

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

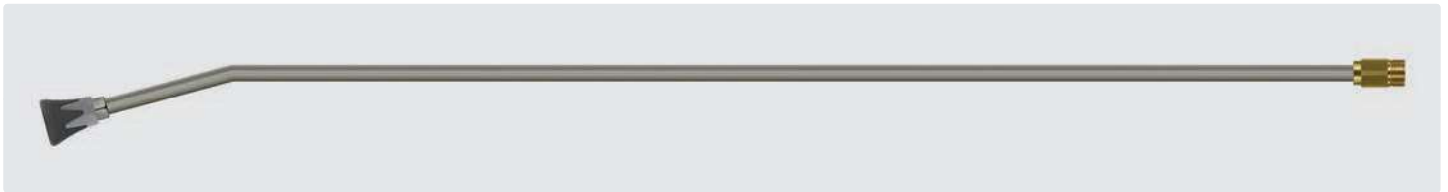
R+M Nr.	⊙	↔	(M)
070 000 076	1/4" M	400 mm	zinc-plated steel
070 000 026	1/4" M	431 mm	zinc-plated steel
070 000 030	1/4" M	500 mm	zinc-plated steel
070 000 040	1/4" M	600 mm	zinc-plated steel
070 000 050	1/4" M	800 mm	zinc-plated steel
070 000 060	1/4" M	1,000 mm	zinc-plated steel
070 000 070	1/4" M	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

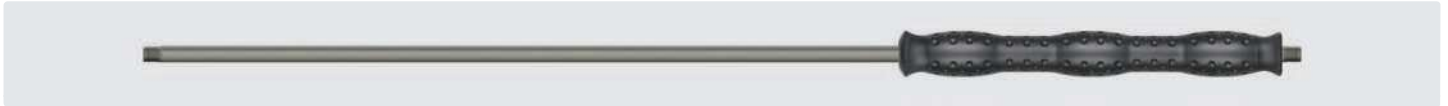


Lance with insulation ST-26 Cool & Soft. Comfortable grip and ergonomic shape. Heat-proof insulation. Heat-proof insulation. Max. 400 bar / 150 °C

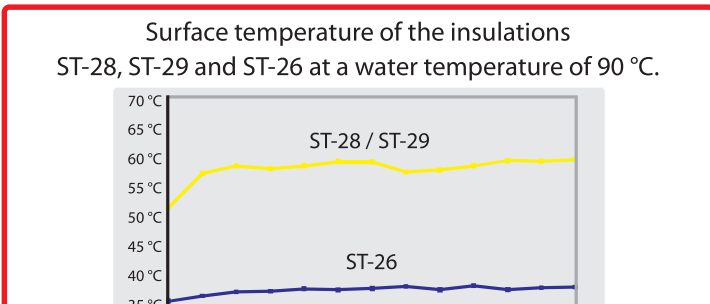
R+M Nr.	⊙	ISO	⇄	M
200 026 410	1/4" M	400 mm	1,000 mm	stainless steel

R+M Nr.

ST-28 Cool & Compact

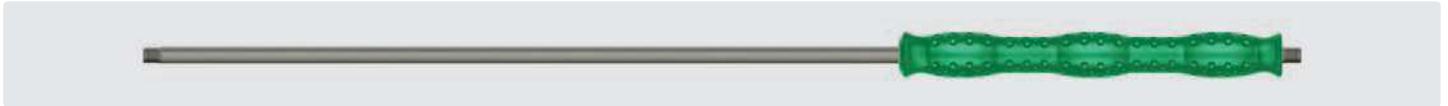


Lance with insulation ST-28 Cool & Compact. Comfortable grip and ergonomic shape. Heat-proof insulation. Max. 400 bar / 150 °C



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



A

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



A

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



A

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



A

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	R+M Nr.
511 505 910	1/4" F	330 mm	1,000 mm	stainless steel	



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	R+M Nr.
511 505 901	1/8" F NPT	330 mm	1,000 mm	stainless steel	

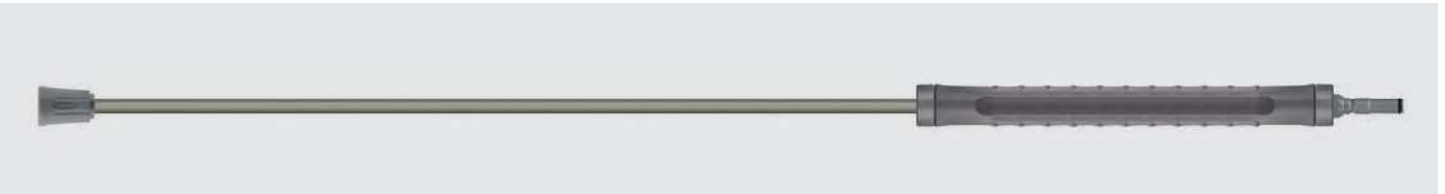


Kr A

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	R+M Nr.
511 505 905	1/4" F NPT	330 mm	1,000 mm	stainless steel	

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	R+M Nr.
514 524 700	hydroblade ®	330 mm	1.000 mm	stainless steel	



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	R+M Nr.
514 524 701	hydroblade ®	330 mm	1.000 mm	stainless steel	

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

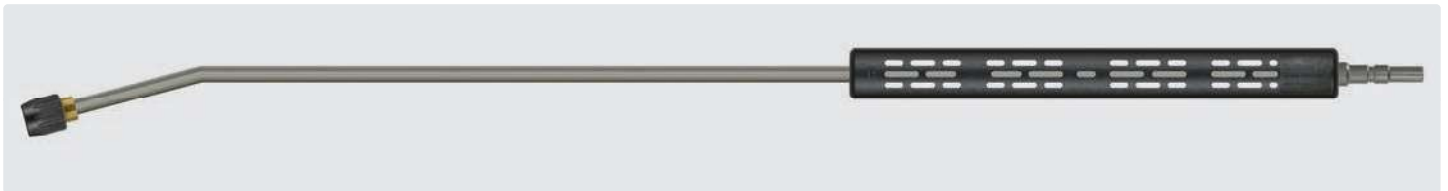


M22 M. Lance with vented handle ST-9 and nozzle protector ST-10 without high pressure nozzle. Max. 400 bar / 150 °C

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



K



K

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 (C) inlet (D) outlet ↔ length (M) material (ISO) 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
517 608 5	nozzle protector 300 mm	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	850 mm	M22 F swivel	stainless steel	200 085 745	nozzle protector 850 mm	850 mm	M22 F swivel	zinc-plated steel
200 085 935	nozzle protector 1,000 mm	1,000 mm	M22 F swivel	stainless steel	200 085 925	nozzle protector 1,000 mm	1,000 mm	M22 F swivel	zinc-plated steel
200 085 685	nozzle protector 1,500 mm	1,500 mm	M22 F swivel	stainless steel	200 085 785	nozzle protector 1,500 mm	1,500 mm	M22 F swivel	zinc-plated steel
200 085 687	nozzle protector 2,000 mm	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	850 mm	M22 F swivel	stainless steel	200 085 746	nozzle protector 850 mm	850 mm	M22 F swivel	zinc-plated steel
200 085 936	nozzle protector 1,000 mm	1,000 mm	M22 F swivel	stainless steel	200 085 926	nozzle protector 1,000 mm	1,000 mm	M22 F swivel	zinc-plated steel
200 085 686	nozzle protector 1,500 mm	1,500 mm	M22 F swivel	stainless steel	200 085 786	nozzle protector 1,500 mm	1,500 mm	M22 F swivel	zinc-plated steel
200 085 688	nozzle protector 2,000 mm	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	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
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
200 053 610	1/4" F NPT	-	650 mm	stainless steel

R+M Nr.	☺	ISO	↔	M
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
200 053 635	1/4" M	-	650 mm	stainless steel

R+M Nr.	☺	ISO	↔	M
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.

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



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

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.	⊖	⊞	⊕	Ⓜ	R+M Nr.	⊖	⊞	⊕	Ⓜ
200 085 270	1/4" F NPT	600 mm	M22 M	stainless steel	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.	⊖	⊞	⊕	Ⓜ	R+M Nr.	⊖	⊞	⊕	Ⓜ
200 085 810	1/4" F NPT	850 mm	1/4" F	stainless steel	200 085 710	1/4" F NPT	850 mm	1/4" F	zinc-plated steel
200 085 800	1/4" F NPT	1,000 mm	1/4" F	stainless steel	200 085 700	1/4" F NPT	1,000 mm	1/4" F	zinc-plated steel
200 085 850	1/4" F NPT	1,500 mm	1/4" F	stainless 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.	⊖	⊞	⊕	Ⓜ	R+M Nr.	⊖	⊞	⊕	Ⓜ
200 085 260	1/4" F NPT	600 mm	plug KW	stainless steel	200 085 210	1/4" F NPT	600 mm	plug KW	zinc-plated steel
200 085 610	1/4" F NPT	850 mm	plug KW	stainless steel	200 085 510	1/4" F NPT	850 mm	plug KW	zinc-plated steel
200 085 600	1/4" F NPT	1,000 mm	plug KW	stainless steel	200 085 500	1/4" F NPT	1,000 mm	plug KW	zinc-plated steel
200 085 650	1/4" F NPT	1,500 mm	plug KW	stainless steel	200 085 550	1/4" F NPT	1,500 mm	plug KW	zinc-plated steel

ST-85 Push & Pull lances



M22 F swivel. ST-85 Push & Pull lance with nozzle protector ST-10 without high pressure nozzle. Max. 210 bar / 150 °C

R+M Nr.	⊖	↔	⊕	(M)
200 085 713	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 & 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 & 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	



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)
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	



suitable for servopress 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)
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

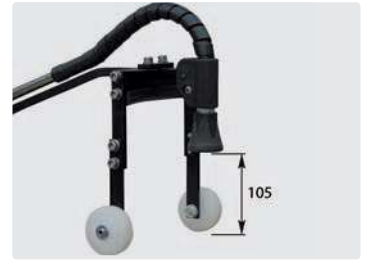


- » The kit is suitable for undercar wash of vehicles as well as for roof cleaning.
- » The kit is supplied as version for undercar wash.
- » The add-on kit for roof cleaning can be easily assembled.

R+M Nr.
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

R+M Nr.				
200 146 550 nozzle protector	700 mm	M22 F swivel	stainless steel	

R+M Nr.

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.				
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.				
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.				
200 154 500	1/4" F NPT	300 mm	980 mm	stainless steel

R+M Nr.

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

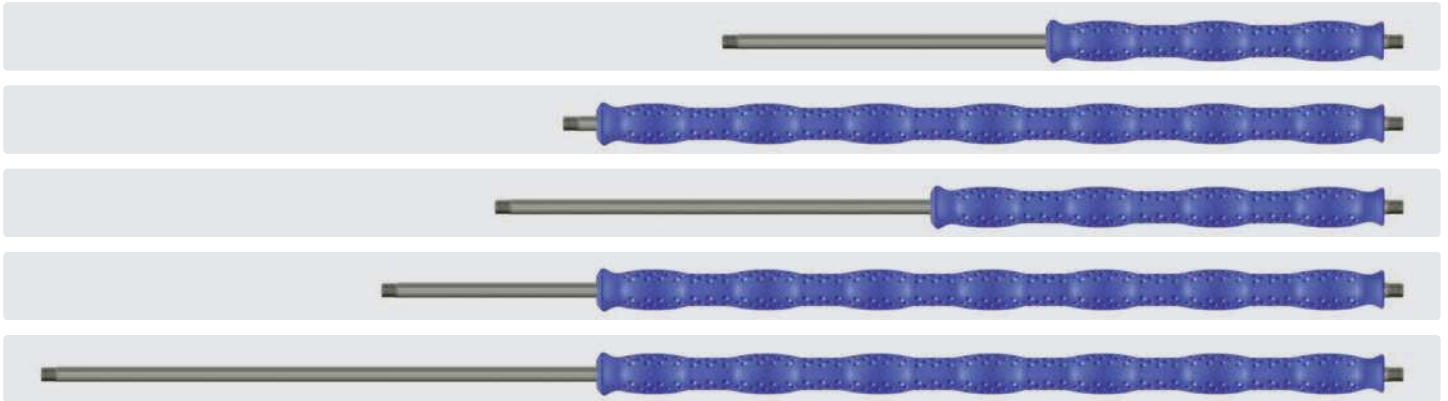
R+M Nr.	☺	☹	☺	M	R+M Nr.
203 600 444	1/4" F NPT	500 mm	plug ST-45	stainless steel	



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

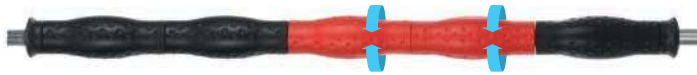


R+M Nr.	red	ISO	⊖	↔	⊕
510 033 102 000	■ ■ ■	300 mm	1/4" M	330 mm	1/4" M
510 053 102 000	■ ■ ■	330 mm	1/4" M	500 mm	1/4" M
510 063 102 000	■ ■ ■	330 mm	1/4" M	600 mm	1/4" M
510 074 102 100	■ ■ ■ ■	430 mm	1/4" M	700 mm	1/4" M
510 104 102 100	■ ■ ■ ■	430 mm	1/4" M	1,000 mm	1/4" M

Symbols ⊕ inlet ⊖ outlet ↔ length ISO insulation

easyturn ST-9.4 – rotatable lances by Suttner

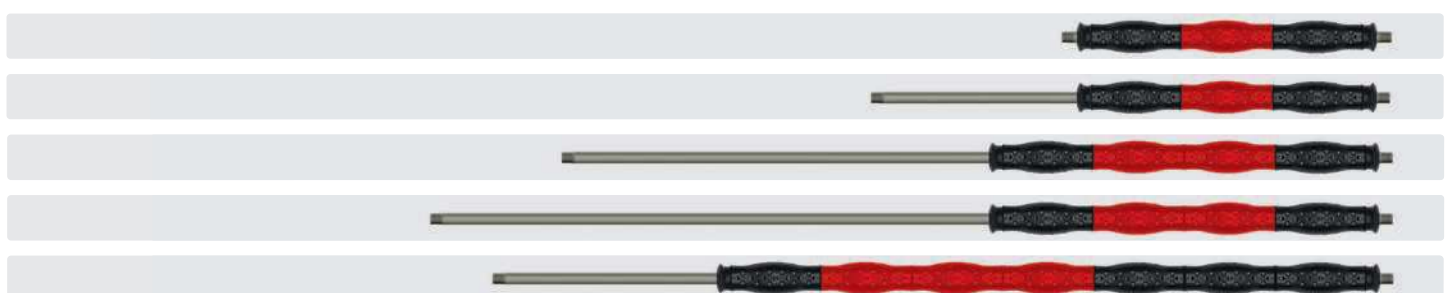
- » Rotatable insulation for an ergonomic handling. The coloured handles can be freely rotated around their own axis. Black handles are firmly fixed
- » Specially designed for carwash applications
- » Stainless steel version
- » Design: Cool & Compact insulation grip elements.
Length 100 mm
- » Max. 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



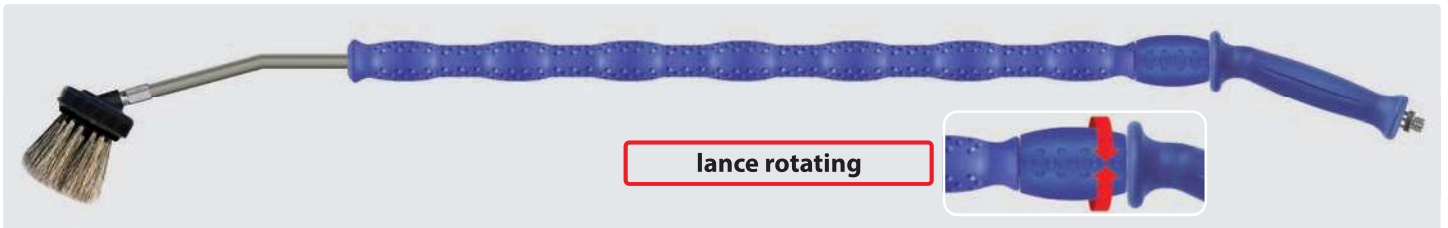
Stainless steel. Lance with **easywash365+** handle and nozzle protector ST-10 without nozzle. Max. 350 bar / 45 l/min / 150 °C

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



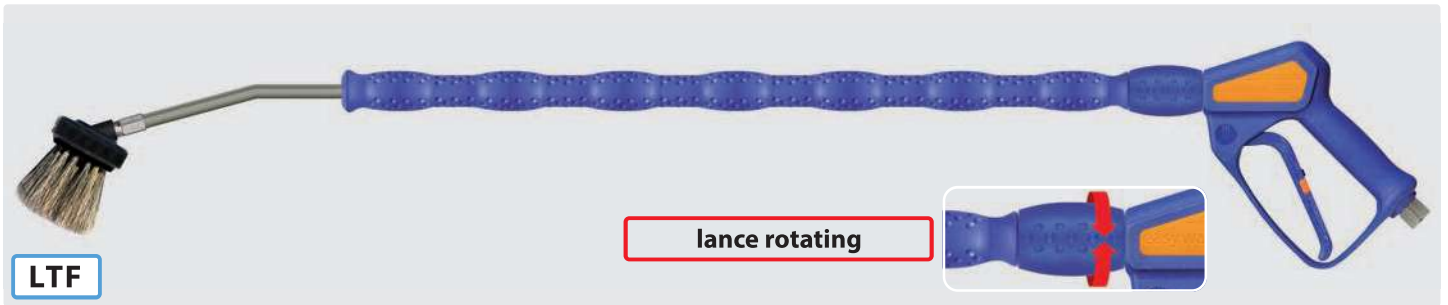
Original Vorwerk. Brush hog hair. A= 260. B= 230 x 80 mm.

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

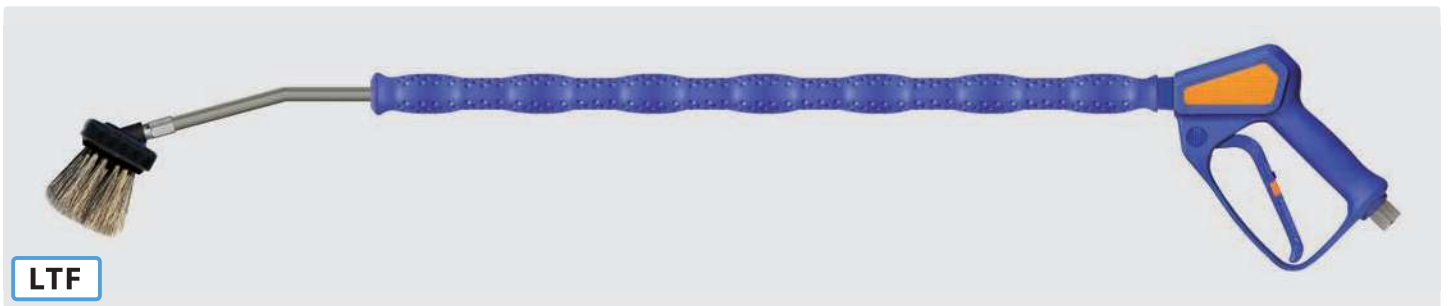
easywash365+ lances by Suttner



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

functioning of longcast lance



progressive, conical spray jet



long casting full jet



Twin and adjustable nozzle holder

ST-56 twin nozzle holder



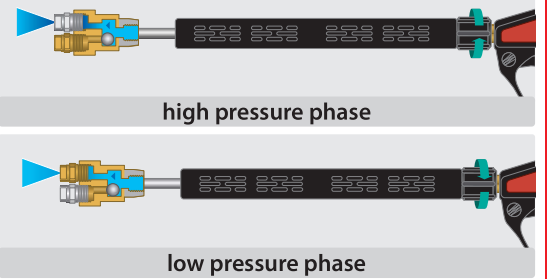
R+M Nr.					
200 056 500	2 x 1/4" F	1/4" F			brass

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



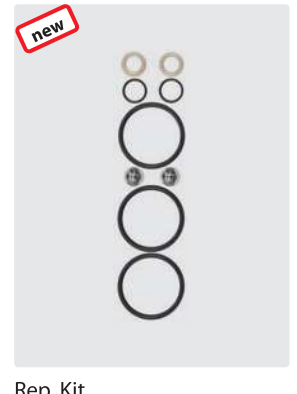
Coupling KW : 1/4" M. Brass. For Variopress

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



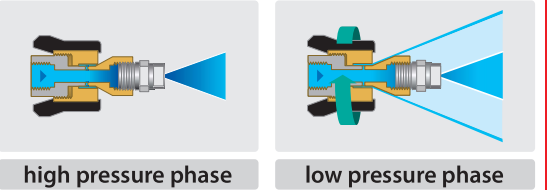
R+M Nr.					
657 30	1/4" F	1/4" F			

ST-51 adjustable nozzles



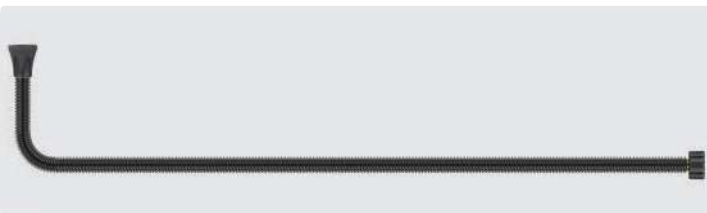
R+M Nr.					
200 051 530	1/4" F	1/4" F			

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

Pivotal nozzle holder

Pivotal 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

turbodevil



- » 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	K rubberlip	1,9 kg
521 032 255	M18 F	K 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

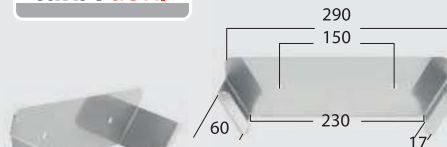


PVC splash guard, with thumb screw adjustable stainless steel holder for attachment to lances.
Max. 80 °C

R+M Nr.	⊖
200 029 351	200 mm

Accessories for wall cleaner

turbodevil



Wall bracket for wall cleaner **turbodevil**.

R+M Nr.	M	⊖
710 400 098	stainless steel 2 mm	502 gr

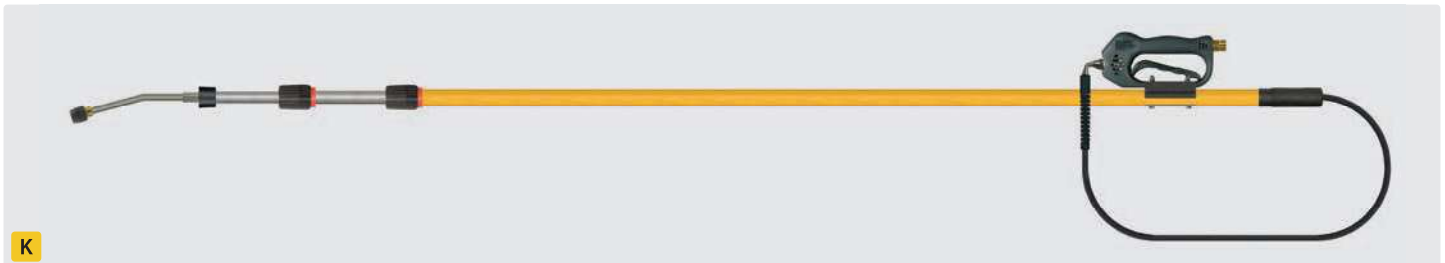
High pressure telescopic lances

- » 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.

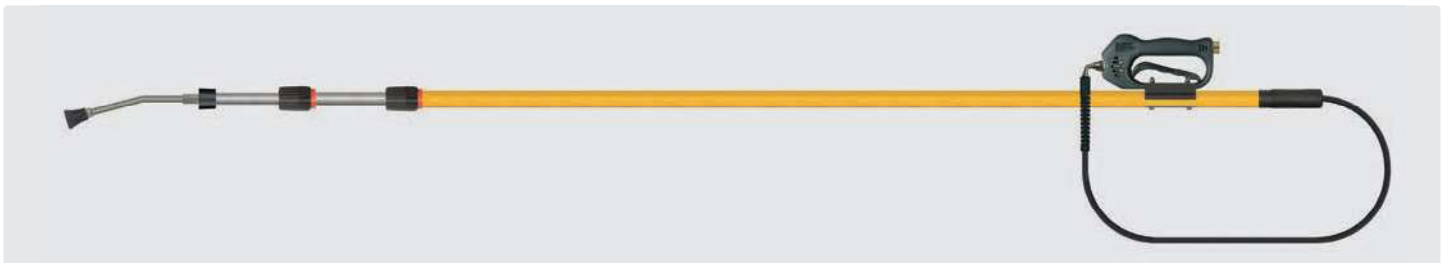


R+M Nr.	⊞	⊚	↔	⊕
525 070 8	2.4 kg	1/4" M	2.3 - 3.8 m	3/8" F
525 085 8	4.3 kg	1/4" M	2.3 - 5.6 m	3/8" F
525 100 8	5.4 kg	1/4" M	2.9 - 7.4 m	3/8" F



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
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Belt support kit for telescopic lances



R+M Nr.	525 920
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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

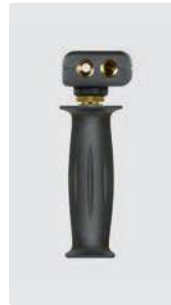


Valve on top.
Max. 250 bar /
150 °C



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

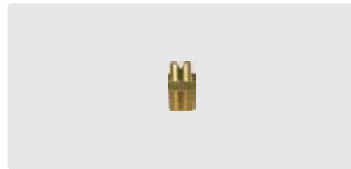
R+M Nr.
200 154 400

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	For nozzles with filter. Plastic. Stainless steel.	For nozzles with filter. Plastic. Stainless steel.
						R+M Nr. 200 010 745	R+M Nr. 200 010 725
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 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

Adaptor 500 bar lances

	1/4" M : M20 F. Stainless steel
R+M Nr. 519 714 209	R+M Nr. 519 601

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

Symbols colour

Nozzle protector and nozzle holder

For hydroblade®



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

Gun extensions



1/4" M. Lance with insulation ST-28 Cool & Compact.
Max. 400 bar / 150 °C

R+M Nr.				
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.				
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.				
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.				
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.				
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
---------	-------------

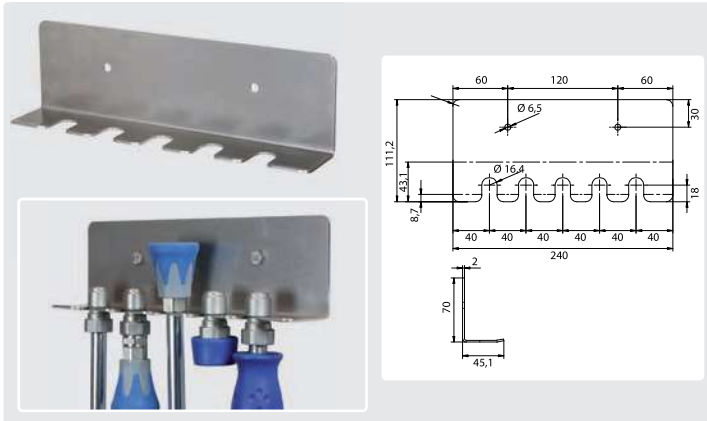


Lance fixation for lances with screw coupling or female thread. For individual retrofitting

R+M Nr.	105 610 004
---------	-------------

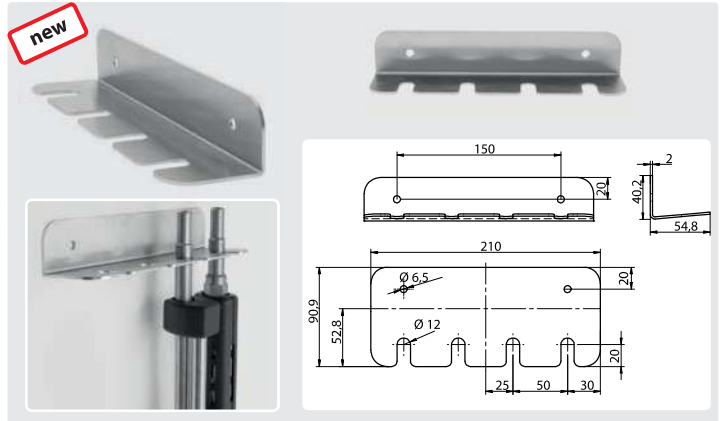
Symbols ☉ outlet ISO insulation ↔ length (M) material

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



Accessories for wall cleaner	305
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High pressure nozzles

1/4" M NPT



Impact = 100 %

0° 15° 25° 40° 65°

D	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°

D	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°

D	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°

D	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°

D	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°

D	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°
D	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.
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

R+M Nr.	∅
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°	
D	R+M Nr.	R+M Nr.	R+M Nr.	R+M Nr.	
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.

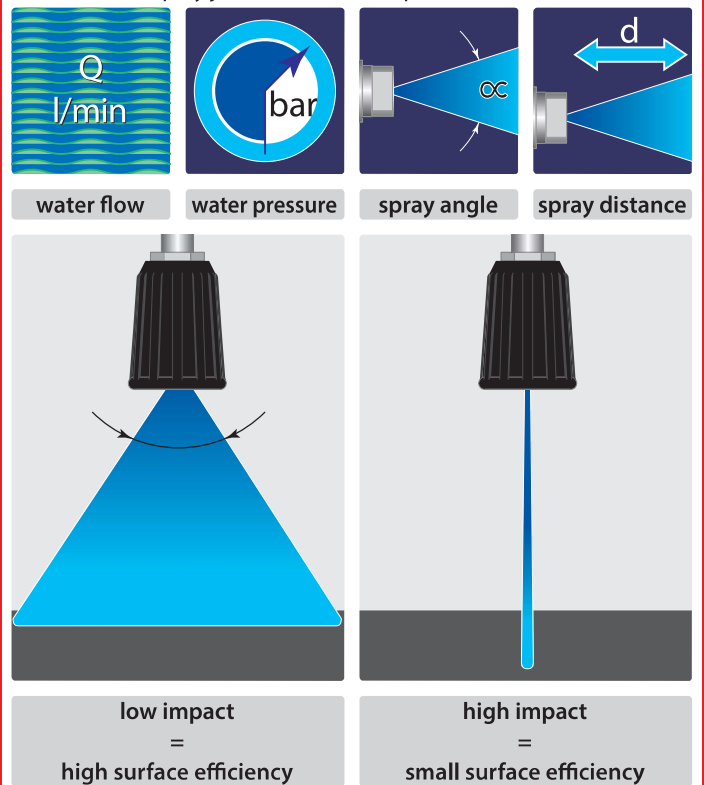
Nozzle too wide = machine has a small output, lower pressure.

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.

1. In the first line (pressure in bar) please go to column "150".
2. Follow column "150" down to find l/min: take "15.2" (nearest to 15).
3. Turn left in line "15.2" until the first column and stop at nozzle type "055".
4. The size you need is "055"
5. On pages 278 -279 please select type of nozzle and spray angle.
6. In line "055" please find the R+M Nr. of the nozzle you need.

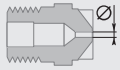
Important for excellent high pressure cleaning is the impact of the spray jet which is made up of 4 features.



* hole diameter in mm

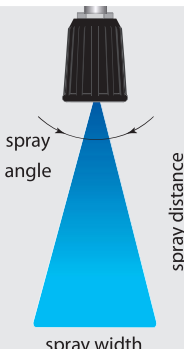
Further information about high pressure nozzles

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	For nozzles with filter. Plastic. Stainless steel.	For nozzles with filter. 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	R+M Nr. 200 010 745	R+M Nr. 200 010 725
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 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
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

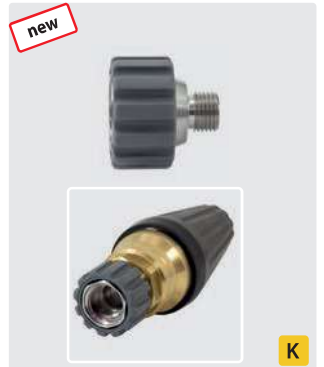
R+M Nr.	D
200 357 430	03
200 357 435	035
200 357 440	04
200 357 445	045
200 357 450	05
200 357 455	055
200 357 460	06
200 357 465	065
200 357 470	07
200 357 480	08
200 357 490	09
200 357 410	100



Kit ST-357.1

R+M Nr.
200 357 232
200 357 237
200 357 242
200 357 247
200 357 252
200 357 257
200 357 262
200 357 267
200 357 272
200 357 282
200 357 292
200 357 212

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



K

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

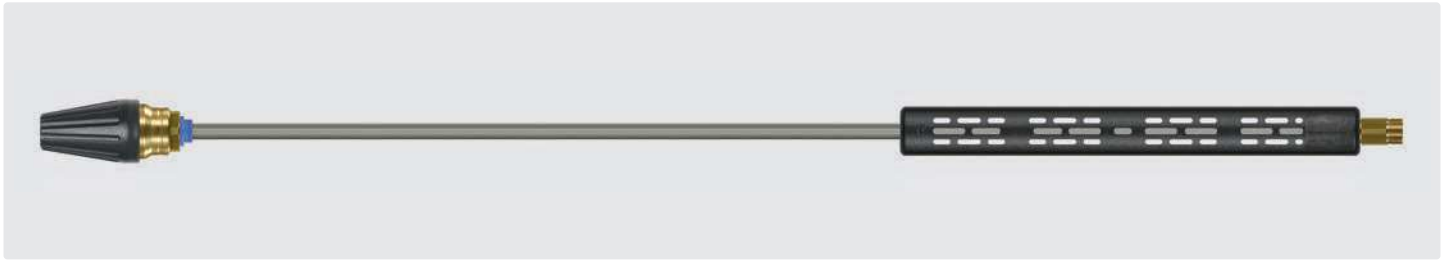
R+M Nr.	D	↔	M)*
653 835 016	035	430 mm	zinc-plated steel
653 840 016	04	430 mm	zinc-plated steel
653 845 016	045	430 mm	zinc-plated steel
653 850 016	05	430 mm	zinc-plated steel
653 855 016	055	430 mm	zinc-plated steel
653 860 016	06	430 mm	zinc-plated steel
653 865 016	065	430 mm	zinc-plated steel
653 870 016	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

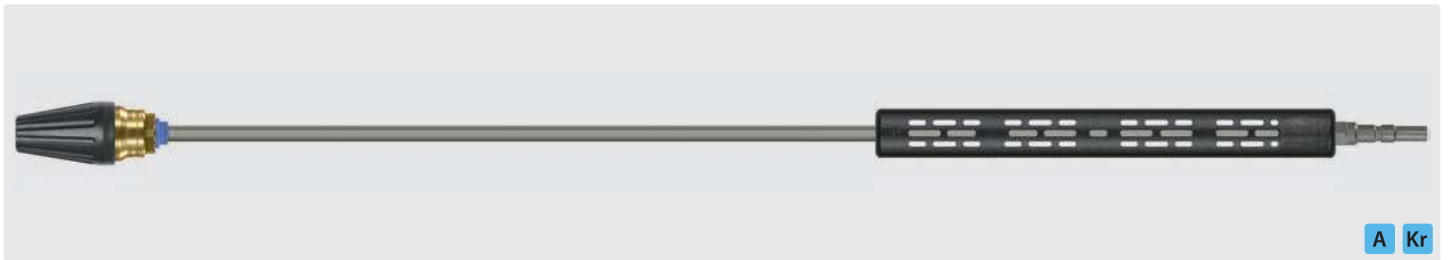
R+M Nr.	D	↔	M)*
653 835 024	035	600 mm	zinc-plated steel
653 840 024	04	600 mm	zinc-plated steel
653 845 024	045	600 mm	zinc-plated steel
653 850 024	05	600 mm	zinc-plated steel
653 855 024	055	600 mm	zinc-plated steel
653 860 024	06	600 mm	zinc-plated steel
653 865 024	065	600 mm	zinc-plated steel
653 870 024	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		HM 500		HM 500	
	Kit HM 500		Kit HM 500		Kit HM 500
G9/16". Spray angle 20°. Max. 500 bar / 90 °C		M20x1. Spray angle 20°. Max. 500 bar / 90 °C		M20x1. Spray angle 20°. Max. 500 bar / 90 °C	
R+M Nr. D	R+M Nr.	R+M Nr. D	R+M Nr.	R+M Nr. D	R+M Nr.
655 500 630 03	655 500 130	655 500 640 028	655 500 130	655 500 650 05	655 500 150
HM 500		HM 700		HM 1000	
	Kit HM 500		Kit HM 700		Kit HM 1000
1/4" F. Spray angle 20°. Max. 500 bar / 90 °C		1/4" F. Spray angle 20°. Max. 700 bar / 90 °C. Delivery time of approx. 1 week		1/4" F. Spray angle 20°. Max. 1,000 bar / 90 °C. Delivery time of approx. 1 week	
R+M Nr. D	R+M Nr.	R+M Nr. D	R+M Nr.	R+M Nr. D	R+M Nr.
655 500 520 02	655 500 120	655 700 520 02	655 700 120	655 100 520 02	655 100 120
655 500 525 025	655 500 125	655 700 525 025	655 700 125	655 100 525 025	655 100 125
655 500 530 03	655 500 130	655 700 530 03	655 700 130	655 100 530 03	655 100 130
655 500 535 035	655 500 135	655 700 535 035	655 700 135	655 100 535 035	655 100 135
655 500 540 04	655 500 140	655 700 540 04	655 700 140	655 100 540 04	655 100 140
655 500 545 045	655 500 145	655 700 545 045	655 700 145	655 100 545 045	655 100 145
655 500 550 05	655 500 150	655 700 550 05	655 700 150	655 100 550 05	655 100 150
655 500 555 055	655 500 155	655 700 555 055	655 700 155	655 100 555 055	655 100 155
655 500 560 06	655 500 160	655 700 560 06	655 700 160	655 100 560 06	655 100 160
655 500 570 07	655 500 170	655 700 570 07	655 700 170	655 100 570 07	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

M22 M. Lance with vario nozzle. Stainless 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

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



K

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



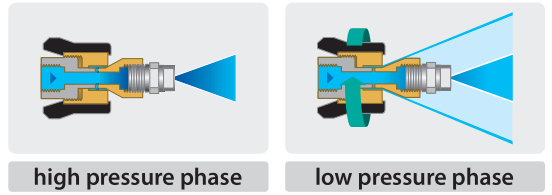
R+M Nr.	↺	↻
657 30	1/4" F	1/4" F

ST-51 adjustable nozzles



R+M Nr.	↺	↻
200 051 530	1/4" F	1/4" F

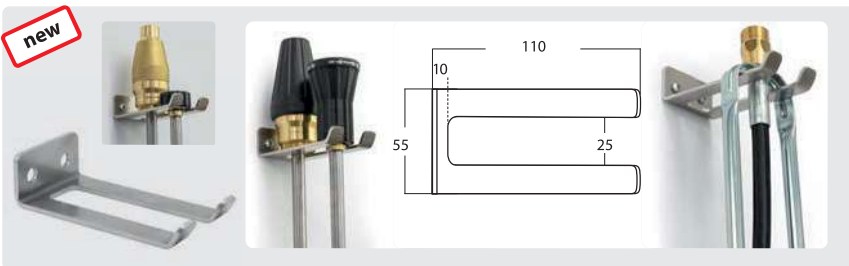
Functional principle of a adjustable nozzle



high pressure phase

low pressure phase

Universal bracket



R+M Nr.
710 400 097

Stainless steel bracket for wall mounting

* lance

Flat jet lances



Kr

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



A Kr

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