

All necessary tubing, hoses, fittings and fastening material are available to meet your system requirements.

Tubes are available in several sizes and materials ranging from steel, stainless steel, and copper to plastic (PA). To save your time when installing your own systems, plastic tubes are even available pre-filled with grease.

Fittings are also available in several sizes, materials and series (light to heavy). For easy installation, we have special Quicklinec push-in type fittings that can be used with plastic tubes.

Popular Hoses and Plastic Tubes

Part No.	Description	Maximum Operating Pressure	Minimum Bursting Pressure (with Hose Coupling, Screwed) at 20° C	Temperature Range	Minimum Bending Radius
504-36033-3 order by meter, max. length 50 meters	high-pressure plastic hose 8.6 X 2.3 mm GREASE-FILLED	350 bar (5075 psi)	600 bar (8700 psi)	-40° C to +70° C (-40° F to 158° F)	35 mm (1.4 in)
504-36041-2 order by meter, max. length 50 meters	pressure plastic tube 6 X 1.5 mm GREASE-FILLED		210 bar (3045 psi)		50 mm (2 in)
111-35114-1 order by meter, max. length 50 meters	high-pressure plastic hose 8.6 X 2.3 mm UNFILLED		600 bar (8700 psi)		35 mm (1.4 in)
112-35127-7 order by meter, max. length 50 meters	pressure plastic tube 4 X 1 mm UNFILLED		210 bar (3045 psi)		50 mm (2 in)
112-35127-2 order by meter, max. length 50 meters	pressure plastic tube 6 X 1.5 mm UNFILLED		210 bar (3045 psi)		50 mm (2 in)

Threaded Sleeves and Hose Studs for High-pressure Plastic Hose

Part No.	Item Standard	Designation	Ø mm
432-23031-1	1	threaded sleeve	
432-24162-1	2	hose stud, short	6
432-23067-1	2	hose stud, long	6
532-30739-1	2	hose stud, 90°, short	6
532-30738-1	2	hose stud, 90°, long	6



Threaded Sleeves and Hose Stud

Part No.	Item Stainless Steel	Designation	Ø mm
432-23676-1	1	threaded sleeve	
432-23675-1	2	hose stud, short	6

Seamless Precision Tubing

Dia. (mm)	Yellow Chromated Steel DIN 2391 ISO 3304	Stainless Steel 1.4571 DIN 2462 ISO 1127	Stainless Steel 1.4301 DIN 2462 ISO 1127	Stainless Steel 1.4541 DIN 2462 ISO 1127	Copper Semi-rigid SfCuF25, DIN 1754
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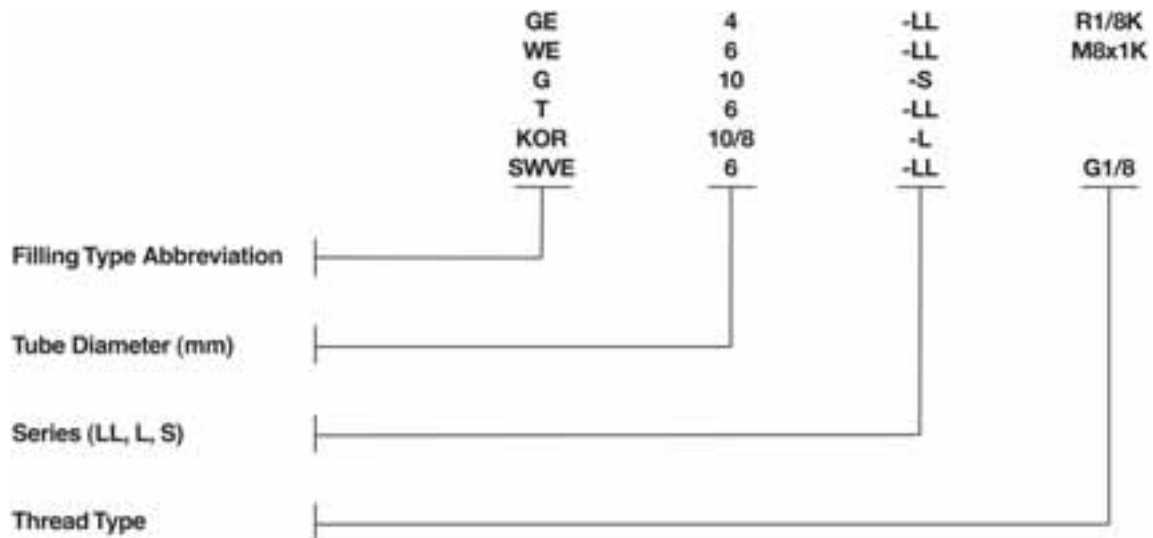
Heavy Range: For S Type Fittings

6 x 1	105-35025-2	106-35203-4	106-35231-1	106-35064-4	107-35287-2
10 x 1,5	105-35025-5	106-35203-2	106-35231-3	106-35063-3	107-35045-4
12 x 1,5	105-35134-3	106-35233-9	106-35267-1	106-35063-5	
16 x 2	105-35183-3		106-35231-5		
20 x 2	105-35134-1	106-35203-1	106-35231-6	106-35063-8	107-35045-6
30 x 3	105-35134-4	106-35203-7	106-35231-7	106-35064-9	

Medium to Light Range: For L & LL Fittings

8 x 1	105-35025-3	106-35203-3	106-35231-2	106-35063-1	
15 x 1,5	105-35134-9	106-35233-1	106-35231-4		107-35045-9
22 x 2	105-35251-2	106-35292-2	106-35267-4	106-35064-8	
28 x 2		106-35292-1		106-35285-1	
28 x 3	105-35183-7				

Connecting Elements, Screw-Type



Note: M = metric, R = BSPT, G = BSPP, K = conical

Series LL, L and S Selection

	LL	L		S	
design	very light	light		rigid	
tube diameter (mm)	4, 6, 8, 10, 12	6, 8, 10, 12, 15	22, 28	6, 8, 10, 12	16, 20, 30
nominal pressure	100 bar	315 bar	160 bar	630 bar	400 bar
max. pressure	250 bar	500 bar	250 bar	900 bar	420 bar
space requirement	very small	small		large	
typical application	<ul style="list-style-type: none"> ● lubrication point fittings ● Quicklub systems 			<ul style="list-style-type: none"> ● high-pressure systems ● heavy industry 	

Fitting Type Abbreviation

Type	Description
GE	male connector
WE	male elbow
G	union
T	union T
KOR	reducer
SWVE	connector and swivel

Male Connector GE



Standard Chromate-treated

Model	Part No.
GE4-LL M6x1K	223-12533-5
GE4-LL M8x1K	223-12271-8
GE4-LL M10x1K	223-13069-1
GE4-LL R1/8K	223-12270-8
GE6-LL M6x1K	223-12533-9
GE6-LL M8x1K	223-13023-1
GE6-LL M10x1K	223-12271-7
GE6-LL R1/8K	223-12270-7
GE6-LL 1/8NPT	223-12273-6
GE6-L M10x1	223-12571-2
GE6-L G1/8	223-13016-3
GE6-L G1/4	223-12477-8
GE6-L 1/4NPT	223-13766-2
GE6-S G1/4	223-12477-1
GE8-LL M10x1K	223-13021-1
GE8-LL R1/8K	223-12270-9
GE8-LL R1/4K	223-13621-6
GE8-L M12x1,5K	223-12361-6
GE8-L G1/4	223-12477-6
GE8-L 1/4NPT	223-12273-5
GE8-S G1/4	223-12477-2
GE8-S G3/8	223-13016-6
GE10-L G1/8	223-13621-9
GE10-L G1/4	223-12272-9
GE10-S 1/8NPT	223-13096-3
GE10-S G1/4	223-13016-9
GE10-S 1/4NPT	223-13096-2
GE10-S G1/2	223-13621-7
GE10-S G3/8	223-13016-4
GE10-S 3/8NPT	223-13096-6
GE12-L G3/8	223-12360-8
GE12-L 3/8NPT	223-13621-3
GE12-S G3/8	223-13016-7

Model	Part No.
GE15-L G3/8A	223-13621-8
GE16-S G3/8	223-13749-5
GE16-S G1/2	223-13621-1
GE20-S G1/2	223-12360-6
GE20-S G3/4	223-12359-6
GE22-L G1/2	223-13749-3
GE22-L G3/4	223-13016-2
GE30-S G1	223-13749-8
GE30-S G1-1/4	223-12360-2

High-grade Stainless Steel (1.4571)

Model	Part No.
GE4-LL M6x1K	223-13784-9
GE4-LL R1/8K	223-13614-8
GE4-LL 1/8NPT	223-13715-4
GE6-LL M6x1	223-13658-7
GE6-LL M8x1	223-13658-6
GE6-LL M10x1	223-13658-5
GE6-LL R1/8	223-13614-9
GE6-L G1/8	223-13658-2
GE6-L 1/8NPT	223-13784-2
GE6-L G1/4	223-13658-9
GE6-L 1/8NPT	223-13784-2
GE6-L G1/4	223-13658-9
GE8-LL G1/8	223-13658-1
GE8-L G1/4	223-12452-3
GE10-L G1/8	223-13658-8
GE10-L G1/4	223-12452-1
GE10-L 1/4NPT	223-13614-2
GE10-S G1/4	223-12452-9
GE10-S G3/8	223-12452-2
GE16-S G1/2	223-12452-7
GE20-S G3/4	223-12452-5
GE20-S G1/2	223-13658-4
GE22-L R3/4K	223-13784-5



Male Connector

Brass

Model	Part No.
GE4-LL R1/8K	223-12375-1
GE8-LL M10x1K	223-12376-3
GE8-L G1/4	223-12377-7
GE8-L 1/4NPT	223-13769-2
GE8-L G1/8	223-13769-4
GE10-L G1/4	223-12377-4
GE15-L G1/2	223-12377-8
GE20-S G1/2	223-12378-4
GE20-S G3/4	223-12377-9

Male Elbow WE Union G



Male Elbow

Standard Chromate-treated

Model	Part No.
WE4-LL M 6x1K	223-12533-6
WE4-LL M 8x1K	223-13021-5
WE4-LL M10x1K	223-13069-2
WE4-LL R1/8K	223-13021-4
WE6-LL M 6x1K	223-13023-2
WE6-LL M 8x1K	223-13023-3
WE6-LL M 8x1,25K	223-13763-4
WE6-LL M10x1K	223-13021-3
WE6-LL R1/8K	223-12485-9
WE6-LL 1/8NPT	223-13620-4
WE6-L R1/8K	223-13048-1
WE6-L R1/4K	223-12380-6
WE8-LL M10x1K	223-12362-4
WE8-LL R1/8K	223-13021-6
WE8-L M12x1,5K	223-12362-8
WE8-S R1/4K	223-13048-4
WE10-L R1/4K	223-13048-5
WE10-S R3/8K	223-13048-6
WE20-S G3/4A	223-12277-2
WE20-S 3/4NPT	223-13620-2

High-grade Stainless Steel (1.4571)

Model	Part No.
WE4-LL R1/8K	223-13677-8
WE6-LL M6x K	223-13677-4
WE6-LL M 6x1K (short thread)	223-14181-1
WE6-LL M8x1K	223-13677-2
WE6-LL M10x1K	223-13677-3
WE6-LL R1/8K	223-12453-7
WE6-L R1/8K	223-13620-8
WE6-L R1/4K	223-13794-1
WE6-L 1/4NPT	223-13677-9
WE6-S R1/4K	223-13620-1
WE8-LL R1/8K	223-13677-1
WE8-L R1/4K	223-13677-5
WE10-L R1/4K	223-12453-1

Standard Chromate-treated

Model	Part No.
G4-LL	223-12531-8
G6-LL	223-12482-9
G6-L	223-12482-2
G6-S	223-13049-1
G8-L	223-12482-6
G10-L	223-12531-2
G10-S	223-13049-3
G12-S	223-12278-9
G15-L	223-12531-6
G16-S	223-12531-4
G20-S	223-12363-2
G22-L	223-13049-7
G30-S	223-12363-6

High-grade Stainless Steel (1.4571)

Model	Part No.
G6-LL	223-12454-7
G8-L	223-13615-3
G10-L	223-13615-6
G10-S	223-12454-1
G12-S	223-13615-7
G15-L	223-12454-8
G16-S	223-12454-6
G20-S	223-12454-3
G22-L	223-13615-8
G30S	223-12454-5



Union

Brass

Model	Part No.
G6-L	223-12381-7
G8-L	223-12381-8
G10-L	223-13767-2
G10-S	223-12381-4
G15-L	223-12381-9
G20-S	223-12381-6

Union-Tee T Reducer KOR/RED



Standard Chromate-treated

Model	Part No.
T4-LL	223-12563-5
T6-LL	223-12484-9
T6-L	223-12484-2
T6-S	223-12563-7
T8-L	223-12484-6
T10-L	223-13057-5
T10-S	223-12563-9
T12-S	223-12281-9
T15-L	223-12563-2
T16-S	223-13057-2
T20-S	223-12366-2
T22-L	223-13057-4
T30-S	223-12366-6

High-grade Stainless Steel (1.4571)

Model	Part No.
T6-LL	223-10083-1
T6-L	223-12455-7
T6-S	223-13616-8
T8-L	223-12455-3
T10-L	223-13616-3
T10-S	223-12455-1
T12-S	223-12455-9
T15-L	223-13616-4
T16-S	223-12455-5
T20-S	223-12455-2
T22-L	223-13616-6
T30-S	223-12455-4



Union-Tee

Brass

Model	Part No.
T6-S	223-12384-2
T8-L	223-12384-6
T10-L	223-13792-1
T10-S	223-12384-4
T15-L	223-12384-8
T20-S	223-12384-7



Reducer

Standard Chromate-treated

Model	Part No.
RED10/6-L	223-10187-1
RED12/10-L	223-14293-2
RED15/8-L	223-14152-2
RED16/10-S	223-14293-1
RED20/10-S	223-12577-2
RED22/10-L	223-13759-8
RED25/10-S	223-12580-6
RED25/20-S	223-14293-3

High-grade Stainless Steel (1.4571/316Ti)

Model	Part No.
RED10/6-L	223-10040-1
RED12/10-S	223-14413-9
RED16/10-S	223-14297-1
RED20/10-S	223-14297-7
RED22/10-L	223-14297-9
RED30/10-S	223-14413-3

Brass

Model	Part No.
KOR15/8-L	223-13759-5
KOR15/10-L	223-12582-7
KOR20/10-S	223-13759-4

Reducer KOR/RED

These fittings are used to reduce from one size of tubing to a smaller size. KOR/RED fittings must be used in conjunction with the larger size G or T fittings. E.g. to reduce from 20 to 10 mm tube, use a G20-S and a RED20/10-S.