

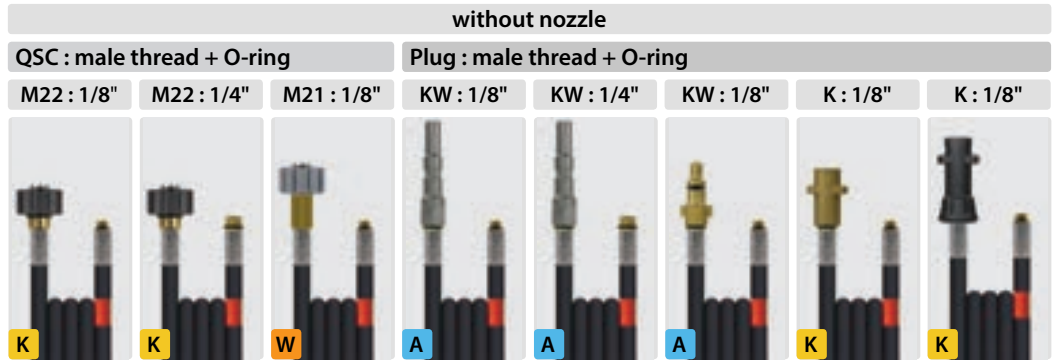


Everything for sewer cleaning applications



Everything for sewer cleaning applications

Sewer cleaning hose assemblies

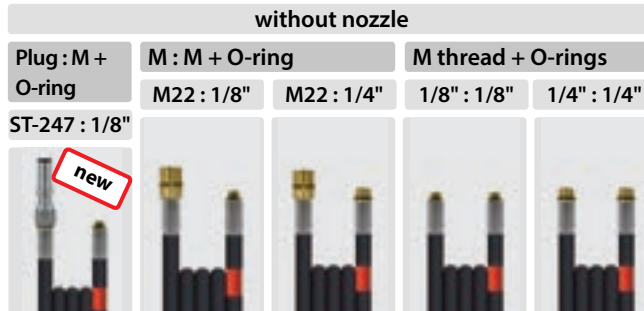


Hoses with single wire braid and smooth cover

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	



As required our sewer cleaning hoses have a safety clearance marking directly on the hose which is placed 0.5 m of the 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.	
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

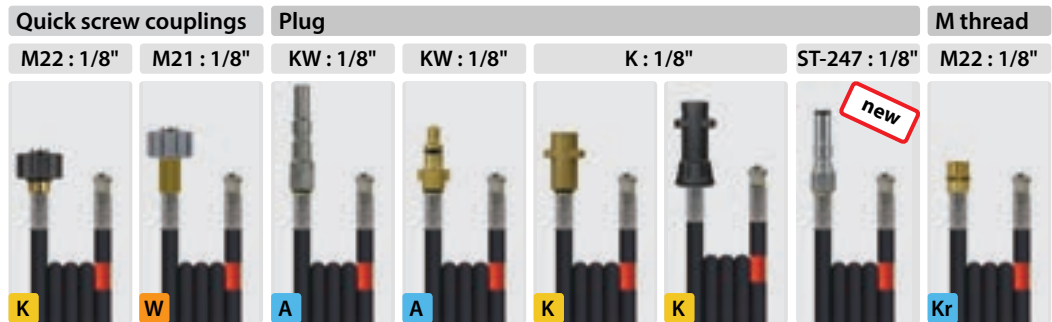
Plastic hoses with single fabric braid

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	

Everything for sewer cleaning applications

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		420 363 010	420 312 015
				20 m	420 302 020	420 317 020	420 337 020	420 332 020	420 347 020		420 363 010	420 312 020
				25 m	420 302 025	420 317 025	420 337 025	420 332 025	420 347 025		420 363 010	420 312 025
				30 m	420 302 030	420 317 030	420 337 030	420 332 030	420 347 030		420 363 010	420 312 030

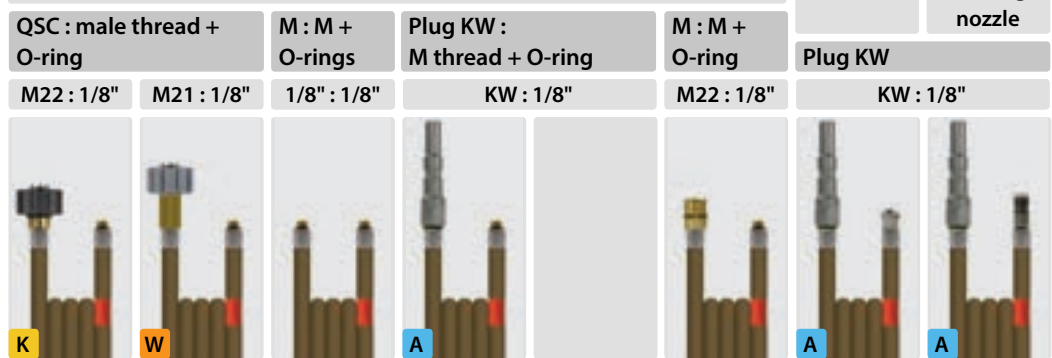
Plastic hoses with single fabric braid

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
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

with nozzle

rotating nozzle



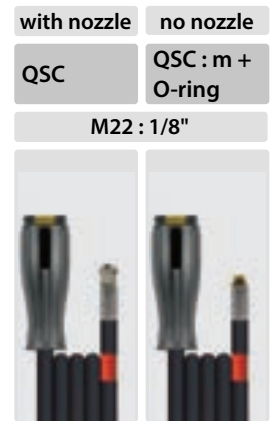
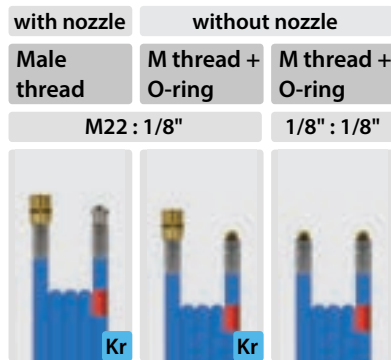
Plastic hoses with single wire braid

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 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

Everything for sewer cleaning applications

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

Everything for sewer cleaning applications

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"



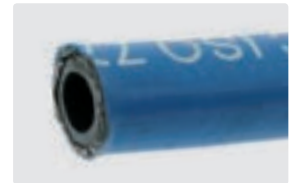
All hoses are supplied together with a test certificate according to EN 10204.3.1.1.

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+ Gummi-Kanalspülschläuche

- » 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 NR/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

Everything for sewer cleaning applications

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
200 071 630	plug @ 8.8	M22 M

ST-550 foot valves



Housing stainless steel.
Valve stainless steel.
Rubber feet.
Max. 500 bar / 80 l/min / 150 °C



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

R+M Nr.	⊖	⊕
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



Incl. HP-gun ST-2750. Material housing powdercoated 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

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

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

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.

Everything for sewer cleaning applications

Safety spectacles, safety goggles and face shields

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

easyprotect365+ protection for high pressure cleaning

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.	size
956 152 501	42
956 152 502	43
956 152 503	44
956 152 504	45
956 152 505	46
956 152 506	47
956 152 507	48

Conversion chart

Chart for boots

EUR	US	UK
42	9	8
43	9.5	9
44	10.5	10
45	11.5	11
46	12	11.5
47	13	12.5
48	13.5	13.5

Protection class 5/5/3

- rotating nozzle 500 bar/7500 psi
- flat jet 500 bar/7500 psi
- point jet 300 bar/4350 psi

CE 89/686/EEC

Note - load capacity for point jet:
300 bar / 4350 psi

Protection class 5/5/2

- rotating nozzle 500 bar/7500 psi
- flat jet 500 bar/7500 psi
- point jet 200 bar/3000 psi

CE 89/686/EEC

Symbols inlet outlet

Everything for sewer cleaning applications

Suttner nozzles for sewer cleaning ST-49

Nozzles without centric hole

With 3 or 4 rear jets (30°) for maximum thrust and simultaneously, a flushing away of the waste material. Stainless steel.



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 (30°).

Front jet for penetrating of completely clogged pipes and frozen pipelines, rear jets for flushing away of the waste material. Stainless steel.



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

Everything for sewer cleaning applications

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. 3 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

R+M Nr.	C	D
121 000 360	1/4" M	035



Due to its conical front design this is the ideal solution to make its way through tight bends and traps. 3 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

R+M Nr.	C	D
121 160 360	1/4" M	040



Due to its conical front design this is the ideal solution to make its way through tight bends and traps. 8 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. 3 rear jets for maximum thrust and best wall coverage.

Outside \varnothing 17 mm.

Stainless steel.

Max. 350 bar / 25 l/min

R+M Nr.	C	D
123 160 860	3/8" M	060



Compact and heavy construction with 3 rear jets.

For standard cleaning and desilting applications.

Outside \varnothing 25 mm. Stainless steel.

Max. 500 bar / 40 l/min

R+M Nr.	C	D
120 000 312	1/2" M	080



Drain cleaning nozzle suitable for use on most van and trailer mounted cleaning machines. 4 rear jets (30°) for higher thrust. Conical head for tight bends and offsets. Outside \varnothing 24.2 mm. Stainless steel.

Max. 500 bar / 45 l/min

R+M Nr.	C	D
120 110 410	1/2" M	090

Sewer cleaning nozzles with female thread



Due to its very compact design this is the ideal solution for tight elbows. 3 rear jets for maximum thrust and powerful cleaning impact.

Front jet to blast through roots and scale or de-icing.

Outside \varnothing 15 mm.

Hardened stainless steel.

Max. 500 bar / 17 l/min

R+M Nr.	C	D
120 155 375	1/8" F	035



Due to its very compact design this is the ideal solution for tight elbows. 3 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.

R+M Nr.	C	D
120 163 391	1/4" F	050



Due to its very compact design this is the ideal solution for tight elbows. 6 rear jets for maximum thrust and best wall coverage.

Outside \varnothing 22 mm.

Hardened stainless steel.

Max. 500 bar / 30 l/min

R+M Nr.	C	D
120 000 675	1/4" F	060



Due to its conical front design this is the ideal solution to make its way through tight bends and traps.

3 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.	C	D
120 163 390	1/4" F	045

Everything for sewer cleaning applications

ST-49 nozzles for sewer cleaning

Sewer cleaning nozzles with female thread



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



8 rear jets 0.6 mm 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

Root rat



Equipped with 3 rear jets (30°) 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

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. 3 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
120 001 380	065



M7 F. 3 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

Symbols nozzle diameter outlet length mm inlet

Everything for sewer cleaning applications

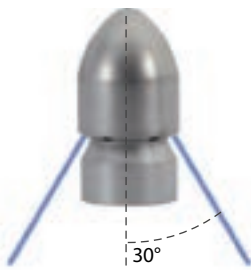
ST-49 Ball type nozzle, 30°

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.
6 rear jets, with front jet

R+M Nr.	D
649 030 216 060	060
649 030 216 080	080
649 030 216 100	100
649 030 216 120	120
649 030 216 150	150
649 030 216 200	200



3/8" F.
Outside \varnothing 30 mm.
4 rear jets, with front jet

R+M Nr.	D
649 030 314 060	060
649 030 314 080	080
649 030 314 100	100
649 030 314 120	120
649 030 314 150	150
649 030 314 200	200



3/8" F.
Outside \varnothing 30 mm.
6 rear jets, with front jet

R+M Nr.	D
649 030 316 060	060
649 030 316 080	080
649 030 316 100	100
649 030 316 120	120
649 030 316 150	150
649 030 316 200	200



1/2" M. MR cone.
Outside \varnothing 30 mm.
6 rear jets, with front jet

R+M Nr.	D
649 040 416 060	060
649 040 416 080	080
649 040 416 100	100
649 040 416 120	120
649 040 416 150	150
649 040 416 200	200



1/2" F.
Outside \varnothing 30 mm.
6 rear jets, with front jet

R+M Nr.	D
649 030 416 060	060
649 030 416 080	080
649 030 416 100	100
649 030 416 120	120
649 030 416 150	150
649 030 416 200	200
649 030 416 315	315



3/4" F.
Outside \varnothing 38 mm.
6 rear jets, with front jet

R+M Nr.	D
649 030 516 100	100
649 030 516 120	120
649 030 516 150	150
649 030 516 170	170
649 030 516 200	200
649 030 516 250	250

Jet angle INFO

30° = more efficient wall cleaning

20° = better traction

Symbols \square nozzle \ominus outlet \oplus inlet \varnothing diameter --- length mm

Everything for sewer cleaning applications

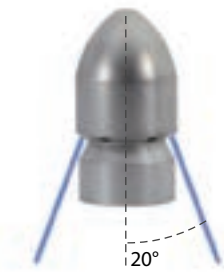
ST-49 Ball type nozzle, 20°

Made out of wear-resistant, hardened 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.
6 rear jets

R+M Nr.	D
649 090 206 060	060
649 090 206 080	080
649 090 206 100	105
649 090 206 120	120
649 090 206 150	160
649 090 206 200	200



1/4" F.
Outside \varnothing 25 mm.
6 rear jets, with front jet

R+M Nr.	D
649 090 216 060	060
649 090 216 080	080
649 090 216 100	100
649 090 216 120	120
649 090 216 150	150
649 090 216 200	200



3/8" F.
Outside \varnothing 30 mm.
6 rear jets

R+M Nr.	D
649 090 306 060	060
649 090 306 080	080
649 090 306 100	105
649 090 306 120	120
649 090 306 150	160
649 090 306 200	200



3/8" F.
Outside \varnothing 30 mm.
6 rear jets, with front jet

R+M Nr.	D
649 090 316 060	060
649 090 316 080	080
649 090 316 100	100
649 090 316 120	120
649 090 316 150	150
649 090 316 200	200

Coupling-system ST-245

Nipple ST-245



\varnothing 1/4" M.
Stainless steel.
Max. 350 bar

R+M Nr.	D
040 005 447	27.5



\varnothing 1/4" M.
Stainless steel.
Max. 350 bar

R+M Nr.	D
040 005 446	33.5



\varnothing 1/4" M. Stainless steel. Max. 350 bar.
For wear cone

R+M Nr.	D
040 005 445	3 42.0

ST-245 Coupling / wear cone ST-245



R+M Nr.	D
200 245 500	1 1/4" F



R+M Nr.	D
200 245 510	1 3/8" M

For 040 005 445



R+M Nr.	D
040 005 431	2



4
Suitable for all
1/4" F nozzles for
sewer cleaning.

Everything for sewer cleaning applications

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. For tubes > 30 mm.
Lateral front jets 0.5 mm drilled



350 bar. 3/8" F. For tubes > 50 mm.
Lateral front jets with hardened stainless steel nozzle inserts



R+M Nr.	⌀	Front	Rear
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.	⌀	Front	Rear
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. For tubes > 60 mm
Lateral front jets with hardened stainless steel nozzle inserts



300 bar. 3/4" F. For tubes > 60 mm
Lateral front jets with hardened stainless steel nozzle inserts

R+M Nr.	⌀	Front	Rear
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.	⌀	Front	Rear
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

Symbols ⌀ nozzle ⊖ outlet ⊕ inlet

Everything for sewer cleaning applications

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 269, catalog.

Rotating nozzle adaptor

Designed for connecting the ST-357 rotating nozzle to a sewer cleaning hose. Hardened stainless steel body with extra sharp edges.

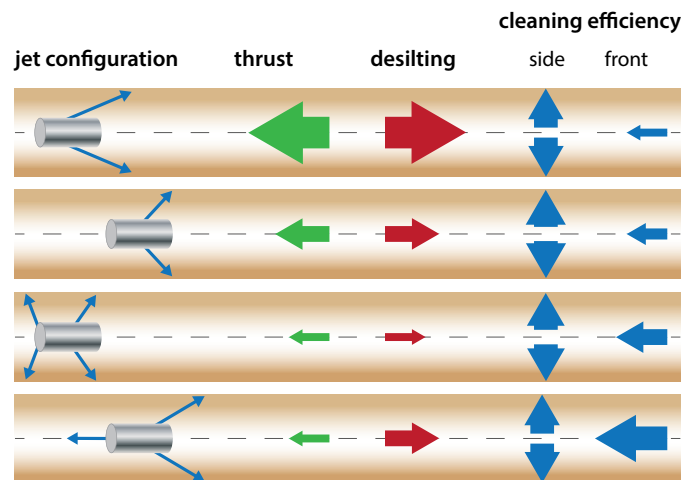
Max. 400 bar

For ST-357 rotating nozzle



R+M Nr.	©	Ⓢ
200 049 400	1/4" F	1/4" M

Possible jet configurations



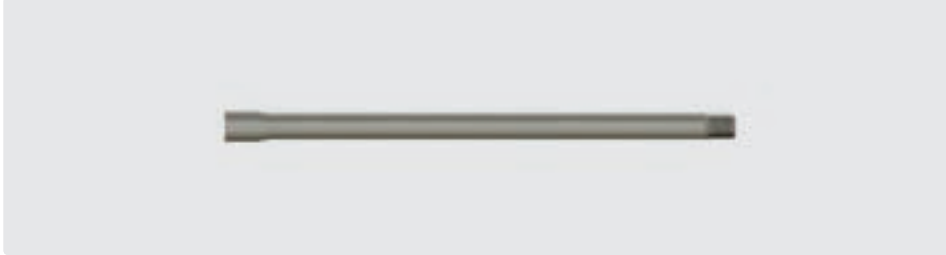
Everything for sewer cleaning applications

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.	↔	Ⓜ
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

Tip cleaner



High speed steel (HSS) with aluminium shaft.

↔ 42 mm

R+M Nr.	∅
200 049 042	0.5

Sting extension



Hardened stainless steel.

For M5 nozzle bodies

R+M Nr.	Ⓜ
040 075 090	M5 M

Functional principle



Everything for sewer cleaning applications

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 return beams specially placed. Pressure max. 350 bar.



1/4" F. 4 rear jets. 3 side jets.
Outside \varnothing 30 mm.
☒ 317 g.

R+M Nr.	D	↔
649 050 234 060	060	69 mm
649 050 234 080	080	69 mm
649 050 234 105	105	69 mm
649 050 234 130	130	69 mm
649 050 234 150	150	69 mm
649 050 234 200	200	69 mm



3/8" F. 4 rear jets. 3 side jets.
Outside \varnothing 30 mm.
☒ 307 g.

R+M Nr.	D	↔
649 050 334 080	080	69 mm
649 050 334 105	105	69 mm
649 050 334 130	130	69 mm
649 050 334 150	150	69 mm
649 050 334 200	200	69 mm
649 050 334 250	250	69 mm



1/2" F. 5 rear jets. 3 side jets.
Outside \varnothing 38 mm. ☒
585 g.

R+M Nr.	D	↔
649 050 435 100	100	84 mm
649 050 435 120	120	84 mm
649 050 435 150	150	84 mm
649 050 435 200	200	84 mm
649 050 435 250	250	84 mm
649 050 435 300	300	84 mm



3/4" F. 6 rear jets. 3 side jets.
Outside \varnothing 38 mm.
☒ 554 g.

R+M Nr.	D	↔
649 050 536 130	130	84 mm
649 050 536 150	150	84 mm
649 050 536 200	200	84 mm
649 050 536 250	250	84 mm
649 050 536 300	300	84 mm
649 050 536 375	375	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 return beams specially placed. Pressure max. 350 bar.



1/4" F. 4 rear jets. 3 side jets.
Outside \varnothing 30 mm.
☒ 314 g.

R+M Nr.	D	↔
649 070 234 060	060	69 mm
649 070 234 080	080	69 mm
649 070 234 105	105	69 mm
649 070 234 130	130	69 mm
649 070 234 150	150	69 mm
649 070 234 200	200	69 mm



3/8" F. 4 rear jets. 3 side jets.
Outside \varnothing 30 mm.
☒ 305 g.

R+M Nr.	D	↔
649 070 334 080	080	69 mm
649 070 334 105	105	69 mm
649 070 334 130	130	69 mm
649 070 334 150	150	69 mm
649 070 334 200	200	69 mm
649 070 334 250	250	69 mm



1/2" F. 5 rear jets. 3 side jets.
Outside \varnothing 38 mm.
☒ 580 g.

R+M Nr.	D	↔
649 070 435 100	100	84 mm
649 070 435 130	130	84 mm
649 070 435 150	150	84 mm
649 070 435 200	200	84 mm
649 070 435 250	250	84 mm
649 070 435 300	300	84 mm



3/4" F. 6 rear jets. 3 side jets.
Outside \varnothing 38 mm.
☒ 550 g.

R+M Nr.	D	↔
649 070 536 130	130	84 mm
649 070 536 150	150	84 mm
649 070 536 200	200	84 mm
649 070 536 250	250	84 mm
649 070 536 300	300	84 mm
649 070 536 375	375	84 mm

Functional principle



Symbols ☒ weight \varnothing diameter ↔ length D nozzle M material

Everything for sewer cleaning applications

Driver for rotating nozzles

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



For ST-357/ST-456 rotating nozzles. Hardened stainless steel. Max. 350 bar. ⌀ 1/4" M and 6 M5 threads for nozzle inserts (see table below).

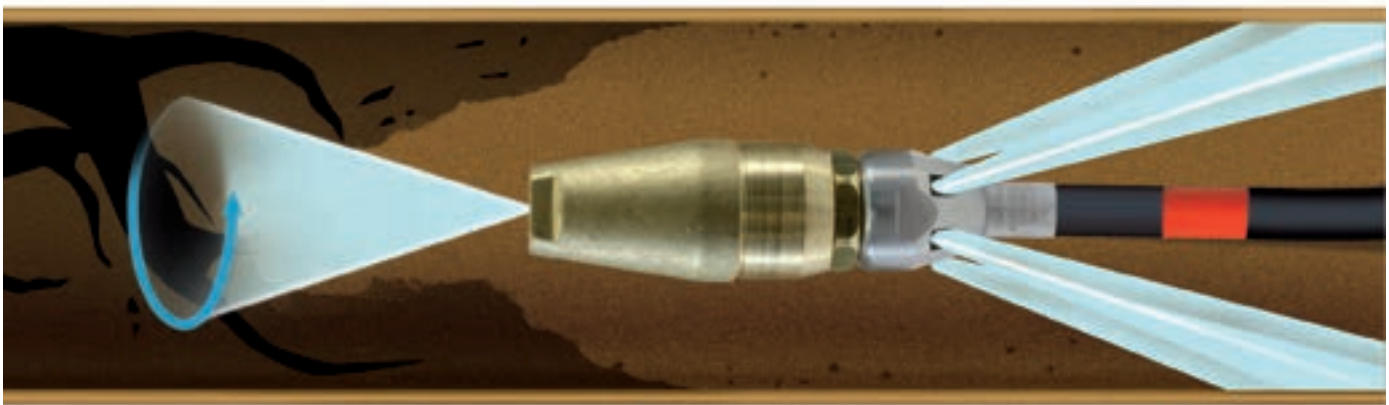
R+M Nr.	⊕
040 075 200	1/4" F
040 075 205	3/8" F



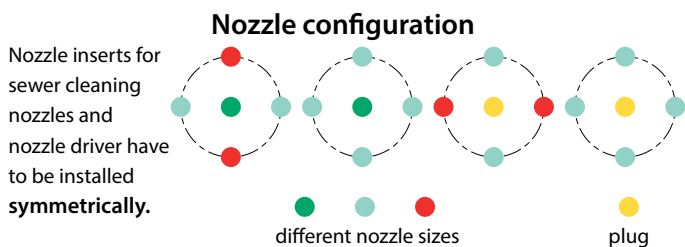
For ST-458/ST-559 rotating nozzles. Hardened stainless steel. Max. 500 bar. ⌀ 1/4" M and 6 M5 threads for nozzle inserts (see table below).

R+M Nr.	⊕
040 075 210	3/8" F
040 075 215	1/2" F

Functional principle



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	0.5 mm	0066
040 075 006	M5	0.6 mm	0085
040 075 007	M5	0.7 mm	0117
040 075 008	M5	0.8 mm	0133
040 075 009	M5	0.9 mm	0161
040 075 010	M5	1.0 mm	0237
040 075 012	M5	1.2 mm	0293
040 075 015	M5	1.5 mm	0458
040 075 020	M5	2.0 mm	0885

Symbols TYP type R lance Ⓢ weight ⌀ diameter ⊕ inlet ⇄ length

Everything for sewer cleaning applications

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 (R) Ø 75-150 mm. Outside Ø 30 mm. Ⓢ 223 g.

R+M Nr.	D	↔
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



3/8" F. 6x 75° 3x 30° +1x 0°. 30-100 l/min. For (R) Ø 100-200 mm. Outside Ø 35 mm. Ⓢ 314 g.

R+M Nr.	D	↔
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



1/2" F. 6x 75° 3x 30° +1x 0°. 80-140 l/min. For (R) Ø 120-250 mm. Outside Ø 40 mm. Ⓢ 630 g.

R+M Nr.	D	↔
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



3/4" F. 6x 75° 3x 30° +1x 0°. 100-250 l/min. For (R) Ø 150-300 mm. Outside Ø 50 mm. Ⓢ 1,367 g.

R+M Nr.	D	↔
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
649 110 519 300	300	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 (R) Ø 50-100 mm. Outside Ø 30 mm. Ⓢ 127 g.

R+M Nr.	D	↔
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



3/8" F. 6x 75° +1x 0°. 25-70 l/min. For (R) Ø 75-150 mm. Outside Ø 35 mm. Ⓢ 207 g.

R+M Nr.	D	↔
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



1/2" F. 6x 75° +1x 0°. 30-100 l/min. For (R) Ø 100-200 mm. Outside Ø 40 mm. Ⓢ 281 g.

R+M Nr.	D	↔
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



3/4" F. 6x 75° +1x 0°. 30-100 l/min. For (R) Ø 120-250 mm. Outside Ø 50 mm. Ⓢ 567 g.

R+M Nr.	D	↔
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
649 120 516 310	310	70



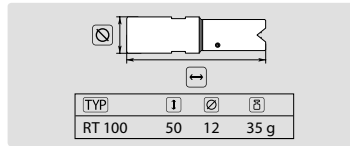
1" F. 8x 75° +1x 0°. 100-250 l/min. For (R) Ø 150-300 mm. Outside Ø 62 mm. Ⓢ 1,265 g.

R+M Nr.	D	↔
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

Everything for sewer cleaning applications

Sewer cleaning nozzles

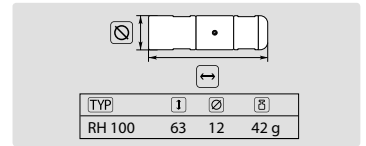
Rotating nozzles RT . 1,000 bar



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

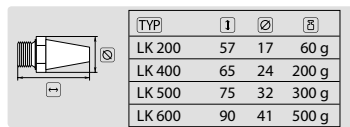
Rotating nozzles RH . 1,000 bar



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

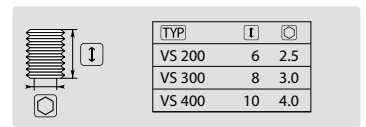
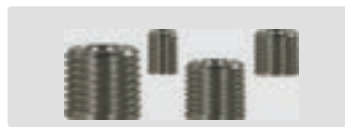
Cone shape nozzles LK . 500 bar *



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 Ø	⊙
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 Ø	⊙
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!**

Longcast lances



1/4" M. Stainless steel. Longcast lance 300 mm with vented handle 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



1/2" F. Stainless steel. Longcast lance 300 mm with vented handle 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

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 water quantity).

Nozzles for longcast lances

M15x1 M. Stainless steel



R+M Nr.	D
200 078 412	1.2 mm
200 078 415	1.5 mm
200 078 420	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

Everything for sewer cleaning applications

Longcast lances

functioning of longcast lance



long casting full jet



progressive, conical spray jet

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

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

R+M Nr.	Ⓞ	Ⓞ
203 500 500	1/2" F	1/2" F



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.	Ⓞ	Ⓞ
203 500 550	1/2" F	1/2" F swivel

Suttner rotating nozzles ST-458.1 with ceramic insert

ST-458.1



1/4" F. Spray angle 20°.
120 - 250 bar. Max. 100 °C

Kit ST-458.1

R+M Nr.	D	R+M Nr.
200 458 811	11	200 458 311
200 458 812	12	200 458 312
200 458 815	15	200 458 315
200 458 820	20	200 458 320
200 458 825	25	200 458 325
200 458 830	30	200 458 330

Symbols Ⓞ outlet Ⓞ inlet D nozzle ⇄ length I height ⇄ flow TYP type Ⓞ thread Ⓞ diameter

Everything for sewer cleaning applications

kommunal365+ high pressure spray guns 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

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.				
203 600 416	1/2" M	1500 mm	1/2" M	stainless steel
203 600 415	1/2" M	2000 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.				
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	1000 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.				
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	1000 mm	1/2" M	stainless steel

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

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

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

R+M Nr.	
203 100 655	45 mm

R+M Nr.	
040 005 665	35 mm
040 005 667	41 mm
040 005 661	47 mm

R+M Nr.	
040 005 668	47 mm
040 005 662	47 mm

Everything for sewer cleaning applications

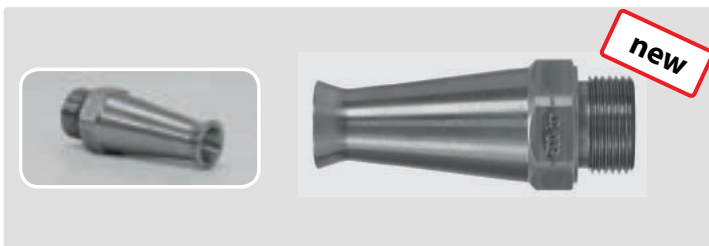
ST-85 Push & Pull lances



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.	☺	↔	☺
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	1000 mm	plug ST-3100
200 085 651	1/4" F NPT	1500 mm	plug ST-3100

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

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	1000 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



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	☺	↔	☺
200 000 523	400 mm	1/4" M	1000 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



Symbols ☺ outlet ☺ inlet ↔ length ISO insulation ⊙ thread I height DN nominal diameter

Everything for sewer cleaning applications

Suttner tank cleaner

ST-82 h16/40 self rotating tank cleaner



- » Inlet: 1/2" F
- » Pressure: 40 - 160 bar
- » Flow: 20 - 30 l / min
- » Temperature: 0 - 90 °C
- » Turns: 29 - 36 r.p.m
- » Beam 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	☰	P
200 082 600	basic version without nozzle		
200 082 601	3 x 060	40 l/min	100 bar
200 082 602	3 x 030	21 l/min	110 bar
200 082 603	3 x 040	30 l/min	140 bar

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
- » Beam coverage 360°
- » Weight: 6.2 kg
- » Nozzles are included in the scope of delivery

R+M Nr.
276 284 380

* with protection cage

Please specify pressure & flow rate with your order.
The tank cleaner are individually assembled to your needs.

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
- » Beam coverage 360°
- » Weight: 5.9 kg
- » 2 nozzles and 2 caps needed, max. 4 nozzles 1/4 " M NPT



R+M Nr.	D	☰	P
200 082 700	basic version without nozzle		
200 082 717	2 x 110	42 l/min	70 bar
200 082 713	2 x 120	50 l/min	80 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
200 082 705	4 x 055 *	50 l/min	100 bar
200 082 702	2 x 060	27 l/min	100 bar
200 082 703	2 x 045	22 l/min	120 bar
200 082 710	4 x 045	42 l/min	120 bar
200 082 716	4 x 070	67 l/min	120 bar
200 082 712	2 x 050	25 l/min	130 bar
200 082 704	2 x 040	21 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
200 082 707	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
- » Beam coverage 360°
- » Weight: 3.2 kg
- » Nozzles are included in the scope of delivery

R+M Nr.
200 082 500

Everything for sewer cleaning applications

Mosmatic manhole cleaner

Manhole cleaner TXS-2f

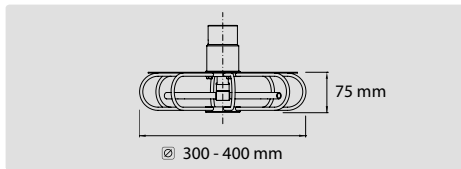


Mosmatic manhole cleaner TXS-2f with protective plate
 Cleans ducts and manholes and realizes cleaning results like never before. The cleaner is self-rotating and very easy in its handling. By means of a protective plate the manhole cleaner and the user profit from extra protection.
 Completely made of stainless steel.
 Nozzles are excluded. 2 nozzles 1/8" M are required.
 Further versions are available on request.



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 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

Symbols ∅ diameter Ⓜ weight D nozzle ← flow P pressure

Everything for sewer cleaning applications

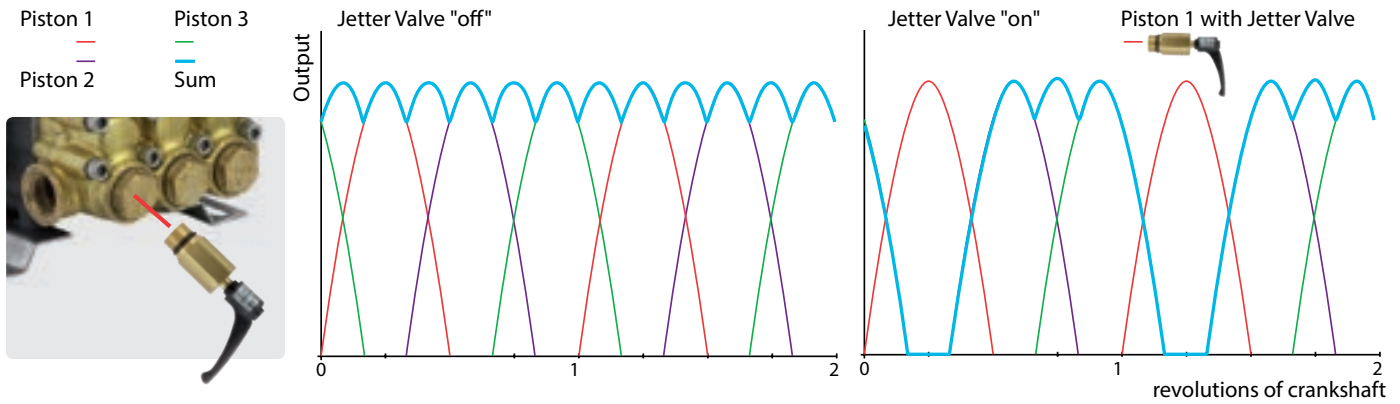
Jetter Valves



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

Functional principle of a Jetter Valve



ST-33 high Pressure Filter



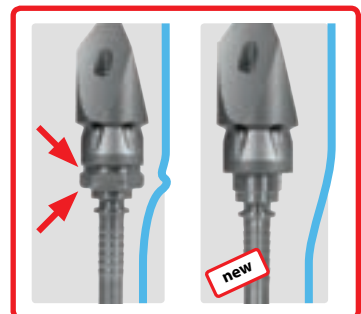
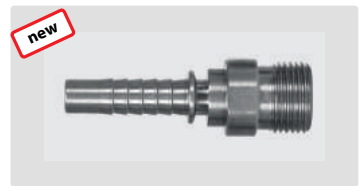
Brass with stainless steel filter. Bidirectional.
Max. 400 bar / 40 l/min. / 150 °C

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"



Everything for sewer cleaning applications

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



M22 M

M21 M

1/2" M

M18 M

Plug KW

[D]	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

R+M Nr.	[D]	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 [D] nozzle [⊗] diameter [⊞] weight [↔] length [DN] nominal diameter [I] height [TYP] type

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FLOWJET

Cleaning Equipment