103 006	Nilfisk-Alto	6	Attix 3 (until 2007) . Attix 4 . Attix 5 (until 2007) . Attix 6 . Attix 7 . Attix 9 (until 2007)
262 120 102	Nilfisk-Alto	1	Attix 350-01/Attix 360-21/Attix 360-2M

Symbols **TYP** type **VPE** packing unit

## Motor allocation for vacuum motors

R+M Nr.	suitable for	VPE	TYP
262 120 103 006	Nilfisk-Alto	6	Attix 350-01/Attix 360-21/Attix 360-2M
262 120 102	Nilfisk-Alto	1	SQ 400 . SQ 450 . SQ 450 . SQ 500 . SQ 550 . SQ 600 . SQ 650 . SQ 651-11 . Turbo SR-C . Turbo SR-U
262 120 103 006	Nilfisk-Alto	6	SQ 400 . SQ 450 . SQ 450 . SQ 500 . SQ 550 . SQ 600 . SQ 650 . SQ 651-11 . Turbo SR-C . Turbo SR-U
262 120 202	Nilfisk-Alto	1	SB 680 . SB 710 . SB 711
262 120 203 006	Nilfisk-Alto	6	SB 680 . SB 710 . SB 711
262 120 202	Nilfisk-Alto	1	Attix 3 (until 2007) . Attix 4 . Attix 5 (until 2007) . Attix 6 . Attix 7 . Attix 9 (until 2007)
262 120 203 006	Nilfisk-Alto	6	Attix 3 (until 2007) . Attix 4 . Attix 5 (until 2007) . Attix 6 . Attix 7 . Attix 9 (until 2007)
262 120 202	Nilfisk-Alto	1	Attix 350-01/Attix 360-21/Attix 360-2M
262 120 203 006	Nilfisk-Alto	6	Attix 350-01/Attix 360-21/Attix 360-2M
262 120 202	Nilfisk-Alto	1	SQ 400 . SQ 450 . SQ 450 . SQ 500 . SQ 550 . SQ 600 . SQ 650 . SQ 651-11 . Turbo SR-C . Turbo SR-U
262 120 203 006	Nilfisk-Alto	6	SQ 400 . SQ 450 . SQ 450 . SQ 500 . SQ 550 . SQ 600 . SQ 650 . SQ 651-11 . Turbo SR-C . Turbo SR-U
262 120 701	Nilfisk-Alto	1	Maxxi WD . Maxxi WD 7
262 120 702	Nilfisk-Alto	1	Maxxi GWD 300 . GWD 375
262 120 704 006	Nilfisk-Alto	6	Maxxi GWD 300 . GWD 375
262 120 802	Nilfisk-Alto	1	Attix 3.. (until 2007), Attix 4.., Attix 5.. (until 2007), Attix 6.., Attix 7.., Attix 9.. (until 2007), SB 710, SB 711, SB 680
262 120 804 006	Nilfisk-Alto	6	Attix 3.. (until 2007), Attix 4.., Attix 5.. (until 2007), Attix 6.., Attix 7.., Attix 9.. (until 2007), SB 710, SB 711, SB 680
262 120 802	Nilfisk-Alto	1	SQ 400, SQ 450-11, SQ 450-21, SQ 450-31, SQ 450-1M, SQ 450-3M, SQ 450-3H, SQ 500, SQ 550-11 SQ 550-21,
262 120 804 006	Nilfisk-Alto	6	SQ 400, SQ 450-11, SQ 450-21, SQ 450-31, SQ 450-1M, SQ 450-3M, SQ 450-3H, SQ 500, SQ 550-11 SQ 550-21
262 120 802	Nilfisk-Alto	1	SQ 550-31, SQ 600, SQ 650-11, SQ 650-61, SQ 650-71, SQ 650-1M, SQ 650-3M, SQ 650-3H, SQ 651-11
262 120 804 006	Nilfisk-Alto	6	SQ 550-31, SQ 600, SQ 650-11, SQ 650-61, SQ 650-71, SQ 650-1M, SQ 650-3M, SQ 650-3H, SQ 651-11
262 120 802	Nilfisk-Alto	1	Turbo SR-C, Turbo SR-U
262 120 804 006	Nilfisk-Alto	6	Turbo SR-C, Turbo SR-U
262 140 102	Nilfisk-Alto	1	SB Station 2000 . SB Station TA 00 . SQ 850-11
262 140 103 006	Nilfisk-Alto	6	SB Station 2000 . SB Station TA 00 . SQ 850-11
262 043 112	Nobles	1	1700 . 2000
262 043 113 006	Nobles	6	1700 . 2000
262 050 112*	Nobles	1	1700 . 2000
262 064 113	Nobles	1	2400 . 2700
262 080 102	Numatic	1	WVD 2002 P
262 080 103 006	Numatic	6	WVD 2002 P
262 100 001	Numatic	1	Henry HVR 200
262 100 002 006	Numatic	6	Henry HVR 200
262 100 102	Numatic	1	WVD 900
262 100 103 006	Numatic	6	WVD 900
262 110 102	Numatic	1	WVD572 . WV 900
262 110 103 006	Numatic	6	WVD572 . WV 900
262 120 802	Numatic	1	TTB 3450
262 120 804 006	Numatic	6	TTB 3450
262 100 001	Numatic	1	Henry HVR 200
262 100 002 006	Numatic	6	Henry HVR 200
262 120 502	Portotecnica	1	Lavamatic 450
262 074 113	Power Boss	1	TSS 65
262 120 801	Profi-Europe	1	Profi 1
262 120 102	Protool	1	VCP 450 E-L
262 120 103 006	Protool	6	VCP 450 E-L
262 110 001*	Protool	1	VCP 30 E
262 110 004 006	Protool	6	VCP 30 E
262 043 213 006	Pulimat	6	
262 050 230*	Pulimat	1	355 . 365 . 375
262 050 230*	RCM	1	LB 530
262 120 102	Renfert	1	Vortex Compact 2 L 230 . Vortex Compact 2 EC 230 . Vortex Compact 2 L 120 . Vortex EC 2 M 230 V
262 120 103 006	Renfert	6	Vortex Compact 2 L 230 . Vortex Compact 2 EC 230 . Vortex Compact 2 L 120 . Vortex EC 2 M 230 V
262 120 202	Renfert	1	Vortex Compact 2 L 230 . Vortex Compact 2 EC 230 . Vortex Compact 2 L 120 . Vortex EC 2 M 230 V
262 120 203 006	Renfert	6	Vortex Compact 2 L 230 . Vortex Compact 2 EC 230 . Vortex Compact 2 L 120 . Vortex EC 2 M 230 V
262 120 802	Renfert	1	Vortex Compact 2 L 230 . Vortex Compact 2 EC 230 . Vortex Compact 2 L 120 . Vortex EC 2 M 230 V
262 120 804 006	Renfert	6	Vortex Compact 2 L 230 . Vortex Compact 2 EC 230 . Vortex Compact 2 L 120 . Vortex EC 2 M 230 V
262 050 112*	Rotofill	1	R 36 AT SS



## Motor allocation for vacuum motors

R+M Nr.	suitable for	VPE	TYP
262 120 502	Rotofill	1	R 31 AL SS
262 120 502	Ruwac	1	WS 2000
262 120 902	Ruwac	1	WS 2000
262 120 102	Scheppach	1	Wovota 4
262 120 103 006	Scheppach	6	Wovota 4
262 120 202	Scheppach	1	Wovota 4
262 120 203 006	Scheppach	6	Wovota 4
262 100 102	SIA	1	Siaclean UE-1
262 100 103 006	SIA	6	Siaclean UE-1
262 120 102	SIA	1	Siaclean CE 3H . Siaclean CP 3 H
262 120 103 006	SIA	6	Siaclean CE 3H . Siaclean CP 3 H
262 120 202	SIA	1	Siaclean CE 3H . Siaclean CP 3 H
262 120 203 006	SIA	6	Siaclean CE 3H . Siaclean CP 3 H
262 050 230*	Sorma	1	Kobra 5064 . Kobra 4100
262 064 113	Sorma	1	Kobra 5560
262 074 113	Sorma	1	5152 K
262 120 102	Sorma	1	520
262 120 103 006	Sorma	6	520
262 120 202	Sorma	1	520
262 120 203 006	Sorma	6	520
262 120 802	Sorma	1	520
262 120 804 006	Sorma	6	520
262 120 502	Sorma	1	Kobra 600
262 100 202	Soteco	1	BDS35
262 120 602	Soteco	1	BDS45
262 120 801	Sprintus	1	T 11
262 110 001*	Starmix	1	AS 1232
262 110 004 006	Starmix	6	AS 1232
262 100 102	Stihl	1	SE 100, SE 200, SE 201, SE 202
262 100 103 006	Stihl	6	SE 100, SE 200, SE 201, SE 202
262 101	Stihl	1	SE 50-90 . SE 60-60E
262 120 102	Stihl	1	SE 120 . SE 120 E . SE 121 . SE 121 E . SE 122 . SE 122 E . SE 61 . SE 61 E
262 120 103 006	Stihl	6	SE 120 . SE 120 E . SE 121 . SE 121 E . SE 122 . SE 122 E . SE 61 . SE 61 E
262 120 202	Stihl	1	SE 120 . SE 120 E . SE 121 . SE 121 E . SE 122 . SE 122 E . SE 61 . SE 61 E
262 120 203 006	Stihl	6	SE 120 . SE 120 E . SE 121 . SE 121 E . SE 122 . SE 122 E . SE 61 . SE 61 E
262 120 802	Stihl	1	SE 61, SE 61 E, SE 120, SE 120 E, SE 121, SE 121 E, SE 122, SE 122 E, SE 1211
262 120 804 006	Stihl	6	SE 61, SE 61 E, SE 120, SE 120 E, SE 121, SE 121 E, SE 122, SE 122 E, SE 1211
262 110 001*	Stihl	1	SE 50 - 90 . SE 60 - 60 E
262 110 004 006	Stihl	6	SE 50 - 90 . SE 60 - 60 E
262 140 102	Swiss Vacuum	1	PU 120
262 140 103 006	Swiss Vacuum	6	PU 120
262 043 112	Taski	1	110 . Combimat 600 . Combimat 800 BMS . 600 . 1100
262 043 113 006	Taski	6	110 . Combimat 600 . Combimat 800 BMS . 600 . 1100
262 050 112*	Taski	1	110 . Combimat 600 . Combimat 800 BMS
262 050 230*	Taski	1	Swingo 750 . Swingo 1250
262 110 102	Taski	1	S 3 K
262 110 103 006	Taski	6	S 3 K
262 043 113 006	Tennant	6	T 3
262 043 213 006	Tennant	6	5100
262 064 113	Tennant	1	2001 . 2401 . 5400 . T5
262 074 113	Tennant	1	510 . 515 . 5680 . 5700 . 7100 . 7200 . 7300 . 7400
262 160 103	Truvox	1	Valet
262 100 001	Vermop	1	Jet Vac
262 100 002 006	Vermop	6	Jet Vac
262 120 102	WAP	1	SQ 4 . SQ 450-11 . SQ 550-11 . SQ 650-11 . SQ 651-11 . SQ 850-11
262 120 103 006	WAP	6	SQ 4 . SQ 450-11 . SQ 550-11 . SQ 650-11 . SQ 651-11 . SQ 850-11
262 120 802	WAP	1	M2 L

Symbols **TYP** type **VPE** packing unit

## Motor allocation for vacuum motors

R+M Nr.	suitable for	VPE	TYP
262 120 804 006	WAP	6	M2 L
262 110 001*	WAP	1	RA 500 E
262 110 004 006	WAP	6	RA 500 E
262 101*	WAP Alto	1	ST . Aero
262 120 102	WAP Alto	1	SQ 400 . SQ 450 . SQ 450 . SQ 500 . SQ 550 . SQ 600 . SQ 650 . SQ 651-11 . Turbo SR-C . Turbo SR-U
262 120 103 006	WAP Alto	6	SQ 400 . SQ 450 . SQ 450 . SQ 500 . SQ 550 . SQ 600 . SQ 650 . SQ 651-11 . Turbo SR-C . Turbo SR-U
262 120 104	WAP Alto	1	Attix 30 . 40 . 50
262 120 202	WAP Alto	1	SQ 400-600 . Attix 350 . 550 . 560 . 7
262 120 203 006	WAP Alto	6	SQ 400-600 . Attix 350 . 550 . 560 . 7
262 140 102	WAP Alto	1	SQ 651-11 . SQ 850
262 140 103 006	WAP Alto	6	SQ 651-11 . SQ 850
262 100 102	Wap-ALTO	1	SQ 450-1H . SQ 650-1H . turbo 1001 . turbo 1001 Euro . turbo 1001 KI . turbo 1001 SA . turbo 1001 AE . turbo 1001 AE/F . turbo 1001 SA/KI . turbo 1001 SW/ICH . turbo 1001 SWE/ICH . turbo M1 . turbo M2 . turbo XL...
262 100 103 006	Wap-ALTO	6	SQ 450-1H . SQ 650-1H . turbo 1001 . turbo 1001 Euro . turbo 1001 KI . turbo 1001 SA . turbo 1001 AE . turbo 1001 AE/F . turbo 1001 SA/KI . turbo 1001 SW/ICH . turbo 1001 SWE/ICH . turbo M1 . turbo M2 . turbo XL...
262 043 112	Weidner	1	Comet (all battery-powered models)
262 043 113 006	Weidner	6	Comet (all battery-powered models)
262 050 112	Weidner	1	Comet (all battery-powered models)
262 100 001	Wetroc	1	Monovac 6 . Monovac 9
262 100 002 006	Wetroc	1	Monovac 6 . Monovac 9
262 050 230*	Wetrok	1	Duomatic 430 B . Duomatic 501 BM
262 064 113	Wetrok	1	500 . 650
262 074 113	Wetrok	1	800
262 100 001	Wetrok	1	Monovac 6 . Monovac 9
262 100 002 006	Wetrok	1	Monovac 6 . Monovac 9
262 110 102	Wetrok	1	Duovack 18 . 34
262 110 103 006	Wetrok	6	Duovack 18 . 34
262 120 701	Wetrok	1	Twin Vac 18
262 120 701	Wetrok	1	Twin Vac 18
262 120 702	Wetrok	1	Twin Vac
262 120 704 006	Wetrok	6	Twin Vac
262 050 230*	Wirbel	1	Rapid 380 24 Volt Version
262 120 102	Würth	1	ISS 35 . ISS 35-S
262 120 103 006	Würth	6	ISS 35 . ISS 35-S
262 120 202	Würth	1	ISS 35 . ISS 35-S
262 120 203 006	Würth	6	ISS 35 . ISS 35-S
262 120 702	Würth	1	ISS 35-S . ISS 45 . ISS 55
262 120 704 006	Würth	6	ISS 35-S . ISS 45 . ISS 55

## Saugerfilter

Filtertuch mit Rand



2 micron

R+M Nr.	∅	h
267 073 0	400 mm	340 mm

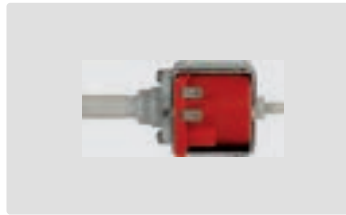
Nylonfilter



R+M Nr.	∅	h
267 070 5	330 mm	400 mm
267 070 6	360 mm	500 mm

## Zubehör für Sprüh-Ex-Sauger

Vorsprühpumpe



Pumpe für Sprüh-Ex-Sauger EP7

R+M Nr.
267 191 0

Polsterdüse

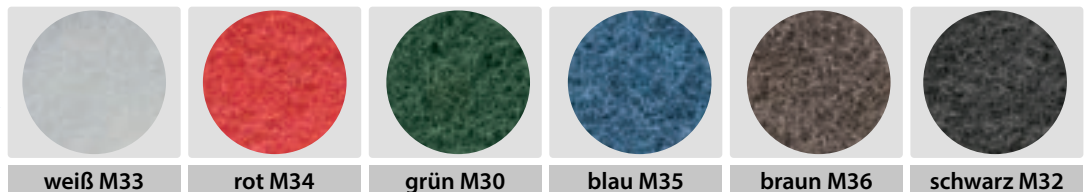


R+M Nr.	∅
263 626	36 + 40 mm

## Zubehör für Scheuersaugmaschinen

Superpads

Je dunkler - desto härter

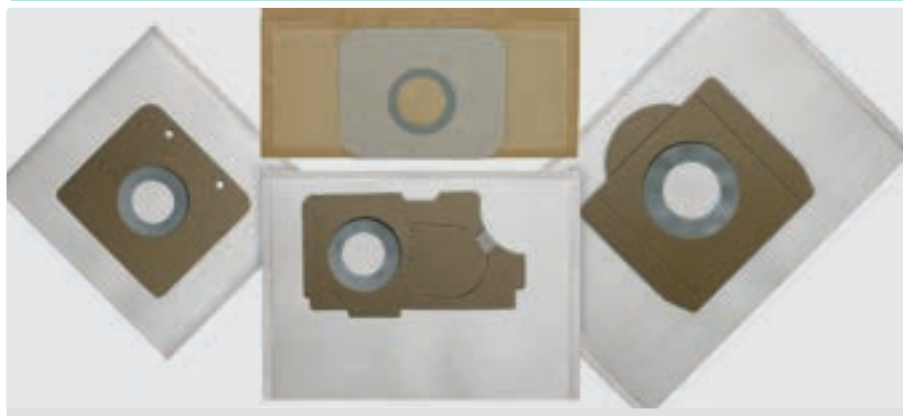


weiß M33      rot M34      grün M30      blau M35      braun M36      schwarz M32

∅	VPE *	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
12" - 305 mm	5 Stück	930 101 019	930 102 019	930 103 019	930 104 019	930 105 019	930 106 019
13" - 325 mm	5 Stück	930 101 021	930 102 021	930 103 021	930 104 021	930 105 021	930 106 021
14" - 355 mm	5 Stück	930 101 025	930 102 025	930 103 025	930 104 025	930 105 025	930 106 025
15" - 380 mm	5 Stück	930 101 027	930 102 027	930 103 027	930 104 027	930 105 027	930 106 027
16" - 410 mm	5 Stück	930 101 029	930 102 029	930 103 029	930 104 029	930 105 029	930 106 029
17" - 430 mm	5 Stück	930 101 031	930 102 031	930 103 031	930 104 031	930 105 031	930 106 031
18" - 460 mm	5 Stück	930 101 033	930 102 033	930 103 033	930 104 033	930 105 033	930 106 033
19" - 480 mm	5 Stück	930 101 035	930 102 035	930 103 035	930 104 035	930 105 035	930 106 035
20" - 510 mm	5 Stück	930 101 037	930 102 037	930 103 037	930 104 037	930 105 037	930 106 037
21" - 530 mm	5 Stück	930 101 039	930 102 039	930 103 039	930 104 039	930 105 039	930 106 039

Attraktive Mengenpreise für die Superpads erhalten Sie auf Anfrage.

## Saugertüten



## Bestellbeispiel für Papierfilter:

10 x 268 143 7 Papierfilter 10 Stück = 1 VPE  
 350 x 268 143 7 Papierfilter 350 Stück = 1 VPE

## Bestellbeispiel für Vliesfilter:

1 x 268 304 708 0 Vliesfilter 80 Stück = 1 VPE  
 1 x 268 304 700 5 Vliesfilter 5 Stück = 1 VPE

R+M Nr.	passend für Hersteller	TYP	V = Vliesfilter . P1 = Papier 1-lagig . P2 = Papier 2-lagig		(M)	(D)	VPE*	VPE*	VPE**	(ME)
268 304 700 5	ALTO	Aero 20-01, 20-11, 20-21, 25-11, 25-21, Buddy 15, 18	V	✓						5
268 304 708 0	ALTO	Aero 20-01, 20-11, 20-21, 25-11, 25-21, Buddy 15, 18	V	✓						80 (4x20)
268 164 8	ALTO	Aero 400/440 (61.156)	P2	✓	10	140				Stück
268 164 9	ALTO	Aero 640/840 (60.910)	P2	✓	10	120				Stück
268 156 7	ALTO	Attix 3 (30.2000.449)	P2		10	150				Stück
268 304 808 0	ALTO	Attix 30, Attix 350/360, Attix 8 Gallon, Centix 60	V	✓						90
268 300 200 5	ALTO	Attix 40/50, Attix 550/590, Attix 12 Gallon	V	✓						5
268 300 206 0	ALTO	Attix 40/50, Attix 550/590, Attix 12 Gallon	V	✓						60
268 156 8	ALTO	Attix 5	P2	✓	10	80				Stück
268 300 000 5	ALTO	Attix 751/761/791/19 Gallon/961/965	V	✓						5
268 300 003 5	ALTO	Attix 751/761/791/19 Gallon/961/965	V	✓						35
268 156 9	ALTO	Saltix	P2		10	200				Stück
268 301 501 0	ALTO	Saltix 10	V	✓						10
268 301 511 0	ALTO	Saltix 10	V	✓						110
268 149 9	ALTO	Saltix 10; 9 liter	P2	✓	10	200				Stück
268 100 1	BLACK & DECKER	Super 18	P1	✓	10	250				Stück
268 150 2	BLITZ	T 5	P2	✓	10	300				Stück
268 301 600 5	BLITZ	T 6	V	✓						5
268 301 608 0	BLITZ	T 6	V	✓						80
268 156 2	BLITZ	T 6	P2	✓	10	200				Stück
268 301 700 5	BLITZ	T 9	V	✓						5
268 301 709 0	BLITZ	T 9	V	✓						90
268 157 4	BLITZ	T 9	P2	✓	10	280				Stück
268 131 0	BOSCH	SK 2	P2		10	280				Stück
268 301 200 5	BROENDUM	Ronda 200	V	✓						5
268 301 206 0	BROENDUM	Ronda 200	V	✓						60
268 133 5	CIMEX	C 55	P1		10	450				Stück
268 141 0	CLEANFIX	BS 350/460 (355.001)	P2	✓	10	350				Stück
268 300 401 0	CLEANFIX	BS 350/460	V	✓						10
268 300 415 0	CLEANFIX	BS 350/460	V	✓						150
268 155 3	CLEANFIX	RS 05 (025.430)	P2		10	280				Stück
268 155 31	CLEANFIX	RS 05 (025.430); 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter	P2	✓	10+2	250				Stück
268 301 800 5	CLEANFIX	RS 05	V	✓						5
268 301 817 0	CLEANFIX	RS 05	V	✓						170
268 301 917 0	CLEANFIX	RS 05; 5 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter	V	✓						170
268 301 900 5	CLEANFIX	RS 05; 5 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter	V	✓						5+1
268 157 9	CLEANFIX	S 05 (010.430)	P2		10	200				Stück
268 161 71	CLEANFIX	S 10 plus Hepa (022.433); 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter	P2	✓	10+2	250				Stück
268 302 000 5	CLEANFIX	S 10 plus Hepa	V	✓						5
268 302 010 0	CLEANFIX	S 10 plus Hepa	V	✓						100
268 302 101 0	CLEANFIX	S 10, SW 15 (022.431)	V	✓						10
268 302 113 0	CLEANFIX	S 10, SW 15 (022.431)	V	✓						130
268 302 212 0	CLEANFIX	S 10, SW 15 (022.431); 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter	V	✓						120
268 302 201 0	CLEANFIX	S 10, SW 15 (022.431); 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter	V	✓						10+2
268 102 300 1	CLEANFIX	S 10, SW 15, (022.430)	P2	✓	10	200				Stück
268 102 300 11	CLEANFIX	S 10, SW 15, (022.430); 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter	P2	✓	10+2	200				Stück

## Saugertüten

R+M Nr.	passend für Hersteller	TYP	V = Vliesfilter . P1 = Papier 1-lagig . P2 = Papier 2-lagig	M	D	VPE *	VPE *	VPE **	ME
268 161 7	CLEANFIX	S10 plus Hepa (022.433)		P2	✓	10	280		Stück
268 302 301 0	CLEANFIX	Silence 180		V	✓				10
268 302 318 0	CLEANFIX	Silence 180		V	✓				80
268 142 7	CLEANFIX	Silence 180		P2		10	180		Stück
268 302 400 5	CLEANFIX	SW 60		V					5
268 302 406 0	CLEANFIX	SW 60		V					60
268 142 21	COLUMBUS	Junior (= Elfo Junior 15 S + 28 SLB)		P2		10	220		Stück
268 142 2	COLUMBUS	Junior (= Elfo Junior 15 S + 28 SLB)		P1		10	250		Stück
268 100 1	COLUMBUS	KSM 150/156-159		P1	✓	10	250		Stück
268 155 31	COLUMBUS	RS 27 (20.811.530); 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter		P2	✓	10+2	250		Stück
268 301 800 5	COLUMBUS	RS 27		V	✓				5
268 301 817 0	COLUMBUS	RS 27		V	✓				170
268 155 3	COLUMBUS	RS 27		P2	✓	10	280		Stück
268 301 917 0	COLUMBUS	RS 27; 5 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter		V	✓				170
268 301 900 5	COLUMBUS	RS 27; 5 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter		V	✓				5+1
268 102 300 1	COLUMBUS	ST 1000, 3000, M 157, 158, 159 (20.237.230)		P2	✓	10	200		Stück
268 302 101 0	COLUMBUS	ST 1000, 3000, M 157, 158, 159		V	✓				10
268 302 113 0	COLUMBUS	ST 1000, 3000, M 157, 158, 159		V	✓				130
268 302 212 0	COLUMBUS	ST 1000, 3000, M 157, 158, 159; 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter		V	✓				120
268 302 201 0	COLUMBUS	ST 1000, 3000, M 157, 158, 159; 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter		V	✓				10+2
268 302 310 0	COLUMBUS	ST 11, ST 11 pro, ST 11 pro+; 10 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter		V	✓				100
268 302 301 0	COLUMBUS	ST 11, ST 11 pro, ST 11 pro+; 10 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter		V	✓				10+1
268 111 9	COLUMBUS	ST 12 (alt 20511230)		P2		10	180		Stück
268 301 000 5	COLUMBUS	ST 12 (alt)		V					5
268 301 006 0	COLUMBUS	ST 12 (alt)		V					60
268 302 401 0	COLUMBUS	ST 12 (neu), SW 20, SW 20 P		V	✓				10
268 302 418 0	COLUMBUS	ST 12 (neu), SW 20, SW 20 P		V	✓				80
268 150 9	COLUMBUS	ST 12 (neu), SW 20		P2		10	200		Stück
268 161 8	COLUMBUS	ST 2000 (20.236.630)		P2	✓	10	200		Stück
268 302 000 5	COLUMBUS	ST 22		V	✓				5
268 302 010 0	COLUMBUS	ST 22		V	✓				100
268 157 6	COLUMBUS	ST 22		P2	✓	10	260		Stück
268 302 716 0	COLUMBUS	ST 7; 10 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter		V	✓				160
268 302 701 0	COLUMBUS	ST 7; 10 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter		V	✓				10+1
268 302 500 5	COLUMBUS	SW 30, SW 30 P, SW 30 S		V					5
268 302 506 0	COLUMBUS	SW 30, SW 30 P, SW 30 S		V					60
268 302 801 0	COLUMBUS	SW 32 P		V					10
268 302 808 0	COLUMBUS	SW 32 P		V					80
268 301 100 5	COLUMBUS	SW 50 P, SW 50 S, SW 52 P, SW 52 S, SW 53 P, SW 53 S		V					5
268 301 104 0	COLUMBUS	SW 50 P, SW 50 S, SW 52 P, SW 52 S, SW 53 P, SW 53 S		V					40
268 141 0	COLUMBUS	TK 25, 25e, 36, 36e, 46e, BS 360/460 (20.208.430)		P2	✓	10	350		Stück
268 300 401 0	COLUMBUS	TK 25, 25e, 36, 36e, 46e, BS 360/460		V	✓				10
268 300 415 0	COLUMBUS	TK 25, 25e, 36, 36e, 46e, BS 360/460		V	✓				150
268 302 000 5	COMAC	CA 15, CA 15P, CA 15S, CA 15 Silenzio, 15 Ecoplus		V	✓				5
268 302 010 0	COMAC	CA 15, CA 15P, CA 15S, CA 15 Silenzio, 15 Ecoplus		V	✓				100
268 158 8	COMAC	CA 15, CA 15P, CA 15S, CA 15 Silenzio, 15 Ecoplus		P2	✓	10	260		Stück
268 301 200 5	COMAC	CA 60		V	✓				5
268 301 206 0	COMAC	CA 60		V	✓				60
268 301 300 5	COMAC	CA 80, CA 100		V	✓				5
268 301 304 0	COMAC	CA 80, CA 100		V	✓				40
268 302 901 0	COMAC	Silent 25 S plus, CA 30		V	✓				10
268 302 908 0	COMAC	Silent 25 S plus, CA 30		V	✓				80
268 131 0	ELEKTROLUX	L/Z 169-SK 2		P2		10	280		Stück
268 303 001 0	ELEKTROLUX	UZ 873, UZ 932, UZ 934		V					10
268 303 014 0	ELEKTROLUX	UZ 873, UZ 932, UZ 934		V					140

\* Preis pro Stück \*\* Preis pro VPE

Symbole  Höhe  Durchmesser  Typ  Material  Verschleißbar  Mengeneinheit  Verpackungseinheit



## Saugertüten

R+M Nr.	passend für Hersteller	TYP	V = Vliesfilter . P1 = Papier 1-lagig . P2 = Papier 2-lagig	M	☐	VPE *	VPE *	VPE **	ME
268 143 0	ELEKTROLUX	UZ 964		P2		10	400		Stück
268 143 7	ELEKTROLUX	DU 135		P2	✓	10	350		Stück
268 101 2	ELEKTROLUX	UZ 860		P2		10	180		Stück
268 142 9	ELEKTROLUX	UZ 873, UZ 932, UZ 934		P2		10	160		Stück
268 303 101 0	ELEKTROLUX	UZ 920, 921, 922, 923, 925, 930, 930/S, 945, Z 951, HZ 173, DP 9000, DP 9000 D, P 9000 Classic, Panther, Powerprof		V				10	
268 303 112 0	ELEKTROLUX	UZ 920, 921, 922, 923, 925, 930, 930/S, 945, Z 951, HZ 173, DP 9000, DP 9000 D, P 9000 Classic, Panther, Powerprof		V				120	
268 110 9	ELEKTROLUX	UZ 920, 921, 922, 923, 925, 930, 930/S, 945, Z 951, HZ 173, DP 9000, DP 9000 D, P 9000 Classic, Panther, Powerprof		P2		10	200		Stück
268 133 5	ELEKTROLUX	Z 65, 71, 73, 85, 87, 91, 94, 96, 289, 301, 302, 319, 324		P1		10	450		Stück
268 302 101 0	ELEKTROMA	S 100		V				10	
268 302 113 0	ELEKTROMA	S 100		V				130	
268 102 300 1	ELEKTROMA	S 100		P2	✓	10	200		Stück
268 302 212 0	ELEKTROMA	S 100; 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter		V	✓			120	
268 302 201 0	ELEKTROMA	S 100; 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter		V	✓			10+2	
268 107 5	ELEKTROMA	S 120		P2	✓	10	240		Stück
268 111 3	FAKIR	07, 1107, 1207, 1407; 10 Stk. im PE-Beutel mit rundem Motorschutzfilter		P2	✓	10+1	300		Stück
268 111 31	FAKIR	1117, 1217, 1417; 10 Stück im PE-Beutel mit eckigem Motorschutzfilter		P2	✓	10+1	300		Stück
268 131 0	FAKIR	200-250, 300-350, 380, 400, 420, 450, Automatic 500, 520, 530, SEL 380, 430, 550, 2 S, 3 SE, 3 SF, 3 SL, 171, 271, 275, 300 RX, 325 RX+, 350 RX		P2		10	280		Stück
268 300 900 5	FAKIR	IC 314, IC 315		V				5	
268 300 905 0	FAKIR	IC 314, IC 315		V				50	
268 111 8	FAKIR	IC 314, IC 315		P2		10	120		Stück
268 136 1	FAKIR	S 12, S 20, S 20 L, S 20 Super, S 22, S 30, S 38, S 120, GS 1700		P2	✓	10	200		Stück
268 301 000 5	FAKIR	S 17, S 18, IC 215		V				5	
268 301 006 0	FAKIR	S 17, S 18, IC 215		V				60	
268 111 9	FAKIR	S 17, S 18, IC 215		P2		10	180		Stück
268 161 2	FAST	Free Vac 2.5		P1		10	350		Stück
268 166 4	FAST	pure Q, C6		P2	✓	10	200		Stück
268 303 300 5	FESTOOL	Midi CT/CTL # 494105, Mini CT/CTL # 498410		V	✓			5	
268 303 306 0	FESTOOL	Midi CT/CTL # 494105, Mini CT/CTL # 498410		V	✓			60	
268 167 2L	FESTOOL	Midi CT/CTL # 494105		P2	✓	10	180		Stück
268 302 000 5	FIMAP	FA 15 Eco, FA 15 Plus, FA 15 Silenzio		V	✓			5	
268 302 010 0	FIMAP	FA 15 Eco, FA 15 Plus, FA 15 Silenzio		V	✓			100	VPE
268 155 5	FIMAP	FA 15 Eco, FA 15 Plus, FA 15 Silenzio		P2	✓	10	260		Stück
268 167 5	FIMAP	FV 10, FV 10 Eco Energy; 5 L.		P2		10	320		Stück
268 167 6	FIMAP	FV 15, FV 15 Eco Energy; 10 L.		P2		10	300		Stück
268 157 3	FIMAP	FV 30		P2	✓	10	180		Stück
268 301 200 5	FIMAP	FV 60		V	✓			5	
268 301 206 0	FIMAP	FV 60		V	✓			60	
268 157 3	FIMAP	FV 60		P2	✓	10	180		Stück
268 301 300 5	FIMAP	FV 80		V	✓			5	
268 301 304 0	FIMAP	FV 80		V	✓			40	
268 111 3e	FIMAP	UP36/46; 10 Stk. im PE-Beutel mit eckigem Motorschutzfilter		P2	✓	10+1	300		Stück
268 147 8	FLOORDRESS	35/46, QFM 35/46		P2	✓	10	300		Stück
268 100 1	FLOORDRESS	S 132		P1	✓	10	250		Stück
268 143 3	FLOORDRESS	S 142/152, QP 152, S 12, S 22		P2	✓	10	300		Stück
268 163 5	FLOORMATIC	Blue Vac XL		P2	✓	10	120		Stück
268 154 3	FLOORMATIC	BP 100		P2	✓	10	500		Stück
268 302 000 5	FLOORMATIC	FBV 10, Blue Vac 11, Piccolo		V	✓			5	
268 302 010 0	FLOORMATIC	FBV 10, Blue Vac 11, Piccolo		V	✓			100	
268 155 5	FLOORMATIC	FBV 10, Blue Vac 11, Piccolo		P2	✓	10	260		Stück
268 302 000 5	GANSOW	Glob, Yvo		V	✓			5	
268 302 010 0	GANSOW	Glob, Yvo		V	✓			100	
268 157 6	GANSOW	Glob, Yvo		P2	✓	10	260		Stück
268 300 900 5	GANSOW	Jet Line NT 127		V				5	

\* Preis pro Stück \*\* Preis pro VPE

Symbole TYP Typ M Material ☐ Verschießbar ME Mengeneinheit VPE Verpackungseinheit

## Saugertüten

R+M Nr.	passend für Hersteller	TYP	V = Vliesfilter . P1 = Papier 1-lagig . P2 = Papier 2-lagig . P3 = Papier 3-lagig	M	D	VPE *	VPE *	VPE **	ME
268 300 905 0	GANSOW	Jet Line NT 127		V					50
268 111 8	GANSOW	Jet Line NT 127		P2		10	120		Stück
268 301 100 5	GANSOW	Jet NT 278, Jet NT 378		V					5
268 301 104 0	GANSOW	Jet NT 278, Jet NT 378		V					40
268 302 401 0	GANSOW	Jet T 117, YP1300/9, G 10 P+		V					10
268 302 418 0	GANSOW	Jet T 117, YP1300/9, G 10 P+		V					80
268 142 71	GANSOW	Jet T 117, YP1300/9, G 10 P+		P2		10	220		Stück
268 150 2	GHIBLI	AS 5, Cod. (P.N.) 2512043		P2	✓	10	300		Stück
268 301 300 5	GHIBLI	AS 59, AS 590, AS 60 P, AS 600 P		V	✓				5
268 301 304 0	GHIBLI	AS 59, AS 590, AS 60 P, AS 600 P		V	✓				40
268 156 2	GHIBLI	AS 6, Cod. (P.N.) 2512044		P2	✓	10	200		Stück
268 301 600 5	GHIBLI	AS 6		V	✓				5
268 301 608 0	GHIBLI	AS 6		V	✓				80
268 302 901 0	GHIBLI	AS 7, AS 10, AS 10 P, ASL 7, ASL 10, M 7		V	✓				10
268 302 908 0	GHIBLI	AS 7, AS 10, AS 10 P, ASL 7, ASL 10, M 7		V	✓				80
268 102 336 1	GHIBLI	AS 7, AS 10, AS 10 P, ASL 7, ASL 10, M 7		P2	✓	10	180		Stück
268 301 200 5	GHIBLI	AS 8, AS 9, AS 12, AS 27, AS 30, AS 400, SP 8, SP 9		V	✓				5
268 301 206 0	GHIBLI	AS 8, AS 9, AS 12, AS 27, AS 30, AS 400, SP 8, SP 9		V	✓				60
268 157 3	GHIBLI	AS 8, AS 9, AS 27		P2	✓	10	180		Stück
268 301 400 5	GHIBLI	T 1		V					5
268 301 412 0	GHIBLI	T 1		V					120
268 162 41	GHIBLI	T 1		P2		10	240		Stück
268 300 401 0	HAKO	440		V	✓				10
268 300 415 0	HAKO	440		V	✓				150
268 141 0	HAKO	440		P2	✓	10	350		Stück
268 143 7	HAKO	Carpovac		P2	✓	10	350		Stück
268 302 901 0	HAKO	Clean 7231		V	✓				10
268 302 908 0	HAKO	Clean 7231		V	✓				80
268 102 336 1	HAKO	Clean 7231		P2	✓	10	180		Stück
268 302 101 0	HAKO	Supervac 100		V	✓				10
268 302 113 0	HAKO	Supervac 100		V	✓				130
268 102 300 1	HAKO	Supervac 100		P2	✓	10	200		Stück
268 302 212 0	HAKO	Supervac 100; 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter		V	✓				120
268 302 201 0	HAKO	Supervac 100; 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter		V	✓				10+2
268 302 000 5	HAKO	Supervac D 5 (7206-00)		V	✓				5
268 302 010 0	HAKO	Supervac D 5 (7206-00)		V	✓				100
268 155 5	HAKO	Supervac D 5 (7206-00)		P2	✓	10	260		Stück
268 301 600 5	HAREMA	HV 13 S		V	✓				5
268 301 608 0	HAREMA	HV 13 S		V	✓				80
268 156 2	HAREMA	HV 13 S		P2	✓	10	200		Stück
268 302 101 0	HAREMA	HV 9 S		V	✓				10
268 302 113 0	HAREMA	HV 9 S		V	✓				130
268 102 300 1	HAREMA	HV 9 S		P2	✓	10	200		Stück
268 302 212 0	HAREMA	HV 9 S; 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter		V	✓				120
268 302 201 0	HAREMA	HV 9 S; 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter		V	✓				10+2
268 303 400 5	HERKULES	Bauhaus SR 20, SR 30		V					5
268 303 414 0	HERKULES	Bauhaus SR 20, SR 30		V					140
268 303 501 0	HITACHI	CV-200 P, CV-300 P		V					10
268 303 524 0	HITACHI	CV-200 P, CV-300 P		V					240
268 155 21	HITACHI	CV-200 P, CV-300 P		P3		10	400		Stück
268 155 2	HITACHI	CV-200 P, CV-300 P		P2		10	400		Stück
268 133 5	HOOVER	Junior 652, 938, 6525-26, U 1012-1096, U 1104-1120, U 1194, U 1346-1358, U 4002-4058, H 1		P1		10	450		Stück
268 161 2	IVAC	Free Vac 2.5, Back Vac		P1		10	350		Stück
268 154 5	IVAC	Major		P2	✓	10	150		Stück
268 302 901 0	JANSER	Janvac 1600		V	✓				10
268 302 908 0	JANSER	Janvac 1600		V	✓				80

## Saugertüten

R+M Nr.	passend für Hersteller	TYP	V = Vliesfilter . P1 = Papier 1-lagig . P2 = Papier 2-lagig	M	D	VPE *	VPE *	VPE **	ME
268 149 7	KÄRCHER	2001, 3011		P2		10	200		Stück
268 150 71	KÄRCHER	2101, 2101 TE, 2301, 2111, 2105, 4000 plus, 4000 TE, A 2101, A 2131 pt, A 2111		P2	✓	10	240		Stück
268 150 7	KÄRCHER	2501, 2501 TE, 2601, 2601 plus, 3001, SE 3001, 3001 hot		P2	✓	10	160		Stück
268 150 7V	KÄRCHER	2501, 2501 TE, 2601, 2601 plus, 3001, SE 3001, 3001 hot; 10 Stk. im PE-Beutel mit 2 Stk. Motorschutzfilter		P2	✓	10+2	160		Stück
268 301 000 5	KÄRCHER	2701		V					5
268 301 006 0	KÄRCHER	2701		V					60
268 111 9	KÄRCHER	2701		P2		10	180		Stück
268 150 72	KÄRCHER	A 2003, A 2004, A 2014 CV, A 2024 pt, A 2054 Me, A 2064 pt, A 2074 pt		P2	✓	10	250		Stück
268 159 8	KÄRCHER	A 2204, A 2254 Me, A 2234 pt, A 2504, A 2534 pt, A 2554 Me, A 2604, A 2654 Me, 2201 F, A 2201, A 2231 pt, A 2251 Me, A 2901, 2901 F, 3000 plus, A 3100, K 2150		P2		10	150		Stück
268 300 301 0	KÄRCHER	CV 30/1, CV 38/1, CV 38/2, CV 48/2		V					10
268 300 320 0	KÄRCHER	CV 30/1, CV 38/1, CV 38/2, CV 48/2		V					200
268 160 3	KÄRCHER	CV 30/1, CV 38/1, CV 38/2, CV 48/2		P2		10	350		Stück
268 300 401 0	KÄRCHER	CV 36/2 (CW 50), CV 46/2 (CW 100)		V	✓				10
268 300 415 0	KÄRCHER	CV 36/2 (CW 50), CV 46/2 (CW 100)		V	✓				150
268 158 7	KÄRCHER	NT 27/1		P2		10	140		Stück
268 300 900 5	KÄRCHER	NT 301, 2801		V					5
268 300 905 0	KÄRCHER	NT 301, 2801		V					50
268 111 8	KÄRCHER	NT 301, 2801		P2		10	120		Stück
268 151 9	KÄRCHER	NT 351 eco, 2000 E		P2	✓	10	150		Stück
268 300 700 5	KÄRCHER	NT 361 Eco/Eco TE/Eco M/Eco TEA/Eco MA		V					5
268 300 707 0	KÄRCHER	NT 361 Eco/Eco TE/Eco M/Eco TEA/Eco MA		V					70
268 154 2	KÄRCHER	NT 361, NT 35/1		P2	✓	10	120		Stück
268 303 600 5	KÄRCHER	NT 48/1, NT 65/2 Eco, NT 65/2 Eco Me, NT 65/2 Eco Tc, NT 72/2 Eco Tc		V					5
268 303 604 0	KÄRCHER	NT 48/1, NT 65/2 Eco, NT 65/2 Eco Me, NT 65/2 Eco Tc, NT 72/2 Eco Tc		V					40
268 152 3	KÄRCHER	NT 501/551		P2		10	100		Stück
268 153 2	KÄRCHER	NT 561		P2	✓	10	120		Stück
268 152 2	KÄRCHER	NT 700, NT 702		P2		10	90		Stück
268 300 501 0	KÄRCHER	T 10/1, T 12/1		V	✓				10
268 300 511 0	KÄRCHER	T 10/1, T 12/1		V	✓				110
268 143 5	KÄRCHER	T 101, T 151, Europa T 111		P2		10	250		
268 157 8	KÄRCHER	T 12/1		P2	✓	10	200		Stück
268 100 1	KÄRCHER	T 140		P1	✓	10	250		Stück
268 300 801 0	KÄRCHER	T 15/1, T 17/1		V	✓				10
268 300 807 0	KÄRCHER	T 15/1, T 17/1		V	✓				70
268 164 7	KÄRCHER	T 15/1		P2	✓	10	150		Stück
268 152 7	KÄRCHER	T 171, BV 111		P2		10	360		Stück
268 152 8	KÄRCHER	T 191, T 191 K		P2		10	320		Stück
268 143 6	KÄRCHER	T 201, T 201 + ESB 24		P2		10	200		Stück
268 143 61	KÄRCHER	T 201, T 201 + ESB 24; 10 Stk. im PE-Beutel mit 2 Stück Motorschutzfilter		P2		10+2	200		Stück
268 159 0	KÄRCHER	T 7/1, T 10/1		P2		10	250		Stück
268 300 601 0	KÄRCHER	T 7/1, T 9/1 Bp, BV 5/1, BV 5/1 Bp		V					10
268 300 616 0	KÄRCHER	T 7/1, T 9/1 Bp, BV 5/1, BV 5/1 Bp		V					160
268 141 0	KÄRCHER	TBS 32 e, 42 e, TBS 25-35, CV 36/2, CV 46/2, CW 50, CW 100		P2	✓	10	350		Stück
268 303 701 0	KÄRCHER	VC 6, VC 6 Premium, VC 6100, VC 6150, VC 6200, VC 6250 PET, VC 6300, VC 6300 B, VC 6350, VC 6400, VC 6400 ESB; 10 Stk. im PE-Beutel + 1 Motorschutzfilter		V					10+1
268 302 000 5	KENBO	Eco plus 15		V	✓				5
268 302 010 0	KENBO	Eco plus 15		V	✓				100
268 158 8	KENBO	Eco plus 15		P2	✓	10	260		Stück
268 163 5	KENBO	Eco plus 25		P2	✓	10	120		Stück
268 157 7	KENBO	Micro S		P2	✓	10	280		Stück
268 154 1	KENBO	Silent 25 S plus		P2	✓	10	160		Stück
268 143 7	LINDHAUS	RX 4, RX 380		P2	✓	10	350		Stück
268 300 401 0	LORITO	250/450		V	✓				10
268 300 415 0	LORITO	250/450		V	✓				150
268 141 0	LORITO	250/450		P2	✓	10	350		Stück

## Saugertüten

R+M Nr.	passend für Hersteller	TYP	V = Vliesfilter . P1 = Papier 1-lagig . P2 = Papier 2-lagig	M	☐	VPE *	VPE *	VPE **	ME
268 166 4	LORITO	Compacto 6		P2	✓	10	200		Stück
268 154 4	LORITO	Compacto 9		P2	✓	10	200		Stück
268 161 2	LORITO	Free Vac 2.5		P1		10	350		Stück
268 157 9	LORITO	Otto 300 K		P2		10	200		Stück
268 154 5	LORITO	S 1, S 2, S 11		P2	✓	10	150		Stück
268 165 8	LORITO	Silent 10		P2		10	250		Stück
268 147 8	LORITO	UP 350/450, BS 35/46		P2	✓	10	300		Stück
268 150 9	MARCO	Modell Luxus		P2	✓	10	200		Stück
268 163 2	MINATOL	RS Micro		P1		10	230		Stück
268 100 1	MOBILO	S 1000		P1	✓	10	250		Stück
268 301 000 5	MOBILO	S 900		V				5	
268 301 006 0	MOBILO	S 900		V				60	
268 111 9	MOBILO	S 900		P2		10	180		Stück
268 111 3	NILCO	07, 1107, 1207, 1407; 10 Stk. im PE-Beutel mit rundem Motorschutzfilter		P2	✓	10+1	300		Stück
268 111 3e	NILCO	1117, 1217, 1417; 10 Stk. im PE-Beutel mit eckigem Motorschutzfilter		P2	✓	10+1	300		Stück
268 131 0	NILCO	171/271/275		P2		10	280		Stück
268 302 401 0	NILCO	IC 213		V				10	
268 302 418 0	NILCO	IC 213		V				80	
268 142 71	NILCO	IC 213		P2		10	220		Stück
268 301 000 5	NILCO	IC 215, S 17, S 18, S 26 NT		V				5	
268 301 006 0	NILCO	IC 215, S 17, S 18, S 26 NT		V				60	
268 111 9	NILCO	IC 215, S 17, S 18, S 26 NT		P2		10	180		Stück
268 300 900 5	NILCO	IC 314, IC 315		V				5	
268 300 905 0	NILCO	IC 314, IC 315		V				50	
268 111 8	NILCO	IC 314, IC 315		P2		10	120		Stück
268 163 2	NILCO	Micro		P1		10	230		Stück
268 136 1	NILCO	S 20, S 20 E, S 20 el., S 20 Eco Power, S 30, S 38, GS 1025, GS 1700		P2	✓	10	200		Stück
268 304 700 5	NILFISK	Aero 20-01, 20-11, 20-21, 25-11, 25-21, Buddy 15, 18, VL 200 30 PC INOX		V	✓			5	
268 304 708 0	NILFISK	Aero 20-01, 20-11, 20-21, 25-11, 25-21, Buddy 15, 18, VL 200 30 PC INOX		V	✓			80	
268 164 8	NILFISK	Aero 400/440		P2		10	150		Stück
268 164 9	NILFISK	Aero 640/840		P2		10	120		Stück
268 156 7	NILFISK	Attix 3		P2	✓	10	150		Stück
268 156 8	NILFISK	Attix 5		P2	✓	10	80		Stück
268 303 101 0	NILFISK	GD 930 (1.407.019.040), GD 930 S, GD 930 S2 Panther, GD 936		V				10	
268 303 112 0	NILFISK	GD 930 (1.407.019.040), GD 930 S, GD 930 S2 Panther, GD 936		V				120	
268 110 9	NILFISK	GD 930 (1.407.019.040), GD 930 S, GD 930 S2 Panther, GD 936		P2		10	200		Stück
268 303 001 0	NILFISK	GM, 110, GM 130, Cubic, UZ 934		V				10	
268 303 014 0	NILFISK	GM, 110, GM 130, Cubic, UZ 934		V				140	
268 142 9	NILFISK	GM, 110, GM 130, Cubic, UZ 934		P2		10	160		Stück
268 300 200 5	NILFISK	IVB 5, IVB 40, IVB 50		V	✓			5	
268 300 206 0	NILFISK	IVB 5, IVB 40, IVB 50		V	✓			60	
268 303 400 5	NILFISK	Multi 20, Multi 30		V				5	
268 303 414 0	NILFISK	Multi 20, Multi 30		V				140	
268 302 500 5	NILFISK	VL 500-35 BSF, VL 500-35 EDF, VL 500-55-1 BDF, VL 500-55-1 EDF, VL 500-55-2 EDF, MAXXI II 35-1, MAXXI II 55-1, MAXXI II 55-2		V				5	
268 302 506 0	NILFISK	VL 500-35 BSF, VL 500-35 EDF, VL 500-55-1 BDF, VL 500-55-1 EDF, VL 500-55-2 EDF, MAXXI II 35-1, MAXXI II 55-1, MAXXI II 55-2		V				60	
268 301 100 5	NILFISK	VL 500-75-1 BSF, VL 500-75-2 BSF, VL 500-75-2 EDF, MAXXI II 75-1, MAXXI II 75-2		V				5	
268 301 104 0	NILFISK	VL 500-75-1 BSF, VL 500-75-2 BSF, VL 500-75-2 EDF, MAXXI II 75-1, MAXXI II 75-2		V				40	
268 151 1	NILFISK	Dorsal Backuum (22.198.000); 5 Stk. im PE-Beutel mit 1 Motorschutzfilter		P2		5+1	200		Stück
268 136 7	NILFISK	GA 70, GS 80, GM 80, GD 90, GM 90, GS 90, BRM 545, (816.200)		P2		10	280		Stück
268 165 4	NILFISK	GD 10 Back, Ref. 1471097500; 5 Stk. im PE-Beutel mit 1 Motorschutzfilter		P2		5+1	150		Stück
268 150 8	NILFISK	GD 1000 serie, GD 1005, (82.017.201), VP 600 Basic EU, VP 600 STD 2 EU, VP 600 STD 3 EU; 6 L.		P2	✓	10	250		Stück
268 301 501 0	NILFISK	GD 111, GD 710, GD 910, GD 911, GD 1000 series, GD 1005, GD 1010, GNS 1010, GD 2000, HDS 2000, Saltix 3, Saltix 10, VC 300, VC 300 Hepa, VP 300, VP 300 Hepa, VP 600 Basic EU, VP 600 STD 2 EU, VP 600 STD 3 EU		V	✓			10	

\* Preis pro Stück \*\* Preis pro VPE

Symbole TYP Typ M Material ☐ Verschleißbar ME Mengeneinheit VPE Verpackungseinheit

## Saugertüten

R+M Nr.	passend für Hersteller	TYP	V = Vliesfilter . P1 = Papier 1-lagig . P2 = Papier 2-lagig	M	D	VPE *	VPE *	VPE **	ME
268 301 511 0	NILFISK	GD 111, GD 710, GD 910, GD 911, GD 1000 series, GD 1005, GD 1010, GNS 1010, GD 2000, HDS 2000, Saltix 3, Saltix 10, VC 300, VC 300 Hepa, VP 300, VP 300 Hepa, VP 600 Basic EU, VP 600 STD 2 EU, VP 600 STD 3 EU	V	✓					110
268 149 9	NILFISK	GD 111, GD 710, GD 910, GD 911, GD 1010, GNS 1010, GD 2000, HDS 2000, Saltix 3, Saltix 10, VC 300, VC 300 Hepa, VP 300, VP 300 Hepa, (82.017.401); 9 L.	P2		10	200			Stück
268 165 3	NILFISK	GD 5 Back, Ref.Nr. 1471098500; 5 Stk. im PE-Beutel mit 1 Motorschutzfilter	P2		5+1	200			Stück
268 163 0	NILFISK	GU 305/355/455 Dual, GU 15 DMU, Nr. 1471058000	P2		10	350			Stück
268 143 7	NILFISK	GU 350A/450A (82.040.400)	P2	✓	10	350			Stück
268 300 800 5	NILFISK	IVB 3, IVB 30	V	✓					5
268 304 808 0	NILFISK	IVB 3, IVB 30	V	✓					90
268 153 3	NILFISK	Viking, GD 110, VD 10 (1.408.007.020)	P2	✓	10	240			Stück
268 100 1	NOVIMEX	Picovac	P1	✓	10	250			Stück
268 108 6	NUMATIC	NVM-1C/2 (604.100) NVH 180-2, NVP 180-2, NRV 200-22, NRV 200 T-2, Henry HVR 200-22, NVQ 200-22, Henry Xtra HVX 200-22, NQS 250 B-22, SSV 250-22, AVQ 250, RSAV 130, RSB 140, RSV 130, RSV 200, Nuvac Plus NNR 200-2, Nuvac NNH 180-2	P2	✓	10	300			Stück
268 303 901 0	NUMATIC	NVM-1CH (604.015), Hepa-Flo NVH 180-2, NVP 180-2, NRV 200-22, NRV 200 T-2, Henry HVR 200-22, NVQ 200-22, Henry Xtra HVX 200-22, NQS 250 B-22, SSV 250-22, AVQ 250, RSAV 130, RSB 140, RSV 130, RSV 200, Nuvac Plus NNR 200-2, Nuvac NNH 180-2	V	✓					10
268 303 920 0	NUMATIC	NVM-1CH (604.015), Hepa-Flo NVH 180-2, NVP 180-2, NRV 200-22, NRV 200 T-2, Henry HVR 200-22, NVQ 200-22, Henry Xtra HVX 200-22, NQS 250 B-22, SSV 250-22, AVQ 250, RSAV 130, RSB 140, RSV 130, RSV 200, Nuvac Plus NNR 200-2, Nuvac NNH 180-2	V	✓					200
268 144 3	NUMATIC	NVM-2B/2 (604.102) NVP 370-2, NRV 370-22, NVQ 370-22, NVQ 370T-2, MFQ 370-22, NQS 350B-22, WV 370-2, George GVE 370-2	P2	✓	10	250			Stück
268 304 000 5	NUMATIC	NVM-2BH (604.016), Hepa-Flo NVP 370-2, NRV 370-22, NVQ 370-22, NVQ 370 T-2, MFQ 370-22, NQS 350B-22, WV 370-2, George GVE 370-2	V	✓					5
268 304 008 0	NUMATIC	NVM-2BH (604.016), Hepa-Flo NVP 370-2, NRV 370-22, NVQ 370-22, NVQ 370 T-2, MFQ 370-22, NQS 350B-22, WV 370-2, George GVE 370-2	V	✓					80
268 304 101 0	NUMATIC	RSB 140-1, RSB 140-2, RSAV 130, RSV 130, RSV 130-1, RSV 130-11	V	✓					10
268 304 120 0	NUMATIC	RSB 140-1, RSB 140-2, RSAV 130, RSV 130, RSV 130-1, RSV 130-11	V	✓					200
268 143 3	NUMATIC	System 12	P2	✓	10	300			Stück
268 162 3	OMEGA	Contur HSS 09/3, HSS 09/4; 10 Stk. im PE-Beutel mit 1 Stk. Motorschutzfilter	P2		10+1	500			Stück
268 302 401 0	POOL	T 110	V						10
268 302 418 0	POOL	T 110	V						80
268 144 4	POOL	T 110	P2		10	220			Stück
268 136 1	POOL	T 115	P2	✓	10	200			Stück
268 154 4	POOL	T 210	P2		10	200			Stück
268 107 5	PROCLEAN	PC 20 K	P2	✓	10	240			Stück
268 301 600 5	PROCLEAN	T 111 Piccolino	V	✓					5
268 301 608 0	PROCLEAN	T 111 Piccolino	V	✓					80
268 156 2	PROCLEAN	T 111 Piccolino	P2	✓	10	200			Stück
268 301 700 5	PROFI-EUROPE	Profi 1, Profi 1.1, Profi 1 Lux, Profi 3	V						5
268 301 709 0	PROFI-EUROPE	Profi 1, Profi 1.1, Profi 1 Lux, Profi 3	V						90
268 157 4	PROFI-EUROPE	Profi 1, Profi 1.1, Profi 1 Lux, Profi 3	P2		10	280			Stück
268 100 1	PROGRESS	Mercedes KS plus, TK, SB, SB2, SBZ	P1	✓	10	250			Stück
268 131 0	ROWENTA	Rotocraft RK 20 S, RK 21, RK 30 SL, RK 31, RK 40 SLX	P2		10	280			Stück
268 300 900 5	ROWENTA	ZR 80, Vorace, RU 30-46, RU 520 S, RU 521, BP 61, Allround NT-Modelle, (29 ltr.)	V						5
268 300 905 0	ROWENTA	ZR 80, Vorace, RU 30-46, RU 520 S, RU 521, BP 61, Allround NT-Modelle, (29 ltr.)	V						50
268 111 8	ROWENTA	ZR 80, Vorace, RU 30-46, RU 520 S, RU 521, BP 61, Allround NT-Modelle, (29 ltr.)	P2		10	120			Stück
268 301 000 5	ROWENTA	ZR 81, RU 01-15, RB 50-52, Collecto, (19 ltr.)	V						5
268 301 006 0	ROWENTA	ZR 81, RU 01-15, RB 50-52, Collecto, (19 ltr.)	V						60
268 111 9	ROWENTA	ZR 81, RU 01-15, RB 50-52, Collecto, (19 ltr.)	P2		10	180			Stück
268 144 5	SEBO	automatic X1, X2, X3, 370/470	P2		10	300			Stück
268 300 401 0	SEBO	Evolution 300/350/450, 360/460	V	✓					10
268 300 415 0	SEBO	Evolution 300/350/450, 360/460	V	✓					150



## Saugertüten

R+M Nr.	passend für Hersteller	TYP	V = Vliesfilter . P1 = Papier 1-lagig . P2 = Papier 2-lagig	M	☐	VPE *	VPE *	VPE **	ME
268 141 0	SEBO	Evolution 300/350/450, 360/460		P2	✓	10	350		Stück
268 100 1	SELCO	Noiseless		P1	✓	10	250		Stück
268 111 9	SIEMENS	VM 10000		P2		10	180		Stück
268 131 0	SIEMENS	VU 30		P2		10	280		Stück
268 300 401 0	SORMA	RS 310, TM 430, TM 260		V	✓				10
268 300 415 0	SORMA	RS 310, TM 430, TM 260		V	✓				150
268 141 0	SORMA	RS 310, TM 430, TM 260		P2	✓	10	350		Stück
268 302 401 0	SORMA	SM 110		V					10
268 302 418 0	SORMA	SM 110		V					80
268 144 4	SORMA	SM 110		P2		10	220		Stück
268 302 212 0	SORMA	SM 115, 118, 515; 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter		V	✓				120
268 302 201 0	SORMA	SM 115, 118, 515; 10 Stk. im PE-Beutel							
		inkl. 2 Stk. Motorschutzfilter		V	✓				10+2
268 302 101 0	SORMA	SM 115, SM 118, SM 515		V	✓				10
268 302 113 0	SORMA	SM 115, SM 118, SM 515		V	✓				130
268 102 300 1	SORMA	SM 115, SM 118, SM 515		P2	✓	10	200		Stück
268 100 1	SORMA	SM 115, SM 118		P1	✓	10	250		Stück
268 150 2	SORMA	SM 125		P2	✓	10	300		Stück
268 151 2	SORMA	SM 505 (=Tennant 3400)		P2	✓	10	200		Stück
268 107 5	SORMA	SM 510 (=Tennant 3410)		P2	✓	10	240		Stück
268 154 4	SORMA	SM 510 (=Tennant 3410)		P2	✓	10	200		Stück
268 107 4	SORMA	SM 515, 520, (=Tennant 3800)		P1		10	200		Stück
268 144 5	SORMA	TM 375/455 (sebo automatic)		P2		10	300		Stück
268 302 401 0	SOTECO	15-20 Liter, 2er Serie, Base 101, 103, Supercondor, Amsterdam 115 HP, Europa Rocky I, Yes Play 202		V					10
268 302 418 0	SOTECO	15-20 Liter, 2er Serie, Base 101, 103, Supercondor, Amsterdam 115 HP, Europa Rocky I, Yes Play 202		V					80
268 302 500 5	SOTECO	20-45 L., 3er & 5er Serie		V					5
268 302 506 0	SOTECO	20-45 L., 3er & 5er Serie		V					60
268 301 100 5	SOTECO	45-90 L., 4er & 6er Serie		V					5
268 301 104 0	SOTECO	45-90 L., 4er & 6er Serie		V					40
268 142 7	SOTECO	Base 101, 103, Supercondor, Amsterdam 115 HP, Europa Rocky I		P2		10	180		Stück
268 142 21	SOTECO	Box		P2		10	220		Stück
268 142 2	SOTECO	Box		P1		10	250		Stück
268 149 7	SOTECO	Europa 115/300, Rocky II		P2		10	140		Stück
268 302 000 5	SOTECO	Leo, Leo Eco		V	✓				5
268 302 010 0	SOTECO	Leo, Leo Eco		V	✓				100
268 157 6	SOTECO	Leo, Leo Eco		P2	✓	10	260		Stück
268 163 2	SOTECO	Micro		P1		10	230		Stück
268 300 900 5	SOTECO	Nevada 215, 503 R		V					5
268 300 905 0	SOTECO	Nevada 215, 503 R		V					50
268 111 8	SOTECO	Nevada 215, 503 R		P2		10	120		Stück
268 301 000 5	SOTECO	T 110, Nevada 103 RAD		V					5
268 301 006 0	SOTECO	T 110, Nevada 103 RAD		V					60
268 111 9	SOTECO	T 110, Nevada 103 RAD		P2		10	180		Stück
268 142 71	SOTECO	Yes Play 202		P2		10	220		Stück
268 144 4	SOTECO	Yes Play 202		P2		10	220		Stück
268 302 310 0	SPRINTUS	Maximus, Maximus pro, Maximus pt, T 11 EVO; 10 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter		V	✓				100
268 302 301 0	SPRINTUS	Maximus, Maximus pro, Maximus pt, T 11 EVO; 10 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter		V	✓				10+1
268 304 301 0	SPRINTUS	N 20/1 K, N 27/1 E, N 27/1 ERT, N 30/1 KPT, N 30/1 KS		V	✓				10
268 304 308 0	SPRINTUS	N 20/1 K, N 27/1 E, N 27/1 ERT, N 30/1 KPT, N 30/1 KS		V	✓				80
268 302 716 0	SPRINTUS	T 11; 10 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter		V	✓				160

\* Preis pro Stück \*\* Preis pro VPE

Symbole TYP Typ M Material ☐ Verschleißbar ME Mengeneinheit VPE Verpackungseinheit

## Saugertüten

R+M Nr.	passend für Hersteller	TYP	V = Vliesfilter . P1 = Papier 1-lagig . P2 = Papier 2-lagig . P3 = Papier 3-lagig	M	☐	VPE *	VPE *	VPE **	ME
268 302 701 0	SPRINTUS	T 11; 10 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter	V	✓				10+1	
268 148 6	TASKI	Bora 12 "S" (8504150)	P2	✓	10	200		Stück	
268 149 5	TASKI	Dorsalino (8504190)	P2	✓	10	400		Stück	
268 302 101 0	TASKI	S 4, S 6, Babybora, Hurricane (8.500.600)	V	✓				10	
268 302 113 0	TASKI	S 4, S 6, Babybora, Hurricane (8.500.600)	V	✓				130	
268 102 300 1	TASKI	S 4, S 6, Babybora, Hurricane (8.500.600)	P2	✓	10	200		Stück	
268 100 1	TASKI	S 4, S 6, Bora	P1	✓	10	250		Stück	
268 302 212 0	TASKI	S 4, S 6, babybora, Hurricane; 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter	V	✓				120	
268 302 201 0	TASKI	S4, S6, babybora, Hurricane; 10 Stk. im PE-Beutel inkl. 2 Stk. Motorschutzfilter	V	✓				10+2	
268 143 7	TASKI	Tapitronic, Tapiset 38/45 (8502160)	P2	✓	10	350		Stück	
268 304 401 0	TASKI	Vento 15 (7514888), Vento 15 S	V					10	
268 304 405 0	TASKI	Vento 15 (7514888), Vento 15 S	V					50	
268 161 6	TASKI	Vento 15 (7514888), Vento 15 S	P2		10	100		Stück	
268 160 6	TASKI	Vento 8 (7514803), Vento 8 S	V					100	
268 160 9	TASKI	Vento 8 (7514886), Vento 8 S	P2		10	200		Stück	
268 151 2	TENNANT	3400 (=Sorma SM 505), V 5	P2	✓	10	200		Stück	
268 154 4	TENNANT	3410 (=Sorma SM 510)	P2	✓	10	200		Stück	
268 107 5	TENNANT	3410 (Sorma SM 510)	P2		10	240		Stück	
268 107 4	TENNANT	3800 (=Sorma SM 515, 520)	P1		10	200		Stück	
268 147 8	TENNANT	CV 141	P2	✓	10	300		Stück	
268 149 7	TENNANT	V 10	P2		10	140		Stück	
268 300 900 5	TENNANT	V 12	V					5	
268 300 905 0	TENNANT	V 12	V					50	
268 111 8	TENNANT	V 12	P2		10	120		Stück	
268 301 100 5	TENNANT	V 14	V					5	
268 301 104 0	TENNANT	V 14	V					40	
268 166 9	TENNANT	V 6	P2		12	240		Stück	
268 167 5	TMB	Dryver 10 R, 10 RE; 5 L.	P2		10	320		Stück	
268 167 6	TMB	Dryver 15 R, 15 RE; 10 L.	P2		10	300		Stück	
268 158 11	VERMOP	Jetvac	P2		10	220		Stück	
268 303 901 0	VIPER	DSU 1, DSU 8, DSU 10, Smartness DV-10, GVD 10	V	✓				10	
268 303 920 0	VIPER	DSU 1, DSU 8, DSU 10, Smartness DV-10, GVD 10	V	✓				200	
268 304 000 5	VIPER	DSU 12, DSU 15	V	✓				5	
268 304 008 0	VIPER	DSU 12, DSU 15	V	✓				80	
268 166 7	VIPER	Eco 15	P2	✓	10	220		Stück	
268 301 200 5	VIPER	LSU 135, LSU 135P	V	✓				5	
268 301 206 0	VIPER	LSU 135, LSU 135P	V	✓				60	
268 301 300 5	VIPER	LSU 155, LSU 155P, LSU 255, LSU 255P, LSU 275, LSU 275P,	V	✓				5	
268 301 304 0	VIPER	LSU 155, LSU 155P, LSU 255, LSU 255P, LSU 275, LSU 275P,	V	✓				40	
268 108 6	VIPER	Smartness DV-10, GVD 10	P2	✓	10	300		Stück	
268 133 5	VOLTA	U 149, U 157, U 165, U 167, U 173, U 178, U 179, U 196, U 200, U 201, U 203, U 215, TR 6/7	P1		10	450		Stück	
268 304 700 5	WAP	Aero 20-01, 20-11, 20-21, 25-11, 25-21, Buddy 15, 18	V	✓				5	
268 304 708 0	WAP	Aero 20-01, 20-11, 20-21, 25-11, 25-21, Buddy 15, 18	V	✓				80	
268 164 8	WAP	Aero 400/440	P2	✓	10	140		Stück	
268 164 9	WAP	Aero 640/840	P2	✓	10	120		Stück	
268 156 7	WAP	Attix 3	P2	✓	10			150	
268 304 808 0	WAP	Attix 30, Attix 350/360, Attix 8 Gallon, Centix 60	V	✓				90	
268 300 200 5	WAP	Attix 40/50, Attix 550/590, Attix 12 Gallon	V	✓				5	
268 300 206 0	WAP	Attix 40/50, Attix 550/590, Attix 12 Gallon	V	✓				60	
268 156 8	WAP	Attix 5	P2	✓	10	80		Stück	
268 301 501 0	WAP	Saltix 10; 9 L.	V	✓				10	
268 301 511 0	WAP	Saltix 10; 9 L.	V	✓				110	
268 149 9	WAP	Saltix 10; 9 L.	P2	✓	10	200		Stück	
268 156 9	WAP	Saltix	P2		10	200		Stück	
268 161 5	WAP	SQ4, SQ450-11, SQ450-21, SQ450-31, SQ4501M, SQ4502M, SQ4503M, SQ490-31	P2	✓	10	160		Stück	

\* Preis pro Stück \*\* Preis pro VPE

Symbole TYP Typ M Material ☐ Verschleißbar ME Mengeneinheit VPE Verpackungseinheit

## Saugertüten

R+M Nr.	passend für Hersteller	TYP	V = Vliesfilter . P1 = Papier 1-lagig . P2 = Papier 2-lagig	M	D	VPE *	VPE *	VPE **	ME
268 302 901 0	WEBER	15-1 STBL Jack Line, 15-1 STBL Vac Line	V	✓					10
268 302 908 0	WEBER	15-1 STBL Jack Line, 15-1 STBL Vac Line	V	✓					80
268 102 336 1	WEBER	15-1 STBL Jack Line, 15-1 STBL Vac Line	P2	✓	10	180			Stück
268 301 200 5	WEBER	30-1-STBL Jack Line, 30-1-STBL Vac Line	V	✓					5
268 301 206 0	WEBER	30-1-STBL Jack Line, 30-1-STBL Vac Line	V	✓					60
268 301 100 5	WEBER	90-3-STBL, 90-3-PTBL	V						5
268 301 104 0	WEBER	90-3-STBL, 90-3-PTBL	V						40
268 301 300 5	WEBER	Vac Line 70-2-STBL, 70-2-STBL SF, 70-3-STBL, 70-3-PTBL, 80-3-STBL	V	✓					5
268 301 304 0	WEBER	Vac Line 70-2-STBL, 70-2-STBL SF, 70-3-STBL, 70-3-PTBL, 80-3-STBL	V	✓					40
268 302 716 0	WEBER	Vac-Line 12-1 PLBL, S1 Secco; 10 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter	V	✓					160
268 302 701 0	WEBER	Vac-Line 12-1 PLBL, S1 Secco; 10 Stk. im PE-Beutel inkl. 1 Stk. Motorschutzfilter	V	✓					10+1
268 302 801 0	WEBER	x2-Aqua	V						10
268 302 808 0	WEBER	x2-Aqua	V						80
268 111 3	WETROK	Karpawel 350; Combisauger, 10 Stk. im PE-Beutel mit rundem Motorschutzfilter	P2	✓	10+1	300			
268 304 601 0	WETROK	Monovac 6, Monovac 6 Plus, Bantam 6/9	V	✓					10
268 304 610 0	WETROK	Monovac 6, Monovac 6 Plus, Bantam 6/9	V	✓					100
268 139 61	WETROK	Monovac 6, Monovac 6 Plus, Bantam 6/9	P2	✓	10	150			Stück
268 153 01	WETROK	Monovac 9, Monovac 11 Plus	P2	✓	10	120			Stück
268 100 1	WETROK	Picovac	P1	✓	10	250			Stück
268 302 401 0	WIRBEL	814, 815	V						10
268 302 418 0	WIRBEL	814, 815	V						80
268 301 000 5	WIRBEL	814, 815	V	✓					5
268 301 006 0	WIRBEL	814, 815	V	✓					60
268 111 9	WIRBEL	814, 815	P2		10	180			Stück
268 302 500 5	WIRBEL	819, 829	V						5
268 302 506 0	WIRBEL	819, 829	V						60
268 300 900 5	WIRBEL	819, 829	V						5
268 300 905 0	WIRBEL	819, 829	V						50
268 111 8	WIRBEL	819, 829	P2		10	120			Stück
268 157 7	WIRBEL	909 Plus, Mikros K12	P2	✓	10	280			Stück
268 301 200 5	WIRBEL	935, 936, 938	V	✓					5
268 301 206 0	WIRBEL	935, 936, 938	V	✓					60
268 301 300 5	WIRBEL	98, 960, 962, 980	V	✓					5
268 301 304 0	WIRBEL	98, 960, 962, 980	V	✓					40
268 301 400 5	WIRBEL	W 1	V						5
268 301 412 0	WIRBEL	W 1	V						120
268 162 41	WIRBEL	W 1	P2		10	240			Stück





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## R+M / Suttner team wear

## Polo-shirt



- » Design: Breathable
- » High-quality business-polo-shirt
- » 100% cotton, approximately 210 g/m<sup>2</sup>
- » Color: Navy / blue

R+M Nr.	size
980 015 1	S
980 016 1	M
980 017 1	L
980 018 1	XL
980 019 1	2XL
980 020 1	3XL
980 020 11	4XL

## Softshell-jacket



- » Design: Waterproof, breathable, warm inside, wind resistant
- » 2 zippered side pockets
- » 1 chest pocket
- » Material: Shell: 96 % Polyester, 4 % Elastane
- » Color: Navy / grey

R+M Nr.	size
980 040 1	S
980 041 1	M
980 042 1	L
980 043 1	XL
980 044 1	2XL
980 045 1	3XL
980 046 1	4XL

## Team jacket 3 in 1 with softshell inner jacket



- » Design: Outer jacket: Waterproof, breathable, windproof
- » Mesh lining in the upper body area, taped seams, integrated hood, adjustable cuffs, Velcro stormflap, security pocket with zipper, unisex
- » 2 zippered side pockets, 2 side pockets with zipper
- » Soft shell inner jacket with a warm interior
- » Material: Outer: Isotex 5000 polyester fabric
- » Material: Interior: Softshell
- » Color: Navy / black (always plain, no color combinations)

R+M Nr.	size
980 050	S
980 051	M
980 052	L
980 053	XL
980 054	2XL
980 055	3XL

## Sweat-shirt



- » Design: zipper, collar, long sleeve
- » High-quality work-sweat-shirt
- » 70 % cotton, 30 % polyester 320 g/m<sup>2</sup>
- » Color: Navy / blue

R+M Nr.	size
980 021 1	S
980 022 1	M
980 023 1	L
980 024 1	XL
980 025 1	2XL
980 026 1	3XL
980 027 1	4XL

## T-shirt



- » Design: Short sleeve
- » High-quality work-shirt
- » 100 % cotton about 195 g/m<sup>2</sup>
- » Color: Navy / blue

R+M Nr.	size
980 060 1	S
980 061 1	M
980 062 1	L
980 063 1	XL
980 064 1	2XL
980 065 1	3XL
980 066 1	4XL

## Safety spectacles, safety goggles and face shields

### Safety spectacles



- » Anti-fog, scratch-proof and anti-static polycarbonate lens
- » Integrated side protection. Including neck cord
- » 100 % UV-protection
- » Protected against shock, splinters and solid particle
- » Weight 25 g

R+M Nr.
956 002 817



- » Anti-fog and scratch-proof polycarbonate smoke lens
- » Panoramic field of vision
- » 100 % UV-protection
- » Protected against shock, splinters and solid particle
- » Weight 30 g

R+M Nr.
956 002 820

### Flip-up face shields



- » Anti-fog, scratch-proof and anti-static polycarbonate lens
- » Adjustable headgear
- » 100 % UV-protection
- » Protected against shock, splinters, solid particle and chemical danger (dangerous drops)
- » Weight 200 g

R+M Nr.
956 003 487

### Safety goggles with temples



- » Anti-fog, scratch-proof and anti-static polycarbonate lens
- » Straight temples with adjustable strap. Integrated side protection. Exchangeable plastic foam rim with indirect ventilation
- » Including microfibre cloth
- » 100 % UV-protection
- » Shockproof in case of extreme temperatures
- » Protected against shock, splinters, solid particle and liquids
- » Weight 52 g

R+M Nr.
956 004 828

### Visor



- » Anti-fog, scratch-proof and anti-static polycarbonate lens
- » Visor in connection with safety goggles  
956 003 067
- » Shockproof in case of extreme temperatures. Resistant to chemical drops, toxic gases, small and big toxic particle, melting metals and hot solids
- » Weight 73 g

R+M Nr.
956 003 128

### Safety goggles with adjustable strap



- » Anti-fog, scratch-proof and anti-static polycarbonate lens
- » Fits over prescription spectacles. Ball-pivot. Fits with respiratory half mask
- » 100 % UV-protection
- » Shockproof in case of extreme temperatures. Resistant to chemical drops, toxic gases, small and big toxic particle, melting metals and hot solids
- » Weight 113 g

R+M Nr.
956 003 067

## Gloves

### Chemistry Glove Solvex®



Category III -Protection Glove Alpha-Tec® Solvex®37-675. Very durable nitrile glove for use with hazardous chemicals. The reversed lozenge finish further enhances levels of grip. Cotton-flock liner to the glove

R+M Nr.	VPE	Thickness	size	Hand
956 067 511	1 pair	0.38	11	330 mm
956 167 511	12 pairs	0.38	11	330 mm
956 267 511	144 pairs	0.38	11	330 mm

### Protective work gloves Pro-Fit



- » PU glove, white / white
- » Palm and fingertips with PU coating
- » Polyamide liner
- » Circular knit seamless, knitted cuff
- » Comfortable to wear, breathable
- » Secure grip with excellent sense of touch
- » High abrasion resistance for long service life
- » Excellent fit

Category II protective glove, EN 388:2016, Level 3.1.3.1.X

R+M Nr.	VPE	size
980 030	12 pairs	8
980 031	12 pairs	9

The accident prevention regulations of the Employer's Liability Insurance Association regarding "the use of high pressure cleaner" (BGV D15) and "tasks with liquid jets" (BGV D26) prescribe that adequate eye and face protection have to be worn in case of an operating pressure of 25 bar and more.

Symbols packing unit thickness mm

### easyprotect365+ protection for high pressure cleaning

easyprotect365+ professional protective clothing for abrasive blasting operations up to 500 bar / 7,500 psi.

The strongest fiber in the world for the toughest demands of the world. Thanks Dyneema any application grown to safely master the most difficult tasks.

The perfect protection for people who work professionally with high-pressure cleaner not only in the industry.

#### Comfort, function and safety

Until now there has been no adequate protection for high pressure cleaning.

Nothing that corresponded to the achievements of modern devices or user requirements on comfort and functionality. Our experience with water blasting work at high pressures (up to 500 bar / 7,500 psi) and other personal protective equipment are the basis for our new clothing range. **easyprotect365+** protection for high pressure cleaning.

Ideal protection for abrasive blasting of concrete rehabilitation works, shipyards, petrochemical and steel industry.

#### Apron



- » 3-layer apron with CE certification
- » Security for blasting work up to 500 bar
- » Ideal for work in warm environments
- » Adjustable carrying band, waist band
- » Easy to put on and waterproof
- » Weight 0.7 kg
- » One Size
- » Protection class 5/5/2

R+M Nr.
956 123 501

#### Special gloves



- » Special gloves with CE certification
- » Security for blasting work up to 500 bar
- » Sand-rubber coating for maximum grip
- » Extra inner glove made of nylon
- » Protection class 5 cut 4 abrasion, tear and cut resistance
- » In two sizes 8 / 11
- » Protection class 5/5/2

R+M Nr.	size
956 100 501	8
956 100 502	11

#### Protective boots



- » Protective boots with CE Certification
- » Security for blasting work up to 500 bar
- » Designed for long working in rough conditions
- » Textile lining for maximum comfort
- » Waterproof and anti-slip sole
- » Weight 2.8 kg
- » Sizes 42 - 48
- » Protection class 5/5/3

R+M Nr.	EUR	US	UK
956 152 501	42	9	8
956 152 502	43	9,5	9
956 152 503	44	10,5	10
956 152 504	45	11,5	11
956 152 505	46	12	11,5
956 152 506	47	13	12,5
956 152 507	48	13,5	13,5

#### Protection class 5/5/2

- rotating nozzle 500 bar/7,500 psi
- flat jet 500 bar/7,500 psi
- point jet 200 bar/3,000 psi

CE 89/686/EEC

#### Protection class 5/5/3

- rotating nozzle 500 bar/7,500 psi
- flat jet 500 bar/7,500 psi
- point jet 300 bar/4,350 psi

CE 89/686/EEC

Note - load capacity for point jet:  
300 bar / 4,350 psi





# Reference list manufacturer number to R+M number

## Kärcher

Manufacturer Nr.	page	R+M Nr.	Manufacturer Nr.	page	R+M Nr.	Manufacturer Nr.	page	R+M Nr.
2.042-001.0	23	110 00	2.641-798.0	295	545 505 0	2.884-537.0	277	600 50
2.042-001.0	23	110 05	2.641-866.0	393	763 434 32	2.884-540.0	277	600 75
2.113-000.0	303	126 025 034	2.641-867.0	395	763 430 06	2.884-541.0	277	600 80
2.113-001.0	303	126 100 040	2.642-305.0	268	200 330 600	2.884-897.0	171	200 088 518
2.113-003.0	303	126 040 040	2.642-997.0	306	521 030 300	2.884-899.0	172	316 96
2.113-015.0	303	126 025 080	2.643-577.0	311	108 809 71	2.884-901.0	172	316 961
2.113-016.0	303	126 025 090	2.683-974.0	90	852 12	2.884-924.0	171	200 088 518
2.113-017.0	303	126 025 100	2.780-001.0	26	950 10	2.884-925.0	172	316 96
2.113-021.0	303	126 025 040	2.880-001.0	--	780 919 262	2.884-963.0	171	200 088 518
2.113-022.0	303	126 025 045	2.880-001.0	107	790 100	2.884-964.0	171	200 088 518
2.113-023.0	303	126 025 050	2.880-001.0	--	790 952 010 0	2.885-012.0	259	200 085 400
2.113-025.0	303	126 025 055	2.880-154.0	--	790 103	2.885-224.0	277	602 55
2.113-033.0	303	126 100 045	2.880-168.0	107	790 100	2.885-459.0	277	606 40
2.113-034.0	303	126 100 050	2.880-177.0	90	852 10	2.889-117.0	484	264 013
2.113-035.0	303	126 100 055	2.880-194.0	76	200 006 436	2.889-118.0	484	263 613
2.113-037.0	303	126 100 075	2.880-208.0	--	790 120	2.889-152.0	483	263 605
2.113-042.0	303	126 015 034	2.880-296.0	--	790 105	3.415-641.0	91	665 70
2.113-045.0	303	126 015 040	2.883-099.0	104	568 001 1	3.637-170.0	73	200 160 802
2.113-046.0	303	126 015 045	2.883-388.0	277	602 90	4.111-029.0	125	569 23
2.113-047.0	303	126 015 055	2.883-389.0	277	602 70	4.111-030.0	125	561 022 220
2.113-049.0	303	126 015 070	2.883-390.0	277	602 60	4.111-030.0	125	568 022 220
2.113-051.0	303	126 015 080	2.883-391.0	277	603 00	4.111-030.0	125	568 022 221
2.113-053.0	303	126 040 045	2.883-392.0	277	603 20	4.111-031.0	125	561 022 220
2.113-054.0	303	126 040 050	2.883-393.0	277	603 25	4.111-031.0	125	568 022 220
2.113-055.0	303	126 040 055	2.883-394.0	277	603 30	4.111-031.0	125	568 022 221
2.114-013.0	314	200 097 700	2.883-396.0	277	603 60	4.111-032.0	--	565 688
2.637-064.0	--	521 201	2.883-397.0	277	605 10	4.111-034.0	125	565 681
2.637-065.0	--	521 201	2.883-398.0	277	605 20	4.111-036.0	125	565 686
2.637-108.0	246	561 41	2.883-399.0	277	605 30	4.111-037.0	125	569 22
2.637-120.0	449	109 506	2.883-400.0	277	605 30	4.111-046.0	125	200 301 100
2.637-121.0	--	109 31	2.883-401.0	277	605 40	4.363-691.0	--	790 581
2.637-177.0	446	109 760 973	2.883-402.0	277	605 50	4.401-041.0	104	568 10
2.637-238.0	389	740 141	2.883-404.0	277	605 70	4.401-076.0	104	568 10
2.637-238.0	389	750 141	2.883-405.0	277	605 75	4.401-091.0	104	568 10
2.637-691.0	28	200 033 700	2.883-406.0	277	605 80	4.402-022.0	246	561 41
2.637-728.0	--	520 91	2.883-407.0	277	606 00	4.402-024.0	--	200 040 700
2.637-729.0	--	400 047 008	2.883-408.0	277	606 10	4.402-025.0	106	561 90
2.637-750.0	389	740 201	2.883-785.0	277	606 20	4.402-078.0	246	561 41
2.637-750.0	389	750 201	2.883-791.0	89	805 50	4.403-002.0	122	569 40
2.637-767.0	179	400 047 015	2.883-803.0	277	605 05	4.415-040.0	91	665 71
2.637-926.0	--	540 31	2.883-805.0	277	605 10	4.421-739.0	122	316 961 2
2.638-183.0	385	590 163	2.883-821.0	277	605 05	4.421-739.3	122	316 961 2
2.638-183.0	382	593 16	2.883-829.0	277	605 20	4.440-038.0	--	305 107 5
2.638-821.0	--	521 042 301	2.884-007.0	90	852 12	4.440-092.0	130	330 104 310
2.638-976.0	89	852 14	2.884-085.0	90	852 12	4.440-416.0	427	330 012 701 021
2.639-919.0	390	740 005	2.884-522.0	277	607 60	4.440-417.0	427	330 012 701 022
2.639-919.0	390	740 009	2.884-523.0	277	607 70	4.440-807.0	426	330 012 701 001
2.640-679.0	306	521 052 302	2.884-524.0	277	607 80	4.440-808.0	426	330 012 701 002
2.640-679.0	308	521 052 400	2.884-525.0	277	608 10	4.440-809.0	426	330 012 701 003
2.640-692.0	256	200 175 411	2.884-526.0	277	608 25	4.440-810.0	426	330 012 701 004
2.640-693.0	331	200 075 482	2.884-527.0	277	608 30	4.440-810.0	426	330 012 701 008
2.641-374.0	26	734 10	2.884-533.0	277	600 10	4.440-811.0	426	330 012 701 005
2.641-706.0	--	390 061 209	2.884-534.0	277	600 20	4.440-811.0	426	330 012 701 009
2.641-706.0	--	460 061 209	2.884-535.0	277	600 30	4.440-812.0	426	330 012 701 006
2.641-740.0	475	276 284 380	2.884-536.0	277	600 40	4.440-812.0	426	330 012 701 010

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4.470-041.0	122	559 908 221	4.760-434.0	264	523 962	4.763-130.0	291	657 560 1
4.580-144.0	385	706 151	4.760-550.0	247	514 519 1	4.763-146.0	281	200 357 355
4.580-160.0	385	706 05	4.760-550.0	248	514 549 1	4.763-170.0	281	200 357 340
4.580-163.0	--	707 36	4.760-550.0	249	514 529 1	4.763-170.0	281	200 458 340
4.610-026.0	499	262 080 102	4.760-584.0	248	514 529	4.763-174.0	290	658 104 54
4.610-078.0	501	262 080 101	4.760-584.0	249	514 529 1	4.763-184.0	--	653 340 011
4.680-063.0	93	200 080 512	4.760-584.0	248	514 549	4.763-184.0	285	653 040 011
4.680-070.0	93	200 080 532	4.760-584.0	248	514 549 1	4.763-211.0	291	657 545 1
4.680-077.0	93	200 080 502	4.760-609.0	--	514 849	4.763-228.0	--	653 335 011
4.680-084.0	93	200 080 552	4.760-609.0	--	514 849 1	4.763-228.0	--	653 340 011
4.680-097.0	93	200 080 522	4.760-660.0	248	514 529	4.763-229.0	--	653 340 011
4.680-098.0	93	200 080 532	4.760-660.0	249	514 529 1	4.763-250.0	281	200 357 355
4.680-114.0	93	200 080 114	4.760-660.0	248	514 549	4.763-250.0	281	200 458 355
4.680-123.0	93	200 080 123	4.760-660.0	248	514 549 1	4.763-250.0	281	200 458 360
4.680-127.0	93	200 080 502	4.760-661.0	248	514 749	4.763-252.0	282	200 456 640
4.680-135.0	93	200 080 542	4.760-661.0	248	514 749 1	4.763-252.0	281	200 357 340
4.730-019.0	26	732 90	4.760-662.0	--	514 849	4.763-252.0	281	200 458 340
4.730-029.0	30	734 50	4.760-662.0	--	514 849 1	4.763-253.0	281	200 357 350
4.730-059.0	28	200 033 900	4.760-664.0	248	514 129	4.763-253.0	281	200 458 350
4.760-048.0	--	070 000 170	4.760-664.0	248	514 149	4.763-254.0	281	200 458 370
4.760-048.0	247	514 10	4.760-679.0	249	200 146 550	4.763-254.0	281	200 458 380
4.760-049.0	247	514 50	4.760-691.0	248	514 129	4.763-930.0	281	200 458 310
4.760-049.0	247	514 501	4.760-691.0	248	514 149	4.763-931.0	282	200 456 635
4.760-049.0	247	514 59	4.760-694.0	248	514 749	4.763-931.0	281	200 357 335
4.760-052.0	247	514 80	4.760-694.0	248	514 749 1	4.763-977.0	--	653 330 011
4.760-052.0	247	514 801	4.762-010.0 + 2.637-900.0	301	520 854 0	4.763-988.0	281	200 458 345
4.760-058.0	--	514 00	4.762-010.0 + 2.637-901.0	301	520 854 5	4.764-012.0	267	200 056 500
4.760-073.0	267	513 112	4.762-010.0 + 2.637-902.0	301	520 855 0	4.764-066.0	291	657 555 1
4.760-101.0	247	514 510	4.762-010.0 + 2.637-903.0	301	520 855 5	4.764-208.0	281	200 458 310
4.760-101.0	247	514 511	4.762-010.0 + 2.637-904.0	301	520 856 0	4.767-002.0	291	657 545 1
4.760-101.0	247	514 519	4.762-010.0 + 2.637-905.0	301	520 856 5	4.767-005.0	291	657 555 1
4.760-101.0	247	514 519 1	4.762-015.0	299	522 20	4.767-022.0	281	200 357 335
4.760-102.0	247	514 11	4.762-047.0	34	523 70	4.767-023.0	281	200 357 340
4.760-102.0	247	514 119	4.762-062.0	232	559 980 500	4.767-024.0	281	200 357 350
4.760-103.0	247	514 81	4.762-065.0	--	522 501 1	4.767-041.0	281	200 357 330
4.760-103.0	247	514 811	4.762-249.0	--	930 002 908	4.767-076.0	281	200 458 390
4.760-103.0	247	514 819	4.762-252.0	--	930 002 822	4.767-116.0	282	200 456 635
4.760-129.0	247	514 71	4.762-283.0	299	522 40	4.767-116.0	281	200 357 335
4.760-129.0	247	514 711	4.762-284.0	299	522 40	4.767-117.0	282	200 456 640
4.760-129.0	247	514 719 1	4.762-287.0	299	522 20	4.767-117.0	281	200 357 340
4.760-132.0	--	523 98	4.762-287.0	299	522 20	4.767-117.0	281	200 458 340
4.760-134.0	--	523 98	4.762-288.0	299	522 20	4.767-229.0	281	200 357 330
4.760-156.0	--	516 11	4.762-288.0	299	522 20	4.767-230.0	281	200 357 335
4.760-157.0	--	516 81	4.762-510.0	299	522 20	4.767-231.0	281	200 357 340
4.760-180.0	--	516 61	4.762-536.0	299	523 001	4.767-232.0	281	200 357 345
4.760-182.0	247	514 10	4.762-559.0	299	522 40	4.767-233.0	281	200 357 350
4.760-182.0	247	514 19	4.762-560.0	299	522 20	4.775-012.0	201	202 600 710
4.760-212.0	267	515 01	4.762-561.0	299	522 40	4.775-016.0	208	200 860 520
4.760-220.0	247	514 519 1	4.762-562.0	299	522 20	4.775-026.0	208	200 860 520
4.760-245.0	437	200 097 801	4.763-039.0	290	658 105 04	4.775-029.0	--	202 300 820
4.760-245.0	267	515 01	4.763-058.0	290	658 105 54	4.775-036.0	211	507 001 590
4.760-268.0	247	514 30	4.763-078.0	281	200 357 355	4.775-037.0	--	202 300 820
4.760-268.0	247	514 301	4.763-078.0	281	200 458 355	4.775-056.0	--	202 300 820
4.760-268.0	247	514 39	4.763-082.0	281	200 357 345	4.775-079.0	211	507 001 590
4.760-268.0	247	514 391	4.763-082.0	281	200 458 345	4.775-080.0	211	507 001 590
4.760-269.0	--	658 103 51	4.763-083.0	281	200 458 365	4.775-120.0	--	202 300 820
4.760-355.0	247	514 519 1	4.763-084.0	281	200 458 345	4.775-152.0	--	202 300 820
4.760-361.0	264	523 962	4.763-085.0	281	200 458 310	4.775-191.0	211	507 001 590
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4.775-271.0	--	202 300 820	6.287-025.0	26	950 40	6.369-473.0	510	930 106 031
4.775-273.0	--	202 300 820	6.288-044.0	126	953 50	6.369-475.0	--	930 000 198
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4.775-282.0	201	202 600 710	6.291-388.0	--	952 10	6.369-477.0	--	930 000 195
4.775-282.0	208	200 860 520	6.362-092.0	48	161 288 0	6.369-479.0	--	930 000 194
4.775-466.0	200	202 300 720	6.362-092.0	48	161 289 0	6.369-900.0	--	930 001 618
4.775-466.0	201	202 600 720	6.362-151.0	107	790 10	6.370-007.0	34	523 72
4.775-470.0	--	200 052 500	6.362-376.0	--	050 000 490	6.370-122.0	--	930 000 919
4.775-471.0	--	200 052 500	6.362-392.0	107	790 20	6.370-125.0	--	930 000 917
4.775-526.0	--	200 052 500	6.362-406.0	--	793 305 178	6.370-126.0	--	930 000 777
4.775-825.0	214	202 715 580	6.362-406.0	48	161 276 0	6.370-127.0	--	930 000 947
5.181-041.0	--	930 001 905	6.362-406.0	48	161 277 0	6.370-129.0	--	930 000 776
5.401-129.0	271	519 60	6.362-427.0	--	050 000 590	6.370-130.0	--	930 000 946
5.401-153.0	271	519 60	6.362-458.0	--	050 000 210	6.370-131.0	--	930 000 920
5.401-210.0	271	519 60	6.362-472.0	--	796 15	6.370-132.0	--	930 000 781
5.403-034.0	122	569 50	6.362-481.0	123	791 42	6.370-133.0	--	930 000 950
5.403-128.0	382	593 16	6.362-482.0	104	568 011	6.370-970.0	--	930 001 376
5.403-175.0	122	569 40	6.362-484.0	--	903 616 00	6.371-200.0	34	523 73
5.762-004.0	34	523 72	6.362-484.0	48	161 282 0	6.371-279.0	34	523 72
5.762-112.0	--	930 002 247	6.362-484.0	48	161 283 0	6.386-125.0	122	569 20
5.762-125.0	--	930 002 249	6.362-524.0	104	568 010	6.386-356.0	383	583 161 6
5.762-126.0	--	930 002 907	6.362-534.0	120	551 502 43	6.386-465.0	382	595 16
5.762-127.0	--	930 002 244	6.362-547.0	--	050 002 050	6.386-466.0	382	594 16
5.762-133.0	--	930 002 825	6.362-577.0	--	050 000 020	6.388-057.0	138	342 100 510
5.762-169.0	--	930 002 932	6.362-586.0	--	050 000 260	6.388-060.0	141	460 000 210
5.762-169.0	--	930 002 932	6.363-554.0	--	050 000 247	6.388-071.0	128	340 100 420
5.762-171.0	--	930 002 823	6.365-053.0	48	161 280 0	6.388-083.0	134	345 601 121 0
5.762-208.0	--	930 002 252	6.365-053.0	48	161 281 0	6.388-083.0	128	345 101 410
5.762-299.0	--	930 000 910	6.365-055.0	48	161 284 0	6.388-455.0	12	720 20
5.763-011.0	--	651 861	6.365-055.0	48	161 285 0	6.388-458.0	12	722 40
5.763-012.0	--	651 481	6.365-330.0	48	161 278 0	6.388-460.0	12	722 20
5.763-013.0	--	651 851	6.365-330.0	48	161 279 0	6.388-461.0	12	720 10
5.763-015.0	183	650 09	6.365-332.0	48	161 274 0	6.388-462.0	12	720 50
5.763-015.0	183	650 10	6.365-332.0	48	161 275 0	6.388-465.0	12	720 30
5.763-016.0	183	650 50	6.365-333.0	48	161 272 0	6.388-473.0	12	722 30
5.763-019.0	183	650 40	6.365-333.0	48	161 273 0	6.388-474.0	12	723 01
5.763-020.0	183	650 50	6.365-347.0	48	161 290 0	6.388-483.0	13	728 310
5.765-030.0	277	600 10	6.365-347.0	48	161 291 0	6.388-547.0	23	735 40
5.765-031.0	277	600 20	6.365-432.0	48	161 264 0	6.388-548.0	23	735 50
5.765-032.0	277	600 30	6.365-432.0	48	161 265 0	6.388-576.0	13	728 311
5.765-033.0	277	600 40	6.365-438.0	48	161 270 0	6.388-803.0	159	301 50
5.765-034.0	277	600 50	6.365-438.0	48	161 271 0	6.388-803.0	159	301 52
5.765-035.0	277	600 60	6.369-001.0	510	930 106 025	6.388-813.0	128	340 100 420
5.765-036.0	277	600 70	6.369-002.0	510	930 103 025	6.388-813.0	128	345 100 420
5.765-037.0	277	600 75	6.369-003.0	510	930 102 025	6.388-825.0	128	345 100 410
5.765-038.0	277	600 80	6.369-022.0	510	930 106 033	6.388-826.0	128	340 100 410
5.765-039.0	277	601 00	6.369-023.0	510	930 103 033	6.388-831.0	178	400 000 020
5.765-040.0	277	601 10	6.369-024.0	510	930 102 033	6.388-832.0	178	400 000 030
5.777-023.0	--	930 000 172	6.369-077.0	510	930 106 035	6.388-854.0	131	460 010 210
6.025-253.0	301	200 555 565	6.369-078.0	510	930 103 035	6.388-860.0	178	410 000 020
6.233-017.0	387	107 008 0	6.369-079.0	510	930 102 037	6.388-860.0	178	420 300 020
6.273-207.0	--	930 001 906	6.369-469.0	510	930 101 031	6.388-934.0	13	390 010 215
6.286-466.0	382	594 16	6.369-470.0	510	930 102 031	6.388-987.0 (16 mtr.)	481	264 048 20

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6.389-063.0	131	460 010 210	6.390-704.0	138	342 111 510	6.394-564.0	--	200 601 650
6.389-088.0	130	335 110 315	6.390-705.0	138	342 111 520	6.394-610.0	--	517 608 0
6.389-092.0	131	460 004 210	6.390-726.0	128	350 100 420	6.394-610.0	249	517 608 5
6.389-103.0	427	330 012 701 023	6.391-168.0	128	330 111 310	6.394-611.0	354	540 505
6.389-103.0	427	330 012 701 025	6.391-172.0	142	330 136 815	6.394-654.0	249	200 085 935
6.389-104.0	427	330 012 701 024	6.391-172.0	142	390 036 815	6.394-655.0	249	200 085 646
6.389-104.0	427	330 012 701 026	6.391-238.0	128	330 111 310	6.394-665.0	--	517 608 0
6.389-160.0	130	335 110 315	6.391-342.0	128	343 100 410	6.394-665.0	249	517 608 5
6.389-176.0	130	340 110 410	6.391-351.0	--	345 111 410 8	6.394-688.0	354	540 505
6.389-190.0	128	345 111 410	6.391-419.0	128	343 100 410	6.394-690.0	--	200 086 511
6.389-301.0	128	340 101 415	6.391-420.0	130	330 110 310	6.394-697.0	--	200 601 660
6.389-351.0	130	330 110 310	6.391-421.0	393	763 434 31	6.394-968.0	353	200 073 520
6.389-354.0	131	460 010 210	6.391-421.0	393	763 534 31	6.394-969.0	353	200 073 618
6.389-479.0	135	341 101 610	6.391-424.0	128	345 111 420	6.401-412.0	104	568 10
6.389-479.0	140	347 601 121 0	6.391-478.0	178	420 300 010	6.401-416.0	--	202 300 481
6.389-479.0	140	347 601 121 07	6.391-479.0	178	420 300 020	6.401-417.0	232	559 103
6.389-479.0	138	342 101 510	6.391-480.0	178	420 300 030	6.401-418.0	233	565 67
6.389-555.0	--	460 010 810	6.391-481.0	--	345 100 410 8	6.401-455.0	--	202 300 481
6.389-571.0	130	340 110 420	6.391-482.0	--	345 100 420 8	6.412-043.0	62	200 280 646
6.389-574.0	131	460 010 210	6.391-483.0	--	345 111 410 8	6.412-086.0	--	010 004 050
6.389-581.0	135	346 100 620 7	6.391-484.0	128	330 111 310	6.412-449.0	383	581 80
6.389-581.0	--	346 100 620 9	6.391-512.0	128	350 100 415	6.412-490.0	382	591 16
6.389-581.0	138	347 100 520 7	6.391-513.0	--	350 100 425	6.412-578.0	26	734 10
6.389-581.0	--	347 100 520 9	6.391-516.0	135	346 100 610 7	6.412-601.0	63	533 351
6.389-581.0	138	342 101 520	6.391-516.0	--	346 100 610 9	6.412-601.0	62	200 280 510
6.389-582.0	131	390 010 210	6.391-516.0	138	347 100 510 7	6.412-601.0	63	533 31
6.389-597.0	128	335 111 310	6.391-516.0	--	347 100 510 9	6.414-389.0	28	200 033 700
6.389-609.0	138	342 100 520	6.391-516.0	135	341 100 610 7	6.414-413.0	88	829 05
6.389-646.0	130	345 110 410	6.391-517.0	135	346 100 620 7	6.414-498.0	492	268 228 200
6.389-720.0	128	345 101 415	6.391-517.0	--	346 100 620 9	6.414-956.0	27	200 035 630
6.389-786.0	128	340 100 410	6.391-517.0	138	347 100 520 7	6.414-956.0	26	732 60
6.389-853.0	130	330 110 310	6.391-517.0	--	347 100 520 9	6.414-956.0	26	732 90
6.389-856.0	128	345 111 410	6.391-517.0	135	341 100 620 7	6.415-001.0	91	665 61
6.389-891.0	128	343 100 410	6.391-520.0	393	763 434 31	6.415-001.0	91	675 51
6.390-010.0	128	343 100 415	6.391-520.0	393	763 534 31	6.415-002.0	91	665 71
6.390-023.0	128	350 100 415	6.391-522.0	--	345 111 000 05	6.415-004.0	91	665 91
6.390-025.0	128	343 111 410	6.391-522.0	122	316 961 1	6.415-006.0	91	675 81
6.390-026.0	--	345 100 410 8	6.391-545.0	395	763 430 06	6.415-010.0	91	666 21
6.390-026.0	--	345 100 420 8	6.391-646.0	160	302 06	6.415-030.0	91	668 01
6.390-026.0	128	345 100 410	6.391-646.0	160	302 05	6.415-040.0	91	665 70
6.390-027.0	128	345 101 420	6.391-646.0	159	302 052	6.415-040.0	91	665 71
6.390-028.0	178	400 000 020	6.391-647.0	159	301 50	6.415-040.0	91	675 61
6.390-028.0	178	410 000 020	6.391-647.0	159	301 52	6.415-050.0	91	666 11
6.390-028.0	178	420 300 020	6.391-648.0	--	420 300 040	6.415-051.0	91	668 61
6.390-029.0	178	400 000 030	6.391-676.0	128	343 100 420	6.415-053.0	91	668 71
6.390-029.0	178	410 000 030	6.391-843.0	--	343 111 142 0	6.415-058.0	91	667 90
6.390-029.0	178	420 300 030	6.391-843.0	128	343 111 420	6.415-082.0	277	601 10
6.390-030.0	178	420 300 020	6.391-864.0	137	346 601 121 0	6.415-150.0	277	600 80
6.390-031.0	128	343 100 420	6.391-882.0	128	335 111 310	6.415-151.0	277	603 30
6.390-078.0	130	330 110 310	6.391-883.0	128	335 100 310	6.415-152.0	277	605 80
6.390-096.0	131	390 004 210	6.391-924.0	128	343 111 410	6.415-153.0	277	608 30
6.390-171.0	128	343 111 420	6.392-203.0	392	764 434 32	6.415-157.0	277	608 40
6.390-174.0	130	330 110 315	6.392-203.0	392	764 434 33	6.415-160.0	277	606 00
6.390-185.0	128	343 111 415	6.392-204.0	395	763 430 06	6.415-162.0	277	605 30
6.390-208.0	128	345 111 420	6.392-206.0	128	335 100 310	6.415-163.0	277	607 80
6.390-293.0	--	343 100 430	6.392-207.0	128	335 111 310	6.415-171.0	277	603 90
6.390-294.0	--	345 111 430	6.392-210.0	--	202 600 552	6.415-172.0	277	606 40

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6.415-252.0	277	606 10	6.490-087.0	499	262 120	6.904-167.0	514	268 150 71
6.415-253.0	277	608 60	6.490-110.0	499	262 110 101	6.904-206.0	492	268 228 300
6.415-257.0	277	600 50	6.490-166.0	499	262 120 702	6.904-208.0	515	268 153 2
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6.415-278.0	277	600 20	6.490-270.0	501	262 080 101	6.904-216.0	515	268 152 7
6.415-279.0	277	602 70	6.492-029.0	--	010 000 03	6.904-218.0	515	268 152 8
6.415-280.0	277	607 70	6.541-011.0	387	107 208 0	6.904-263.0	514	268 150 7
6.415-287.0	277	605 70	6.541-012.0	387	107 108 0	6.904-283.0	492	268 228 600
6.415-288.0	277	608 20	6.541-025.0	388	107 408 0	6.904-284.0	492	268 228 620
6.415-295.0	277	605 50	6.541-026.0	388	107 308 0	6.904-290.0	515	268 158 7
6.415-296.0	277	600 30	6.541-027.0	387	107 608 0	6.904-294.0	515	268 160 3
6.415-297.0	277	600 70	6.541-028.0	388	107 708 0	6.904-312.0	515	268 157 8
6.415-301.0	277	608 00	6.541-039.0	--	107 808 0	6.904-322.0	515	268 150 72
6.415-304.0	277	601 00	6.541-039.0	387	107 908 0	6.904-329.0	515	268 303 701 0
6.415-305.0	277	603 20	6.610-212.0	501	262 000 102	6.904-333.0	515	268 159 0
6.415-307.0	277	603 00	6.622-055.0	89	800 20	6.904-360.0	492	268 228 330
6.415-308.0	277	605 10	6.622-086.0	89	805 00	6.904-367.0	492	268 228 310
6.415-309.0	277	603 50	6.622-132.0	89	805 50	6.904-488.0	511	268 141 0
6.415-310.0	277	600 70	6.631-105.0	76	200 006 436	6.905-506.0	--	930 002 255
6.415-311.0	277	605 40	6.631-726.0	--	912 245	6.905-587.0	--	930 002 694
6.415-312.0	277	607 90	6.631-739.0	--	912 245	6.905-622.0	--	930 000 606
6.415-313.0	277	602 90	6.631-792.0	79	912 00	6.905-624.0	--	930 000 691
6.415-314.0	277	600 40	6.632-190.0	82	901 522	6.905-625.0	--	930 001 158
6.415-325.0	277	609 052	6.651-646.0	108	565 50	6.905-625.0	--	930 001 158
6.415-327.0	277	605 60	6.651-647.0	107	561 50	6.905-651.0	--	930 000 692
6.415-328.0	277	600 60	6.651-648.0	106	564 60	6.905-864.0	--	930 001 499
6.415-336.0	277	600 10	6.651-649.0	106	561 98	6.905-877.0	483	263 612 43
6.415-337.0	277	602 60	6.685-868.0	82	910 12	6.905-878.0	483	263 612 42
6.415-338.0	277	607 60	6.685-949.0	82	910 13	6.905-982.0	--	930 002 744
6.415-359.0	277	605 40	6.686-591.0	--	010 000 02	6.905-986.0	--	930 001 588
6.415-419.0	277	600 75	6.778-198.0	--	200 072 614	6.906-007.0	--	930 000 912
6.415-420.0	277	603 25	6.900-222.0	486	265 020	6.906-028.0	--	930 002 234
6.415-421.0	277	605 75	6.900-384.0	482	263 623 1	6.906-028.0	--	930 002 234
6.415-422.0	277	608 25	6.900-385.0	486	263 619	6.906-054.0	--	930 001 494
6.415-424.0	276	635 70	6.900-425.0	485	263 618 1	6.906-055.0	--	930 001 492
6.415-424.0	276	635 80	6.900-514.0	482	263 623	6.906-076.0	--	930 002 747
6.415-428.0	184	200 049 840	6.903-034.0	485	263 620	6.906-078.0	--	930 001 496
6.415-440.0	184	200 049 840	6.903-035.0	485	263 629	6.906-085.0	--	930 001 503
6.415-492.0	91	665 30	6.903-036.0	485	263 628	6.906-097.0	511	268 141 0
6.415-503.0	276	635 30	6.903-234.0	486	265 019	6.906-104.0	515	268 152 3
6.415-504.0	276	635 40	6.903-345.0	--	930 000 476	6.906-118.0	515	268 143 61
6.415-505.0	276	635 50	6.903-347.0	--	930 002 662	6.906-118.0	515	268 143 6
6.415-520.0	91	665 40	6.903-403.0	485	263 219	6.906-132.0	--	930 001 156
6.415-530.0	91	665 91	6.903-409.0	--	930 002 152	6.906-132.0	--	930 001 156
6.415-539.0	91	665 90	6.903-862.0	485	263 617 2	6.906-206.0	--	930 001 588
6.415-572.0	91	666 21	6.903-887.0	485	263 217	6.906-332.0	--	930 001 496
6.415-622.0	270	623 10	6.904-045.0	515	268 152 3	6.906-346.0	--	930 002 914
6.415-622.0	270	623 10	6.904-051.0	514	268 150 6	6.906-383.0	--	264 012 5
6.415-641.0	91	665 70	6.904-058.0	513	268 111 8	6.906-384.0	--	263 612 6
6.415-641.0	91	679 213 1	6.904-059.0	511	268 141 0	6.906-512.0	--	263 612 3
6.415-651.0	91	675 82	6.904-060.0	515	268 143 5	6.906-513.0	--	263 612 4
6.415-660.0	91	665 50	6.904-068.0	492	268 280 210	6.906-523.0	515	268 143 6
6.415-682.0	91	679 212 1	6.904-072.0	515	268 151 9	6.906-554.0	--	264 012 4
6.421-133.0	77	548 37	6.904-085.0	--	020 001 735	6.906-563.0	--	930 002 913
6.472-113.0	87	822 50	6.904-086.0	--	020 001 695	6.906-755.0	485	263 615 1
6.472-123.0	87	822 40	6.904-097.0	511	268 141 0	6.907-276.0	492	268 228 900
6.472-128.0	87	822 15	6.904-123.0	492	268 280 220	6.907-277.0	492	268 228 910
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6.907-512.0	484	263 613	6.958-172.0	--	930 001 247	7.367-000.0	48	157 465 0
6.951-073.0	--	930 000 182	6.958-173.0	--	930 001 246	8.300-481.0	107	561 30
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6.951-164.0	--	930 000 183	6.989-903.0	233	559 94			
6.951-164.0	--	930 000 183	6.989-903.0	233	559 95			

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GUGO10368	--	520 800 7	LPCR12985	--	202 300 390	TBAP20264	131	460 012 208
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GUVR16593	--	568 008	MEPF06949	--	200 005 500	TBAP23853	179	410 012 020
ioppr86137	--	202 300 676	MEPF17533	61	200 261 513	TBAP24406	179	410 012 010
IPIP08138	--	202 000 580	MEPF88344	61	200 261 517	TBAP25324	128	343 100 310
IPIP08138	223	202 000 500	MLML13335	61	200 261 513	TBAP26473	--	330 112 308
IPIP19772	212	201 500 581	MPVR46562	--	020 008 615	TBAP28305	141	460 000 208
IPIP86827	--	202 300 840	MPVR46563	--	020 008 620	TBAP28590	--	340 100 308
IPIP89840	--	202 300 674	MPVR46570	--	020 003 400	UGLN00044	278	618 10
IPPR12973	--	202 000 820	MPVR46572	--	020 003 410	UGLN02287	278	617 90
IPPR18062	--	202 000 810	NBNB04978	--	106 000	UGLN02293	278	610 50
IPPR43065	--	202 300 780	NBNB12340	--	106 100	UGLN02295	278	618 20
IPPR45298	--	202 300 675	PVVR08143	--	202 000 030	UGLN02297	278	610 60
IPPR45817	--	202 300 676	PVVR08149	--	502 912 0	UGLN02300	278	618 30
IPPR86137	207	202 300 685	PVVR08615	--	040 000 440	UGLN02302	278	610 70
IPPR89429	--	202 300 677	PVVR08617	--	020 001 290	UGLN02304	278	618 40
KTRI00038	--	544 323 14	PVVR08618	--	010 001 700	UGLN02306	278	610 80
KTRI10689	212	202 000 044	PVVR14120	--	010 002 561	UGLN02307	278	618 50
KTRI14653	61	200 261 528	PVVR14121	--	010 002 562	UGLN02309	278	610 90
KTRI16958	61	200 261 526	PVVR16955	--	020 002 850	UGLN02310	278	618 70
KTRI28914	--	109 620	PVVR16956	--	200 036 000	UGLN02311	278	611 10
KTRI43422	283	200 458 255	PVVR16957	--	040 001 490	UGLN02312	278	618 90
LAFN06313	94	200 080 635	PVVR17571	61	200 261 527	UGLN02313	278	611 30
LAGR44154	94	200 080 635	PVVR21711	--	020 001 910	UGLN02314	278	619 00
LCLC06368	--	106 921 00	PVVR37732	--	060 000 270	UGLN02316	278	611 40
LCLC41140	--	521 203	PVVR46566	205	202 300 490	UGLN02323	278	610 07
LCLC86829	--	200 000 240	PVVR46567	--	202 300 420	UGLN03327	278	618 00
LCPR04507	--	521 101	PVVR88350	--	020 001 860	UGLN03329	278	610 30
LCPR12975	241	513 203 1	PVVR88456	--	010 001 790	UGLN05172	278	610 40
LCPR12976	241	513 303 1	RCGR08658	25	200 066 500	UGLN05174	--	624 90
LCPR12977	241	513 403 1	RCIN10577	--	565 30	UGLN11304	278	610 10
LCPR12978	--	513 503 1	RCIN10810	--	569 70	UGLN11777	278	618 60
LCPR12979	--	513 603 1	RCIN17663	104	200 044 510	UGLN15293	278	611 00
LCPR12985	237	202 300 400	RCIN17663	104	568 00	UGLN21188	278	610 20
LCPR19891	--	520 95	RCIN88940	104	200 044 510	UGLN21878	278	617 65
LCPR24936	363	540 502	RCVR13030	--	010 006 70	UGLN28784	183	650 10
LCPR24937	--	200 070 510	RODS10201	--	010 003 165	UGLN28785	183	650 20
LCPR24937	363	540 40	SPID19889	--	522 506	VVAZ15529	60	200 261 655
LCPR24937	363	540 402	SPID19890	--	523 10	VVAZ87716	60	200 261 551
LCPR29360	--	515 00	TBAP09624	--	410 027 010	VVAZ88040	60	200 261 660
LCPR33263	--	653 345 06	TBAP15631	128	345 101 310			
LCPR46571	--	070 000 420	TBAP15632	128	355 101 310			
LCTE00034	269	200 056 500	TBAP16291	128	343 101 310			
LCTE41970	283	200 357 545	TBAP16654	128	343 101 315			

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1716	12	720 10	8075	--	513 114	29747	503	268 264 000
1717	12	722 20	8076	22	711 51	30063	503	268 263 610
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1753	87	822 50	8466	26	950 10	31753	27	200 031 600
1756	87	822 50	8526	--	514 102	32541	13	727 10
2463	12	723 30	8526	--	514 102 9	32541	13	728 311
2504	278	635 20	8528	278	635 30	33308	91	679 46
2506	278	635 60	8634	122	569 10	33465	91	679 202
2507	278	635 80	8675	--	569 12	34641	503	268 263 800
2803	--	967 014 00	9326	48	151 380 0	34756	--	850 41
3250	12	720 30	10022	503	268 264 300	37337	106	561 90
3251	12	723 40	10263	12	723 00	37450	115	108 300 01
3252	12	723 10	10356	35	523 72	37700	104	568 70
3329	118	552 001	11162	71	189 321 0	37700	105	108 700 07
3330	118	552 101	11328	--	651 842	37871	--	109 717
4011	12	723 20	11375	301	524 10	40455	497	263 618
4721	--	151 382 0	11376	301	524 20	40458	497	265 017
5144	--	263 620+263 619	11618	503	268 263 620	41164	503	268 263 700
5149	495	263 612 1	11984	493	265 049 20	41164	503	268 263 710
5149	495	263 612 1	11984	--	265 049 30	41171	94	200 080 600
5253	497	265 016	11985	493	263 649 20	41306	132	340 176 320
5521	20	305 20	14238	493	265 044 25	41394	278	632 40
5521	20	306 90	14240	493	263 249 20	42160	503	268 263 510
5567	--	651 402	14295	497	263 615	42160	503	268 263 520
5709	23	110 00	14577	102	581 70	42628	82	915 102 4
5889	--	657 202	14987	132	340 176 310	43685	229	200 601 600
5895	106	564 50	15101	--	264 052 3	46918	184	200 049 830
6086	497	263 618 1	15101	494	265 050	46918	184	200 049 970
6149	--	790 30	15307	493	262 549 20	46920	178	410 015 010
6343	71	189 211 0	15312	--	263 646 20	46920	179	411 015 010
6425	29	701 403	15326	493	262 548 30	46921	183	650 10
6429	493	263 644 20	15348	--	263 612 5	47310	178	410 015 020
6465	20	305 50	15349	496	263 612 52	47310	179	411 015 020
6577	22	711 56	15475	503	268 264 310	48748	511	262 120 202
6698	82	910 15	15518	69	121 412 92	48748	511	262 120 202
6868	--	982 100 00	16163	--	200 860 570	48872	283	200 458 450
7102	498	265 020	16163	--	200 860 570	48874	283	200 458 445
7270	--	263 612 3	16208	108	567 30	48875	283	200 458 455
7599	493	265 046 30	16443	--	520 800 9	48916	511	262 080 102
7754	82	915 122 0	16741	--	121 413 22	48967	91	679 19
7811	278	632 60	17211	--	200 055 626	48981	283	200 458 470
7813	278	635 40	17216	--	200 055 540	48982	283	200 458 460
7814	278	635 50	17387	278	630 40	48983	283	200 458 410
7825	278	639 57	18059	--	790 305	49181	178	410 015 030
7974	395	107 008 0	19643	--	918 328 00	49181	179	411 015 030
7975	395	107 208 0	20316	389	599 121 5	49283	283	200 357 435
7976	395	107 608 0	20317	--	599 181 5	49285	283	200 357 445
7979	396	107 408 0	20446	399	740 14	49287	283	200 357 455
7989	461	109 506	20863	--	330 195 000	49364	--	653 035 02
7990	461	109 516	24855	79	833 00	49366	--	653 045 02
8050	20	305 10	24856	79	833 10	49368	--	653 055 02
8051	27	200 035 500	24865	23	110 05	49587	123	903 598 00
8069	--	514 302	25371	283	200 357 155	49594	511	262 120 202
8070	--	514 502	25372	283	200 357 145	49600	511	262 080 102

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52964	396	107 708 0	1117076	--	516 055 5	6401244	75	200 160 615
52966	396	107 308 0	1119402	204	202 300 570	6401244	75	200 160 616
53654	35	523 76	1400274	119	200 045 505	6401246	75	200 160 617
56875	--	200 860 570	1401983	139	357 144 515	6401247	75	200 167 860
56875	--	200 860 570	1401983	136	351 144 615	6404368	--	200 072 646
56899	--	341 194 610	1401983	139	352 144 515	6404368	--	200 072 648
56899	--	342 194 515	1401991	139	357 144 520	6404368	--	200 072 651
56901	--	341 194 615	1401991	136	351 144 620	6404369	--	200 072 647
56901	--	342 194 520	1401991	139	352 144 520	6404369	--	200 072 649
56962	--	658 104 02	1402007	--	357 144 525	6404369	--	200 072 652
60076	503	268 264 210	1402015	--	357 144 530	6410755	--	653 045 05
60077	503	268 264 200	1402064	133	355 644 315	6410762	--	522 505
60356	--	263 612 4	1402064	136	356 144 615	6410763	--	515 05
61069	--	901 641 00	1402064	139	357 144 515	6410765	--	523 805
61074	--	441 200 41	1402072	133	355 644 320	6410766	179	400 032 015
61076	--	982 176 00	1402072	136	356 144 620	6410792	--	400 032 008
61077	43	340 123 01	1402072	139	357 144 520	6410884	--	658 104 55
61078	43	340 124 01	1402080	--	355 644 325	6410885	--	658 103 55
61079	43	340 088 01	1402098	--	355 644 330	6411013	236	559 55
61079	43	340 130 01	1402759	--	355 644 350	7110020	367	106 024 600
61115	130	340 194 310	1402890	119	200 045 505	8000115	179	400 032 010
61252	130	340 194 320	1402932	--	355 644 303	8000205	179	400 032 020
61256	27	731 21	1402940	--	355 144 305	8001115	179	410 037 010
61274	511	262 140 102	1405569	132	340 144 310	8001155	179	410 037 015
61369	22	711 55	1405666	132	340 144 320	8001205	179	410 037 020
61605	504	268 289 400	1600493	119	557 204	8001255	179	410 037 025
61659	91	675 41	1601871	235	040 003 080	8001305	179	410 037 030
61951	--	330 193 310	1602945	--	527 003 004	8002405	179	410 037 040
62012	511	262 140 102	1603101	119	557 209	8051390	272	200 009 600
62144	123	318 272 1	1603612	390	593 15	8065020	183	650 20
62201	58	133 362 8	1603620	390	595 15	101405641	--	330 115 431 082
62363	130	340 194 315	1603638	390	594 15	101405770	--	343 144 310+200 045 510
62381	40	001 560 01	1603760	--	593 30	101405770	--	345 144 310+200 045 510
62382	40	001 300 01	1603786	--	594 30	101406175	--	330 144 315+200 045 510
62383	40	001 760 01	1603794	--	595 30	101406176	142	330 110 081 5
62384	--	001 860 01	1604461	--	734 50+734 293 00	102802856	283	200 458 410
62455	--	001 120 02	3000031	119	792 025 100	106402171	291	653 855 014
62456	--	001 890 02	3000049	119	791 825 100	106402190	204	202 300 570
62457	--	015 110 02	3801024	87	825 45	106402190	205	202 600 545
62517	--	015 090 02	4810214	--	365 144 320	106403011	254	200 054 630
62518	--	015 100 02	4810219	--	365 144 310	106403091	--	200 053 538+200 357 540
62519	--	001 860 11	5301378	26	950 10	106403092	--	200 053 538+200 357 545
62520	--	001 560 02	6101766	133	355 644 310	106403093	--	200 053 538+200 357 550
63030	43	340 127 01	6101766	136	356 144 610	106403094	--	200 053 538+200 357 555
63060	43	340 096 01	6101766	139	357 144 510	106403095	--	200 053 538+200 357 565
63245	--	330 193 320	6101767	139	357 144 510	106403096	--	200 053 538+200 357 570
63347	28	701 405	6101767	136	351 144 610	106403110	--	200 053 538+200 357 510
63564	40	001 520 01	6101767	139	352 144 510	106403111	--	200 053 538+200 458 812
64195	495	263 612 2	6120486	236	559 20	106403168	403	763 534 30
64354	43	340 006 01	6122411	--	653 050 05	106408234	361	200 073 528
64355	43	340 028 01	6241288	80	912 540	106420191	203	202 600 632
64540	108	567 50	6400000	27	200 035 510	107142542	142	330 110 081 5
65437	283	200 357 440	6400067	--	516 05+613 70	107400052	493	264 049 20
66159	--	318 272 3	6400113	--	516 05+613 50	107400562	504	268 268 710
66161	235	559 101	6401050	291	653 850 014	301000173	30	734 40
66162	235	559 261	6401051	291	653 855 014	301000487	108	565 50
80853	441	106 995 015 2	6401052	291	653 860 014	301000488	107	564 30
80919	26	950 40	6401053	291	653 865 014	301000645	235	559 262
81033	--	952 10	6401067	235	559 102	301000886	91	675 71
1000001	390	596 153 8	6401242	75	200 167 850	301000887	91	676 01
1110790	204	202 300 560	6401243	75	200 167 855	301001100	--	345 144 315+200 045 510

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301001101	--	345 144 320+200 045 510	301002491	179	411 035 020	302002892	524	268 300 003 5
301001108	283	200 357 450	301002492	179	411 035 030	302003384	513	262 120 104
301001146	53	170 275 7	301150009	90	850 60	302003794	496	265 000 452
301001148	53	170 185 7	302000259	--	263 611 1	302003795	496	265 000 451
301001148	53	170 185 7	302000449	524	268 156 7	302004000	524	268 304 800 5
301001149	55	170 188 7	302000527	524	268 156 8	302004000	524	268 304 808 0
301001153	53	170 286 4	302000658	503	268 268 600	302004004	524	268 300 200 5
301001153	53	170 286 4	302002509	497	263 617	302004004	524	268 300 206 0
301001489	--	170 186 6	302002798	496	263 813	309002061	--	200 129 135
301002275	--	330 144 310+200 045 510	302002880	496	265 814	1408244500	497	263 217
301002490	179	411 035 010	302002892	524	268 300 000 5			

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8453802	122	569 20	D051	303	200 555 410	e0800010	183	651 20
8457538	273	519 60	D057	303	200 555 410	e0800019	303	200 555 430
8452137	27	200 031 610	d2510	--	617 40	e0800030	278	611 40
8452359	183	651 30	d2520	278	617 50	e0800031	278	619 00
8452965	269	200 056 500	d2525	278	617 65	e0800139	183	651 15
8454312	--	200 006 500	d2530	278	617 70	e0800217	278	618 70
8454469	62	200 280 510	d2535	278	617 80	e0800218	278	618 80
8454579	27	200 035 510	d2540	278	617 90	e0800219	278	618 90
8455249	26	200 015 500	d2545	278	618 00	e0800220	--	618 95
8455250	61	200 261 513	d2550	278	618 10	e0810029	273	200 000 003
8455568	61	200 261 526	d2555	278	618 20	e1010049	--	340 100 320 + 569 40
8455569	61	200 261 527	d2560	278	618 30	e1190045	231	200 550 620
8455580	--	200 260 730	d2565	278	618 40	e1600007	32	734 55
8455595	212	202 000 044	d2570	278	618 50	e1600007	32	734 54
8455770	77	200 006 490	d2575	278	618 60	e1600020	32	734 76
8455903	--	200 005 500	dk345	183	650 10	e1600020	32	734 76
8455908	26	200 015 510	dk355	183	650 20	e1600023	32	734 75
8456181	--	200 260 735	ds090	303	200 555 455	e1600023	32	734 75
8456641	61	200 261 526	ds110	303	200 555 475	e1600023	32	734 74
8457517	183	650 00	e0110006	--	002 060 03	e1700014	--	905 105
8457522	203	202 600 550	e0111195	--	180 602 51	e1700032	--	200 006 550
8457598	27	200 031 600	e0111202	--	180 602 70	f0000007	26	950 10
8457598	301	522 10	e0111225	--	180 604 96	IP-KIT123	43	340 123 01
8457615	60	200 261 500	e0111234	--	180 607 94	IP-KIT124	43	340 124 01
c010	--	953 50	e0111264	--	180 612 91	IP-KIT125	45	340 125 01
d0020	278	610 05	e0111265	--	180 612 92	IP-KIT130	43	340 130 01
d0025	278	610 07	e0111266	--	180 612 97	IP-KIT137	--	340 137 01
d0030	278	610 10	e0111267	--	180 613 00	IP-KIT23	43	340 023 01
d0035	278	610 20	e0111327	--	180 708 93	IP-KIT88	43	340 088 01
d0040	278	610 30	e0111505	--	180 733 08	IP-KIT90	--	340 090 01
d0045	278	610 40	e0111506	--	180 733 38	mo59	--	200 505 560
d0050	278	610 50	e0111507	--	180 733 42	n003	108	565 29
d0055	278	610 60	e0111511	--	180 733 67	n005	108	565 39
d0060	278	610 70	e0111517	--	180 742 04	n006	108	565 59
d0065	278	610 80	e0111830	43	520 400 09	n099	96	518 39
d0070	278	610 90	e0190039	26	200 015 505	n220	97	570 49
d0075	278	611 00	e0190040	26	200 015 535	n260	393	706 03
d0080	278	611 10	e0190041	25	200 066 500	s001	156	358 100 310 9
d0085	278	611 20	e0800008	183	651 10	s002	156	358 100 320 9
d0090	278	611 30	e0800008	183	651 10	s003	156	358 100 330 9

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s012	--	358 100 302 9	z0000069	--	200 000 250	z0000400	106	561 69
s054	--	340 100 310 + 569 40	z0000116	291	655 500 520	z0000401	107	561 59
s108	--	420 312 008	z0000116	291	655 500 525	z0000505	--	750 20! 500 bar
s108	179	410 012 008	z0000128	--	517 603 9	z0000507	--	740 20! 500 bar
s115	179	410 012 015	z0000136	222	202 705 590	z0000508	--	750 40! 500 bar
s115	179	420 312 015	z0000137	272	200 009 600	z0000509	--	740 40! 500 bar
s352	23	735 60	z0000157	--	655 555 555	z0000510	399	750 40
SP-KIT101	--	181 405 22	Z0000160	303	200 555 555	z0000515	461	109 506
SP-KIT102	--	181 405 21	Z0000161	303	200 555 565	z0000516	461	109 516
SP-KIT112	--	181 404 49	Z0000162	303	200 555 575	z0000517	461	109 526
SP-KIT131	--	181 405 66	z0000164	262	200 154 520	z0000518	461	109 536
SP-KIT132	--	181 405 67	Z0000167	303	200 555 555	z030	261	070 003 502
v001	104	568 10	Z0000168	303	200 555 565	z031	261	070 008 002
v005	107	561 39	Z0000169	303	200 555 575	z032	261	070 008 002
v006	106	561 49	z0000180	283	200 458 645	z033	261	070 012 002
v007	106	560 39	z0000181	283	200 458 655	z054	203	202 600 760
v008	273	519 70	z0000209	222	202 750 535	z055	221	203 600 556
v044	122	569 40	z0000210	202	202 300 760	z073	175	110 10
xs31.1-30-500	--	185 230 500	z0000210	203	202 600 760	z075	27	731 21
z0000003	26	950 40	Z0000256	303	200 555 530	z081	283	200 357 545
z0000010	297	545 504 5	Z0000260	303	200 555 530			

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12131	--	517 603	12442	311	512 495 90	12850	--	410 057 010
12131	--	517 603 9	12480	206	202 300 701	13159	48	155 899 0
12133	254	516 605	12480	206	202 300 860	13201	269	657 20
12133	253	517 054 630	12480	206	202 600 701	13204	269	200 056 500
12133	254	200 054 630	12480	206	202 600 860	13220	--	542 20
12161	--	500 60	12480	210	200 810 750	13237	105	790 35
12204	210	200 810 530	12480	211	201 100 523	13286	122	569 20
12320	202	202 300 500	12481	204	202 300 684	13290	25	535 10
12320	203	202 600 500	12481	205	202 600 684	13291	25	535 15
12320	211	201 100 500	12490	--	200 810 710	13360	106	561 40
12320	212	201 500 500	12490	202	202 300 520	13360	106	561 40
12320	213	507 001 500	12490	203	202 600 520	13365	108	565 30
12326	--	200 810 710	12490	212	201 500 550	13365	108	565 30
12326	202	202 300 520	12490	213	507 001 550	13366	108	565 311
12326	203	202 600 520	12491	202	202 300 760	13367	108	565 10
12326	212	201 500 550	12491	203	202 600 760	13368	108	565 20
12326	213	507 001 550	12491	212	201 500 760	13368	108	565 251
12327	--	501 20	12492	204	202 300 605	13369	108	565 40
12328	204	202 300 684	12492	205	202 600 625	13370	108	565 80
12328	205	202 600 684	12492	213	507 001 562	13371	106	561 60
12391	206	202 300 860	12493	202	202 300 500	13372	107	561 30
12391	206	202 600 860	12493	203	202 600 500	13373	107	561 50
12393	241	513 103	12493	211	201 100 500	13374	110	560 50
12393	241	513 103 9	12493	212	201 500 500	13376	--	543 20
12420	247	511 505 905	12493	213	507 001 500	13377	--	544 301 1
12441	235	559 104	12850	--	400 057 010	13440	--	040 001 207

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13450	235	559 26	44140	71	189 321 0	133921	362	020 073 513
13451	235	559 26	44877	128	340 101 320	133922	362	020 073 520
13470	204	040 001 255	44878	128	340 101 310	133922	362	020 073 520
13470	235	040 003 080	44878	128	343 101 310	135301	361	200 073 512
13471	235	559 103	44879	128	340 101 315	135302	361	200 073 751
13475	235	040 001 256	46150	--	653 030 08	135303	361	200 073 528
14123	48	155 898 0	46150	--	653 030 089	135311	361	200 073 514
14141	63	533 31	47701	128	355 101 315	135313	361	200 073 530
14142	63	533 351	47702	128	355 101 320	141232	48	155 900 0
15013	48	155 897 0	47703	--	355 101 330	141351	69	530 10
15018	80	912 00	47704	--	355 101 340	150041	--	513 111
15027	301	522 10	47705	--	355 101 350	150381	27	730 25
15028	301	524 10	47750	409	200 071 705	150383	27	731 21
15039	78	548 30	48015	143	330 113 381 5	401701	--	331 107 815
15040	301	524 20	48015	--	390 013 381 5	401701	--	332 107 815
26002	--	519 15	49116	--	330 113 381 2	410164	26	734 10
26002	--	200 010 700	49116	--	390 013 381 2	410491	48	155 890 0
40026	--	903 608 00	121311	253	517 054 610	410492	48	155 890 0
40080	--	155 923 0	121311	252	517 501	410500	--	523 704
40170	143	330 107 815	121311	--	517 50 19	410501	--	522 504 9
40170	143	390 007 815	121315	255	516 03	410501	301	522 504
40517	48	155 892 0	121316	--	516 13	410531	--	200 860 710
41024	--	156 373 0	123202	206	202 300 701	410531	--	500 41
41031	48	156 374 0	123202	206	202 300 860	410541	--	330 100 308
41051	179	410 012 008	123202	206	202 600 701	410541	141	390 000 208
41051	180	412 012 008	123202	206	202 600 860	410541	141	460 000 208
41058	179	410 012 015	123202	210	200 810 750	410581	179	410 012 010
41058	180	412 012 015	123202	211	201 100 523	410581	180	412 012 010
41068	303	520 805 5	123271	202	202 300 760	410681	302	520 93
41072	--	653 840 017	123271	203	202 600 760	410713	283	200 357 545
41072	--	653 840 018	123271	212	201 500 760	410714	283	200 357 555
41072	288	653 140 018 9	123272	204	202 300 605	410723	--	653 845 017
41073	--	523 90	123272	205	202 600 625	410723	--	653 845 018
41075	--	515 00	123272	213	507 001 562	410723	288	653 145 018 9
41076	--	513 113	123722	204	202 300 605	410724	--	653 855 017
41080	--	345 101 330	123922	241	513 203	410724	--	653 855 018
41080	143	345 616 830	123922	241	513 203 9	410724	288	653 155 018 9
41081	--	347 101 530	123925	--	513 043	410725	287	653 040 03
41081	128	345 100 310	123925	--	513 043 9	410725	287	653 040 039
41081	128	345 101 310	132506	236	559 93	410726	287	653 055 03
41082	128	340 100 315	132735	--	790 351 0	410727	--	653 870 017
41083	143	345 616 820	132736	105	790 351 00	410727	--	653 870 018
41083	128	345 101 320	132872	273	519 40	410728	--	653 880 017
41084	--	345 101 325	132874	106	561 96	410728	--	653 880 018
41084	--	345 616 825	132912	393	706 031	410728	288	653 880 016
41104	--	200 036 545	133200	--	734 50+734 293 00	410738	287	653 030 03
41104	--	545 505 5	133601	104	568 00	410738	287	653 030 039
41105	308	521 030 300	133602	104	568 10	410739	--	653 835 017
41156	292	658 104 53	133602	104	568 19	410739	--	653 835 018
41156	292	658 104 539	133652	108	565 50	410801	--	346 101 630
41265	--	345 100 001	133824	--	543 30	410801	--	347 101 530
41631	48	156 375 0	133901	361	200 073 512	410811	135	346 101 610
42907	48	156 379 0	133901	361	200 073 512	410811	138	347 101 510
43060	48	155 894 0	133901	361	200 073 512	410811	138	347 101 510
43081	48	156 376 0	133902	361	200 073 514	410821	135	346 101 615
43083	128	345 101 320	133902	361	200 073 514	410821	138	347 101 515
43098	48	155 895 0	133902	361	200 073 514	410821	138	347 101 515
43416	128	330 100 310	133911	361	200 073 528	410831	135	346 101 620
43416	129	390 000 210	133911	361	200 073 528	410831	138	347 101 520
44025	29	701 402	133912	361	200 073 530	410833	--	341 100 630
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412570	26	950 10	584043	499	263 656	12486-D25055	--	507 001 951 + 605 40
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412597	399	740 201	584102	497	265 015	12701-M20042	--	658 104 089
412598	399	740 30	584104	499	265 025	12900-03	240	512 903 049
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412602	401	741 011	584105	498	265 020	410581-F	--	410 012 010 1
412651	--	340 100 002	584106	494	265 023	410581-F	--	412 012 010 1
414161	128	330 100 320	123922-D2504	240	513 204 039	410582-F	179	410 012 020
416491	48	155 891 0	123922-D25045	240	513 204 539	410582-F	180	412 012 020
430831	138	347 101 520	123922-D2505	240	513 205 039	410583-F	179	410 012 025
434161	128	330 100 320	123922-D2506	240	513 206 039	410583-F	180	412 012 025
434161	129	390 000 220	123922-D2507	240	513 207 039	410584-F	179	410 012 030
434162	135	331 100 610	123922-M20035	240	513 203 539	410584-F	180	412 012 030
434162	138	332 100 510	123922-M20045	240	513 204 539	41058-F	--	410 012 015 1
434163	135	331 100 620	123922-M2008	240	513 208 039	41058-F	--	412 012 015 1
434163	138	332 100 520	123922-M2010	240	513 210 039	411568-03	--	658 103 089
438291	135	331 100 615	123922-M2011	240	513 211 039	41570-028	--	653 030 079
438291	138	332 100 515	123922-M20125	240	513 212 539	41570-03	--	653 030 079
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443812	129	345 601 320	12393-M20028	240	513 103 039	41570-042	--	653 040 089
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480151	--	332 113 381 5	12395-D25055	--	657 355 389	41580-10	--	653 810 017
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ETD-200005511	--	200 006 550	HDK-190100	179	410 012 015	HDP-170500	--	999
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ETD-4100	--	200 231 500	HDK-190300	179	410 012 025	HDP-170700	202	202 300 760
ETD-4130	62	200 280 646	HDK-190400	179	410 012 030	HDP-170700	203	202 600 760
ETD-4135	62	200 280 526	HDK-190600	179	410 012 040	HDP-170800	206	202 300 860
ETD-431400	--	534 221 4	HDK-190800	--	410 012 050	HDP-170800	206	202 600 860
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ETD-432700	--	500 000 70	HDK-191200	184	200 049 800	HDP-170900	--	999
ETD-432900	--	500 003 70	HDK-191200	184	200 049 830	HDP-171000	--	999
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ETI-150310	108	565 59	HDL-155500	363	540 300	HDS-183200	128	345 100 310
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