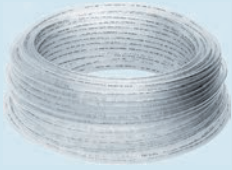


# 13 Pneumatic connection technology



- + Tubing for a wide range of working environments
- + Fittings and connectors with push-in or barbed fitting connection
- + Tubes made of polyamide, wrought aluminium alloy or polyethylene
- + Self-locking couplings
- + Multiple distributor
- + Protective tubing systems

## Highlights



**PUN-H**  
 Plastic tubing  
 + High resistance to microbes and hydrolysis  
 + Safe for use with food  
 Page 1069





**NPQM**  
 Push-in fittings  
 + Metal push-in fittings for an attractive price  
 + Suitable for water  
 Page 1084





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Software tool

<p><b>Product finder for tubing</b></p>		<p>Simply enter parameters such as working pressure, chemicals and required resistance to cleaning agents and have the program calculate the right tubing for your application.</p>	<p>This tool can be found</p> <ul style="list-style-type: none"> <li>• either in the electronic catalogue by clicking on the blue button "Product finder"</li> <li>• or on the DVD under Engineering Tools.</li> </ul>
<p><b>Festo Design Tool 3D FDT 3D</b></p>		<p>This Festo Design Tool 3D is a 3D product configurator for generating specific CAD product combinations from Festo. The configurator makes your search for the right accessory easier, more reliable and faster.</p> <p>You can then order the module that has been created with a single order item – either completely pre-assembled or as individual parts in a single box. As a result, your bill of materials is considerably shortened and downstream processes such as product ordering, order picking and assembly are significantly simplified.</p>	<p>All ordering options are available in the following countries: AT, BE, CH, CZ, DE, DK, ES, FI, FR, GB, HU, IE, IT, NL, NO, PL, RU, SE, SI, SK.</p> <p>This tool can be found</p> <ul style="list-style-type: none"> <li>• either in the electronic catalogue by clicking on the blue button "Engineering"</li> <li>• or on the DVD under Engineering Tools.</li> </ul>



O.D. tubing

Type	 Plastic tubing, DUO plastic tubing PUN, PUN-DUO	 Plastic tubing, DUO plastic tubing PUN-H, PUN-H-DUO	 Plastic tubing PUN-CM	 Plastic tubing PUN-V0
O.D.	3 ... 16 mm	2 ... 16 mm	4 ... 12 mm	4 ... 16 mm
I.D.	2.1 ... 11 mm	1.2 ... 11 mm	2.5 ... 8 mm	2 ... 11.8 mm
Temperature-dependent operating pressure	-0.95 ... 10 bar	-0.95 ... 10 bar	-0.95 ... 10 bar	-0.95 ... 10 bar
Ambient temperature	-35 ... 60 °C	-35 ... 60 °C	-35 ... 60 °C	-35 ... 60 °C
Description	<ul style="list-style-type: none"> <li>• Polyurethane</li> <li>• High resistance to stress cracks</li> <li>• Suitable for use with energy chains</li> <li>• Also in the form of DUO plastic tubing</li> <li>• Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>• Polyurethane</li> <li>• High resistance to microbes and hydrolysis</li> <li>• Material suitable for use in the food industry</li> <li>• Suitable for use with energy chains</li> <li>• Also in the form of DUO plastic tubing</li> <li>• Operating media: compressed air, vacuum, water</li> </ul>	<ul style="list-style-type: none"> <li>• Polyurethane</li> <li>• Plastic tubing, antistatic, electrically conductive</li> <li>• Suitable for use with energy chains</li> <li>• Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>• Polyurethane</li> <li>• Flame-retardant in accordance with UL 94 V0 ... V2</li> <li>• For use in the immediate vicinity of welding applications</li> <li>• High resistance to microbes and hydrolysis</li> <li>• Suitable for use with energy chains</li> <li>• Operating media: compressed air, vacuum, water</li> </ul>
→ Page/online	1069	1069	pun-cm	pun-v0

## O.D. tubing

Type	 Plastic tubing PEN	 Plastic tubing PAN	 Plastic tubing PAN-MF	 Plastic tubing PAN-R
<b>O.D.</b>	4 ... 16 mm	4 ... 16 mm	4 ... 16 mm	4 ... 28 mm
<b>I.D.</b>	2.7 ... 10.8 mm	2.9 ... 12 mm	2.5 ... 12 mm	2.5 ... 10 mm
<b>Temperature-dependent operating pressure</b>	-0.95 ... 10 bar	-0.95 ... 19 bar	-0.95 ... 31 bar	-0.95 ... 35 bar
<b>Ambient temperature</b>	-30 ... 60 °C	-30 ... 80 °C	-60 ... 100 °C	-30 ... 80 °C
<b>Description</b>	<ul style="list-style-type: none"> <li>• Polyethylene</li> <li>• Good resistance to chemicals and very good resistance to hydrolysis</li> <li>• Resistant to most cleaning agents and lubricants</li> <li>• Suitable for use with energy chains</li> <li>• Operating media: compressed air, vacuum, water</li> </ul>	<ul style="list-style-type: none"> <li>• Polyamide</li> <li>• High thermal and mechanical load capacities</li> <li>• High resistance to microbes</li> <li>• Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>• Polyamide</li> <li>• High thermal and mechanical load capacities</li> <li>• Meets the requirements to DIN 73378 "Polyamide tubing for use in motor vehicles"</li> <li>• Operating media compressed air, mineral oil</li> </ul>	<ul style="list-style-type: none"> <li>• Polyamide</li> <li>• For applications with a high pressure range</li> <li>• High resistance to microbes</li> <li>• Operating media: compressed air, vacuum</li> </ul>
<b>→ Page/online</b>	<b>1069</b>	<a href="#">pan</a>	<a href="#">pan</a>	<a href="#">pan-r</a>




## O.D. tubing

Type	 Plastic tubing PAN-V0	 Plastic tubing PLN	 Plastic tubing PFAN	 User-specific hoses PAN, PEN, PLN, PUN
<b>O.D.</b>	6 ... 14 mm	4 ... 16 mm	4 ... 12 mm	3 ... 16 mm
<b>I.D.</b>		2.9 ... 12 mm	2.9 ... 8.4 mm	2.1 ... 12 mm
<b>Temperature-dependent operating pressure</b>	-0.95 ... 12 bar	-0.95 ... 14 bar	-0.95 ... 16 bar	-0.95 ... 16 bar
<b>Ambient temperature</b>	-30 ... 90 °C	-30 ... 80 °C	-20 ... 150 °C	-35 ... 80 °C
<b>Description</b>	<ul style="list-style-type: none"> <li>• PVC, polyamide</li> <li>• Flame retardant to UL 94 V0</li> <li>• High resistance to microbes and UV radiation</li> <li>• Double-sheath tubing</li> <li>• Operating media: compressed air, vacuum, water, mineral oil</li> </ul>	<ul style="list-style-type: none"> <li>• Polyethylene</li> <li>• High resistance to chemicals, microbes and hydrolysis</li> <li>• Material suitable for use in the food industry</li> <li>• Resistant to most cleaning agents and lubricants</li> <li>• Operating media: compressed air, vacuum, water</li> </ul>	<ul style="list-style-type: none"> <li>• Perfluoroalkoxy alkane</li> <li>• Pneumatic tubing with resistance to high temperatures and chemicals</li> <li>• Material suitable for use in the food industry</li> <li>• High resistance to chemicals, microbes, UV radiation, hydrolysis and stress cracks</li> <li>• Operating media: compressed air, vacuum, water</li> </ul>	<ul style="list-style-type: none"> <li>• Individual lengths: delivered in units of 25, 50, 100, 200 ... 500 m</li> <li>• Minimum quantity: 3000 m</li> <li>• Individual design: labelled with your company name and/or your part number</li> <li>• Easy to recognise and handle: individual colour selection</li> <li>• Choose from 9 basic colours; further colours available on request</li> <li>• Simple to order with the configurator</li> </ul>
<b>→ Page/online</b>	<a href="#">pan-v0</a>	<a href="#">pln</a>	<a href="#">pfan</a>	<a href="#">tubing</a>





## Standard I.D. tubing

Type	 Plastic tubing PU	 Plastic tubing PCN	 Rubber hose P
<b>O.D.</b>	11.6 ... 18 mm	6.5 mm	13 ... 31 mm
<b>I.D.</b>	9 ... 13,1 mm	4 mm	6 ... 19 mm
<b>Temperature-dependent operating pressure</b>	-0.95 ... 10 bar	-0.5 ... 0.25 bar	-0.95 ... 16 bar
<b>Ambient temperature</b>	-35 ... 60 °C	-10 ... 60 °C	-20 ... 80 °C
<b>Description</b>	<ul style="list-style-type: none"> <li>• Polyurethane with reinforcing fabric</li> <li>• High resistance to abrasion and kinks</li> <li>• Operating media: compressed air, vacuum (PU-13)</li> </ul>	<ul style="list-style-type: none"> <li>• Polyvinyl chloride</li> <li>• For use with condensate drains on D series service units</li> <li>• Operating media: compressed air, water</li> </ul>	<ul style="list-style-type: none"> <li>• P-6 and P-9: nitrile rubber with reinforcing fabric</li> <li>• P-13 and P-19: ethylene propylene rubber, styrene butadiene rubber with reinforcing fabric</li> <li>• Operating media: compressed air, vacuum, water</li> </ul>
<b>→ Page/online</b>	<a href="#">pu</a>	<a href="#">pcn</a>	<a href="#">p</a>

## Spiral tubing

Type	 Spiral plastic tubing, DUO spiral plastic tubing PUN-S, PUN-S-DUO	 Spiral plastic tubing PUN-SG	 Spiral plastic tubing PPS
<b>O.D.</b>	4 ... 12 mm	9.5 ... 11.7 mm	6.3 ... 7.8 mm
<b>I.D.</b>	2.6 ... 8 mm	6.4 ... 7.9 mm	4.7 ... 6.2 mm
<b>Working length</b>	0.5 ... 6 m	2.4 ... 6 m	7.5 ... 15 m
<b>Temperature-dependent operating pressure</b>	-0.95 ... 10 bar	-0.95 ... 15 bar	-0.95 ... 21.2 bar
<b>Ambient temperature</b>	-35 ... 60 °C	-40 ... 60 °C	-30 ... 80 °C
<b>Description</b>	<ul style="list-style-type: none"> <li>• Polyurethane</li> <li>• Also in the form of DUO plastic tubing</li> <li>• Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>• Polyurethane, nickel-plated brass, polyacetal</li> <li>• Pre-assembled with captive rotatable fittings</li> <li>• High resistance to microbes and hydrolysis</li> <li>• Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>• Polyamide, brass, galvanised steel</li> <li>• Pre-assembled with 2 rotatable connectors and captive sealing rings OL</li> <li>• High resistance to microbes</li> <li>• Operating media: compressed air, vacuum, water</li> </ul>
<b>→ Page/online</b>	<a href="#">spiral</a>	<a href="#">spiral</a>	<a href="#">pps</a>


## Push-in fittings

Type	 Push-in fitting NPQH	 Push-in fitting NPQM	 Push-in fitting NPQP	 Cartridge QSP10, QSPK, QSPKG, QSPLK, QSP- PLKG, QSPLLK, QSPLLKG
<b>Pneumatic port</b>	Male thread M5, M7, G1/8, G1/4, G3/8, G1/2, for tubing O.D. 4mm, 6mm, 8mm, 10mm, 12mm, 14mm, female thread G1/8, G1/4	G1/8, G1/4, G3/8, G1/2, M5, M7, push-in sleeve QS4, QS6, QS8, QS10, QS12, for tubing O.D. 4, 6, 8, 10, 12 mm	Male thread R1/8, R1/4, R3/8, R1/2, push-in sleeve QS4, QS6, QS8, QS10, QS12, for tubing O.D. 4, 6, 8, 10, 12 mm	QSP...10, 14, 18, 20, for tubing O.D. 3, 4, 6, 8, 10, 12 mm
<b>Pneumatic port outlet</b>	For tubing O.D. 4 mm, 6 mm, 8 mm, 10 mm, 12 mm, 14 mm	For tubing O.D. 3, 4, 6, 8, 10, 12 mm		
<b>Operating pressure</b>	-0.95 ... 20 bar	-0.95 ... 16 bar		-0.95 ... 10 bar
<b>Temperature-dependent operating pressure</b>			-0.95 ... 10 bar	
<b>Ambient temperature</b>	0 ... 150 °C	-20 ... 70 °C	-20 ... 60 °C	-5 ... 60 °C
<b>Description</b>	<ul style="list-style-type: none"> <li>• Solid-metal brass, chemically nickel-plated</li> <li>• High corrosion and chemical resistance</li> <li>• Highly resistant to temperatures and pressure</li> <li>• Materials suitable for use in the food industry</li> <li>• Operating media: compressed air, vacuum, water</li> </ul>	<ul style="list-style-type: none"> <li>• Solid-metal brass, nickel-plated</li> <li>• Attractively priced metal push-in fitting</li> <li>• Sturdy</li> <li>• Operating media: compressed air, vacuum, water</li> </ul>	<ul style="list-style-type: none"> <li>• Polypropylene</li> <li>• Low-cost alternative to stainless steel: resistant to most cleaning agents in combination with tubing PLN</li> <li>• For use with extreme influence of media</li> <li>• Materials suitable for use in the food industry</li> <li>• Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>• PBT and nickel-plated brass</li> <li>• Plug-in cartridges</li> <li>• Straight or angled design</li> <li>• Operating media: compressed air, vacuum</li> </ul>
<b>→ Page/online</b>	<b>1076</b>	<b>1084</b>	<b>1091</b>	<b>qsp</b>





## Push-in fittings

Type	 Push-in fitting QSM, QSMC, QSMF, QSPM, QSMS, QSML, QSMLL, QSMLV, QSMLLV, QSM- T, QSMTL, QSMX, QSMY	 Push-in fitting QS, QSF, QSS, QSSF, QSC, QSH, QSL, QSLL, QSLF, QSLV, QST, QSTF, QSTL, QSW, QSX, QSY, QSYL, QSYLV, QSYTF	 Push-in fitting, stainless steel CRQS, CRQSL, CRQSS, CRQST, CRQSY	 Push-in fitting, resistant to welding spatter QS-V0, QSL-V0, QST-V0
<b>Pneumatic port</b>	Male thread G1/8, M3, M5, M6, M6x0.75, M7, M8x0.75, R1/8, female thread M3, M5, push-in sleeve QS3, QS4, QS6, for tubing O.D. 3, 4, 6 mm	Male thread G1/8, G1/4, G3/8, G1/2, M5, R1/8, R1/4, R3/8, R1/2, female thread G1/8, G1/4, G3/8, G1/2, push-in sleeve QS-4, QS6, QS8, QS10, QS12, QS16, for tubing O.D. 4, 6, 8, 10, 12, 16 mm	Male thread M5, R1/8, R1/4, R3/8, R1/2, for tubing O.D. 4, 6, 8, 10, 12, 16 mm	G1/8, G1/4, G3/8, G1/2, R1/8, R1/4, R3/8, R1/2, for tubing O.D. 4, 6, 8, 10, 12 mm
<b>Pneumatic port outlet</b>	For tubing O.D. 2, 3, 4, 6 mm	Female thread G1/8, G1/4, G3/8, G1/2, for tubing O.D. 4, 6, 8, 10, 12, 16 mm	For tubing O.D. 4, 6, 8, 10, 12, 16 mm	For tubing O.D. 4, 6, 8, 10, 12 mm
<b>Operating pressure</b>			-0.95 ... 10 bar	-0.95 ... 10 bar
<b>Temperature-dependent operating pressure</b>	-0.95 ... 14 bar	-0.95 ... 14 bar		
<b>Ambient temperature</b>	-10 ... 80 °C	-10 ... 80 °C	-15 ... 120 °C	0 ... 60 °C
<b>Description</b>	<ul style="list-style-type: none"> <li>• PBT and nickel-plated brass</li> <li>• Mini series</li> <li>• Compact for maximum component density in confined spaces</li> <li>• Operating media: compressed air, vacuum, (water)</li> </ul>	<ul style="list-style-type: none"> <li>• PBT and nickel-plated brass</li> <li>• Standard series</li> <li>• Wide range of variants: wide selection for maximum flexibility in standard applications</li> <li>• Operating media: compressed air, vacuum, (water)</li> </ul>	<ul style="list-style-type: none"> <li>• Stainless steel</li> <li>• Maximum corrosion resistance (corrosion resistance class 4 to Festo standard 940 070) and chemical resistance</li> <li>• Materials suitable for use in the food industry</li> <li>• Operating media: compressed air, vacuum, (water)</li> </ul>	<ul style="list-style-type: none"> <li>• PBT reinforced</li> <li>• Resistant to welding spatter</li> <li>• For use in all areas where there is a risk of fire</li> <li>• Reliable even for applications in close proximity to welding spatter</li> <li>• Operating media: compressed air, vacuum, water</li> </ul>
<b>→ Page/online</b>	<b>1097</b>	<b>1097</b>	<b>crqs</b>	<b>qs-v0</b>

## Push-in fittings




	
Type	Self-sealing/rotary push-in fitting QSK, QSSK, QSKL, QSR, QSRL
Pneumatic port	Male thread M5, G1/8, G1/4, G3/8, G1/2, R1/8, R1/4, R3/8, R1/2, for tubing O.D. 4, 6, 8, 10, 12 mm
Pneumatic port outlet	For tubing O.D. 4, 6, 8, 10, 12 mm
Operating pressure	
Temperature-dependent operating pressure	-0.95 ... 14 bar
Ambient temperature	-10 ... 80 °C
Description	<ul style="list-style-type: none"> <li>• PBT and nickel-plated brass</li> <li>• Standard series</li> <li>• Self-sealing push-in fitting blocks the air flow after the tubing is disconnected</li> <li>• Push-in fitting, rotatable with swivel connection, rotatable by 360° with max. 500 rpm</li> <li>• Operating media: compressed air, vacuum</li> </ul>
→ Page/online	1120

## Barbed fittings



				
Type	Quick connector NPKC	Barbed fitting CN, CRCN, FCN, L-PK, LCN, N, RTU, SCN, LCNH, T-PK, TCN, Y-PK	Barbed hose fitting C-P, N-P, N-MS	Quick connector ACK, CK, QCK, SCK, CV-PK, GCK-KU, LCK, LCKN, TCK, KCK-KU, FCK-KU, MCK, LK, TK
Nominal width	2 ... 6.2 mm	1.3 ... 16.5 mm	2.5 ... 16.5 mm	1.7 ... 12 mm
Pneumatic port	M5, G1/8, G1/4, G3/8	M5, G1/8, G1/4, G3/8, G1/2, G3/4, PK-2, PK-3, PK-4, PK-6, PK-9, PK-13, PK-19, R1	M5, G1/8, G1/4, G3/8, G1/2, G3/4, PK-3, PK-4, PK-6, PK-9, PK-13, PK-19, R1	M5, M6x0.75, M10x1, M12x1, M16x1, G1/8, G1/4, G3/8, G1/2, with union nut: PK-3, PK-4, PK-6, PK-9, PK-13, R1/8, R1/4, R3/8
Operating pressure	-0.95 ... 12 bar			-0.9 ... 16 bar
Ambient temperature	-20 ... 120 °C	0 ... 60 °C		-20 ... 80 °C
Description	<ul style="list-style-type: none"> <li>• Stainless steel design</li> <li>• Materials suitable for use in the food industry</li> <li>• Fulfils all Clean Design requirements</li> <li>• Straight shape</li> <li>• Operating medium: compressed air, vacuum, water</li> </ul>	<ul style="list-style-type: none"> <li>• Brass, POM, aluminium or stainless steel</li> <li>• Straight shape, T-shape, L-shape, Y-shape</li> <li>• Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>• Brass or aluminium, steel</li> <li>• Female hose connector with or without sealing ring</li> <li>• Hose clip according to DIN 3017</li> <li>• Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>• Aluminium, steel, POM or zinc</li> <li>• Bulkhead quick connector</li> <li>• Sealing cap for plastic tube fittings and barbed connectors</li> <li>• Multiple distributor</li> <li>• Union nut for CK tube fitting</li> <li>• Operating media: compressed air, vacuum, (water)</li> </ul>
→ Page/online	1123	<a href="#">n_070302</a>	<a href="#">n_cnp</a>	<a href="#">ck</a>




## Threaded fittings

			
Type	<b>Threaded fitting NPFC</b>	<b>Adapter NPFV</b>	<b>Reducer, sleeve, double nipple D, E, ESK, FR, G, LJK, NPFA, QM, QMR, QSP10, SCM, TJK</b>
Pneumatic port 1	G1/8, G1/4, G3/8, G1/2, G3/4, G1, M5, M7, R1/8, R1/4, R3/8, R1/2, R3/4, R1	G1/4	G1/8, G1/4, G3/8, G1/2, G3/4, G1, M3, M5, M7, R1/8, R1/4, R3/8, R1/2
Pneumatic port 2	G1/8, G1/4, G3/8, G1/2, G3/4, G1, M5, R1/8, R1/4, R3/8, R1/2, R3/4, R1	G1/4, NPT1/4-18	G1/8, G1/4, G3/8, G1/2, G3/4, G1, M3, M5, M7, R1/8, R1/4, R3/8, R1/2
Operating pressure	-0.95 ... 50 bar	≤ 8 bar	-0.96 ... 8 bar
Nominal size		6 mm	2.6 ... 10.7 mm
Ambient temperature	-20 ... 150 °C		-5 ... 50 °C
Description	<ul style="list-style-type: none"> <li>Nickel-plated brass</li> <li>Sleeve</li> <li>Reducing sleeve</li> <li>Extension</li> <li>Double nipple</li> <li>Reducing nipple</li> <li>L, T, Y or X-fitting</li> <li>Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>Aluminium</li> <li>Adapter with filter</li> <li>From G1/4 to NPT1/4 or G1/4</li> <li>Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>Brass or aluminium</li> <li>Reducing nipple</li> <li>Reducing sleeve</li> <li>Double nipple</li> <li>Distributor block</li> <li>Female bulkhead fitting</li> <li>Sleeve</li> <li>Operating media: compressed air, vacuum</li> </ul>
→ Page/online	<b>1125</b>	<a href="#">npfv</a>	<a href="#">esk</a>

## Threaded fittings

		
Type	<b>Ring piece, hollow bolt LK, TK, VT</b>	<b>Blanking plug B</b>
Pneumatic connection 1	M5, G1/8, G1/4, G3/8, PK3, PK4, PK6 with union nut	M3, M5, M7, G1/8, G1/4, G3/8, G1/2, G3/4, G1
Pneumatic connection 2		
Operating pressure	0 ... 10 bar	
Nominal size		
Ambient temperature		
Description	<ul style="list-style-type: none"> <li>Galvanised steel</li> <li>Multiple distributor consisting of hollow bolt VT and ring piece LK or TK</li> <li>With two to six outlets and one common air feed</li> <li>Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>Aluminium, steel stainless</li> <li>With sealing ring</li> </ul>
→ Page/online	<a href="#">lk</a>	<a href="#">b-1</a>


## Click fittings

	
Type	<b>Click fitting NPKA</b>
Pneumatic port 1	Male thread G1/8
Pneumatic port 2	for tubing O.D. 6 mm
Operating pressure	-0.95 ... 10 bar
Nominal size	4 mm
Ambient temperature	-10 ... 60 °C
Description	<ul style="list-style-type: none"> <li>POM, polyamide 66</li> <li>Quick and simple tube installation using one hand</li> <li>Completely plastic</li> <li>Suitable for use in cleaning-intensive areas</li> <li>Materials suitable for use in the food industry</li> <li>Operating medium: compressed air, vacuum, water</li> </ul>
→ Page/online	<a href="#">npka</a>





## Pipes

			
Type	Plastic pipe PQ-PA	Pipe PQ-AL	Plastic-coated metal tube PM
O.D.	12 ... 28 mm	12 ... 28 mm	6 ... 8 mm
Information on materials tubing	PA	Wrought aluminium alloy	Wrought aluminium alloy, PE
Operating pressure			
Temperature-dependent operating pressure	-0.95 ... 15 bar	-0.95 ... 15 bar	-0.95 ... 30 bar
Ambient temperature	-25 ... 75 °C	-30 ... 75 °C	-29 ... 65 °C
Description	<ul style="list-style-type: none"> <li>• Rigid pipe made from high-quality polyamide</li> <li>• Smooth inside wall ensures optimum flow conditions</li> <li>• Operating media: compressed air, vacuum, liquid media</li> </ul>	<ul style="list-style-type: none"> <li>• Rigid aluminium pipe</li> <li>• Smooth inside wall ensures optimum flow conditions</li> <li>• Operating media: compressed air, vacuum, liquid media</li> </ul>	<ul style="list-style-type: none"> <li>• Polyethylene, aluminium</li> <li>• Can be bent straight and reshaped several times without a pipe-bending device and without being damaged</li> <li>• Resistant to deformation</li> <li>• Operating media: compressed air, vacuum</li> </ul>
→ Page/online	<a href="#">pq-pa</a>	<a href="#">pq-al</a>	<a href="#">pm</a>





## Push-in fittings for piping PQ

	
Type	Push-in fitting CQ, CQA, CQC, CQD, CQH, CQL, CQO, CQSR, CQT
Pneumatic port	Male thread G3/8, G1/2, G3/4, G1, push-in sleeve CQ-12, CQ-15, CQ-18, CQ-22, CQ-28, push-in sleeve QS-12, QS-16, for tube/hose O.D.: 12, 15, 18, 22, 28 mm
Nominal width	8 ... 25 mm
Temperature-dependent operating pressure	-0.95 ... 15 bar
Ambient temperature	-25 ... 75 °C
Description	<ul style="list-style-type: none"> <li>• POM</li> <li>• For pipes PQ-PA, PQ-AL and tubing PAN and PUN</li> <li>• Operating media: compressed air, vacuum, liquid media</li> </ul>
→ Page/online	<a href="#">cq</a>



## Couplings

				
Type	Quick coupling socket, quick coupling plug KDMS6, KDS6, KSS6	Quick coupling socket, quick coupling plug KD1, KD2, KD3, KD4, KD5, KS1, KS2, KS3, KS4, KS5	Multiple connector KSV, KDVF, KDV	Multi-tube connector KM
Pneumatic port	Male thread G1/4, G3/8, G1/2, G1/8, G1/4, G3/8, G1/2, female thread G1/4, G3/8, G1/2, with union nut: PK9, PK13, barbed connector PK9	Male thread G1/8, G1/4, G1/2, M5, G1/8, G1/4, G3/8, G1/2, female thread G1/8, G1/4, G3/8, G1/2, M5, M3, M5, PK2, P13, with union nut: PK3, PK4, PK6, PK9, PK13, barbed connector PK4, PK6, PK9	PK2, PK3, PK4, PK6, for tubing O.D. 3 mm, 4 mm, 6 mm	PK2, PK3, PK4
Standard nominal flow rate	963 ... 1935 l/min	44 ... 2043 l/min		
Operating pressure	-0.95 ... 12 bar	-0.95 ... 15 bar	-0.95 ... 16 bar	-0.95 ... 8 bar
Ambient temperature	-10 ... 60 °C	-10 ... 80 °C	-10 ... 60 °C	-10 ... 60 °C
Description	<ul style="list-style-type: none"> <li>Nickel-plated brass; PP, galvanised steel, hardened steel</li> <li>Safety coupling</li> <li>Shut-off on one side</li> <li>With male or female thread</li> <li>Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>Nickel-plated brass, PP</li> <li>Quick connection coupling for standard applications without safety function</li> <li>With male or female thread or with barbed fitting or quick connector</li> <li>Shut-off at one or both ends</li> <li>Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>POM, aluminium, brass</li> <li>Multi-plug, multi-socket</li> <li>Terminal plug and terminal socket</li> <li>Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>Polymer, brass</li> <li>For max. 22 lines</li> <li>Used as control cabinet outlets</li> <li>Operating media: compressed air, vacuum</li> </ul>
→ Page/online	<a href="#">kdms</a>	<b>1133</b>	<a href="#">ksv</a>	<a href="#">km</a>





## Distributor

				
Type	Multiple distributor QSLV, QSQ, QST3	Multiple distributor QSYTF	Distributor block FR	Rotary distributor GF
Pneumatic port Supply line	Male thread G1/8, G1/4, G3/8, G1/2, male thread R1/8, R1/4, R3/8, R1/2, for tubing O.D. 6, 8, 10 mm	Male thread G1/8, G1/4, G3/8, G1/2, male thread R1/8, R1/4, R3/8, R1/2	G1/8, G3/8, G1/2, G3/4	
Pneumatic port				Male thread G1/8, G1/4, G3/8, G1/4, G1/2, female thread G1/4, G3/8
Pneumatic port Outlet	For tubing O.D. 4, 6, 8, 10, 12 mm	Female thread G1/8, G1/4, G3/8, G1/2, for tubing O.D. 6, 8, 10, 12 mm	G1/8, G1/4, G1/2, M3, M5, PK3, PK4, R1/8, R1/4, R3/8, R1/2	Female thread M5, G1/8, G1/4, G1/2
No. of supply lines	1	1	1	1
No. of outlets	2 ... 6	3	3 ... 12	2, 4
Max. speed				300 ... 3000 rpm
Description	<ul style="list-style-type: none"> <li>PBT and nickel-plated brass</li> <li>L-shape, T-shape</li> <li>Rotatable 360°</li> <li>Reducing design</li> <li>Operating media: compressed air, vacuum, (water)</li> </ul>	<ul style="list-style-type: none"> <li>PBT and nickel-plated brass</li> <li>Y-shape</li> <li>Rotatable 360°</li> <li>Operating media: compressed air, vacuum, (water)</li> </ul>	<ul style="list-style-type: none"> <li>Aluminium</li> <li>4, 8, 9 or 12 connections</li> <li>Operating media: compressed air, vacuum</li> </ul>	<ul style="list-style-type: none"> <li>Brass, hardened steel</li> <li>4 outlets or 2 axial and radial outlets</li> <li>Single or multiple rotary distributor</li> <li>Operating media: compressed air, vacuum</li> </ul>
→ Page/online	<b>1139</b>	<a href="#">qsytf</a>	<a href="#">fr</a>	<a href="#">gf</a>

## Protective tubing systems

		
Type	Protective conduit MK, MKG, MKR, MKV	Protective conduit fitting HMZAS, HMZV, MKA, MKGV, MKM, MKRL, MKRS, MKRT, MKRV, MKVM, MKVV, MKY
I.D.	7.5 ... 48 mm	
O.D.	10 ... 52 mm	
Design	Strip-wound metal conduit, internally and externally corrugated all-plastic conduit, separable	
Ambient temperature	-50 ... 220 °C	-40 ... 200 °C
Description	<ul style="list-style-type: none"> <li>Galvanised steel, PA, PP, PVC spring steel</li> <li>Metal or plastic design</li> <li>High alternate bending strength</li> <li>For protecting pneumatic tubing and electrical cables</li> </ul>	<ul style="list-style-type: none"> <li>Polymer, polyamide, nickel-plated brass</li> <li>Installation kit</li> <li>Junction box</li> <li>Adapter connector</li> <li>Protective conduit fitting</li> <li>Lock nut</li> <li>Protective conduit connector</li> <li>Y-distributor</li> </ul>
→ Page/online	<a href="#">mkg</a>	<a href="#">mka</a>

## Accessories

				
Type	Sealing material CRO, GWB, O, OK, OL	Pipe and tubing cutters PAN-VOS, ZDS, ZMS, ZR, ZRS	Pipe clamp PQ	Tubing accessories KK, NPAW, PB, PKB, PKS, QSO, SK
Description	<ul style="list-style-type: none"> <li>Sealing ring</li> <li>Sealing ring assortment</li> <li>Thread sealing tape</li> </ul>	<ul style="list-style-type: none"> <li>Tubing cutter</li> <li>Disconnecting pliers</li> <li>Connecting pliers</li> <li>Pipe cutter</li> <li>Pipe and tubing cutter</li> </ul>	<ul style="list-style-type: none"> <li>For pipes with an O.D. of 12 ... 28 mm</li> </ul>	<ul style="list-style-type: none"> <li>Tubing strap</li> <li>Spiral wrap for tubing</li> <li>Tubing support</li> <li>Multi-tube holder</li> </ul>
→ Page/online	<a href="#">1144</a>	<a href="#">zds</a>	<a href="#">pq</a>	<a href="#">npaw</a>



Overview/Configuration/Order

→ [www.festo.com/catalogue/tubing](http://www.festo.com/catalogue/tubing)

Additional information/Support/User documentation

→ [www.festo.com/sp/tubing](http://www.festo.com/sp/tubing)

Tubing

O.D. tubing

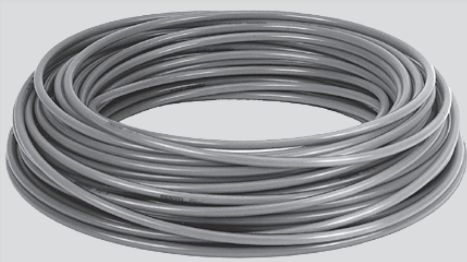
Plastic tubing, standard O.D.

# Selection aid



- + PUN: extremely flexible polyurethane tubing
- + High resistance to stress cracks
- + RoHS-compliant
- + Operating medium: compressed air, vacuum
- + Suitable for use with energy chains
  
- + PUN-H: polyurethane tubing
- + Approved for use in the food industry
- + High resistance to microbes and hydrolysis
- + Operating medium: compressed air, vacuum, water
- + Suitable for use with energy chains

# Plastic tubing



- 9 diameters, standard O.D.
- Also available as DUO plastic tubing
- Halogen-free, hydrolysis-resistant, suitable for use with energy chains, free of paint-wetting impairment substances to FN 942 010

★ Quick ordering of basic designs → 1075

→ [www.festo.com/catalogue/tubing](http://www.festo.com/catalogue/tubing)

## Features



**PUN-DUO/PUN-H-DUO:**  
Two lengths of plastic tubing are fused together into a tubing pair. For fitting, the paired tubing is separated as required at both ends.

Type	O.D. [mm]	Material	Suitable for use in the food industry	Halogen free	Suitable for use with energy chains	Approved by the German Technical Control	Resistance				Flexibility	Shore hardness
							Hydrolysis (UV)	Chemicals	Microbes	UV radiation		
PEN	4, 6, 8, 10, 12, 14, 16	PE	-	■	■	■	+++	++	++	++ <sup>1)</sup>	++	D 52 ± 3
PUN	3, 4, 6, 8, 10, 12, 14, 16	TPE-U(PU)	-	■	■	■	+	-	-	++ <sup>1)</sup>	+++	D 52 ± 3
PUN-DUO	4, 6, 8, 10	TPE-U(PU)	-	■	■	■	+	-	-	+	++	D 52 ± 3
PUN-H	2	TPE-U(PU)	-	■	■	-	++	+	++	++ <sup>1)</sup>	+++	D 52 ± 3
	3, 4, 6, 8, 10, 12, 14, 16	TPE-U(PU)	■	■	■	■	++	+	++	++ <sup>1)</sup>	+++	D 52 ± 3
PUN-H-DUO	4, 6, 8, 10	TPE-U(PU)	■	■	■	■	++	+	++	+	++	D 52 ± 3

+++ Highly suitable  
 ++ Suitable  
 + Limited suitability (on request)  
 - Not suitable

1) Applies to the colour black.

## Product range overview

Type	O.D. [mm]	Packaging unit [m]	Product options												Page/online	
			Colour													
			SI	BL	SW	GE	GN	RT	BR	WS	NT	BS	TXT	CB	HA	
PEN	4, 6, 8, 10, 12, 14, 16	50, 100, 200, 300, 400, 500	■	■	■	■	■	■	■	■	■	-	■	■	■	1071
PUN	3, 4, 6, 8, 10, 12, 14, 16	50, 100, 200, 300, 400, 500	■	■	■	■	■	■	■	■	-	-	■	■	■	1072
PUN-DUO	4, 6, 8, 10	50	■	-	-	-	-	-	-	-	-	■	-	-	-	1074
PUN-H	2	50	-	-	■	-	-	■	-	-	■	-	-	-	-	1073
	3, 4, 6, 8, 10, 12, 14, 16	50, 100, 200, 300, 400, 500	■	■	■	■	■	■	■	■	■	-	■	■	■	1074
PUN-H-DUO	4, 6, 8, 10	50	-	-	-	-	-	-	-	-	-	■	-	-	-	1074

## Product options

SI Silver	GN Green	NT Natural	25 Packaging unit 25 m
BL Blue	RT Red	BS Blue/Black	CB Cardboard box
SW Black	BR Brown	TXT Customer-specific tubing inscription (on request)	HA Reel
GE Yellow	WS White		

## Data sheet

Technical data		Download CAD data → <a href="http://www.festo.com">www.festo.com</a>						
O.D.	[mm]	4	6	8	10	12	14	16
I.D.	[mm]	2.7	4	5.7	7	8.4	9.5	10.8
Min. bending radius	[mm]	10	13.5	22.5	23.5	33	45	57.5
Bending radius relevant for flow rate	[mm]	20	26	35	40	58	80	122

## Operating conditions

Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]	
	Water as per manufacturer's declaration <sup>1)</sup>	
Temperature-dependent operating pressure	[bar]	-0.95 ... +10
Ambient temperature	[°C]	-30 ... +60

1) Additional information at [www.festo.com/sp](http://www.festo.com/sp) → User Documentation.

## Order code

PEN		-	[ ]	x	[ ]	-	[ ]	-	[ ]
<b>Type</b>									
PEN	Plastic tubing								
<b>O.D. [mm]</b>									
	<b>Wall thickness [mm]</b>								
4	0.75								
6	1								
8	1.25								
10	1.5								
12	1.75								
14	2								
16	2.5								
<b>Colour</b>									
SI	Silver	[1]							
BL	Blue	[1]							
BK	Black								
GE	Yellow	[1]							
GN	Green	[1]							
RT	Red	[1]							
NT	Natural								
<b>Packaging unit [m]</b>									
-	50								
100	100	2							
200	200	3							
300	300	4							
400	400	5							
500	500	6							

[1] Not with O.D. 14

[2] Only with O.D. 16 and colours SI, BL, SW

[3] Only with O.D. 12 and colours SI, BL, SW

[4] Only with O.D. 10 and colours SI, BL, SW

[5] Only with O.D. 8 and colours SI, BL, SW

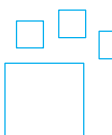
[6] Only with O.D. 4, 6 and colours SI, BL, SW

## Order example:

PEN-8x1,25-BL-400

Plastic tubing PEN - O.D. 8 mm - wall thickness 1.25 mm - colour blue - packaging unit 400 m

## Ordering – Product options

	<b>Configurable product</b>	<b>This product and all its options can be ordered using the configurator.</b>	The configurator can be found under Products on the DVD or → <a href="http://www.festo.com/catalogue/...">www.festo.com/catalogue/...</a>	Enter the type code in the search field.
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# Plastic tubing PUN

## Data sheet

Technical data		Download CAD data → <a href="http://www.festo.com">www.festo.com</a>							
O.D.	[mm]	3	4	6	8	10	12	14	16
I.D.	[mm]	2.1	2.6	4	5.7	7	8	9.8	11
Min. bending radius	[mm]	9	8	16	24	28	33	45	45
Bending radius relevant for flow rate	[mm]	12	17	26.5	37	54	62	84	88

Operating conditions	
Operating medium	Compressed air to ISO 8573-1:2010 [7:--]
Temperature-dependent operating pressure	[bar] -0.95 ... +10
Ambient temperature	[°C] -35 ... +60

## Order code

PUN -  x  -  -

Type	
PUN	Plastic tubing

O.D. [mm]	
	Wall thickness [mm]
3	0.5
4	0.75
6	1
8	1.25
10	1.5
12	2
14	2
16	2.5

Colour	
SI	Silver
BL	Blue
BK	Black
GE	Yellow <span style="border: 1px solid black; padding: 0 2px;">1</span>
GN	Green <span style="border: 1px solid black; padding: 0 2px;">1</span>
RT	Red <span style="border: 1px solid black; padding: 0 2px;">1</span>

Packaging unit [m]		
-	50	
100	100	2
200	200	3
300	300	4
400	400	5
500	500	6

- 1 Not with O.D. 14
- 2 Only with O.D. 16 and colours SI, BL, SW
- 3 Only with O.D. 12 and colours SI, BL, SW
- 4 Only with O.D. 10 and colours SI, BL, SW
- 5 Only with O.D. 8 and colours SI, BL, SW
- 6 Only with O.D. 3, 4, 6 and colours SI, BL, SW

### Order example:

PUN-14x2-SI  
 Plastic tubing PUN - O.D. 14 mm - wall thickness 2 mm - colour silver - packaging unit 50 m

## Ordering – Product options

**Configurable product**

**This product and all its options can be ordered using the configurator.**

The configurator can be found under Products on the DVD or  
 → [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...)

Enter the type code in the search field.



## Data sheet

Technical data		Download CAD data → <a href="http://www.festo.com">www.festo.com</a>								
O.D.	[mm]	2	3	4	6	8	10	12	14	16
I.D.	[mm]	1.2	2.1	2.6	4	5.7	7	8	9.8	11
Min. bending radius	[mm]	5	6	8	10	21	28	33	38	38
Bending radius relevant for flow rate	[mm]	8	12	16	26	37	52	62	78	88

Operating conditions										
O.D.	[mm]	2	3	4	6	8	10	12	14	16
Operating medium		Compressed air to ISO 8573-1:2010 [7:-:-]								
		- Water as per manufacturer's declaration <sup>1)</sup>								
Temperature-dependent operating pressure	[bar]	-0.95 ... +10								
Ambient temperature	[°C]	-35 ... +60								

1) Additional information at [www.festo.com/sp](http://www.festo.com/sp) → User Documentation.

## Order code

Type		PUN - H - [ ] x [ ] - [ ] - [ ]	
PUN	Plastic tubing		
Alternative material properties			
H	Hydrolysis-resistant		
O.D. [mm]			
	Wall thickness [mm]		
2	0.4		
3	0.5		
4	0.75		
6	1		
8	1.25		
10	1.5		
12	2		
14	2		
16	2.5		
Colour			
SI	Silver	[1]	[2]
BL	Blue	[1]	
BK	Black		
GE	Yellow	[1]	[2]
GN	Green	[1]	[2]
RT	Red	[2]	
NT	Natural		
Packaging unit [m]			
-	50		
100	100	3	
200	200	4	
300	300	5	
400	400	6	
500	500	7	

[1] Not with O.D. 2

[2] Not with O.D. 14

[3] Only with O.D. 16 and colours SI, BL, SW, NT

[4] Only with O.D. 12 and colours SI, BL, SW, NT

[5] Only with O.D. 10 and colours SI, BL, SW, NT

[6] Only with O.D. 8 and colours SI, BL, SW, NT

[7] Only with O.D. 3, 4, 6 and colours SI, BL, SW, NT

## Order example:

PUN-H-6x1-SW-500

Plastic tubing PUN, hydrolysis-resistant - O.D. 6 mm - wall thickness 1 mm - colour black - packaging unit 500 m

# DUO Plastic tubing: PUN-DUO

## Data sheet

Download CAD data → [www.festo.com](http://www.festo.com)

Technical data		PUN-DUO				PUN-H-DUO			
Type		4	6	8	10	4	6	8	10
O.D.	[mm]	4	6	8	10	4	6	8	10
I.D.	[mm]	2.6	4	5.7	7	2.6	4	5.7	7
Min. bending radius	[mm]	8	16	24	28	8	10	21	28
Bending radius relevant for flow rate	[mm]	17	26.5	37	54	16	26	37	52

Operating conditions		PUN-DUO		PUN-H-DUO	
Type					
Operating medium		Compressed air to ISO 8573-1:2010 [7:--:-]		Water as per manufacturer's declaration <sup>1)</sup>	
Temperature-dependent operating pressure	[bar]	-0.95 ... +10			
Ambient temperature	[°C]	-35 ... +60			

1) Additional information at [www.festo.com/sp](http://www.festo.com/sp) → User Documentation.

## Order code

PUN -  -  x  - DUO -

Type	
PUN	Plastic tubing

Alternative material properties	
-	Standard
H	Hydrolysis-resistant

O.D. [mm]	
	Wall thickness [mm]
4	0.75
6	1
8	1.25
10	1.5

Tubing type	
DUO	DUO tubing

Colour	
PUN	
SI	Silver
BS	Blue/Black
PUN-H	
-	Blue/Black

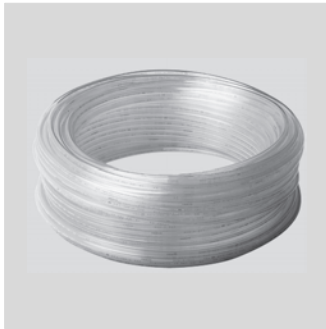
### Order example:

PUN-H-6x1-DUO

Plastic tubing PUN, hydrolysis-resistant - O.D. 6 mm - wall thickness 1 mm - duo tubing - colour blue/black

★ Quick ordering<sup>1)</sup>

## PUN/PUN-H



O.D. [mm]	I.D. [mm]	Min. bending radius [mm]	Bending ra- dius relevant for flow rate [mm]	Colour	Part no.	Type	PU <sup>2)</sup>
<b>PUN</b>							
3	2.1	9	21	Silver	152583	PUN-3x0,5-SI	50
				Blue	159660	PUN-3x0,5-BL	50
				Black	159661	PUN-3x0,5-SW	50
4	2.6	8	17	Silver	152584	PUN-4x0,75-SI	50
				Blue	159662	PUN-4x0,75-BL	50
				Black	159663	PUN-4x0,75-SW	50
6	4	16	26.5	Silver	152586	PUN-6x1-SI	50
				Blue	159664	PUN-6x1-BL	50
				Black	159665	PUN-6x1-SW	50
8	5.7	24	37	Silver	152587	PUN-8x1,25-SI	50
				Blue	159666	PUN-8x1,25-BL	50
				Black	159667	PUN-8x1,25-SW	50
10	7	28	54	Silver	152588	PUN-10x1,5-SI	50
				Blue	159668	PUN-10x1,5-BL	50
				Black	159669	PUN-10x1,5-SW	50
12	8	33	62	Silver	152589	PUN-12x2-SI	50
				Blue	159670	PUN-12x2-BL	50
				Black	159671	PUN-12x2-SW	50
14	9.8	45	84	Silver	570389	PUN-14x2-SI	50
				Blue	570390	PUN-14x2-BL	50
				Black	570391	PUN-14x2-SW	50
16	11	45	88	Silver	152590	PUN-16x2,5-SI	50
				Blue	159672	PUN-16x2,5-BL	50
				Black	159673	PUN-16x2,5-SW	50
<b>PUN-H, hydrolysis-resistant</b>							
2	1.2	5	8	Black	133039	PUN-H-2x0,4-SW	50
3	2.1	6	12	Blue	197382	PUN-H-3x0,5-BL	50
				Black	197389	PUN-H-3x0,5-SW	50
				Silver	558277	PUN-H-3x0,5-SI	50
4	2.6	8	16	Blue	197383	PUN-H-4x0,75-BL	50
				Black	197390	PUN-H-4x0,75-SW	50
				Silver	558278	PUN-H-4x0,75-SI	50
6	4	10	26	Blue	197384	PUN-H-6x1-BL	50
				Black	197391	PUN-H-6x1-SW	50
				Silver	558279	PUN-H-6x1-SI	50
8	5.7	21	37	Blue	197385	PUN-H-8x1,25-BL	50
				Black	197392	PUN-H-8x1,25-SW	50
				Silver	558280	PUN-H-8x1,25-SI	50
10	7	28	52	Blue	197386	PUN-H-10x1,5-BL	50
				Black	197393	PUN-H-10x1,5-SW	50
				Silver	558281	PUN-H-10x1,5-SI	50
12	8	33	62	Blue	197387	PUN-H-12x2-BL	50
				Black	197394	PUN-H-12x2-SW	50
				Silver	558282	PUN-H-12x2-SI	50
14	9.8	38	78	Blue	570386	PUN-H-14x2-BL	50
				Black	570387	PUN-H-14x2-SW	50
16	11	38	88	Blue	197388	PUN-H-16x2,5-BL	50
				Black	197395	PUN-H-16x2,5-SW	50
				Silver	558283	PUN-H-16x2,5-SI	50

1) All products in this table are easy to select and quick to order.

2) Packaging unit in metres



Overview/Configuration/Ordering  
→ [www.festo.com/catalogue/npqh](http://www.festo.com/catalogue/npqh)



Additional information/Support/User documentation  
→ [www.festo.com/sp/npqh](http://www.festo.com/sp/npqh)

Fittings  
Push-in fittings

Push-in fitting

# NPQH



- + All metal push-in fitting made of chemically nickel-plated brass
- + High corrosion and chemical resistance
- + Approved for use in the food and packaging industry
- + For pneumatic applications with a temperature range up to 150°C and a pressure range up to 20 bar



- Metal push-in fittings for pneumatic applications with a temperature range up to 150 °C and a pressure range up to 20 bar
- Housing made from nickel-plated brass
- High corrosion and chemical resistance
- Suitable for use with water as an operating medium
- Push-in bulkhead fitting

→ [www.festo.com/catalogue/npqh](http://www.festo.com/catalogue/npqh)

## Product range overview

Type	Version	Design	Pneumatic connection 1				Pneumatic connection 2		→ Page/ online
			M-thread	G-thread	Tubing O.D.	Push-in sleeve	Tubing O.D.	Push-in sleeve	
NPQH-D	Push-in fitting	Straight	■	■	–	–	■	–	1078
	Push-in fitting		■	■	–	–	–	■	1079
	Push-in connector		–	–	■	–	■	–	
	Push-in connector		–	–	■	–	–	■	
	Push-in sleeve		–	–	–	■	–	■	1080
NPQH-DK	Push-in fitting		■	–	–	–	■	–	
NPQH-H	Push-in bulkhead fitting		–	■	–	–	■	–	1081
	Push-in bulkhead connector		–	–	■	–	■	–	
NPQH-P	Blanking plug		–	–	–	■	–	–	
NPQH-BK	Plug screw		■	■	–	–	–	–	
NPQH-L	Push-in fitting	L-shape	■	■	–	–	■	–	1082
	Push-in connector		–	–	■	–	■	–	
NPQH-T	Push-in fitting	T-shape	■	■	–	–	■	–	1083
	Push-in connector		–	–	■	–	■	–	
NPQH-Y	Push-in connector	Y-shape	–	–	■	–	■	–	

## Technical data

Operating conditions	
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-] Water as per manufacturer's declaration <sup>1)</sup>
Note on operating/pilot medium	Lubricated operation possible
Operating pressure for entire temperature range [bar]	–0.95 ... +20
Ambient temperature [°C]	0 ... +150

1) Additional information at [www.festo.com/sp](http://www.festo.com/sp) → User Documentation.

Materials	
Housing	Nickel-plated brass
Tubing seal	Fluoro elastomer

# Push-in fittings NPQH

## Ordering data

### Push-in fitting NPQH-D

Male thread with internal/external hex



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>1)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>Metric thread with sealing ring</b>					
M5	4	2.5	578334	NPQH-D-M5-Q4-P10	10
	6	2.5	578335	NPQH-D-M5-Q6-P10	10
M7	4	3	578336	NPQH-D-M7-Q4-P10	10
	6	3	578337	NPQH-D-M7-Q6-P10	10
<b>G thread with sealing ring</b>					
G <sup>1</sup> / <sub>8</sub>	4	3	578338	NPQH-D-G18-Q4-P10	10
	6	4	578339	NPQH-D-G18-Q6-P10	10
	8	6	578340	NPQH-D-G18-Q8-P10	10
G <sup>1</sup> / <sub>4</sub>	6	4	578341	NPQH-D-G14-Q6-P10	10
	8	6	578342	NPQH-D-G14-Q8-P10	10
	10	8	578343	NPQH-D-G14-Q10-P10	10
	12	8	578344	NPQH-D-G14-Q12-P10	10
G <sup>3</sup> / <sub>8</sub>	8	6	578345	NPQH-D-G38-Q8-P10	10
	10	8	578346	NPQH-D-G38-Q10-P10	10
	12	10	578347	NPQH-D-G38-Q12-P10	10
	14	10	578348	NPQH-D-G38-Q14-P10	10
G <sup>1</sup> / <sub>2</sub>	10	8	578349	NPQH-D-G12-Q10	1
	12	10	578350	NPQH-D-G12-Q12	1
	14	12	578351	NPQH-D-G12-Q14	1

### Push-in fitting NPQH-D

Female thread with external hex



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>1)</sup>
1	2				
Female thread	Tubing O.D. [mm]	[mm]			
G <sup>1</sup> / <sub>8</sub>	4	3	578352	NPQH-D-G18F-Q4-P10	10
	6	5	578353	NPQH-D-G18F-Q6-P10	10
	8	7	578354	NPQH-D-G18F-Q8-P10	10
G <sup>1</sup> / <sub>4</sub>	4	3	578355	NPQH-D-G14F-Q4-P10	10
	6	5	578356	NPQH-D-G14F-Q6-P10	10
	8	7	578357	NPQH-D-G14F-Q8-P10	10

<sup>1)</sup> Packaging unit per part

## Ordering data

Push-in fitting NPQH-D  
with push-in sleeve

Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 External thread	2 Push-in sleeve				
<b>Metric thread with sealing ring</b>					
M5	QS-4	2.5	578358	NPQH-D-M5-S4-P10	10
	QS-6	2.5	578359	NPQH-D-M5-S6-P10	10
<b>G thread with sealing ring</b>					
G <sup>3</sup> / <sub>8</sub>	QS-4	2.5	578360	NPQH-D-G18-S4-P10	10
	QS-6	4	578361	NPQH-D-G18-S6-P10	10
	QS-8	6	578362	NPQH-D-G18-S8-P10	10
G <sup>1</sup> / <sub>4</sub>	QS-6	4	578363	NPQH-D-G14-S6-P10	10
	QS-8	6	578364	NPQH-D-G14-S8-P10	10
	QS-10	8	578365	NPQH-D-G14-S10-P10	10
	QS-12	8.5	578366	NPQH-D-G14-S12-P10	10
G <sup>3</sup> / <sub>8</sub>	QS-10	8	578367	NPQH-D-G38-S10-P10	10
	QS-12	10	578368	NPQH-D-G38-S12-P10	10
G <sup>1</sup> / <sub>2</sub>	QS-12	10	578369	NPQH-D-G12-S12	1

## Push-in connector NPQH-D



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	3	578323	NPQH-D-Q4-E-P10	10
6	6	5	578324	NPQH-D-Q6-E-P10	10
8	8	7	578325	NPQH-D-Q8-E-P10	10
10	10	9	578326	NPQH-D-Q10-E-P10	10
12	12	11	578327	NPQH-D-Q12-E-P10	10
14	14	13	578328	NPQH-D-Q14-E-P10	10
<b>Reducing</b>					
6	4	3	578329	NPQH-D-Q6-Q4-P10	10
8	6	5	578330	NPQH-D-Q8-Q6-P10	10
12	8	7	578331	NPQH-D-Q12-Q8-P10	10
14	10	9	578332	NPQH-D-Q14-Q10-P10	10
14	12	11	578333	NPQH-D-Q14-Q12-P10	10

Push-in connector NPQH-D  
with push-in sleeve

Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Push-in sleeve				
4	QS-6	3	578304	NPQH-D-S6-Q4-P10	10
	QS-8	3.5	578305	NPQH-D-S8-Q4-P10	10
	QS-10	3.5	578307	NPQH-D-S10-Q4-P10	10
6	QS-8	5	578306	NPQH-D-S8-Q6-P10	10
	QS-10	5.5	578308	NPQH-D-S10-Q6-P10	10
	QS-12	5.5	578310	NPQH-D-S12-Q6-P10	10
	QS-14	5	578313	NPQH-D-S14-Q6-P10	10
8	QS-10	7	578309	NPQH-D-S10-Q8-P10	10
	QS-12	7	578311	NPQH-D-S12-Q8-P10	10
	QS-14	7	578314	NPQH-D-S14-Q8-P10	10
10	QS-12	9	578312	NPQH-D-S12-Q10-P10	10
	QS-14	9	578315	NPQH-D-S14-Q10-P10	10
12	QS-14	11	578316	NPQH-D-S14-Q12-P10	10

1) Packaging unit per part

# Push-in fittings NPQH

## Ordering data

### Push-in sleeve NPQH-D



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>1)</sup>
1					
Push-in sleeve		[mm]			
QS-4		2	578317	NPQH-D-S4-E-P10	10
QS-6		4	578318	NPQH-D-S6-E-P10	10
QS-8		6	578319	NPQH-D-S8-E-P10	10
QS-10		8	578320	NPQH-D-S10-E-P10	10
QS-12		10	578321	NPQH-D-S12-E-P10	10
QS-14		12	578322	NPQH-D-S14-E-P10	10

### Push-in fitting NPQH-DK

Male thread with internal hex



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>1)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
Metric thread with sealing ring					
M5	4	2.5	578370	NPQH-DK-M5-Q4-P10	10
	6	2.5	578371	NPQH-DK-M5-Q6-P10	10
M7	4	3	578372	NPQH-DK-M7-Q4-P10	10
	6	3	578373	NPQH-DK-M7-Q6-P10	10
G thread with sealing ring					
G <sup>1</sup> / <sub>8</sub>	4	3	578374	NPQH-DK-G18-Q4-P10	10
	6	4	578375	NPQH-DK-G18-Q6-P10	10
	8	6	578376	NPQH-DK-G18-Q8-P10	10
G <sup>1</sup> / <sub>4</sub>	8	6	578377	NPQH-DK-G14-Q8-P10	10
	10	8.2	578378	NPQH-DK-G14-Q10-P10	10
G <sup>3</sup> / <sub>8</sub>	12	10.2	578379	NPQH-DK-G38-Q12-P10	10

<sup>1)</sup> Packaging unit per part



## Ordering data

### Push-in bulkhead fitting NPQH-H

Female thread with external hex



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>1)</sup>
1	2				
Female thread	Tubing O.D. [mm]	[mm]			
<b>G thread with sealing ring</b>					
G <sup>1</sup> / <sub>8</sub>	4	3	578294	NPQH-H-G18F-Q4-P10	10
	6	5	578295	NPQH-H-G18F-Q6-P10	10
	8	7	578296	NPQH-H-G18F-Q8-P10	10
G <sup>1</sup> / <sub>4</sub>	6	5	578297	NPQH-H-G14F-Q6-P10	10
	8	7	578298	NPQH-H-G14F-Q8-P10	10

### Push-in bulkhead connector NPQH-H



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>1)</sup>
1	2				
Tubing O.D. [mm]	Tubing O.D. [mm]	[mm]			
4	4	3	578299	NPQH-H-Q4-E-P10	10
6	6	5	578300	NPQH-H-Q6-E-P10	10
8	8	7	578301	NPQH-H-Q8-E-P10	10
10	10	9	578302	NPQH-H-Q10-E-P10	10
12	12	11	578303	NPQH-H-Q12-E-P10	10

### Blanking plug NPQH-P



Pneumatic connection	Part no.	Type	PU <sup>1)</sup>
1			
Push-in sleeve			
QS-4	578257	NPQH-P-S4-P10	10
QS-6	578258	NPQH-P-S6-P10	10
QS-8	578259	NPQH-P-S8-P10	10
QS-10	578260	NPQH-P-S10-P10	10
QS-12	578261	NPQH-P-S12-P10	10
QS-14	578262	NPQH-P-S14-P10	10

### Plug screw NPQH-BK



Pneumatic connection	Part no.	Type	PU <sup>1)</sup>
1			
<b>Metric thread with sealing ring</b>			
M5	578404	NPQH-BK-M5-P10	10
M7	578405	NPQH-BK-M7-P10	10
<b>G thread with sealing ring</b>			
G <sup>1</sup> / <sub>8</sub>	578406	NPQH-BK-G18-P10	10
G <sup>1</sup> / <sub>4</sub>	578407	NPQH-BK-G14-P10	10
G <sup>3</sup> / <sub>8</sub>	578408	NPQH-BK-G38-P10	10
G <sup>1</sup> / <sub>2</sub>	578409	NPQH-BK-G12	1

<sup>1)</sup> Packaging unit per part

# Push-in fittings NPQH

## Ordering data

### Push-in L-fitting NPQH-L

Rotatable, male thread with external hex



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>1)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>Metric thread with sealing ring</b>					
M5	4	3	578276	NPQH-L-M5-Q4-P10	10
	6	3.5	578277	NPQH-L-M5-Q6-P10	10
M7	4	3	578278	NPQH-L-M7-Q4-P10	10
	6	4	578279	NPQH-L-M7-Q6-P10	10
<b>G thread with sealing ring</b>					
G $\frac{1}{8}$	4	3	578280	NPQH-L-G18-Q4-P10	10
	6	5	578281	NPQH-L-G18-Q6-P10	10
	8	5.5	578282	NPQH-L-G18-Q8-P10	10
G $\frac{1}{4}$	6	5	578283	NPQH-L-G14-Q6-P10	10
	8	5.5	578284	NPQH-L-G14-Q8-P10	10
	10	8.5	578285	NPQH-L-G14-Q10-P10	10
	12	11	578286	NPQH-L-G14-Q12-P10	10
G $\frac{3}{8}$	8	6	578287	NPQH-L-G38-Q8-P10	10
	10	8.5	578288	NPQH-L-G38-Q10-P10	10
	12	11	578289	NPQH-L-G38-Q12-P10	10
	14	12	578290	NPQH-L-G38-Q14-P10	10
G $\frac{1}{2}$	10	8.5	578291	NPQH-L-G12-Q10	1
	12	11	578292	NPQH-L-G12-Q12	1
	14	12	578293	NPQH-L-G12-Q14	1

### Push-in L-fitting (long) NPQH-LL

Rotatable, male thread with external hex



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>1)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>G thread with sealing ring</b>					
G $\frac{1}{8}$	4	3	578263	NPQH-LL-G18-Q4-P10	10
	6	5	578264	NPQH-LL-G18-Q6-P10	10
	8	6	578265	NPQH-LL-G18-Q8-P10	10
G $\frac{1}{4}$	6	5	578266	NPQH-LL-G14-Q6-P10	10
	8	6	578267	NPQH-LL-G14-Q8-P10	10
	10	8.5	578268	NPQH-LL-G14-Q10-P10	10
G $\frac{3}{8}$	10	8.5	578269	NPQH-LL-G38-Q10-P10	10

### Push-in L-connector NPQH-L



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>1)</sup>
1	2				
Tubing O.D. [mm]	Tubing O.D. [mm]	[mm]			
4	4	3	578270	NPQH-L-Q4-E-P10	10
6	6	5	578271	NPQH-L-Q6-E-P10	10
8	8	7	578272	NPQH-L-Q8-E-P10	10
10	10	9	578273	NPQH-L-Q10-E-P10	10
12	12	11	578274	NPQH-L-Q12-E-P10	10
14	14	12	578275	NPQH-L-Q14-E-P10	10

1) Packaging unit per part

## Ordering data

## Push-in T-fitting NPQH-T

Rotatable, male thread with external hex



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
<b>Metric thread with sealing ring</b>					
M5	4	3	578390	NPQH-T-M5-Q4-P10	10
	6	3	578391	NPQH-T-M5-Q6-P10	10
<b>G thread with sealing ring</b>					
G <sup>3</sup> / <sub>8</sub>	4	3	578392	NPQH-T-G18-Q4-P10	10
	6	5	578393	NPQH-T-G18-Q6-P10	10
	8	5.5	578394	NPQH-T-G18-Q8-P10	10
G <sup>1</sup> / <sub>4</sub>	6	5	578395	NPQH-T-G14-Q6-P10	10
	8	5.5	578396	NPQH-T-G14-Q8-P10	10
	10	8.5	578397	NPQH-T-G14-Q10-P10	10
	12	11	578398	NPQH-T-G14-Q12-P10	10
G <sup>3</sup> / <sub>8</sub>	8	6	578399	NPQH-T-G38-Q8-P10	10
	10	8.5	578400	NPQH-T-G38-Q10-P10	10
	12	11	578401	NPQH-T-G38-Q12-P10	10
G <sup>1</sup> / <sub>2</sub>	10	8.5	578402	NPQH-T-G12-Q10	1
	12	11	578403	NPQH-T-G12-Q12	1

## Push-in T-connector NPQH-T



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	3	578380	NPQH-T-Q4-E-P10	10
6	6	5	578381	NPQH-T-Q6-E-P10	10
8	8	7	578382	NPQH-T-Q8-E-P10	10
10	10	9	578383	NPQH-T-Q10-E-P10	10
12	12	11	578384	NPQH-T-Q12-E-P10	10
14	14	12	578385	NPQH-T-Q14-E-P10	10
<b>Reducing</b>					
6	4	3	578386	NPQH-T-Q6-Q4-P10	10
8	6	5	578387	NPQH-T-Q8-Q6-P10	10
10	8	7	578388	NPQH-T-Q10-Q8-P10	10
12	10	9	578389	NPQH-T-Q12-Q10-P10	10

## Push-in Y-connector NPQH-Y



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
6	6	5.5	578410	NPQH-Y-Q6-E-P10	10
8	8	7.5	578411	NPQH-Y-Q8-E-P10	10
10	10	9.5	578412	NPQH-Y-Q10-E-P10	10
<b>Reducing</b>					
6	4	3.5	578413	NPQH-Y-Q6-Q4-P10	10
8	6	5.5	578414	NPQH-Y-Q8-Q6-P10	10
10	8	7.5	578415	NPQH-Y-Q10-Q8-P10	10

1) Packaging unit per part



Overview/Configuration/Ordering  
→ [www.festo.com/catalogue/npqm](http://www.festo.com/catalogue/npqm)



Additional information/Support/User documentation  
→ [www.festo.com/sp/npqm](http://www.festo.com/sp/npqm)

Fittings  
Push-in fittings

# NPQM



- + Standard series
- + Attractively priced metal push-in fitting
- + Male or female thread with external or internal hex
- + Suitable for use with water as an operating medium



- Attractively priced metal push-in fittings for pneumatic applications with a temperature range up to 70 °C and a pressure range up to 16 bar
- Brass housing
- Suitable for use with water as an operating medium
- Male thread with external hex
- Push-in bulkhead connector

→ [www.festo.com/catalogue/npqm](http://www.festo.com/catalogue/npqm)

## Product range overview

Type	Version	Design	Pneumatic connection 1				Pneumatic connection 2		→ Page/ online
			M-thread	G-thread	Tubing O.D.	Push-in sleeve	Tubing O.D.	Push-in sleeve	
NPQM-D	Push-in fitting	Straight	–	■	–	–	■	–	1086
	Push-in connector		–	–	■	–	■	–	
	Push-in connector		–	–	■	–	–	■	1087
	Push-in sleeve		–	–	–	■	–	–	
NPQM-DK	Push-in fitting		■	–	–	■	–		
NPQM-H	Push-in bulkhead connector		–	–	■	–	■	–	
NPQM-L	Push-in fitting	L-shape	■	■	–	–	■	–	1088
	Push-in connector		–	–	■	–	■	–	
	Push-in connector		–	–	■	–	–	■	
NPQM-LH	Push-in fitting		■	■	–	–	■	–	1089
NPQM-LK	Push-in fitting		■	■	–	–	■	–	
NPQM-LFK	Multiple distributor	F-shape	–	■	–	–	■	–	
NPQM-T	Push-in fitting	T-shape	–	■	–	–	■	–	1090
	Push-in connector		–	–	■	–	■	–	
	Push-in connector		–	–	■	–	–	■	
NPQM-Y	Push-in connector	Y-shape	–	–	■	–	■	–	

## Data sheet

Operating conditions	
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-] Water as per manufacturer's declaration <sup>1)</sup>
Note on operating/pilot medium	Operation with lubricated medium possible
Operating pressure for entire temperature range [bar]	–0.95 ... +16
Ambient temperature [°C]	–20 ... +70

1) Additional information at [www.festo.com/sp](http://www.festo.com/sp) → User Documentation.

Materials	
Housing	Nickel-plated brass
Tubing seal	Nitrile rubber

# Push-in fittings NPQM, metal, standard

## Ordering data

### Push-in fitting NPQM-D

Male thread with internal/external hex



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
<b>G-thread with sealing ring</b>					
G <sup>1</sup> / <sub>8</sub>	4	3	558661	NPQM-D-G18-Q4-P10	10
	6	4	558662	NPQM-D-G18-Q6-P10	10
	8	6	558663	NPQM-D-G18-Q8-P10	10
G <sup>1</sup> / <sub>4</sub>	6	4	558664	NPQM-D-G14-Q6-P10	10
	8	6	558665	NPQM-D-G14-Q8-P10	10
	10	8	558666	NPQM-D-G14-Q10-P10	10
	12	8	558667	NPQM-D-G14-Q12-P10	10
G <sup>3</sup> / <sub>8</sub>	8	6	558668	NPQM-D-G38-Q8-P10	10
	10	8	558669	NPQM-D-G38-Q10-P10	10
	12	10	558670	NPQM-D-G38-Q12-P10	10
	14	10	570450	NPQM-D-G38-Q14-P10	1
G <sup>1</sup> / <sub>2</sub>	10	8	558671	NPQM-D-G12-Q10-P10	10
	12	10	558672	NPQM-D-G12-Q12-P10	10
	14	12	570451	NPQM-D-G12-Q14-P10	1

### Push-in fitting NPQM-D

Female thread with external hex



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Female thread	2 Tubing O.D. [mm]				
G <sup>1</sup> / <sub>8</sub>	4	3	558674	NPQM-D-G18F-Q4-P10	10
	6	5	558675	NPQM-D-G18F-Q6-P10	10
	8	7	558676	NPQM-D-G18F-Q8-P10	10
G <sup>1</sup> / <sub>4</sub>	6	5	558678	NPQM-D-G14F-Q6-P10	10
	8	7	558679	NPQM-D-G14F-Q8-P10	10
	10	9	558680	NPQM-D-G14F-Q10-P10	10

### Push-in connector NPQM-D



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	3	558760	NPQM-D-Q4-E-P10	10
6	6	5	558761	NPQM-D-Q6-E-P10	10
8	8	7	558762	NPQM-D-Q8-E-P10	10
10	10	9	558763	NPQM-D-Q10-E-P10	10
12	12	11	558764	NPQM-D-Q12-E-P10	10
14	14	13	570452	NPQM-D-Q14-E-P10	1

<sup>1)</sup> Packaging unit per part

## Ordering data

Push-in connector NPQM-D  
with push-in sleeve

Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Push-in sleeve				
4	QS-6	3	558765	NPQM-D-Q4-S6-P10	10
	QS-8	3.5	558766	NPQM-D-Q4-S8-P10	10
6	QS-4	2.5	558767	NPQM-D-Q6-S4-P10	10
	QS-8	5	558768	NPQM-D-Q6-S8-P10	10
	QS-10	5.5	558769	NPQM-D-Q6-S10-P10	10
	QS-12	5.5	558770	NPQM-D-Q6-S12-P10	10
	QS-14	5	570457	NPQM-D-Q6-S14-P10	1
8	QS-6	4	558771	NPQM-D-Q8-S6-P10	10
	QS-10	7	558772	NPQM-D-Q8-S10-P10	10
	QS-12	7	558773	NPQM-D-Q8-S12-P10	10
	QS-14	7	570458	NPQM-D-Q8-S14-P10	1
10	QS-12	9	558774	NPQM-D-Q10-S12-P10	10
	QS-14	9	570456	NPQM-D-Q10-S14-P10	1
12	QS-14	11	570459	NPQM-D-Q12-S14-P10	1

## Push-in sleeve NPQM-D



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Push-in sleeve	2				
QS-4		2	558811	NPQM-D-S4-E-P10	10
QS-6		4	558812	NPQM-D-S6-E-P10	10
QS-8		6	558813	NPQM-D-S8-E-P10	10
QS-10		8	558814	NPQM-D-S10-E-P10	10
QS-12		10	558815	NPQM-D-S12-E-P10	10
QS-14		12	570455	NPQM-D-S14-E-P10	1

Push-in fitting NPQM-DK  
Male thread with internal hex

Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
Metric thread with sealing ring					
M5	4	2.5	558657	NPQM-DK-M5-Q4-P10	10
	6	2.5	558658	NPQM-DK-M5-Q6-P10	10
M7	4	3	558659	NPQM-DK-M7-Q4-P10	10
	6	3	558660	NPQM-DK-M7-Q6-P10	10

## Push-in bulkhead connector NPQM-H



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	3	558806	NPQM-H-Q4-E-P10	10
6	6	5	558807	NPQM-H-Q6-E-P10	10
8	8	7	558808	NPQM-H-Q8-E-P10	10
10	10	9	558809	NPQM-H-Q10-E-P10	10
12	12	11	558810	NPQM-H-Q12-E-P10	10

1) Packaging unit per part

# Push-in fittings NPQM, metal, standard

## Ordering data

### Push-in L-fitting NPQM-L

Male thread with external hex, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
<b>Metric thread with sealing ring</b>					
M5	4	3	558704	NPQM-L-M5-Q4-P10	10
	6	3.5	558705	NPQM-L-M5-Q6-P10	10
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	3	558708	NPQM-L-G18-Q4-P10	10
	6	5	558709	NPQM-L-G18-Q6-P10	10
	8	5.5	558710	NPQM-L-G18-Q8-P10	10
G $\frac{1}{4}$	6	5	558711	NPQM-L-G14-Q6-P10	10
	8	5.5	558712	NPQM-L-G14-Q8-P10	10
	10	8.5	558713	NPQM-L-G14-Q10-P10	10
	12	11	558714	NPQM-L-G14-Q12-P10	10
G $\frac{3}{8}$	8	6	558715	NPQM-L-G38-Q8-P10	10
	10	8.5	558716	NPQM-L-G38-Q10-P10	10
	12	11	558717	NPQM-L-G38-Q12-P10	10
	14	12	570460	NPQM-L-G38-Q14-P10	1
G $\frac{1}{2}$	10	8.5	558718	NPQM-L-G12-Q10-P10	10
	12	11	558719	NPQM-L-G12-Q12-P10	10
	14	12	570461	NPQM-L-G12-Q14-P10	1

### Push-in L-connector NPQM-L



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	3	558776	NPQM-L-Q4-E-P10	10
6	6	5	558777	NPQM-L-Q6-E-P10	10
8	8	7	558778	NPQM-L-Q8-E-P10	10
10	10	9	558779	NPQM-L-Q10-E-P10	10
12	12	11	558780	NPQM-L-Q12-E-P10	10
14	14	12	570453	NPQM-L-Q14-E-P10	1

### Push-in L-connector NPQM-L

with push-in sleeve



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Push-in sleeve				
4	QS-4	3	558781	NPQM-L-Q4-S4-P10	10
6	QS-6	5	558782	NPQM-L-Q6-S6-P10	10
8	QS-8	5.5	558783	NPQM-L-Q8-S8-P10	10
10	QS-10	8.5	558784	NPQM-L-Q10-S10-P10	10

1) Packaging unit per part



## Ordering data

### Push-in L-fitting NPQM-LH

Male thread with external hex, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
<b>Metric thread with sealing ring</b>					
M5	4	3	558827	NPQM-LH-M5-Q4-P10	10
	6	3.5	558828	NPQM-LH-M5-Q6-P10	10
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	3	558829	NPQM-LH-G18-Q4-P10	10
	6	5	558830	NPQM-LH-G18-Q6-P10	10
	8	6.5	558831	NPQM-LH-G18-Q8-P10	10
G $\frac{1}{4}$	6	5	558832	NPQM-LH-G14-Q6-P10	10
	8	6.5	558833	NPQM-LH-G14-Q8-P10	10
G $\frac{3}{8}$	8	7	558834	NPQM-LH-G38-Q8-P10	10
	10	8.5	558835	NPQM-LH-G38-Q10-P10	10
	12	10.5	558836	NPQM-LH-G38-Q12-P10	10

### Push-in L-fitting NPQM-LK

Male thread with internal hex, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
<b>Metric thread with sealing ring</b>					
M5	3	2	558816	NPQM-LK-M5-Q3-P10	10
	4	2	558817	NPQM-LK-M5-Q4-P10	10
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	4	558818	NPQM-LK-G18-Q4-P10	10
	6	4	558819	NPQM-LK-G18-Q6-P10	10
	8	4	558820	NPQM-LK-G18-Q8-P10	10
G $\frac{1}{4}$	6	5.5	558821	NPQM-LK-G14-Q6-P10	10
	8	5.5	558822	NPQM-LK-G14-Q8-P10	10
	10	5.5	558823	NPQM-LK-G14-Q10-P10	10
G $\frac{3}{8}$	10	7	558825	NPQM-LK-G38-Q10-P10	10

### Multiple distributor NPQM-LFK

Male thread with internal hex, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	4	558837	NPQM-LFK-G18-Q4-P10	10
	6	4	558838	NPQM-LFK-G18-Q6-P10	10
	8	4	558839	NPQM-LFK-G18-Q8-P10	10
G $\frac{1}{4}$	6	5.5	558840	NPQM-LFK-G14-Q6-P10	10
	8	5.5	558841	NPQM-LFK-G14-Q8-P10	10

<sup>1)</sup> Packaging unit per part

# Push-in fittings NPQM, metal, standard

FESTO

## Ordering data

### Push-in T-fitting NPQM-T

Male thread with external hex, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
<b>G-thread with sealing ring</b>					
G <sup>1</sup> / <sub>8</sub>	4	3	558736	NPQM-T-G18-Q4-P10	10
	6	5	558737	NPQM-T-G18-Q6-P10	10
	8	5.5	558738	NPQM-T-G18-Q8-P10	10
G <sup>1</sup> / <sub>4</sub>	6	5	558739	NPQM-T-G14-Q6-P10	10
	8	5.5	558740	NPQM-T-G14-Q8-P10	10
	10	8.5	558741	NPQM-T-G14-Q10-P10	10
G <sup>3</sup> / <sub>8</sub>	8	6	558743	NPQM-T-G38-Q8-P10	10
	10	8.5	558744	NPQM-T-G38-Q10-P10	10
	12	11	558745	NPQM-T-G38-Q12-P10	10
G <sup>1</sup> / <sub>2</sub>	12	11	558747	NPQM-T-G12-Q12-P10	10

### Push-in T-connector NPQM-T



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	3	558786	NPQM-T-Q4-E-P10	10
6	6	5	558787	NPQM-T-Q6-E-P10	10
8	8	7	558788	NPQM-T-Q8-E-P10	10
10	10	9	558789	NPQM-T-Q10-E-P10	10
12	12	11	558790	NPQM-T-Q12-E-P10	10
14	14	12	570454	NPQM-T-Q14-E-P10	1

### Push-in T-connector NPQM-T

with push-in sleeve



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Push-in sleeve				
4	QS-4	3	558791	NPQM-T-Q4-S4-P10	10
6	QS-6	5	558792	NPQM-T-Q6-S6-P10	10
8	QS-8	5.5	558793	NPQM-T-Q8-S8-P10	10
10	QS-10	8.5	558794	NPQM-T-Q10-S10-P10	10

### Push-in Y-connector NPQM-Y



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	3.5	558798	NPQM-Y-Q4-E-P10	10
6	6	5.5	558799	NPQM-Y-Q6-E-P10	10
8	8	7.5	558800	NPQM-Y-Q8-E-P10	10
10	10	9.5	558801	NPQM-Y-Q10-E-P10	10
12	12	11.5	558802	NPQM-Y-Q12-E-P10	10
<b>Reducing</b>					
6	4	3.5	558803	NPQM-Y-Q6-Q4-P10	10
8	6	5.5	558804	NPQM-Y-Q8-Q6-P10	10
10	8	7.5	558805	NPQM-Y-Q10-Q8-P10	10

1) Packaging unit per part



Overview/Configuration/Ordering  
→ [www.festo.com/catalogue/npqp](http://www.festo.com/catalogue/npqp)



Additional information/Support/User documentation  
→ [www.festo.com/sp/npqp](http://www.festo.com/sp/npqp)

Fittings  
Push-in fittings

# NPQP



- + Low-cost alternative to stainless steel: resistant to most cleaning agents in combination with tubing PLN
- + Polypropylene fitting for use in extreme media conditions
- + Suitable for use in the food industry

# Push-in fittings NPQP, media-resistant



- Low-cost alternative to stainless steel: resistant to most cleaning agents in combination with tubing PLN
- Housing made from polypropylene
- Male thread with external hex
- Push-in bulkhead connector

→ [www.festo.com/catalogue/npqp](http://www.festo.com/catalogue/npqp)

## Product range overview

Type	Version	Design	Pneumatic connection 1			Pneumatic connection 2		→ Page/ online
			R-thread	Tubing O.D.	Push-in sleeve	Tubing O.D.	Push-in sleeve	
NPQP-D	Push-in fitting	Straight	■	–	–	■	–	1093
	Push-in connector		–	■	–	■	–	
	Push-in connector		–	■	–	–	■	
NPQP-H	Push-in bulkhead connector		–	■	–	■	–	
NPQP-P	Blanking plug		–	–	■	–	–	1094
NPQP-L	Push-in fitting	L-shape	■	–	–	■	–	1095
	Push-in connector		–	■	–	■	–	
NPQP-T	Push-in fitting	T-shape	■	–	–	■	–	1095
	Push-in connector		–	■	–	■	–	
NPQP-Y	Push-in fitting	Y-shape	■	–	–	■	–	1096
	Push-in connector		–	■	–	■	–	

## Data sheet

Operating conditions	
Operating medium	Compressed air to ISO 8573-1:2010 [7:--:--]
Note on operating/pilot medium	Lubricated operation possible
Temperature-dependent operating pressure [bar]	–0.95 ... +10
Ambient temperature [°C]	–20 ... +60 Extended temperature range on request
Materials	
Housing	PP
Tube retaining claw	High-alloy stainless steel

### Note

Leaks can occur with large temperature fluctuations due to the high expansion coefficient of polypropylene in combination with the R-thread.

To avoid this, it is recommended to seal the thread with Loctite®55 thread sealing tape.

## Ordering data

### Push-in fitting NPQP-D

Male thread with external hex



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
R $\frac{1}{8}$	4	2.1	133041	NPQP-D-R18-Q4-FD-P10	10
	6	3.4	133043	NPQP-D-R18-Q6-FD-P10	10
	8	5.3	133045	NPQP-D-R18-Q8-FD-P10	10
R $\frac{1}{4}$	4	2.1	133042	NPQP-D-R14-Q4-FD-P10	10
	6	3.4	133044	NPQP-D-R14-Q6-FD-P10	10
	8	5.3	133046	NPQP-D-R14-Q8-FD-P10	10
	10	6.2	133047	NPQP-D-R14-Q10-FD-P10	10
R $\frac{3}{8}$	10	6.2	133048	NPQP-D-R38-Q10-FD-P10	10
	12	7.2	133049	NPQP-D-R38-Q12-FD-P10	10
R $\frac{1}{2}$	12	7.2	133050	NPQP-D-R12-Q12-FD	1

### Push-in connector NPQP-D



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	2.6	133091	NPQP-D-Q4-E-FD-P10	10
6	6	4	133092	NPQP-D-Q6-E-FD-P10	10
8	8	5	133093	NPQP-D-Q8-E-FD-P10	10
10	10	6.7	133094	NPQP-D-Q10-E-FD-P10	10
12	12	8.7	133095	NPQP-D-Q12-E-FD-P10	10
Reducing					
6	4	2.6	133096	NPQP-D-Q6-Q4-FD-P10	10
8	6	4	133097	NPQP-D-Q8-Q6-FD-P10	10
10	8	5	133098	NPQP-D-Q10-Q8-FD-P10	10
12	10	6.7	133099	NPQP-D-Q12-Q10-FD-P10	10

### Push-in connector NPQP-D

with push-in sleeve



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Push-in sleeve				
4	QS-6	2.5	133133	NPQP-D-Q4-S6-FD-P10	10
	QS-8	2.4	133134	NPQP-D-Q4-S8-FD-P10	10
6	QS-8	3.8	133135	NPQP-D-Q6-S8-FD-P10	10
	QS-10	3.8	133136	NPQP-D-Q6-S10-FD-P10	10
8	QS-10	5.4	133137	NPQP-D-Q8-S10-FD-P10	10
	QS-12	5.4	133138	NPQP-D-Q8-S12-FD-P10	10
10	QS-12	6.3	133139	NPQP-D-Q10-S12-FD-P10	10

### Push-in bulkhead connector NPQP-H



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	2.3	133100	NPQP-H-Q4-E-FD	1
6	6	3.7	133101	NPQP-H-Q6-E-FD	1
8	8	4.9	133102	NPQP-H-Q8-E-FD	1
10	10	7.1	133103	NPQP-H-Q10-E-FD	1
12	12	7.8	133104	NPQP-H-Q12-E-FD	1

<sup>1)</sup> Packaging unit per part

# Push-in fittings NPQP, media-resistant

## Ordering data

### Blanking plug NPQP-P



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	2			
Push-in sleeve				
QS-4		133128	NPQP-P-S4-FD-P10	10
QS-6		133129	NPQP-P-S6-FD-P10	10
QS-8		133130	NPQP-P-S8-FD-P10	10
QS-10		133131	NPQP-P-S10-FD-P10	10
QS-12		133132	NPQP-P-S12-FD-P10	10

### Push-in L-fitting NPQP-L

Male thread with external hex, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
R <sup>1</sup> / <sub>8</sub>	4	2.1	133051	NPQP-L-R18-Q4-FD-P10	10
	6	3.3	133053	NPQP-L-R18-Q6-FD-P10	10
	8	4.7	133055	NPQP-L-R18-Q8-FD-P10	10
R <sup>1</sup> / <sub>4</sub>	4	2.1	133052	NPQP-L-R14-Q4-FD-P10	10
	6	3.3	133054	NPQP-L-R14-Q6-FD-P10	10
	8	4.7	133056	NPQP-L-R14-Q8-FD-P10	10
R <sup>3</sup> / <sub>8</sub>	10	5.7	133057	NPQP-L-R14-Q10-FD-P10	10
	12	6.9	133058	NPQP-L-R38-Q10-FD-P10	10
R <sup>1</sup> / <sub>2</sub>	12	6.9	133059	NPQP-L-R38-Q12-FD-P10	10
			133060	NPQP-L-R12-Q12-FD	1

### Push-in L-fitting NPQP-LQ

Male thread with external hex, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
R <sup>1</sup> / <sub>8</sub>	4	2	133061	NPQP-LQ-R18-Q4-FD-P10	10
	6	3.3	133063	NPQP-LQ-R18-Q6-FD-P10	10
	8	4.8	133065	NPQP-LQ-R18-Q8-FD-P10	10
R <sup>1</sup> / <sub>4</sub>	4	2	133062	NPQP-LQ-R14-Q4-FD-P10	10
	6	3.3	133064	NPQP-LQ-R14-Q6-FD-P10	10
	8	4.8	133066	NPQP-LQ-R14-Q8-FD-P10	10
R <sup>3</sup> / <sub>8</sub>	10	5.8	133067	NPQP-LQ-R14-Q10-FD-P10	10
	12	6.9	133068	NPQP-LQ-R38-Q10-FD-P10	10
R <sup>1</sup> / <sub>2</sub>	12	6.9	133069	NPQP-LQ-R38-Q12-FD-P10	10
			133070	NPQP-LQ-R12-Q12-FD	1

### Push-in L-connector NPQP-L



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	2.3	133105	NPQP-L-Q4-E-FD-P10	10
6	6	3.6	133106	NPQP-L-Q6-E-FD-P10	10
8	8	4.6	133107	NPQP-L-Q8-E-FD-P10	10
10	10	6.2	133108	NPQP-L-Q10-E-FD-P10	10
12	12	7.7	133109	NPQP-L-Q12-E-FD-P10	10

<sup>1)</sup> Packaging unit per part

## Ordering data

### Push-in T-fitting NPQP-T

Male thread with external hex, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
R $\frac{1}{8}$	4	2	133071	NPQP-T-R18-Q4-FD-P10	10
	6	3.2	133073	NPQP-T-R18-Q6-FD-P10	10
	8	4.7	133075	NPQP-T-R18-Q8-FD-P10	10
R $\frac{1}{4}$	4	2	133072	NPQP-T-R14-Q4-FD-P10	10
	6	3.2	133074	NPQP-T-R14-Q6-FD-P10	10
	8	4.7	133076	NPQP-T-R14-Q8-FD-P10	10
	10	5.8	133077	NPQP-T-R14-Q10-FD-P10	10
R $\frac{3}{8}$	10	5.8	133078	NPQP-T-R38-Q10-FD-P10	10
	12	6.9	133079	NPQP-T-R38-Q12-FD-P10	10
R $\frac{1}{2}$	12	6.9	133080	NPQP-T-R12-Q12-FD	1

### Push-in T-connector NPQP-T



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	2.6	133110	NPQP-T-Q4-E-FD-P10	10
6	6	4	133111	NPQP-T-Q6-E-FD-P10	10
8	8	5	133112	NPQP-T-Q8-E-FD-P10	10
10	10	6.7	133113	NPQP-T-Q10-E-FD-P10	10
12	12	8.7	133114	NPQP-T-Q12-E-FD-P10	10
Reducing					
6	4	2.3	133115	NPQP-T-Q6-Q4-FD-P10	10
8	6	3.6	133116	NPQP-T-Q8-Q6-FD-P10	10
10	8	5	133117	NPQP-T-Q10-Q8-FD-P10	10
12	10	6.4	133118	NPQP-T-Q12-Q10-FD-P10	10

### Push-in Y-fitting NPQP-Y

Male thread with external hex, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
R $\frac{1}{8}$	4	2	133081	NPQP-Y-R18-Q4-FD-P10	10
	6	2.8	133083	NPQP-Y-R18-Q6-FD-P10	10
	8	4.5	133085	NPQP-Y-R18-Q8-FD-P10	10
R $\frac{1}{4}$	4	2	133082	NPQP-Y-R14-Q4-FD-P10	10
	6	2.8	133084	NPQP-Y-R14-Q6-FD-P10	10
	8	4.5	133086	NPQP-Y-R14-Q8-FD-P10	10
	10	5.3	133087	NPQP-Y-R14-Q10-FD-P10	10
R $\frac{3}{8}$	10	5.3	133088	NPQP-Y-R38-Q10-FD-P10	10
	12	6.2	133089	NPQP-Y-R38-Q12-FD-P10	10
R $\frac{1}{2}$	12	6.2	133090	NPQP-Y-R12-Q12-FD	1

<sup>1)</sup> Packaging unit per part

## Ordering data

## Push-in Y-connector NPQP-Y



Tubing O.D.		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	2.3	<b>133119</b>	<b>NPQP-Y-Q4-E-FD-P10</b>	<b>10</b>
6	6	3.6	<b>133120</b>	<b>NPQP-Y-Q6-E-FD-P10</b>	<b>10</b>
8	8	4.6	<b>133121</b>	<b>NPQP-Y-Q8-E-FD-P10</b>	<b>10</b>
10	10	5.9	<b>133122</b>	<b>NPQP-Y-Q10-E-FD-P10</b>	<b>10</b>
12	12	7	<b>133123</b>	<b>NPQP-Y-Q12-E-FD-P10</b>	<b>10</b>
Reducing					
6	4	2.3	<b>133124</b>	<b>NPQP-Y-Q6-Q4-FD-P10</b>	<b>10</b>
8	6	3.6	<b>133125</b>	<b>NPQP-Y-Q8-Q6-FD-P10</b>	<b>10</b>
10	8	4.7	<b>133126</b>	<b>NPQP-Y-Q10-Q8-FD-P10</b>	<b>10</b>
12	10	5.9	<b>133127</b>	<b>NPQP-Y-Q12-Q10-FD-P10</b>	<b>10</b>

<sup>1)</sup> Packaging unit per part





Overview/Configuration/Ordering  
→ [www.festo.com/catalogue/qs](http://www.festo.com/catalogue/qs)



Additional information/Support/User documentation  
→ [www.festo.com/sp/qs](http://www.festo.com/sp/qs)

Fittings  
Push-in fittings

QS



- + Mini series: compact for maximum component density in confined installation spaces
- + Standard series: wide selection for maximum flexibility in standard applications
- + Male or female thread with external or internal hex
- + Resistant to pressure: economical for pneumatic installations in the high-pressure range
- + Suitable for use with water as an operating medium

# Push-in fittings QS, Quick Star



- Simple and reliable connection and release
- With R-, G- and metric thread
- Wide range of variants
- Rotatable
- ★ Quick ordering of basic designs → 1100

→ [www.festo.com/catalogue/quick\\_star](http://www.festo.com/catalogue/quick_star)

## Feature

### Quick Star QSM, Mini series



Miniature push-in fittings for maximum component density in confined spaces. Tubing O.D. of 2, 3, 4 and 6 mm with connecting threads M3, M5, M6, M7, R1/8 and G1/8.

### Quick Star QS, standard series



Wide selection of push-in fittings. Tubing O.D. of 4, 6, 8, 10, 12 and 16 mm with connecting threads R1/8 ... R1/2 and G1/8 ... G1/2.

## Product range overview

Type	Version	Design	Pneumatic connection 1					Pneumatic connection 2		→ Page/ online
			M-thread	R-thread	G-thread	Tubing O.D.	Push-in sleeve	Tubing O.D.		
<b>Quick Star QSM, Mini series</b>										
QSM	Push-in fitting	Straight	■	■	■	-	-	■	1100	
	Push-in connector		-	-	-	■	■	■	1101	
QSMS	Push-in bulkhead connector		-	-	-	■	-	■	qsmc	
QSMF	Push-in fitting		■	-	-	-	-	■		
QSMF	Push-in fitting		■	-	-	-	-	■	qsmc	
QSMC	Push-in cap		-	-	-	■	-	-	qsmc	
QSMC	Blanking plug	-	-	-	-	■	-			
QSMF	Push-in fitting	L-shape	■	■	■	-	-	■	1102	
	Push-in connector		-	-	-	■	■	■	1103	
QSMF	Push-in fitting		■	-	-	-	-	■	1104	
QSMF	Push-in connector	-	-	-	■	-	■			
QSMF	Push-in fitting	T-shape	■	■	■	-	-	■	1104	
QSMF	Push-in connector		-	-	-	■	-	■		
QSMF	Push-in fitting	X-shape	■	■	■	-	-	■	qsmx	
QSMF	Push-in connector		-	-	-	■	-	■		
QSMF	Push-in connector	Y-shape	-	-	-	■	-	■	1105	

## Product range overview

Type	Version	Design	Pneumatic connection 1					Pneumatic connection 2		→ Page/ online
			M-thread	R-thread	G-thread	Tubing O.D.	Push-in sleeve	Tubing O.D.		
<b>Quick Star QS, standard series</b>										
QS	Push-in fitting	Straight	–	■	■	–	–	■	1106	
	Push-in connector		–	–	–	■	–	■	1107	
Push-in connector	–		–	–	–	■	■	1108		
QSS	Push-in bulkhead connector		–	–	–	■	–	■		
QSF	Push-in fitting		–	–	■	–	–	■		
QSSF	Push-in bulkhead fitting		–	–	■	–	–	■	<a href="#">qssf</a>	
QSC	Push-in cap		–	–	–	■	–	–	<a href="#">qsc</a>	
	Blanking plug		–	–	–	–	■	–		
QSH	Push-in sleeve		–	–	–	–	■	–	<a href="#">qsh</a>	
QSL	Push-in fitting		L-shape	–	■	■	–	–	■	1109
	Push-in connector	–		–	–	■	■	■	1111	
QSLF	Push-in fitting	–		–	■	–	–	■		
QSLV	Push-in fitting	■		■	■	–	–	■	1112	
QST	Push-in fitting	T-shape	–	■	■	–	–	■	1114	
	Push-in connector		–	–	–	■	–	■	1115	
QSTF	Push-in fitting		–	■	■	–	–	■		
QSTL	Push-in fitting		–	■	■	–	–	■	1116	
QSW	Push-in fitting	W-shape	–	■	–	–	–	■		
	Push-in connector		–	–	–	–	■	■	1117	
QSX	Push-in connector	X-shape	–	–	–	■	–	■	<a href="#">qsx</a>	
QSY	Push-in fitting	Y-shape	■	■	■	–	–	■	1117	
	Push-in connector		–	–	–	■	■	■	1118	
QSYL	Push-in fitting	Y-shape	–	■	■	–	–	■	1119	
QSYLV	Push-in fitting		–	■	■	–	–	■		
QSYTF	Push-in fitting		–	■	■	–	–	■	<a href="#">qsytf</a>	

## Technical data

Operating conditions		QSM	QS
Operating medium		Compressed air to ISO 8573-1:2010 [7:-:-]	Water as per manufacturer's declaration <sup>1)</sup>
Note on operating/pilot medium		Lubricated operation possible	
Operating pressure for entire temperature range [bar]		–0.95 ... +6	
Temperature-dependent operating pressure [bar]		–0.95 ... +14	
Ambient temperature [°C]		–10 ... +80	

1) Additional information at [www.festo.com/sp](http://www.festo.com/sp) → User Documentation.

## Materials

Housing	PBT, nickel-plated brass
Tube retaining claw	High-alloy stainless steel
Releasing ring	POM
Tubing seal	Nitrile rubber

# Push-in fittings QSM, Quick Star, Mini series

## ★ Quick ordering<sup>1)</sup>

### Push-in fitting QSM

Male thread with external hex



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>Metric thread with sealing ring</b>					
M3	2	0.9	133027	QSM-M3-2	10
	3	0.9	153301	QSM-M3-3	10
	4	1.1	153303	QSM-M3-4	10
M5	2	1.1	133028	QSM-M5-2	10
	3	2	153302	QSM-M5-3	10
	4	2.2	153304	QSM-M5-4	10
	6	2.1	153306	QSM-M5-6	10
M6	6	2.8	132600	QSM-M6-6	10
<b>R-thread</b>					
R $\frac{1}{8}$	4	2.9	153305	QSM-R $\frac{1}{8}$ -4	10
	6	4.5	153307	QSM-R $\frac{1}{8}$ -6	10
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	2.9	186264	QSM-G $\frac{1}{8}$ -4	10
	6	2.8	186265	QSM-G $\frac{1}{8}$ -6	10

### Push-in fitting QSM-...-I

Male thread with internal hex



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>Metric thread with sealing ring</b>					
M3	2	1.1	133026	QSM-M3-2-I	10
	3	1.6	153312	QSM-M3-3-I	10
	4	1.5	153314	QSM-M3-4-I	10
M5	3	1.9	153313	QSM-M5-3-I	10
	4	2.5	153315	QSM-M5-4-I	10
	6	2.6	153317	QSM-M5-6-I	10
M7	4	3.1	153319	QSM-M7-4-I	10
	6	4.1	153321	QSM-M7-6-I	10
<b>R-thread</b>					
R $\frac{1}{8}$	4	3.1	153316	QSM-R $\frac{1}{8}$ -4-I	10
	6	4.1	153318	QSM-R $\frac{1}{8}$ -6-I	10
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	3.1	186266	QSM-G $\frac{1}{8}$ -4-I	10
	6	4.1	186267	QSM-G $\frac{1}{8}$ -6-I	10

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

★ Quick ordering<sup>1)</sup>

## Push-in connector QSM



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
3	3	1.9	153323	QSM-3	10
4	4	2.6	153324	QSM-4	10
6	6	3.7	153325	QSM-6	10
Reducing					
3	2	1.1	133029	QSM-3-2	10
4	3	1.7	153326	QSM-4-3	10
6	4	2.7	153327	QSM-6-4	10

Push-in connector QSM-...H  
with push-in sleeve

Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Push-in sleeve	2 Tubing O.D. [mm]				
QS-3	2	1.1	133035	QSM-3H-2	10
QS-4	3	1.7	153328	QSM-4H-3	10
QS-6	4	2.6	153329	QSM-6H-4	10

## Push-in bulkhead connector QSMS



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
3	3	1.7	153375	QSMS-3	10
4	4	2.2	153376	QSMS-4	10
6	6	3.7	153377	QSMS-6	10

## Push-in fitting QSMF

## Female thread with external hex



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Female thread	2 Tubing O.D. [mm]				
M3	3	1.3	153308	QSMF-M3-3	10
	4	2.1	153310	QSMF-M3-4	10
M5	3	1.9	153309	QSMF-M5-3	10
	4	1.8	153311	QSMF-M5-4	10

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

# Push-in fittings QSM, Quick Star, Mini series

## ★ Quick ordering<sup>1)</sup>

### Push-in L-fitting QSML

Male thread with external hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>Metric thread with sealing ring</b>					
M3	2	0.8	133030	QSML-M3-2	10
	3	0.8	153330	QSML-M3-3	10
	4	1.3	153332	QSML-M3-4	10
M5	2	0.9	133031	QSML-M5-2	10
	3	1.5	153331	QSML-M5-3	10
	4	1.7	153333	QSML-M5-4	10
	6	2.1	153335	QSML-M5-6	10
M7	4	2	186352	QSML-M7-4	10
	6	2.4	186353	QSML-M7-6	10
<b>R-thread</b>					
R $\frac{1}{8}$	4	2.5	153334	QSML- $\frac{1}{8}$ -4	10
	6	3.3	153336	QSML- $\frac{1}{8}$ -6	10
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	2.5	186268	QSML-G $\frac{1}{8}$ -4	10
	6	3.3	186269	QSML-G $\frac{1}{8}$ -6	10

### Push-in L-fitting, long, QSMLL

Male thread with external hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>Metric thread with sealing ring</b>					
M3	2	0.8	133032	QSMLL-M3-2	10
	3	0.9	153337	QSMLL-M3-3	10
	4	1.1	153338	QSMLL-M3-4	10
M5	2	0.9	133033	QSMLL-M5-2	10
	3	1.5	130838	QSMLL-M5-3	10
	4	2	153339	QSMLL-M5-4	10
	6	2	153341	QSMLL-M5-6	10
M7	4	2	186354	QSMLL-M7-4	10
	6	2.4	186355	QSMLL-M7-6	10
<b>R-thread</b>					
R $\frac{1}{8}$	4	2.3	153340	QSMLL- $\frac{1}{8}$ -4	10
	6	3.1	153342	QSMLL- $\frac{1}{8}$ -6	10
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	2.3	186270	QSMLL-G $\frac{1}{8}$ -4	10
	6	3.1	186271	QSMLL-G $\frac{1}{8}$ -6	10

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

★ Quick ordering<sup>1)</sup>

## Push-in L-connector QSML



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
3	3	1.7	153343	QSML-3	10
4	4	2.5	153344	QSML-4	10
6	6	3.4	153345	QSML-6	10

## Push-in L-connector QSML-...H

with push-in sleeve



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Push-in sleeve	2 Tubing O.D. [mm]				
QS-3	3	1.2	153346	QSML-3H	10
QS-4	4	1.9	153347	QSML-4H	10
QS-6	6	3.2	153348	QSML-6H	10
Reducing					
QS-4	3	1.7	153349	QSML-4H-3	10
QS-6	4	1.9	153350	QSML-6H-4	10

## Push-in L-fitting QSMLV-...-I

Male thread with internal hex, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Male thread	2 Tubing O.D. [mm]				
Metric thread with sealing ring					
M5	3	1.7	130830	QSMLV-M5-3-I	10
	4	1.8	130831	QSMLV-M5-4-I	10
M7	4	1.9	130832	QSMLV-M7-4-I	10
	6	1.8	130833	QSMLV-M7-6-I	10

## Push-in L-fitting, long QSMLLV-...-I

Male thread with internal hex, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Male thread	2 Tubing O.D. [mm]				
Metric thread with sealing ring					
M5	3	1.6	130834	QSMLLV-M5-3-I	10
	4	1.8	130835	QSMLLV-M5-4-I	10
M7	4	1.9	130836	QSMLLV-M7-4-I	10
	6	1.9	130837	QSMLLV-M7-6-I	10

1) All products in this table are easy to select and quick to order.

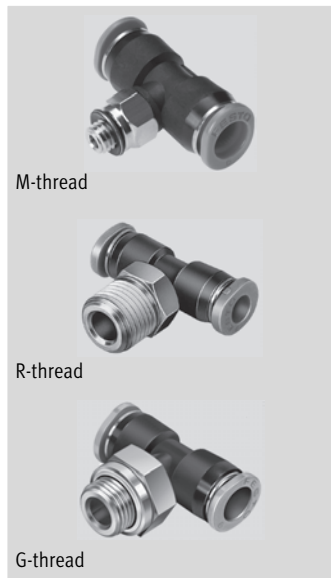
2) Packaging unit per part

# Push-in fittings QSM, Quick Star, Mini series

★ Quick ordering<sup>1)</sup>

### Push-in T-fitting QSMT

Male thread with external hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>Metric thread with sealing ring</b>					
M3	3	0.9	153351	QSMT-M3-3	10
	4	1.3	153353	QSMT-M3-4	10
M5	3	1.6	153352	QSMT-M5-3	10
	4	2.2	153354	QSMT-M5-4	10
	6	2.1	153356	QSMT-M5-6	10
<b>R-thread</b>					
R <sup>1</sup> / <sub>8</sub>	4	2.4	153355	QSMT- <sup>1</sup> / <sub>8</sub> -4	10
	6	3.3	153357	QSMT- <sup>1</sup> / <sub>8</sub> -6	10
<b>G-thread with sealing ring</b>					
G <sup>1</sup> / <sub>8</sub>	4	2.4	186272	QSMT-G <sup>1</sup> / <sub>8</sub> -4	10
	6	3.3	186273	QSMT-G <sup>1</sup> / <sub>8</sub> -6	10

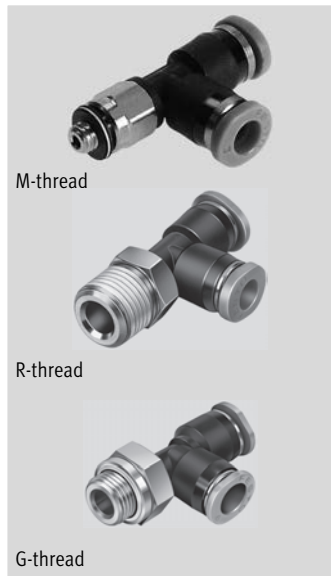
### Push-in T-connector QSMT



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Tubing O.D. [mm]	Tubing O.D. [mm]	[mm]			
2	2	0.9	133034	QSMT-2	10
3	3	1.6	153365	QSMT-3	10
4	4	2.4	153366	QSMT-4	10
6	6	3.4	153367	QSMT-6	10
<b>Reducing</b>					
4	3	1.7	153368	QSMT-4-3	10
6	4	2.6	153369	QSMT-6-4	10

### Push-in T-fitting QSMTL

Male thread with external hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>Metric thread with sealing ring</b>					
M3	3	0.9	153358	QSMTL-M3-3	10
	4	1.1	153360	QSMTL-M3-4	10
M5	3	1.7	153359	QSMTL-M5-3	10
	4	1.6	153361	QSMTL-M5-4	10
	6	1.7	153363	QSMTL-M5-6	10
<b>R-thread</b>					
R <sup>1</sup> / <sub>8</sub>	4	2.4	153362	QSMTL- <sup>1</sup> / <sub>8</sub> -4	10
	6	3.3	153364	QSMTL- <sup>1</sup> / <sub>8</sub> -6	10
<b>G-thread with sealing ring</b>					
G <sup>1</sup> / <sub>8</sub>	4	2.4	186274	QSMTL-G <sup>1</sup> / <sub>8</sub> -4	10
	6	3.3	186275	QSMTL-G <sup>1</sup> / <sub>8</sub> -6	10

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part



★ Quick ordering<sup>1)</sup>

## Push-in Y-connector QSMY



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]	[mm]			
2	2	0.9	<b>133037</b>	<b>QSMY-2</b>	<b>10</b>
3	3	1.6	<b>153370</b>	<b>QSMY-3</b>	<b>10</b>
4	4	1.7	<b>153371</b>	<b>QSMY-4</b>	<b>10</b>
6	6	2.9	<b>153372</b>	<b>QSMY-6</b>	<b>10</b>
2 reducing outlets					
4	3	1.6	<b>153373</b>	<b>QSMY-4-3</b>	<b>10</b>
6	4	2.8	<b>153374</b>	<b>QSMY-6-4</b>	<b>10</b>

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

## Push-in fittings QS, Quick Star, standard series

FESTO

★ Quick ordering<sup>1)</sup>

## Push-in fitting QS

Male thread with external hex



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>R-thread</b>					
R <sup>1</sup> / <sub>8</sub>	4	2.6	153001	QS- <sup>1</sup> / <sub>8</sub> -4	10
	6	4	153002	QS- <sup>1</sup> / <sub>8</sub> -6	10
	8	5	153004	QS- <sup>1</sup> / <sub>8</sub> -8	10
	10	5.4	190643	QS- <sup>1</sup> / <sub>8</sub> -10	10
R <sup>1</sup> / <sub>4</sub>	4	2.6	190644	QS- <sup>1</sup> / <sub>4</sub> -4	10
	6	4	153003	QS- <sup>1</sup> / <sub>4</sub> -6	10
	8	5	153005	QS- <sup>1</sup> / <sub>4</sub> -8	10
	10	6.7	153007	QS- <sup>1</sup> / <sub>4</sub> -10	10
	12	8.7	164980	QS- <sup>1</sup> / <sub>4</sub> -12	10
R <sup>3</sup> / <sub>8</sub>	6	4	190645	QS- <sup>3</sup> / <sub>8</sub> -6	10
	8	5	153006	QS- <sup>3</sup> / <sub>8</sub> -8	10
	10	6.7	153008	QS- <sup>3</sup> / <sub>8</sub> -10	10
	12	8.7	153009	QS- <sup>3</sup> / <sub>8</sub> -12	10
	16	10.3	164957	QS- <sup>3</sup> / <sub>8</sub> -16	1
R <sup>1</sup> / <sub>2</sub>	10	6.7	190646	QS- <sup>1</sup> / <sub>2</sub> -10	1
	12	8.7	153010	QS- <sup>1</sup> / <sub>2</sub> -12	1
	16	12	153011	QS- <sup>1</sup> / <sub>2</sub> -16	1
<b>G-thread with sealing ring</b>					
G <sup>1</sup> / <sub>8</sub>	4	2.6	186095	QS-G <sup>1</sup> / <sub>8</sub> -4	10
	6	4	186096	QS-G <sup>1</sup> / <sub>8</sub> -6	10
	8	5	186098	QS-G <sup>1</sup> / <sub>8</sub> -8	10
G <sup>1</sup> / <sub>4</sub>	6	4	186097	QS-G <sup>1</sup> / <sub>4</sub> -6	10
	8	5	186099	QS-G <sup>1</sup> / <sub>4</sub> -8	10
	10	6.7	186101	QS-G <sup>1</sup> / <sub>4</sub> -10	10
	12	6.3	186350	QS-G <sup>1</sup> / <sub>4</sub> -12	10
G <sup>3</sup> / <sub>8</sub>	8	5	186100	QS-G <sup>3</sup> / <sub>8</sub> -8	10
	10	6.7	186102	QS-G <sup>3</sup> / <sub>8</sub> -10	10
	12	8.7	186103	QS-G <sup>3</sup> / <sub>8</sub> -12	10
	16	10.3	186347	QS-G <sup>3</sup> / <sub>8</sub> -16	1
G <sup>1</sup> / <sub>2</sub>	12	8.7	186104	QS-G <sup>1</sup> / <sub>2</sub> -12	1
	16	12	186105	QS-G <sup>1</sup> / <sub>2</sub> -16	1

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

★ Quick ordering<sup>1)</sup>

## Push-in fitting QS-...-I

Male thread with internal hex



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>R-thread</b>					
R $\frac{1}{8}$	4	2.1	153012	QS- $\frac{1}{8}$ -4-I	10
	6	3.7	153013	QS- $\frac{1}{8}$ -6-I	10
	8	4.7	153015	QS- $\frac{1}{8}$ -8-I	10
	10	4.9	190647	QS- $\frac{1}{8}$ -10-I	10
R $\frac{1}{4}$	6	3.7	153014	QS- $\frac{1}{4}$ -6-I	10
	8	5	153016	QS- $\frac{1}{4}$ -8-I	10
	10	5	153018	QS- $\frac{1}{4}$ -10-I	10
	12	5.7	190649	QS- $\frac{1}{4}$ -12-I	10
R $\frac{3}{8}$	8	5	153017	QS- $\frac{3}{8}$ -8-I	10
	10	5	153019	QS- $\frac{3}{8}$ -10-I	10
	12	7.1	153020	QS- $\frac{3}{8}$ -12-I	10
R $\frac{1}{2}$	10	5	190648	QS- $\frac{1}{2}$ -10-I	1
	12	7.1	153021	QS- $\frac{1}{2}$ -12-I	1
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	2.1	186106	QS-G $\frac{1}{8}$ -4-I	10
	6	3.7	186107	QS-G $\frac{1}{8}$ -6-I	10
	8	4.7	186109	QS-G $\frac{1}{8}$ -8-I	10
	10	4.9	132999	QS-G $\frac{1}{8}$ -10-I	10
G $\frac{1}{4}$	6	3.7	186108	QS-G $\frac{1}{4}$ -6-I	10
	8	5	186110	QS-G $\frac{1}{4}$ -8-I	10
	10	6.7	186112	QS-G $\frac{1}{4}$ -10-I	10
G $\frac{3}{8}$	8	5	186111	QS-G $\frac{3}{8}$ -8-I	10
	10	6.7	186113	QS-G $\frac{3}{8}$ -10-I	10
	12	7.1	186114	QS-G $\frac{3}{8}$ -12-I	10
G $\frac{1}{2}$	12	7.1	186115	QS-G $\frac{1}{2}$ -12-I	1

## Push-in connector QS



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Tubing O.D. [mm]	Tubing O.D. [mm]	[mm]			
4	4	2.6	153031	QS-4	10
6	6	4	153032	QS-6	10
8	8	5	153033	QS-8	10
10	10	6.7	153034	QS-10	10
12	12	8.7	153035	QS-12	10
16	16	13.7	153036	QS-16	1
<b>Reducing</b>					
6	4	2.6	153037	QS-6-4	10
8	4	2.3	130606	QS-8-4	10
	6	4	153038	QS-8-6	10
10	6	3.7	130607	QS-10-6	10
	8	5	153039	QS-10-8	10
12	8	5.2	130608	QS-12-8	10
	10	6.7	153040	QS-12-10	10

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

# Push-in fittings QS, Quick Star, standard series

FESTO

## ★ Quick ordering<sup>1)</sup>

### Push-in connector QS-...H

with push-in sleeve



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Push-in sleeve	Tubing O.D. [mm]	[mm]			
QS-6	4	2.5	153041	QS-6H-4	10
QS-8	4	2.4	130622	QS-8H-4	10
	6	3.8	153042	QS-8H-6	10
QS-10	6	3.8	130623	QS-10H-6	10
	8	5.4	153043	QS-10H-8	10
QS-12	6	3.8	132981	QS-12H-6	10
	8	5.4	130624	QS-12H-8	10
	10	6.3	153044	QS-12H-10	10

### Push-in bulkhead connector QSS



With fixed collar

Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Tubing O.D. [mm]	Tubing O.D. [mm]	[mm]			
4	4	2.6	153157	QSS-4	10
6	6	4	153158	QSS-6	10
8	8	5	153159	QSS-8	10
10	10	6.7	153160	QSS-10	10
12	12	9.5	153161	QSS-12	10
With fixed collar					
8	8	5.5	130642	QSS-8-F	10
10	10	6.5	130643	QSS-10-F	10
12	12	7.5	130644	QSS-12-F	10

### Push-in fitting QSF

Female thread with external hex



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Female thread	Tubing O.D. [mm]	[mm]			
G <sup>1</sup> / <sub>8</sub>	4	2.6	153022	QSF- <sup>1</sup> / <sub>8</sub> -4-B	10
	6	4	153023	QSF- <sup>1</sup> / <sub>8</sub> -6-B	10
	8	5.8	153025	QSF- <sup>1</sup> / <sub>8</sub> -8-B	10
G <sup>1</sup> / <sub>4</sub>	4	2.8	190650	QSF- <sup>1</sup> / <sub>4</sub> -4-B	10
	6	4	153024	QSF- <sup>1</sup> / <sub>4</sub> -6-B	10
	8	5.8	153026	QSF- <sup>1</sup> / <sub>4</sub> -8-B	10
	10	7.4	153028	QSF- <sup>1</sup> / <sub>4</sub> -10-B	10
	12	7.2	190651	QSF- <sup>1</sup> / <sub>4</sub> -12-B	10
G <sup>3</sup> / <sub>8</sub>	6	4.1	190652	QSF- <sup>3</sup> / <sub>8</sub> -6-B	10
	8	5.8	153027	QSF- <sup>3</sup> / <sub>8</sub> -8-B	10
	10	7.4	153029	QSF- <sup>3</sup> / <sub>8</sub> -10-B	10
	12	9.5	153030	QSF- <sup>3</sup> / <sub>8</sub> -12-B	10
G <sup>1</sup> / <sub>2</sub>	12	9.5	190653	QSF- <sup>1</sup> / <sub>2</sub> -12-B	1
	16	10.6	190654	QSF- <sup>1</sup> / <sub>2</sub> -16-B	1

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

★ Quick ordering<sup>1)</sup>

## Push-in L-fitting QSL

Male thread with external hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>R-thread</b>					
R $\frac{1}{8}$	4	2.3	153045	QSL- $\frac{1}{8}$ -4	10
	6	3.6	153046	QSL- $\frac{1}{8}$ -6	10
	8	4.6	153048	QSL- $\frac{1}{8}$ -8	10
	10	5.3	190658	QSL- $\frac{1}{8}$ -10	10
R $\frac{1}{4}$	4	2.3	190659	QSL- $\frac{1}{4}$ -4	10
	6	3.6	153047	QSL- $\frac{1}{4}$ -6	10
	8	4.6	153049	QSL- $\frac{1}{4}$ -8	10
	10	6.2	153051	QSL- $\frac{1}{4}$ -10	10
	12	7.7	164981	QSL- $\frac{1}{4}$ -12	10
R $\frac{3}{8}$	6	3.6	190660	QSL- $\frac{3}{8}$ -6	10
	8	4.6	153050	QSL- $\frac{3}{8}$ -8	10
	10	6.2	153052	QSL- $\frac{3}{8}$ -10	10
	12	7.7	153053	QSL- $\frac{3}{8}$ -12	10
	16	10.1	164958	QSL- $\frac{3}{8}$ -16	1
R $\frac{1}{2}$	10	6.2	190661	QSL- $\frac{1}{2}$ -10	1
	12	7.7	153054	QSL- $\frac{1}{2}$ -12	1
	16	10.9	153055	QSL- $\frac{1}{2}$ -16	1
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	2.3	186116	QSL-G $\frac{1}{8}$ -4	10
	6	3.6	186117	QSL-G $\frac{1}{8}$ -6	10
	8	4.6	186119	QSL-G $\frac{1}{8}$ -8	10
G $\frac{1}{4}$	6	3.6	186118	QSL-G $\frac{1}{4}$ -6	10
	8	4.6	186120	QSL-G $\frac{1}{4}$ -8	10
	10	6.2	186122	QSL-G $\frac{1}{4}$ -10	10
	12	6.2	186351	QSL-G $\frac{1}{4}$ -12	10
G $\frac{3}{8}$	8	4.6	186121	QSL-G $\frac{3}{8}$ -8	10
	10	6.2	186123	QSL-G $\frac{3}{8}$ -10	10
	12	7.7	186124	QSL-G $\frac{3}{8}$ -12	10
	16	10.1	186348	QSL-G $\frac{3}{8}$ -16	1
G $\frac{1}{2}$	12	7.7	186125	QSL-G $\frac{1}{2}$ -12	1
	16	10.9	186126	QSL-G $\frac{1}{2}$ -16	1

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

## Push-in fittings QS, Quick Star, standard series

★ Quick ordering<sup>1)</sup>

## Push-in L-fitting, long QSLL

Male thread with external hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>R-thread</b>					
R <sup>1</sup> / <sub>8</sub>	4	2.3	153076	QSLL-R <sup>1</sup> / <sub>8</sub> -4	10
	6	3.6	153077	QSLL-R <sup>1</sup> / <sub>8</sub> -6	10
	8	4.6	153079	QSLL-R <sup>1</sup> / <sub>8</sub> -8	10
R <sup>1</sup> / <sub>4</sub>	4	2.9	190662	QSLL-R <sup>1</sup> / <sub>4</sub> -4	10
	6	3.6	153078	QSLL-R <sup>1</sup> / <sub>4</sub> -6	10
	8	4.6	153080	QSLL-R <sup>1</sup> / <sub>4</sub> -8	10
	10	6.2	153082	QSLL-R <sup>1</sup> / <sub>4</sub> -10	10
R <sup>3</sup> / <sub>8</sub>	6	3.5	190663	QSLL-R <sup>3</sup> / <sub>8</sub> -6	10
	8	4.8	153081	QSLL-R <sup>3</sup> / <sub>8</sub> -8	10
	10	6.2	153083	QSLL-R <sup>3</sup> / <sub>8</sub> -10	10
	12	7.5	153084	QSLL-R <sup>3</sup> / <sub>8</sub> -12	10
R <sup>1</sup> / <sub>2</sub>	10	6.4	190664	QSLL-R <sup>1</sup> / <sub>2</sub> -10	1
	12	8.3	153085	QSLL-R <sup>1</sup> / <sub>2</sub> -12	1
<b>G-thread with sealing ring</b>					
G <sup>1</sup> / <sub>8</sub>	4	2.3	186127	QSLL-G <sup>1</sup> / <sub>8</sub> -4	10
	6	3.6	186128	QSLL-G <sup>1</sup> / <sub>8</sub> -6	10
	8	4.6	186130	QSLL-G <sup>1</sup> / <sub>8</sub> -8	10
G <sup>1</sup> / <sub>4</sub>	6	3.6	186129	QSLL-G <sup>1</sup> / <sub>4</sub> -6	10
	8	4.6	186131	QSLL-G <sup>1</sup> / <sub>4</sub> -8	10
	10	6.2	186133	QSLL-G <sup>1</sup> / <sub>4</sub> -10	10
	12	8	132596	QSLL-G <sup>1</sup> / <sub>4</sub> -12	1
G <sup>3</sup> / <sub>8</sub>	8	4.8	186132	QSLL-G <sup>3</sup> / <sub>8</sub> -8	10
	10	6.2	186134	QSLL-G <sup>3</sup> / <sub>8</sub> -10	10
	12	7.5	186135	QSLL-G <sup>3</sup> / <sub>8</sub> -12	10
G <sup>1</sup> / <sub>2</sub>	12	8.3	186136	QSLL-G <sup>1</sup> / <sub>2</sub> -12	1
	16	10	190665	QSLL-G <sup>1</sup> / <sub>2</sub> -16	1

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

★ Quick ordering<sup>1)</sup>

## Push-in L-connector QSL



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	2.3	153070	QSL-4	10
6	6	3.6	153071	QSL-6	10
8	8	4.6	153072	QSL-8	10
10	10	6.2	153073	QSL-10	10
12	12	7.7	153074	QSL-12	10
16	16	10.8	153075	QSL-16	1

## Push-in L-connector QSL-...H

with push-in sleeve



Long push-in sleeve

Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Push-in sleeve	2 Tubing O.D. [mm]				
QS-4	4	2	153056	QSL-4H	10
QS-6	6	3.2	153057	QSL-6H	10
QS-8	8	4.7	153058	QSL-8H	10
QS-10	10	5.7	153059	QSL-10H	10
QS-12	12	6.8	153060	QSL-12H	10
Reducing					
QS-6	4	2.4	153061	QSL-6H-4	10
QS-8	6	3.5	153062	QSL-8H-6	10
QS-10	8	4.9	153063	QSL-10H-8	10
QS-12	10	6.1	153064	QSL-12H-10	10
Long push-in sleeve					
QS-4	4	2	153065	QSL-4HL	10
QS-6	6	3.1	153066	QSL-6HL	10
QS-8	8	4.5	153067	QSL-8HL	10
QS-10	10	5.6	153068	QSL-10HL	10
QS-12	12	6.7	153069	QSL-12HL	10

## Push-in L-fitting QSLF

Female thread with external hex



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Female thread	2 Tubing O.D. [mm]				
G-thread					
G <sup>1</sup> / <sub>8</sub>	4	2.1	153273	QSLF- <sup>1</sup> / <sub>8</sub> -4-B	10
	6	3.6	153274	QSLF- <sup>1</sup> / <sub>8</sub> -6-B	10
	8	4.7	153276	QSLF- <sup>1</sup> / <sub>8</sub> -8-B	10
G <sup>1</sup> / <sub>4</sub>	6	3.6	153275	QSLF- <sup>1</sup> / <sub>4</sub> -6-B	10
	8	4.7	153277	QSLF- <sup>1</sup> / <sub>4</sub> -8-B	10
	10	5.4	153279	QSLF- <sup>1</sup> / <sub>4</sub> -10-B	10
G <sup>3</sup> / <sub>8</sub>	8	4.8	153278	QSLF- <sup>3</sup> / <sub>8</sub> -8-B	10
	10	6.2	153280	QSLF- <sup>3</sup> / <sub>8</sub> -10-B	10

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

## Push-in fittings QS, Quick Star, standard series

FESTO

★ Quick ordering<sup>1)</sup>

## Push-in L-fitting QSLV

Male thread with external hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>Metric thread with sealing ring</b>					
M5	6	1.6	190666	QSLV-M5-6	10
<b>R-thread</b>					
R <sup>1</sup> / <sub>8</sub>	4	2.4	153086	QSLV-R <sup>1</sup> / <sub>8</sub> -4	10
	6	3.7	153087	QSLV-R <sup>1</sup> / <sub>8</sub> -6	10
	8	4.4	153089	QSLV-R <sup>1</sup> / <sub>8</sub> -8	10
R <sup>1</sup> / <sub>4</sub>	6	3.8	153088	QSLV-R <sup>1</sup> / <sub>4</sub> -6	10
	8	5	153090	QSLV-R <sup>1</sup> / <sub>4</sub> -8	10
	10	5.4	153092	QSLV-R <sup>1</sup> / <sub>4</sub> -10	10
R <sup>3</sup> / <sub>8</sub>	8	5.2	153091	QSLV-R <sup>3</sup> / <sub>8</sub> -8	10
	10	6.3	153093	QSLV-R <sup>3</sup> / <sub>8</sub> -10	10
	12	7.1	153094	QSLV-R <sup>3</sup> / <sub>8</sub> -12	10
R <sup>1</sup> / <sub>2</sub>	12	8	153095	QSLV-R <sup>1</sup> / <sub>2</sub> -12	1
	16	8.9	153096	QSLV-R <sup>1</sup> / <sub>2</sub> -16	1
<b>G-thread with sealing ring</b>					
G <sup>1</sup> / <sub>8</sub>	4	2.3	186137	QSLV-G <sup>1</sup> / <sub>8</sub> -4	10
	6	3.5	186138	QSLV-G <sup>1</sup> / <sub>8</sub> -6	10
	8	4	186140	QSLV-G <sup>1</sup> / <sub>8</sub> -8	10
G <sup>1</sup> / <sub>4</sub>	6	3.7	186139	QSLV-G <sup>1</sup> / <sub>4</sub> -6	10
	8	4.9	186141	QSLV-G <sup>1</sup> / <sub>4</sub> -8	10
	10	5.3	186143	QSLV-G <sup>1</sup> / <sub>4</sub> -10	10
G <sup>3</sup> / <sub>8</sub>	8	5.4	186142	QSLV-G <sup>3</sup> / <sub>8</sub> -8	10
	10	6.4	186144	QSLV-G <sup>3</sup> / <sub>8</sub> -10	10
	12	6.4	186145	QSLV-G <sup>3</sup> / <sub>8</sub> -12	10
G <sup>1</sup> / <sub>2</sub>	12	7	186146	QSLV-G <sup>1</sup> / <sub>2</sub> -12	1
	16	8.1	186147	QSLV-G <sup>1</sup> / <sub>2</sub> -16	1

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part



★ Quick ordering<sup>1)</sup>

## Push-in L-fitting QSLV-...-I

Male thread with internal hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>R-thread</b>					
R $\frac{1}{8}$	6	3	<b>153097</b>	<b>QSLV-<math>\frac{1}{8}</math>-6-I</b>	<b>10</b>
	8	4.2	<b>153099</b>	<b>QSLV-<math>\frac{1}{8}</math>-8-I</b>	<b>10</b>
R $\frac{1}{4}$	6	3.1	<b>153098</b>	<b>QSLV-<math>\frac{1}{4}</math>-6-I</b>	<b>10</b>
	8	4	<b>153100</b>	<b>QSLV-<math>\frac{1}{4}</math>-8-I</b>	<b>10</b>
	10	5.4	<b>153102</b>	<b>QSLV-<math>\frac{1}{4}</math>-10-I</b>	<b>10</b>
R $\frac{3}{8}$	8	4.2	<b>153101</b>	<b>QSLV-<math>\frac{3}{8}</math>-8-I</b>	<b>10</b>
	10	5.4	<b>153103</b>	<b>QSLV-<math>\frac{3}{8}</math>-10-I</b>	<b>10</b>
	12	6.9	<b>153104</b>	<b>QSLV-<math>\frac{3}{8}</math>-12-I</b>	<b>10</b>
R $\frac{1}{2}$	12	6.4	<b>153105</b>	<b>QSLV-<math>\frac{1}{2}</math>-12-I</b>	<b>1</b>
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	6	3	<b>186148</b>	<b>QSLV-G<math>\frac{1}{8}</math>-6-I</b>	<b>10</b>
	8	4.2	<b>186150</b>	<b>QSLV-G<math>\frac{1}{8}</math>-8-I</b>	<b>10</b>
G $\frac{1}{4}$	6	3.1	<b>186149</b>	<b>QSLV-G<math>\frac{1}{4}</math>-6-I</b>	<b>10</b>
	8	4	<b>186151</b>	<b>QSLV-G<math>\frac{1}{4}</math>-8-I</b>	<b>10</b>
	10	5.4	<b>186153</b>	<b>QSLV-G<math>\frac{1}{4}</math>-10-I</b>	<b>10</b>
G $\frac{3}{8}$	8	4.2	<b>186152</b>	<b>QSLV-G<math>\frac{3}{8}</math>-8-I</b>	<b>10</b>
	10	5.4	<b>186154</b>	<b>QSLV-G<math>\frac{3}{8}</math>-10-I</b>	<b>10</b>
	12	6.9	<b>186155</b>	<b>QSLV-G<math>\frac{3}{8}</math>-12-I</b>	<b>10</b>
G $\frac{1}{2}$	12	6.4	<b>186156</b>	<b>QSLV-G<math>\frac{1}{2}</math>-12-I</b>	<b>1</b>

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

# Push-in fittings QS, Quick Star, standard series

## ★ Quick ordering<sup>1)</sup>

### Push-in T-fitting QST

Male thread with external hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>R-thread</b>					
R <sup>1</sup> / <sub>8</sub>	4	4.1	<b>153106</b>	<b>QST-<sup>1</sup>/<sub>8</sub>-4</b>	<b>10</b>
	6	4.7	<b>153107</b>	<b>QST-<sup>1</sup>/<sub>8</sub>-6</b>	<b>10</b>
	8	5.4	<b>153109</b>	<b>QST-<sup>1</sup>/<sub>8</sub>-8</b>	<b>10</b>
	10	5.6	<b>190667</b>	<b>QST-<sup>1</sup>/<sub>8</sub>-10</b>	<b>10</b>
R <sup>1</sup> / <sub>4</sub>	4	2.3	<b>190668</b>	<b>QST-<sup>1</sup>/<sub>4</sub>-4</b>	<b>10</b>
	6	5.7	<b>153108</b>	<b>QST-<sup>1</sup>/<sub>4</sub>-6</b>	<b>10</b>
	8	6	<b>153110</b>	<b>QST-<sup>1</sup>/<sub>4</sub>-8</b>	<b>10</b>
	10	7.3	<b>153112</b>	<b>QST-<sup>1</sup>/<sub>4</sub>-10</b>	<b>10</b>
	12	6.2	<b>190669</b>	<b>QST-<sup>1</sup>/<sub>4</sub>-12</b>	<b>10</b>
R <sup>3</sup> / <sub>8</sub>	6	3.6	<b>190670</b>	<b>QST-<sup>3</sup>/<sub>8</sub>-6</b>	<b>10</b>
	8	7.2	<b>153111</b>	<b>QST-<sup>3</sup>/<sub>8</sub>-8</b>	<b>10</b>
	10	8	<b>153113</b>	<b>QST-<sup>3</sup>/<sub>8</sub>-10</b>	<b>10</b>
	12	8.8	<b>153114</b>	<b>QST-<sup>3</sup>/<sub>8</sub>-12</b>	<b>10</b>
	16	10.1	<b>164959</b>	<b>QST-<sup>3</sup>/<sub>8</sub>-16</b>	<b>1</b>
R <sup>1</sup> / <sub>2</sub>	10	6.2	<b>190672</b>	<b>QST-<sup>1</sup>/<sub>2</sub>-10</b>	<b>1</b>
	12	9.9	<b>153115</b>	<b>QST-<sup>1</sup>/<sub>2</sub>-12</b>	<b>1</b>
	16	10.8	<b>153116</b>	<b>QST-<sup>1</sup>/<sub>2</sub>-16</b>	<b>1</b>
<b>G-thread with sealing ring</b>					
G <sup>1</sup> / <sub>8</sub>	4	2.3	<b>186157</b>	<b>QST-G<sup>1</sup>/<sub>8</sub>-4</b>	<b>10</b>
	6	3.6	<b>186158</b>	<b>QST-G<sup>1</sup>/<sub>8</sub>-6</b>	<b>10</b>
	8	4.6	<b>186160</b>	<b>QST-G<sup>1</sup>/<sub>8</sub>-8</b>	<b>10</b>
G <sup>1</sup> / <sub>4</sub>	6	3.6	<b>186159</b>	<b>QST-G<sup>1</sup>/<sub>4</sub>-6</b>	<b>10</b>
	8	4.6	<b>186161</b>	<b>QST-G<sup>1</sup>/<sub>4</sub>-8</b>	<b>10</b>
	10	6.2	<b>186163</b>	<b>QST-G<sup>1</sup>/<sub>4</sub>-10</b>	<b>10</b>
	12	8	<b>132597</b>	<b>QST-G<sup>1</sup>/<sub>4</sub>-12</b>	<b>1</b>
G <sup>3</sup> / <sub>8</sub>	8	4.6	<b>186162</b>	<b>QST-G<sup>3</sup>/<sub>8</sub>-8</b>	<b>10</b>
	10	6.2	<b>186164</b>	<b>QST-G<sup>3</sup>/<sub>8</sub>-10</b>	<b>10</b>
	12	7.7	<b>186165</b>	<b>QST-G<sup>3</sup>/<sub>8</sub>-12</b>	<b>10</b>
	16	10.1	<b>186349</b>	<b>QST-G<sup>3</sup>/<sub>8</sub>-16</b>	<b>1</b>
G <sup>1</sup> / <sub>2</sub>	12	7.7	<b>186166</b>	<b>QST-G<sup>1</sup>/<sub>2</sub>-12</b>	<b>1</b>
	16	10.8	<b>186167</b>	<b>QST-G<sup>1</sup>/<sub>2</sub>-16</b>	<b>1</b>

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

★ Quick ordering<sup>1)</sup>

## Push-in T-connector QST



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	2.6	153128	QST-4	10
6	6	4	153129	QST-6	10
8	8	5	153130	QST-8	10
10	10	6.7	153131	QST-10	10
12	12	8.7	153132	QST-12	10
16	16	10.7	153133	QST-16	1
Reducing					
6	4	2.3	153134	QST-6-4	10
8	4	2.3	130613	QST-8-4	10
8	6	3.5	153135	QST-8-6	10
10	6	3.7	130614	QST-10-6	10
10	8	4.9	153136	QST-10-8	10
12	8	5.1	130615	QST-12-8	10
12	10	6.1	153137	QST-12-10	10
16	12	7.6	130616	QST-16-12	1

## Push-in T-fitting QSTF

Female and male thread with external hex, rotatable



R-thread

G-thread

Pneumatic connection			Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Male thread	2 Female thread	Tubing O.D. [mm]				
R-thread						
R $\frac{1}{8}$	G $\frac{1}{8}$	4	2.5	153182	QSTF- $\frac{1}{8}$ -4-B	1
		6	3.3	153183	QSTF- $\frac{1}{8}$ -6-B	1
		8	3.6	153185	QSTF- $\frac{1}{8}$ -8-B	1
R $\frac{1}{4}$	G $\frac{1}{4}$	6	3.6	153184	QSTF- $\frac{1}{4}$ -6-B	1
		8	4.4	153186	QSTF- $\frac{1}{4}$ -8-B	1
		10	4.4	153188	QSTF- $\frac{1}{4}$ -10-B	1
R $\frac{3}{8}$	G $\frac{3}{8}$	8	4.9	153187	QSTF- $\frac{3}{8}$ -8-B	1
		10	5.6	153189	QSTF- $\frac{3}{8}$ -10-B	1
		12	6	153190	QSTF- $\frac{3}{8}$ -12-B	1
R $\frac{1}{2}$	G $\frac{1}{2}$	12	7.4	153191	QSTF- $\frac{1}{2}$ -12-B	1
G-thread with sealing ring						
G $\frac{1}{8}$	G $\frac{1}{8}$	4	2.4	186199	QSTF-G $\frac{1}{8}$ -4	1
		6	3.2	186200	QSTF-G $\frac{1}{8}$ -6	1
		8	3.7	186202	QSTF-G $\frac{1}{8}$ -8	1
G $\frac{1}{4}$	G $\frac{1}{4}$	6	3.7	186201	QSTF-G $\frac{1}{4}$ -6	1
		8	4.4	186203	QSTF-G $\frac{1}{4}$ -8	1
		10	4.9	186205	QSTF-G $\frac{1}{4}$ -10	1
G $\frac{3}{8}$	G $\frac{3}{8}$	8	4.9	186204	QSTF-G $\frac{3}{8}$ -8	1
		10	5.8	186206	QSTF-G $\frac{3}{8}$ -10	1
		12	6	186207	QSTF-G $\frac{3}{8}$ -12	1
G $\frac{1}{2}$	G $\frac{1}{2}$	12	7	186208	QSTF-G $\frac{1}{2}$ -12	1

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

# Push-in fittings QS, Quick Star, standard series

FESTO

## ★ Quick ordering<sup>1)</sup>

### Push-in T-fitting QSTL

Male thread with external hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>R-thread</b>					
R <sup>1</sup> / <sub>8</sub>	4	2.6	153117	QSTL- <sup>1</sup> / <sub>8</sub> -4	10
	6	4	153118	QSTL- <sup>1</sup> / <sub>8</sub> -6	10
	8	5	153120	QSTL- <sup>1</sup> / <sub>8</sub> -8	10
R <sup>1</sup> / <sub>4</sub>	6	4	153119	QSTL- <sup>1</sup> / <sub>4</sub> -6	10
	8	5	153121	QSTL- <sup>1</sup> / <sub>4</sub> -8	10
	10	6.7	153123	QSTL- <sup>1</sup> / <sub>4</sub> -10	10
R <sup>3</sup> / <sub>8</sub>	8	5	153122	QSTL- <sup>3</sup> / <sub>8</sub> -8	10
	10	6.7	153124	QSTL- <sup>3</sup> / <sub>8</sub> -10	10
	12	8.7	153125	QSTL- <sup>3</sup> / <sub>8</sub> -12	10
R <sup>1</sup> / <sub>2</sub>	12	8.7	153126	QSTL- <sup>1</sup> / <sub>2</sub> -12	1
	16	10.9	153127	QSTL- <sup>1</sup> / <sub>2</sub> -16	1
<b>G-thread with sealing ring</b>					
G <sup>1</sup> / <sub>8</sub>	4	2.6	186168	QSTL-G <sup>1</sup> / <sub>8</sub> -4	10
	6	4	186169	QSTL-G <sup>1</sup> / <sub>8</sub> -6	10
	8	5	186171	QSTL-G <sup>1</sup> / <sub>8</sub> -8	10
G <sup>1</sup> / <sub>4</sub>	6	4	186170	QSTL-G <sup>1</sup> / <sub>4</sub> -6	10
	8	5	186172	QSTL-G <sup>1</sup> / <sub>4</sub> -8	10
	10	6.7	186174	QSTL-G <sup>1</sup> / <sub>4</sub> -10	10
G <sup>3</sup> / <sub>8</sub>	8	5	186173	QSTL-G <sup>3</sup> / <sub>8</sub> -8	10
	10	6.7	186175	QSTL-G <sup>3</sup> / <sub>8</sub> -10	10
	12	8.7	186176	QSTL-G <sup>3</sup> / <sub>8</sub> -12	10
G <sup>1</sup> / <sub>2</sub>	12	8.7	186177	QSTL-G <sup>1</sup> / <sub>2</sub> -12	1
	16	10.9	186178	QSTL-G <sup>1</sup> / <sub>2</sub> -16	1

### Push-in fitting QSW

Male thread with external hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>R-thread</b>					
R <sup>1</sup> / <sub>8</sub>	4	2.5	130596	QSW- <sup>1</sup> / <sub>8</sub> -4	10
	6	3.3	130597	QSW- <sup>1</sup> / <sub>8</sub> -6	10
	8	5.3	130598	QSW- <sup>1</sup> / <sub>8</sub> -8	10
R <sup>1</sup> / <sub>4</sub>	6	3.3	130599	QSW- <sup>1</sup> / <sub>4</sub> -6	10
	8	5.3	130600	QSW- <sup>1</sup> / <sub>4</sub> -8	10
	10	7	130601	QSW- <sup>1</sup> / <sub>4</sub> -10	10
R <sup>3</sup> / <sub>8</sub>	10	7	130602	QSW- <sup>3</sup> / <sub>8</sub> -10	10
	12	7.5	130603	QSW- <sup>3</sup> / <sub>8</sub> -12	10
R <sup>1</sup> / <sub>2</sub>	12	7.5	130604	QSW- <sup>1</sup> / <sub>2</sub> -12	1
	16	10.7	130605	QSW- <sup>1</sup> / <sub>2</sub> -16	1

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

★ Quick ordering<sup>1)</sup>

Push-in connector QSW-...HL  
with push-in sleeve



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Push-in sleeve	Tubing O.D. [mm]	[mm]			
QS-4	4	2	130617	QSW-4HL	10
QS-6	6	2.7	130618	QSW-6HL	10
QS-8	8	5	130619	QSW-8HL	10
QS-10	10	6.3	130620	QSW-10HL	10
QS-12	12	6.9	130621	QSW-12HL	10

## Push-in Y-fitting QSY

Male thread with external hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>Metric thread with sealing ring</b>					
M5	4	1.4	190673	QSY-M5-4	10
	6	1.4	190674	QSY-M5-6	10
<b>R-thread</b>					
R $\frac{1}{8}$	4	2.3	153138	QSY- $\frac{1}{8}$ -4	10
	6	3.6	153139	QSY- $\frac{1}{8}$ -6	10
	8	4.6	153141	QSY- $\frac{1}{8}$ -8	10
R $\frac{1}{4}$	4	2.3	190675	QSY- $\frac{1}{4}$ -4	10
	6	3.6	153140	QSY- $\frac{1}{4}$ -6	10
	8	4.6	153142	QSY- $\frac{1}{4}$ -8	10
	10	6.2	153144	QSY- $\frac{1}{4}$ -10	10
R $\frac{3}{8}$	8	4.6	153143	QSY- $\frac{3}{8}$ -8	10
	10	6.2	153145	QSY- $\frac{3}{8}$ -10	10
	12	6.9	153146	QSY- $\frac{3}{8}$ -12	10
R $\frac{1}{2}$	12	6.9	153147	QSY- $\frac{1}{2}$ -12	1
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	2.3	186179	QSY-G $\frac{1}{8}$ -4	10
	6	3.6	186180	QSY-G $\frac{1}{8}$ -6	10
	8	4.6	186182	QSY-G $\frac{1}{8}$ -8	10
G $\frac{1}{4}$	6	3.6	186181	QSY-G $\frac{1}{4}$ -6	10
	8	4.6	186183	QSY-G $\frac{1}{4}$ -8	10
	10	6.2	186185	QSY-G $\frac{1}{4}$ -10	10
G $\frac{3}{8}$	8	4.6	186184	QSY-G $\frac{3}{8}$ -8	10
	10	6.2	186186	QSY-G $\frac{3}{8}$ -10	10
	12	6.9	186187	QSY-G $\frac{3}{8}$ -12	10
G $\frac{1}{2}$	12	6.9	186188	QSY-G $\frac{1}{2}$ -12	1

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

## Push-in fittings QS, Quick Star, standard series

FESTO

★ Quick ordering<sup>1)</sup>

## Push-in Y-connector QSY



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
4	4	2.3	<b>153148</b>	<b>QSY-4</b>	<b>10</b>
6	6	3.6	<b>153149</b>	<b>QSY-6</b>	<b>10</b>
8	8	4.6	<b>153150</b>	<b>QSY-8</b>	<b>10</b>
10	10	5.9	<b>153151</b>	<b>QSY-10</b>	<b>10</b>
12	12	7	<b>153152</b>	<b>QSY-12</b>	<b>10</b>
16	16	8.5	<b>130609</b>	<b>QSY-16</b>	<b>1</b>
2 reducing outlets					
6	4	2.3	<b>153153</b>	<b>QSY-6-4</b>	<b>10</b>
8	4	1.7	<b>130610</b>	<b>QSY-8-4</b>	<b>10</b>
8	6	3.2	<b>153154</b>	<b>QSY-8-6</b>	<b>10</b>
10	6	3.3	<b>130611</b>	<b>QSY-10-6</b>	<b>10</b>
10	8	4.5	<b>153155</b>	<b>QSY-10-8</b>	<b>10</b>
12	8	4.5	<b>130612</b>	<b>QSY-12-8</b>	<b>10</b>
12	10	5.8	<b>153156</b>	<b>QSY-12-10</b>	<b>10</b>
16	12	7	<b>190708</b>	<b>QSY-16-12</b>	<b>1</b>

## Push-in Y-connector QSY-...H

with push-in sleeve



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>2)</sup>
1 Push-in sleeve	2 Tubing O.D. [mm]				
QS-4	4	1.6	<b>130628</b>	<b>QSY-4H</b>	<b>10</b>
QS-6	6	3.1	<b>133145</b>	<b>QSY-6H-B</b>	<b>10</b>
QS-8	8	4.6	<b>133146</b>	<b>QSY-8H-B</b>	<b>10</b>
QS-10	10	5.9	<b>133148</b>	<b>QSY-10H-B</b>	<b>10</b>
QS-12	12	7.3	<b>133150</b>	<b>QSY-12H-B</b>	<b>10</b>
Reducing					
QS-6	4	2.3	<b>130633</b>	<b>QSY-6H-4</b>	<b>10</b>
QS-8	6	3.6	<b>133147</b>	<b>QSY-8H-6-B</b>	<b>10</b>
QS-10	8	4.6	<b>133149</b>	<b>QSY-10H-8-B</b>	<b>10</b>
QS-12	10	5.9	<b>133151</b>	<b>QSY-12H-10-B</b>	<b>10</b>

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part

★ Quick ordering<sup>1)</sup>

## Push-in Y-fitting QSYL

Male thread with external hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>R-thread</b>					
R $\frac{1}{8}$	4	1.9	153172	QSYL- $\frac{1}{8}$ -4	1
	6	3	153173	QSYL- $\frac{1}{8}$ -6	1
	8	4.3	153175	QSYL- $\frac{1}{8}$ -8	1
R $\frac{1}{4}$	6	2.9	153174	QSYL- $\frac{1}{4}$ -6	1
	8	4.3	153176	QSYL- $\frac{1}{4}$ -8	1
	10	5.8	153178	QSYL- $\frac{1}{4}$ -10	1
R $\frac{3}{8}$	8	4.4	153177	QSYL- $\frac{3}{8}$ -8	1
	10	5.9	153179	QSYL- $\frac{3}{8}$ -10	1
	12	7.4	153180	QSYL- $\frac{3}{8}$ -12	1
R $\frac{1}{2}$	12	7.3	153181	QSYL- $\frac{1}{2}$ -12	1
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	1.9	186189	QSYL-G $\frac{1}{8}$ -4	1
	6	3	186190	QSYL-G $\frac{1}{8}$ -6	1
	8	4.3	186192	QSYL-G $\frac{1}{8}$ -8	1
G $\frac{1}{4}$	6	2.9	186191	QSYL-G $\frac{1}{4}$ -6	1
	8	4.3	186193	QSYL-G $\frac{1}{4}$ -8	1
	10	5.8	186195	QSYL-G $\frac{1}{4}$ -10	1
G $\frac{3}{8}$	8	4.4	186194	QSYL-G $\frac{3}{8}$ -8	1
	10	5.9	186196	QSYL-G $\frac{3}{8}$ -10	1
	12	7.4	186197	QSYL-G $\frac{3}{8}$ -12	1
G $\frac{1}{2}$	12	7.3	186198	QSYL-G $\frac{1}{2}$ -12	1

## Push-in Y-fitting QSYLV

Male thread with external hex, rotatable



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Male thread	Tubing O.D. [mm]	[mm]			
<b>R-thread</b>					
R $\frac{1}{8}$	6	3.3	153192	QSYLV- $\frac{1}{8}$ -6	1
R $\frac{1}{4}$	8	4.4	153193	QSYLV- $\frac{1}{4}$ -8	1
R $\frac{3}{8}$	10	5.7	153194	QSYLV- $\frac{3}{8}$ -10	1
R $\frac{1}{2}$	12	7.1	153195	QSYLV- $\frac{1}{2}$ -12	1
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	6	3.5	186209	QSYLV-G $\frac{1}{8}$ -6	1
G $\frac{1}{4}$	8	4.7	186210	QSYLV-G $\frac{1}{4}$ -8	1
G $\frac{3}{8}$	10	5.2	186211	QSYLV-G $\frac{3}{8}$ -10	1
G $\frac{1}{2}$	12	7	186212	QSYLV-G $\frac{1}{2}$ -12	1

1) All products in this table are easy to select and quick to order.

2) Packaging unit per part



Overview/Configuration/Ordering  
→ [www.festo.com/catalogue/qsq](http://www.festo.com/catalogue/qsq)



Additional information/Support/User documentation  
→ [www.festo.com/sp/qsq](http://www.festo.com/sp/qsq)

Fittings  
Push-in fittings

Self-sealing/rotary push-in fittings

# QSSK



- + Standard series
- + Male thread with external hex
- + Push-in fitting that blocks the air flow after the tubing is disconnected
- + Push-in fitting with swivel connection, rotatable by 360° with max. 500 rpm



# Self-sealing/rotary push-in fittings QS, Quick Star




- 3 thread versions
- Self-sealing push-in fitting blocks the air flow after the tubing is disconnected
- Rotary push-in fitting, rotates 360°, with ball bearing
- ★ Quick ordering of basic designs → 1122

[www.festo.com/catalogue/qs](http://www.festo.com/catalogue/qs)

## Features

### Rotatable



The fitting can be aligned after assembly.

### Rotatable 360°, with ball bearing



Permits rotational movement of up to 500 rpm during use.

## Product range overview

Type	Version	Design	Pneumatic connection 1				Pneumatic connection 2 Tubing O.D.	→ Page/ online
			M-thread	R-thread	G-thread	Tubing O.D.		
<b>Self-sealing push-in fitting QS, Quick Star</b>								
QSK	Push-in fitting	Straight	■	■	■	-	■	<a href="#">qsk</a>
	Push-in connector		-	-	-	■	■	
QSSK	Push-in bulkhead connector		-	-	-	■	■	1122
QSKL	Push-in fitting	L-shape	■	■	■	-	■	<a href="#">qskl</a>
<b>Rotary push-in fitting QS, Quick Star</b>								
QSR	Push-in fitting	Straight	■	■	■	-	■	<a href="#">qsr</a>
QSRL	Push-in fitting	L-shape	■	■	■	-	■	<a href="#">qsrl</a>

## Data sheet

Operating conditions		Self-sealing push-in fitting QS, Quick Star	Rotary push-in fitting QS, Quick Star
Type			
Operating medium		Compressed air to ISO 8573-1:2010 [7:-:-]	Water as per manufacturer's declaration <sup>1)</sup>
Note on operating/pilot medium		Operation with lubricated medium possible	
Operating pressure for entire temperature range [bar]		-0.95 ... +6	
Temperature-dependent operating pressure [bar]		-0.95 ... +14	
Ambient temperature [°C]		-10 ... +80	0 ... +60

1) Push-in bulkhead connector QSSK only.  
Additional information at [www.festo.com/sp](http://www.festo.com/sp) → User Documentation.

Materials	
Housing	PBT, nickel-plated brass
Tube retaining claw	High-alloy stainless steel
Releasing ring	POM
Tubing seal	Nitrile rubber

## Self-sealing push-in fittings QS, Quick Star

★ Quick ordering<sup>1)</sup>

## Push-in bulkhead connector QSSK



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>2)</sup>
1	2				
Tubing O.D. [mm]	Tubing O.D. [mm]	[mm]			
4	4	1.5	<b>130637</b>	<b>QSSK-4</b>	<b>1</b>
6	6	3	<b>130638</b>	<b>QSSK-6</b>	<b>1</b>
8	8	4.3	<b>130639</b>	<b>QSSK-8</b>	<b>1</b>
10	10	5.4	<b>130640</b>	<b>QSSK-10</b>	<b>1</b>
12	12	6.3	<b>130641</b>	<b>QSSK-12</b>	<b>1</b>

1) All products in this table are easy to select and quick to order.

<sup>2)</sup> Packaging unit per part



Overview/Configuration/Ordering  
→ [www.festo.com/catalogue/npck](http://www.festo.com/catalogue/npck)



Additional information/Support/User documentation  
→ [www.festo.com/sp/npck](http://www.festo.com/sp/npck)

Fittings  
Barbed fittings

Quick connector

# NPCK



- + Stainless steel fitting for use in areas subject to intensive cleaning
- + Highly resistant to corrosion
- + For pneumatic applications with a temperature range up to 120°C and a pressure range up to 12 bar



- Suitable for use in the food industry, satisfies all Clean Design requirements
- Stainless steel design
- Suitable for use with water as an operating medium

→ [www.festo.com/catalogue/npck](http://www.festo.com/catalogue/npck)

## Data sheet

Technical data						
Pneumatic connection 1	Male thread					
	M5	G $\frac{1}{8}$		G $\frac{1}{4}$		G $\frac{3}{8}$
Pneumatic connection 2	For tubing O.D. 4 mm	For tubing O.D. 6 mm	For tubing O.D. 8 mm	For tubing O.D. 8 mm	For tubing O.D. 10 mm	For tubing O.D. 10 mm
Type of seal on stud end connector	O-ring	Sealing ring				

Operating conditions	
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-] Water as per manufacturer's declaration <sup>1)</sup>
Note on operating/pilot medium	Lubricated operation possible
Operating pressure for entire temperature range [bar]	-0.95 ... +12
Ambient temperature [°C]	-20 ... +120 <sup>2)</sup>

1) Additional information at [www.festo.com/sp](http://www.festo.com/sp) → User Documentation.

2) Other possibilities: The fitting can be used in the temperature range from -40 ... +60 °C when suitable tubing is used. The maximum permissible operating pressure of the tubing must not be exceeded.

Materials				
Pneumatic connection	M5	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{3}{8}$
Housing	High-alloy stainless steel			
Threaded plug	High-alloy stainless steel			
Sealing ring	EPDM	PEEK		

## Ordering data

### Fitting NPCK-C-D

Male thread with external hex



Pneumatic connection		Nominal size	Part no.	Type	PU <sup>3)</sup>
1 Male thread	2 Tubing O.D. [mm]	[mm]			
<b>Metric thread with O-ring</b>					
M5	4	2	<b>1857681</b>	<b>NPCK-C-D-M5-K4</b>	<b>1</b>
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	6	2.9	<b>1366257</b>	<b>NPCK-C-D-G18-K6</b>	<b>1</b>
	8	4.9	<b>1490383</b>	<b>NPCK-C-D-G18-K8</b>	<b>1</b>
G $\frac{1}{4}$	8	4.9	<b>1691701</b>	<b>NPCK-C-D-G14-K8</b>	<b>1</b>
	10	6.1	<b>1489336</b>	<b>NPCK-C-D-G14-K10</b>	<b>1</b>
G $\frac{3}{8}$	10	6.2	<b>1489614</b>	<b>NPCK-C-D-G38-K10</b>	<b>1</b>

3) Packaging unit quantity



Overview/Configuration/Ordering  
→ [www.festo.com/catalogue/npfc](http://www.festo.com/catalogue/npfc)



Additional information/Support/User documentation  
→ [www.festo.com/sp/npfc](http://www.festo.com/sp/npfc)

Fittings  
Threaded fittings  
Threaded fitting

# NPFC



- + Wide range of variants:
  - Sleeve, reducing sleeve
  - Extension
  - Double nipple, reducing nipple
  - L-, T-, Y- and X-shape

# Threaded fittings NPFC



- Sleeve
- Reducing sleeve
- Extension
- Double nipple
- Reducing nipple
- L-, T-, Y- or X-fitting
- With female and male thread

→ [www.festo.com/catalogue/npfc](http://www.festo.com/catalogue/npfc)

## Product range overview

Type	Version	Design	Pneumatic connection 1			Pneumatic connection 2			→ Page/ online
			M-thread	G-thread	R-thread <sup>1)</sup>	M-thread	G-thread	R-thread <sup>1)</sup>	
NPFC-S	Sleeve	Straight	■	■	–	■	■	–	1127
NPFC-R	Reducing sleeve		–	■	–	–	■	–	
NPFC-E	Extension		–	■	–	–	■	–	
NPFC-D	Double nipple		■	■	■	■	■	■	1128
NPFC-R	Reducing nipple	–	■	–	■	■	–		
NPFC-L	Elbow fitting	L-shape	■	■	■	■	■	■	1129
NPFC-T	T-fitting	T-shape	■	■	■	■	■	■	1130
NPFC-Y	Y-fitting	Y-shape	–	■	■	–	■	–	1131
NPFC-X	X-fitting	X-shape	–	■	■	–	■	–	1132

1) Sealing with thread sealing tape, GWB-0,1 (→ 1147) is recommended.

## Data sheet

Operating conditions		
Operating medium		Compressed air to ISO 8573-1:2010 [:::]
		Gases on request
		Liquids on request
Operating pressure	[bar]	–0.95 ... +50
Ambient temperature	[°C]	–20 ... +150
Materials		
Threaded fitting		Nickel-plated brass

## Ordering data

## Sleeve NPFC-S



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	Female thread			
<b>Metric thread</b>				
M5		<b>8030290</b>	<b>NPFC-S-2M5-F</b>	<b>10</b>
<b>G-thread</b>				
G $\frac{1}{8}$		<b>8030291</b>	<b>NPFC-S-2G18-F</b>	<b>10</b>
G $\frac{1}{4}$		<b>8030292</b>	<b>NPFC-S-2G14-F</b>	<b>10</b>
G $\frac{3}{8}$		<b>8030293</b>	<b>NPFC-S-2G38-F</b>	<b>10</b>
G $\frac{1}{2}$		<b>8030294</b>	<b>NPFC-S-2G12-F</b>	<b>10</b>
G $\frac{3}{4}$		<b>8030295</b>	<b>NPFC-S-2G34-F</b>	<b>10</b>

## Reducing sleeve NPFC-R



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	Female thread			
2	Female thread			
<b>G-thread</b>				
G $\frac{3}{8}$	G $\frac{1}{8}$	<b>8030296</b>	<b>NPFC-R-G38-G18-F</b>	<b>10</b>
G $\frac{1}{4}$	G $\frac{1}{2}$	<b>8030297</b>	<b>NPFC-R-G34-G12-F</b>	<b>10</b>

## Extension NPFC-E



Pneumatic connection		Length	Part no.	Type	PU <sup>1)</sup>
1	Female thread				
2	Male thread	[mm]			
<b>G-thread, extension E1</b>					
G $\frac{1}{8}$	G $\frac{1}{8}$	22	<b>8030298</b>	<b>NPFC-E1-2G18-FM</b>	<b>10</b>
G $\frac{1}{4}$	G $\frac{1}{4}$	28	<b>8030299</b>	<b>NPFC-E1-2G14-FM</b>	<b>10</b>
G $\frac{3}{8}$	G $\frac{3}{8}$	32	<b>8030300</b>	<b>NPFC-E1-2G38-FM</b>	<b>10</b>
G $\frac{1}{2}$	G $\frac{1}{2}$	35	<b>8030301</b>	<b>NPFC-E1-2G12-FM</b>	<b>10</b>
<b>G-thread, extension E2</b>					
G $\frac{1}{8}$	G $\frac{1}{8}$	32	<b>8030302</b>	<b>NPFC-E2-2G18-FM</b>	<b>10</b>
G $\frac{1}{4}$	G $\frac{1}{4}$	35	<b>8030303</b>	<b>NPFC-E2-2G14-FM</b>	<b>10</b>
<b>G-thread, extension E3</b>					
G $\frac{1}{8}$	G $\frac{1}{8}$	42	<b>8030304</b>	<b>NPFC-E3-2G18-FM</b>	<b>10</b>
G $\frac{1}{4}$	G $\frac{1}{4}$	51	<b>8030305</b>	<b>NPFC-E3-2G14-FM</b>	<b>10</b>
<b>G-thread, extension E4</b>					
G $\frac{1}{8}$	G $\frac{1}{8}$	51	<b>8030306</b>	<b>NPFC-E4-2G18-FM</b>	<b>10</b>

1) Packaging unit per part

# Threaded fittings NPFC

## Ordering data

### Double nipple NPFC-D



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	2			
Male thread	Male thread			
<b>Metric thread</b>				
M5	M5	8030267	NPFC-D-2M5-M	10
M7	G $\frac{1}{8}$	8030268	NPFC-D-M7-G18-M	10
<b>G-thread</b>				
G $\frac{1}{8}$	G $\frac{1}{8}$	8030269	NPFC-D-2G18-M	10
	G $\frac{1}{4}$	8030270	NPFC-D-G18-G14-M	10
	G $\frac{3}{8}$	8030271	NPFC-D-G18-G38-M	10
G $\frac{1}{4}$	G $\frac{1}{4}$	8030272	NPFC-D-2G14-M	10
	G $\frac{3}{8}$	8030273	NPFC-D-G14-G38-M	10
	G $\frac{1}{2}$	8030274	NPFC-D-G14-G12-M	10
G $\frac{3}{8}$	G $\frac{3}{8}$	8030275	NPFC-D-2G38-M	10
	G $\frac{1}{2}$	8030276	NPFC-D-G38-G12-M	10
G $\frac{1}{2}$	G $\frac{1}{2}$	8030277	NPFC-D-2G12-M	10
<b>R-thread</b>				
R $\frac{1}{8}$	R $\frac{1}{8}$	8030278	NPFC-D-2R18-M	10
	R $\frac{1}{4}$	8030279	NPFC-D-R18-R14-M	10
	R $\frac{3}{8}$	8030280	NPFC-D-R18-R38-M	10
R $\frac{1}{4}$	R $\frac{1}{4}$	8030281	NPFC-D-2R14-M	10
	R $\frac{3}{8}$	8030282	NPFC-D-R14-R38-M	10
	R $\frac{1}{2}$	8030283	NPFC-D-R14-R12-M	10
R $\frac{3}{8}$	R $\frac{3}{8}$	8030284	NPFC-D-2R38-M	10
	R $\frac{1}{2}$	8030285	NPFC-D-R38-R12-M	10
R $\frac{1}{2}$	R $\frac{1}{2}$	8030286	NPFC-D-2R12-M	10
	R $\frac{3}{4}$	8030287	NPFC-D-R12-R34-M	10
R $\frac{3}{4}$	R $\frac{3}{4}$	8030288	NPFC-D-2R34-M	10
R1	R1	8030289	NPFC-D-2R1-M	10

### Reducing nipple NPFC-R



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	2			
Female thread	Male thread			
<b>G-thread</b>				
G $\frac{1}{8}$	M5	8030314	NPFC-R-G18-M5-FM	10
G $\frac{1}{4}$	G $\frac{1}{8}$	8030315	NPFC-R-G14-G18-FM	10
G $\frac{3}{8}$	G $\frac{1}{8}$	8030316	NPFC-R-G38-G18-FM	10
	G $\frac{1}{4}$	8030317	NPFC-R-G38-G14-FM	10
G $\frac{1}{2}$	G $\frac{3}{8}$	8030318	NPFC-R-G12-G38-FM	10

### Reducing nipple NPFC-R



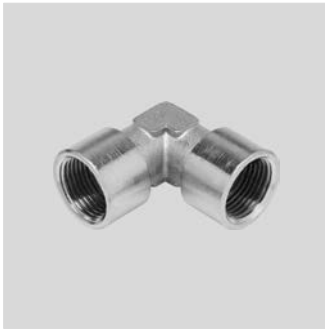
Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	2			
Male thread	Female thread			
<b>G-thread</b>				
G $\frac{1}{8}$	M5	8030307	NPFC-R-G18-M5-MF	10
G $\frac{1}{4}$	G $\frac{1}{8}$	8030308	NPFC-R-G14-G18-MF	10
G $\frac{3}{8}$	G $\frac{1}{8}$	8030309	NPFC-R-G38-G18-MF	10
	G $\frac{1}{4}$	8030310	NPFC-R-G38-G14-MF	10
G $\frac{1}{2}$	G $\frac{1}{4}$	8030311	NPFC-R-G12-G14-MF	10
	G $\frac{3}{8}$	8030312	NPFC-R-G12-G38-MF	10
G $\frac{3}{4}$	G $\frac{1}{2}$	8030313	NPFC-R-G34-G12-MF	10

<sup>1)</sup> Packaging unit per part



## Ordering data

## Elbow fitting NPFC-L



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	Female thread			
<b>Metric thread</b>				
M5		<b>8030208</b>	<b>NPFC-L-2M5-F</b>	<b>10</b>
<b>G-thread</b>				
G $\frac{1}{8}$		<b>8030209</b>	<b>NPFC-L-2G18-F</b>	<b>10</b>
G $\frac{1}{4}$		<b>8030210</b>	<b>NPFC-L-2G14-F</b>	<b>10</b>
G $\frac{3}{8}$		<b>8030211</b>	<b>NPFC-L-2G38-F</b>	<b>10</b>
G $\frac{1}{2}$		<b>8030212</b>	<b>NPFC-L-2G12-F</b>	<b>10</b>
G $\frac{3}{4}$		<b>8030213</b>	<b>NPFC-L-2G34-F</b>	<b>10</b>
G1		<b>8030214</b>	<b>NPFC-L-2G1-F</b>	<b>10</b>

## Elbow fitting NPFC-L



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	2			
Male thread	Female thread			
<b>Metric thread</b>				
M5	M5	<b>8030215</b>	<b>NPFC-L-2M5-MF</b>	<b>10</b>
<b>R-thread/G-thread</b>				
R $\frac{1}{8}$	G $\frac{1}{8}$	<b>8030216</b>	<b>NPFC-L-R18-G18-MF</b>	<b>10</b>
R $\frac{1}{4}$	G $\frac{1}{4}$	<b>8030217</b>	<b>NPFC-L-R14-G14-MF</b>	<b>10</b>
R $\frac{3}{8}$	G $\frac{3}{8}$	<b>8030218</b>	<b>NPFC-L-R38-G38-MF</b>	<b>10</b>
R $\frac{1}{2}$	G $\frac{1}{2}$	<b>8030219</b>	<b>NPFC-L-R12-G12-MF</b>	<b>10</b>
R $\frac{3}{4}$	G $\frac{3}{4}$	<b>8030220</b>	<b>NPFC-L-R34-G34-MF</b>	<b>10</b>
R1	G1	<b>8030221</b>	<b>NPFC-L-R1-G1-MF</b>	<b>10</b>

## Elbow fitting NPFC-L



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	Male thread			
<b>Metric thread</b>				
M5		<b>8030222</b>	<b>NPFC-L-2M5-M</b>	<b>10</b>
<b>R-thread</b>				
R $\frac{1}{8}$		<b>8030223</b>	<b>NPFC-L-2R18-M</b>	<b>10</b>
R $\frac{1}{4}$		<b>8030224</b>	<b>NPFC-L-2R14-M</b>	<b>10</b>
R $\frac{3}{8}$		<b>8030225</b>	<b>NPFC-L-2R38-M</b>	<b>10</b>
R $\frac{1}{2}$		<b>8030226</b>	<b>NPFC-L-2R12-M</b>	<b>10</b>
R $\frac{3}{4}$		<b>8030227</b>	<b>NPFC-L-2R34-M</b>	<b>10</b>

1) Packaging unit per part

# Threaded fittings NPFC

## Ordering data

### T-fitting NPFC-T



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	Female thread			
<b>G-thread</b>				
	G <sup>1</sup> / <sub>8</sub>	<b>8030235</b>	<b>NPFC-T-3G18-F</b>	<b>10</b>
	G <sup>1</sup> / <sub>4</sub>	<b>8030236</b>	<b>NPFC-T-3G14-F</b>	<b>10</b>
	G <sup>3</sup> / <sub>8</sub>	<b>8030237</b>	<b>NPFC-T-3G38-F</b>	<b>10</b>
	G <sup>1</sup> / <sub>2</sub>	<b>8030238</b>	<b>NPFC-T-3G12-F</b>	<b>10</b>
	G <sup>3</sup> / <sub>4</sub>	<b>8030239</b>	<b>NPFC-T-3G34-F</b>	<b>10</b>
	G1	<b>8030240</b>	<b>NPFC-T-3G1-F</b>	<b>10</b>

### T-fitting NPFC-T



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	Female thread	2	Male thread	
<b>Metric thread</b>				
	M5	M5	<b>8030245</b>	<b>NPFC-T-3M5-FMF</b>
<b>G-thread/R-thread</b>				
	G <sup>1</sup> / <sub>8</sub>	R <sup>1</sup> / <sub>8</sub>	<b>8030246</b>	<b>NPFC-T-2G18-R18-FMF</b>
	G <sup>1</sup> / <sub>4</sub>	R <sup>1</sup> / <sub>4</sub>	<b>8030247</b>	<b>NPFC-T-2G14-R14-FMF</b>
	G <sup>3</sup> / <sub>8</sub>	R <sup>3</sup> / <sub>8</sub>	<b>8030248</b>	<b>NPFC-T-2G38-R38-FMF</b>
	G <sup>1</sup> / <sub>2</sub>	R <sup>1</sup> / <sub>2</sub>	<b>8030249</b>	<b>NPFC-T-2G12-R12-FMF</b>
	G <sup>3</sup> / <sub>4</sub>	R <sup>3</sup> / <sub>4</sub>	<b>8030250</b>	<b>NPFC-T-2G34-R34-FMF</b>
	G1	R1	<b>8030251</b>	<b>NPFC-T-2G1-R1-FMF</b>

### T-fitting NPFC-T



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	Female thread	2	Male thread	
<b>G-thread/R-thread</b>				
	G <sup>1</sup> / <sub>8</sub>	R <sup>1</sup> / <sub>8</sub>	<b>8030255</b>	<b>NPFC-T-G18-2R18-FMM</b>
	G <sup>1</sup> / <sub>4</sub>	R <sup>1</sup> / <sub>4</sub>	<b>8030256</b>	<b>NPFC-T-G14-2R14-FMM</b>
	G <sup>3</sup> / <sub>8</sub>	R <sup>3</sup> / <sub>8</sub>	<b>8030257</b>	<b>NPFC-T-G38-2R38-FMM</b>
	G <sup>1</sup> / <sub>2</sub>	R <sup>1</sup> / <sub>2</sub>	<b>8030258</b>	<b>NPFC-T-G12-2R12-FMM</b>

### T-fitting NPFC-T



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	Male thread			
<b>R-thread</b>				
	R <sup>1</sup> / <sub>4</sub>	<b>8030252</b>	<b>NPFC-T-3R14-M</b>	<b>10</b>
	R <sup>3</sup> / <sub>8</sub>	<b>8030253</b>	<b>NPFC-T-3R38-M</b>	<b>10</b>
	R <sup>1</sup> / <sub>2</sub>	<b>8030254</b>	<b>NPFC-T-3R12-M</b>	<b>10</b>

<sup>1)</sup> Packaging unit per part

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## Ordering data

## T-fitting NPFC-T



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Female thread			
<b>R-thread/G-thread</b>				
R $\frac{1}{8}$	G $\frac{1}{8}$	<b>8030259</b>	<b>NPFC-T-2R18-G18-MMF</b>	<b>10</b>
R $\frac{1}{4}$	G $\frac{1}{4}$	<b>8030260</b>	<b>NPFC-T-2R14-G14-MMF</b>	<b>10</b>
R $\frac{1}{2}$	G $\frac{1}{2}$	<b>8030261</b>	<b>NPFC-T-2R12-G12-MMF</b>	<b>10</b>

## T-fitting NPFC-T



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Female thread			
<b>R-thread/G-thread</b>				
R $\frac{1}{8}$	G $\frac{1}{8}$	<b>8030241</b>	<b>NPFC-T-R18-2G18-MFF</b>	<b>10</b>
R $\frac{1}{4}$	G $\frac{1}{4}$	<b>8030242</b>	<b>NPFC-T-R14-2G14-MFF</b>	<b>10</b>
R $\frac{3}{8}$	G $\frac{3}{8}$	<b>8030243</b>	<b>NPFC-T-R38-2G38-MFF</b>	<b>10</b>
R $\frac{1}{2}$	G $\frac{1}{2}$	<b>8030244</b>	<b>NPFC-T-R12-2G12-MFF</b>	<b>10</b>

## Y-fitting NPFC-Y



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1 Female thread	2			
<b>G-thread</b>				
G $\frac{1}{4}$		<b>8030228</b>	<b>NPFC-Y-3G14-F</b>	<b>10</b>
G $\frac{3}{8}$		<b>8030229</b>	<b>NPFC-Y-3G38-F</b>	<b>10</b>
G $\frac{1}{2}$		<b>8030230</b>	<b>NPFC-Y-3G12-F</b>	<b>10</b>

## Y-fitting NPFC-Y



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Female thread			
<b>R-thread/G-thread</b>				
R $\frac{1}{8}$	G $\frac{1}{8}$	<b>8030231</b>	<b>NPFC-Y-R18-2G18-MFF</b>	<b>10</b>
R $\frac{1}{4}$	G $\frac{1}{4}$	<b>8030232</b>	<b>NPFC-Y-R14-2G14-MFF</b>	<b>10</b>
R $\frac{3}{8}$	G $\frac{3}{8}$	<b>8030233</b>	<b>NPFC-Y-R38-2G38-MFF</b>	<b>10</b>
R $\frac{1}{2}$	G $\frac{1}{2}$	<b>8030234</b>	<b>NPFC-Y-R12-2G12-MFF</b>	<b>10</b>

1) Packaging unit per part

## Ordering data

## X-fitting NPFC-X



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	Female thread			
G-thread				
	G $\frac{1}{4}$	<b>8030262</b>	<b>NPFC-X-4G14-F</b>	<b>10</b>
	G $\frac{3}{8}$	<b>8030263</b>	<b>NPFC-X-4G38-F</b>	<b>10</b>
	G $\frac{1}{2}$	<b>8030264</b>	<b>NPFC-X-4G12-F</b>	<b>10</b>

## X-fitting NPFC-X



Pneumatic connection		Part no.	Type	PU <sup>1)</sup>
1	Male thread	2	Female thread	
R-thread/G-thread				
R $\frac{1}{4}$	G $\frac{1}{4}$	<b>8030265</b>	<b>NPFC-X-R14-3G14-MFFF</b>	<b>10</b>
R $\frac{1}{2}$	G $\frac{1}{2}$	<b>8030266</b>	<b>NPFC-X-R12-3G12-MFFF</b>	<b>10</b>

1) Packaging unit per part



Overview/Configuration/Ordering  
→ [www.festo.com/catalogue/couplings](http://www.festo.com/catalogue/couplings)



Additional information/Support/User documentation  
→ [www.festo.com/sp/couplings](http://www.festo.com/sp/couplings)

Couplings

Quick coupling sockets/plugs

# KD, KS



- + Quick connection coupling: for standard applications without safety function
- + With male or female thread or with barbed connector or quick connector
- + Shut-off at one or both ends

# Quick coupling sockets/plugs KD/KS



- Plug-in couplings, shut-off at one or both ends for standard applications
- Safety couplings
- Simple release principle
- With high flow rates
- Wide range of variants

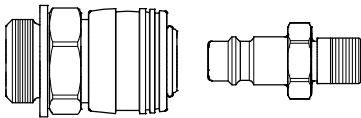
→ [www.festo.com/catalogue/couplings](http://www.festo.com/catalogue/couplings)

## Features

### Mode of operation

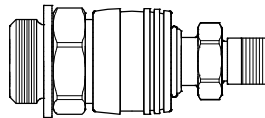
Plug-in coupling with quick coupling socket KD and quick coupling plug KS, shut-off at one or both ends

#### Coupling



To lock the coupling, push the plug into the socket. The plug automatically engages with an audible click when in a specific position.

#### Uncoupling

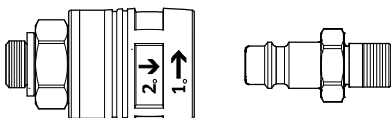


To unlock, push the releasing sleeve.

When uncoupling it is important to hold the quick coupling plug until it is fully vented.

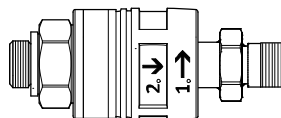
Safety coupling with quick coupling socket KDMS/KDS and quick coupling plug KSS

#### Coupling



To lock the coupling, push the plug into the socket. The plug automatically engages with an audible click when in a specific position.

#### Uncoupling



1. To exhaust, start by turning the releasing sleeve. This releases the pin locking mechanism of the coupling. The plug moves approx. 5 mm out of the coupling and is held in this position by the ball locking mechanism of the coupling. The air from the

plug and the components connected to it can escape. The air on the coupling side is shut off.  
 2. Then unlock the plug fully by pulling the releasing sleeve. The plug should only be removed after all the air has been vented.

### Note

The maximum pressure that should be applied when mating and releasing the couplings is 10 bar.

### Note

Quick coupling sockets and plugs with the same function and size are compatible.

## Product range overview

Quick coupling socket/plug	Pneumatic connection 1						Standard nominal flow rate [l/min]	→ Page/ online
	Male thread	Female thread	Quick connector with union nut	Bulkhead quick connector with union nut	Barbed fitting	Barbed bulkhead fitting		
Plug-in coupling, shut-off at one end								
KD1/KS1	■/-	-	-	-	-/■	-	44	1136
KD2/KS2	■/■	■/■	■/■	-	■/■	■/■	68 ... 139	
KD3/KS3	■/■	■/■	■/■	-	■/■	■/■	158 ... 666	
KD4/KS4	■/■	■/■	■/■	■/■	■/■	-	252 ... 1350	1137
KD5/KS5	-/■	■/-	-/■	-	-/■	-	1710 ... 2043	
Plug-in coupling, shut-off at both ends								
KD3/KS3	■/■	-	-	-	-	-	563	1138
KD4/KS4	■/■	-	-	-	-	-	765	
Safety coupling, shut-off at one end								
KDMS6/KSS6	■/■	-/■	-/■	-/■	-/■	-	968 ... 2043	1138
KDS6/KSS6	■/■	■/■	■/■	■/■	■/■	-	882 ... 1818	

## Data sheet

Operating conditions	
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium	Lubricated operation possible
Operating pressure for entire temperature range [bar]	-0.95 ... +12
Ambient temperature [°C]	-10 ... +60

Materials	Quick coupling socket/plug				
	Plug-in coupling, shut-off at one end				
	KD1/KS1	KD2/KS2	KD3/KS3	KD4/KS4	KD5/KS5
Quick coupling socket housing	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Galvanised steel
Quick coupling plug housing	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Galvanised steel
Releasing sleeve	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	PP	Galvanised steel

Quick coupling socket/plug	Plug-in coupling, shut-off at both ends		Safety coupling, shut-off at one end	
	KD3/KS3	KD4/KS4	KDMS6/KSS6	KDS6/KSS6
Quick coupling socket housing	Brass	Brass	Nickel-plated brass	Nickel-plated brass
Quick coupling plug housing	Brass	Brass	Hardened steel	Hardened steel
Releasing sleeve	Nickel-plated brass	PP	Nickel-plated brass	POM

Coupling/tubing combination options		Pneumatic connection 1							→ Page/ online
		CN-2	CK-3	CK-4, CN-4	CK-6, CN-6, N-6	CK-9, N-9	CK-13, N-13		
For tubing O.D.	[mm]	PAN	-	4	6	8	-	-	<a href="#">pan</a>
	[mm]	PUN	3	4	6	8	-	-	1070
For tubing I.D.	[mm]	PU	-	-	-	-	9	13	<a href="#">pu</a>
	[mm]	P	-	-	-	6	9	13	<a href="#">p</a>

## Ordering data – Plug-in coupling, shut-off at one end

## Quick coupling socket/plug KD1/KS1



Pneumatic connection 1	Quick coupling socket			Quick coupling plug		
	Nominal size [mm]	Part no.	Type	Nominal size [mm]	Part no.	Type
Male thread						
M3	1.5	151995	KD1-M3-A	–	–	–
Barbed fitting						
CN-2	–	–	–	1.5	151996	KS1-CN-2

## Quick coupling socket/plug KD2/KS2



Pneumatic connection 1	Quick coupling socket			Quick coupling plug		
	Nominal size [mm]	Part no.	Type	Nominal size [mm]	Part no.	Type
Male thread						
M5	2.4	4087	KD2-M5-A	2.4	531658	KS2-M5-A
Female thread						
M5	2.7	531620	KD2-M5-I	2.7	531660	KS2-M5-I
Quick connector with union nut						
CK-3	2	531621	KD2-CK-3	2	4091	KS2-CK-3
CK-4	2.9	531622	KD2-CK-4	2.7	4090	KS2-CK-4
Barbed fitting						
CN-4	3.2	531623	KD2-CN-4	2.4	531663	KS2-CN-4
Barbed bulkhead fitting						
CN-4	2.5	531624	KD2-CN-4-S	2.7	531664	KS2-CN-4-S

## Quick coupling socket/plug KD3/KS3



Pneumatic connection 1	Quick coupling socket			Quick coupling plug		
	Nominal size [mm]	Part no.	Type	Nominal size [mm]	Part no.	Type
Male thread						
G $\frac{1}{8}$	4.95	2142	KD3- $\frac{1}{8}$ -A	4.95	3492	KS3- $\frac{1}{8}$ -A
G $\frac{1}{4}$	5	531626	KD3- $\frac{1}{4}$ -A	4.95	531666	KS3- $\frac{1}{4}$ -A
Female thread						
G $\frac{1}{8}$	5	531627	KD3- $\frac{1}{8}$ -I	4.95	531668	KS3- $\frac{1}{8}$ -I
G $\frac{1}{4}$	5	531628	KD3- $\frac{1}{4}$ -I	4.95	531669	KS3- $\frac{1}{4}$ -I
Quick connector with union nut						
CK-4	2.9	531629	KD3-CK-4	2.9	3326	KS3-CK-4
CK-6	4.9	531630	KD3-CK-6	4.9	3478	KS3-CK-6
Barbed fitting						
CN-6	4.9	531631	KD3-CN-6	4.9	531672	KS3-CN-6
Barbed bulkhead fitting						
CN-6	4.9	531632	KD3-CN-6-S	4.9	531673	KS3-CN-6-S



## Ordering data – Plug-in coupling, shut-off at one end

## Quick coupling socket/plug KD4/KS4



Pneumatic connection 1	Quick coupling socket <sup>1)</sup>			Quick coupling plug		
	Nominal size [mm]	Part no.	Type	Nominal size [mm]	Part no.	Type
<b>Male thread</b>						
G $\frac{1}{4}$	8	2143	KD4- $\frac{1}{4}$ -A	7.85	2154	KS4- $\frac{1}{4}$ -A
G $\frac{3}{8}$	10	2144	KD4- $\frac{3}{8}$ -A	7.85	2155	KS4- $\frac{3}{8}$ -A
G $\frac{1}{2}$	10	2145	KD4- $\frac{1}{2}$ -A	7.85	531676	KS4- $\frac{1}{2}$ -A
<b>Female thread</b>						
G $\frac{1}{4}$	7.2	531636	KD4- $\frac{1}{4}$ -I	7.85	531678	KS4- $\frac{1}{4}$ -I
G $\frac{3}{8}$	7.2	531637	KD4- $\frac{3}{8}$ -I	7.85	531679	KS4- $\frac{3}{8}$ -I
G $\frac{1}{2}$	7.2	531638	KD4- $\frac{1}{2}$ -I	7.85	531680	KS4- $\frac{1}{2}$ -I
<b>Quick connector with union nut</b>						
CK-4	–	–	–	2.9	2150	KS4-CK-4
CK-6	4.9	531639	KD4-CK-6	4.9	2151	KS4-CK-6
CK-9	7.4	531640	KD4-CK-9	7.4	531683	KS4-CK-9
<b>Bulkhead quick connector with union nut</b>						
CK-9	7.4	531642	KD4-CK-9-S	7.4	531686	KS4-CK-9-S
<b>Barbed fitting</b>						
N-6	–	–	–	4.5	2152	KS4-N-6
N-9	7.4	531641	KD4-N-9	7	2153	KS4-N-9

1) Quick coupling sockets KD4 can be combined with all quick coupling plugs KSS6. The hardened quick coupling plugs KSS6 are recommended for use with couplings that are frequently subject to pressure surges or that have to be frequently mated.

## Quick coupling socket/plug KD5/KS5



Pneumatic connection 1	Quick coupling socket			Quick coupling plug		
	Nominal size [mm]	Part no.	Type	Nominal size [mm]	Part no.	Type
<b>Male thread</b>						
G $\frac{1}{2}$	–	–	–	13	531687	KS5- $\frac{1}{2}$ -A
<b>Female thread</b>						
G $\frac{1}{2}$	13	4088	KD5- $\frac{1}{2}$ -I	–	–	–
<b>Quick connector with union nut</b>						
CK-13	–	–	–	11.7	4096	KS5-CK-13
<b>Barbed fitting</b>						
N-13	–	–	–	11	4089	KS5-N-13

## Ordering data – Plug-in coupling, shut-off at both ends

## Quick coupling socket/plug KD3/KS3



Pneumatic connection 1	Quick coupling socket			Quick coupling plug		
	Nominal size [mm]	Part no.	Type	Nominal size [mm]	Part no.	Type
Male thread						
G $\frac{1}{8}$	5	531659	KD3- $\frac{1}{8}$ -A-R	4.2	531667	KS3- $\frac{1}{8}$ -A-R

## Quick coupling socket/plug KD4/KS4



Pneumatic connection 1	Quick coupling socket			Quick coupling plug		
	Nominal size [mm]	Part no.	Type	Nominal size [mm]	Part no.	Type
Male thread						
G $\frac{1}{4}$	8	531694	KD4- $\frac{1}{4}$ -A-R	8	531677	KS4- $\frac{1}{4}$ -A-R

## Ordering data – Safety coupling, shut-off at one end

## Quick coupling socket/plug KDMS6/KDS6/KSS6



Pneumatic connection 1	Quick coupling socket <sup>1)</sup>			Quick coupling plug		
	Nominal size [mm]	Part no.	Type	Nominal size [mm]	Part no.	Type
Male thread, releasing sleeve made of brass, visual pressure indicator						
G $\frac{1}{8}$	–	–	–	5	151781	KSS6- $\frac{1}{8}$ -A
G $\frac{1}{4}$	8	151776	KDMS6- $\frac{1}{4}$ -A	7.85	151779	KSS6- $\frac{1}{4}$ -A
G $\frac{3}{8}$	10	151777	KDMS6- $\frac{3}{8}$ -A	7.85	151780	KSS6- $\frac{3}{8}$ -A
G $\frac{1}{2}$	13	151778	KDMS6- $\frac{1}{2}$ -A	7.85	531693	KSS6- $\frac{1}{2}$ -A
Male thread, releasing sleeve made from polymer						
G $\frac{1}{8}$	–	–	–	5	151781	KSS6- $\frac{1}{8}$ -A
G $\frac{1}{4}$	8	531647	KDS6- $\frac{1}{4}$ -A	7.85	151779	KSS6- $\frac{1}{4}$ -A
G $\frac{3}{8}$	10	531648	KDS6- $\frac{3}{8}$ -A	7.85	151780	KSS6- $\frac{3}{8}$ -A
G $\frac{1}{2}$	10	531649	KDS6- $\frac{1}{2}$ -A	7.85	531693	KSS6- $\frac{1}{2}$ -A
Female thread						
G $\frac{1}{4}$	7.2	531650	KDS6- $\frac{1}{4}$ -I	7.85	531695	KSS6- $\frac{1}{4}$ -I
G $\frac{3}{8}$	7.2	531651	KDS6- $\frac{3}{8}$ -I	7.85	531696	KSS6- $\frac{3}{8}$ -I
G $\frac{1}{2}$	7.2	531652	KDS6- $\frac{1}{2}$ -I	7.85	531697	KSS6- $\frac{1}{2}$ -I
Quick connector with union nut						
CK-9	7.4	531653	KDS6-CK-9	7.4	531698	KSS6-CK-9
CK-13	10	531654	KDS6-CK-13	7.85	531699	KSS6-CK-13
Bulkhead quick connector with union nut						
CK-9	7.4	531656	KDS6-CK-9-S	7.4	531701	KSS6-CK-9-S
Barbed fitting <sup>2)</sup>						
N-9	7	531655	KDS6-N-9	7	531700	KSS6-N-9

1) The quick coupling sockets KDMS6/KDS6 must only be used in combination with the hardened quick coupling plugs KSS6.

2) Tube clamps appropriate to the pressure must be used.



Overview/Configuration/Ordering  
→ [www.festo.com/catalogue/qlsv](http://www.festo.com/catalogue/qlsv)



Additional information/Support/User documentation  
→ [www.festo.com/sp/qlsv](http://www.festo.com/sp/qlsv)

Distributors

Multiple distributors

QSLV



- + Standard series
- + Temperature range up to 80 °C
- + L-shape, T-shape
- + Rotatable 360°
- + Connection via threaded or push-in connector
- + Reducing design
- + Suitable for use with water as an operating medium



- Easy to insert
- Easy to release
- Up to 6 outlets
- Rotatable

→ [www.festo.com/catalogue/quick\\_star](http://www.festo.com/catalogue/quick_star)

## Features



The fitting can be aligned after assembly.

## Product range overview

Type	Version	Design	Pneumatic connection 1			Pneumatic connection 2	→ Page/ online
			R-thread	G-thread	Tubing O.D.	Tubing O.D.	
QSLV2	Multiple distributor, 2 outlets	L-shape	■	■	–	■	1141
QSLV3	Multiple distributor, 3 outlets		■	■	–	■	
QSLV4	Multiple distributor, 4 outlets		■	■	–	■	1142
QSLV6	Multiple distributor, 6 outlets		■	■	–	■	
QSQ	Multiple distributor, 4 outlets	Straight	■	■	■	■	1143
QST3	Multiple distributor, 4 outlets	T-shape	■	■	■	■	<a href="#">qst3</a>

## Technical data

Operating conditions	
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-] Water as per manufacturer's declaration <sup>1)</sup>
Note on operating/pilot medium	Operation with lubricated medium possible
Operating pressure for entire temperature range [bar]	–0.95 ... +6
Temperature-dependent operating pressure [bar]	–0.95 ... +14
Ambient temperature [°C]	–10 ... +80

1) Additional information at [www.festo.com/sp](http://www.festo.com/sp) → User Documentation.

Materials	
Housing	PBT
Tube retaining claw	High-alloy stainless steel
Releasing ring	POM
Tubing seal	Nitrile rubber

## Ordering data

## Multiple distributor QSLV2

2 outlets, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
<b>R-thread</b>					
R $\frac{1}{8}$	4	2.4	153211	QSLV2- $\frac{1}{8}$ -4	1
	6	3.2	153212	QSLV2- $\frac{1}{8}$ -6	1
	8	4.2	153214	QSLV2- $\frac{1}{8}$ -8	1
R $\frac{1}{4}$	6	3.2	153213	QSLV2- $\frac{1}{4}$ -6	1
	8	4.3	153215	QSLV2- $\frac{1}{4}$ -8	1
	10	5.2	153217	QSLV2- $\frac{1}{4}$ -10	1
R $\frac{3}{8}$	8	4.3	153216	QSLV2- $\frac{3}{8}$ -8	1
	10	5.3	153218	QSLV2- $\frac{3}{8}$ -10	1
	12	6.3	153219	QSLV2- $\frac{3}{8}$ -12	1
R $\frac{1}{2}$	12	6.4	153220	QSLV2- $\frac{1}{2}$ -12	1
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	2.4	186223	QSLV2-G $\frac{1}{8}$ -4	1
	6	3.2	186224	QSLV2-G $\frac{1}{8}$ -6	1
	8	4.2	186226	QSLV2-G $\frac{1}{8}$ -8	1
G $\frac{1}{4}$	6	3.2	186225	QSLV2-G $\frac{1}{4}$ -6	1
	8	4.3	186227	QSLV2-G $\frac{1}{4}$ -8	1
	10	5.2	186229	QSLV2-G $\frac{1}{4}$ -10	1
G $\frac{3}{8}$	8	4.3	186228	QSLV2-G $\frac{3}{8}$ -8	1
	10	5.3	186230	QSLV2-G $\frac{3}{8}$ -10	1
	12	6.3	186231	QSLV2-G $\frac{3}{8}$ -12	1
G $\frac{1}{2}$	12	6.4	186232	QSLV2-G $\frac{1}{2}$ -12	1

## Multiple distributor QSLV3

3 outlets, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
<b>R-thread</b>					
R $\frac{1}{8}$	4	2.4	153221	QSLV3- $\frac{1}{8}$ -4	1
	6	3.2	153222	QSLV3- $\frac{1}{8}$ -6	1
	8	4.3	153224	QSLV3- $\frac{1}{8}$ -8	1
R $\frac{1}{4}$	6	3.2	153223	QSLV3- $\frac{1}{4}$ -6	1
	8	4.2	153225	QSLV3- $\frac{1}{4}$ -8	1
	10	5.2	153227	QSLV3- $\frac{1}{4}$ -10	1
R $\frac{3}{8}$	8	4.3	153226	QSLV3- $\frac{3}{8}$ -8	1
	10	5.3	153228	QSLV3- $\frac{3}{8}$ -10	1
	12	6.4	153229	QSLV3- $\frac{3}{8}$ -12	1
R $\frac{1}{2}$	12	6.5	153230	QSLV3- $\frac{1}{2}$ -12	1
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	2.4	186233	QSLV3-G $\frac{1}{8}$ -4	1
	6	3.2	186234	QSLV3-G $\frac{1}{8}$ -6	1
	8	4.3	186236	QSLV3-G $\frac{1}{8}$ -8	1
G $\frac{1}{4}$	6	3.2	186235	QSLV3-G $\frac{1}{4}$ -6	1
	8	4.2	186237	QSLV3-G $\frac{1}{4}$ -8	1
	10	5.2	186239	QSLV3-G $\frac{1}{4}$ -10	1
G $\frac{3}{8}$	8	4.3	186238	QSLV3-G $\frac{3}{8}$ -8	1
	10	5.3	186240	QSLV3-G $\frac{3}{8}$ -10	1
	12	6.4	186241	QSLV3-G $\frac{3}{8}$ -12	1
G $\frac{1}{2}$	12	6.5	186242	QSLV3-G $\frac{1}{2}$ -12	1

1) Packaging unit per part

## Ordering data

## Multiple distributor QSLV4

4 outlets, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
<b>R-thread</b>					
R $\frac{1}{8}$	4	2.3	153231	QSLV4- $\frac{1}{8}$ -4	1
	6	2.9	153232	QSLV4- $\frac{1}{8}$ -6	1
	8	4	153234	QSLV4- $\frac{1}{8}$ -8	1
R $\frac{1}{4}$	6	2.9	153233	QSLV4- $\frac{1}{4}$ -6	1
	8	4.1	153235	QSLV4- $\frac{1}{4}$ -8	1
	10	5	153237	QSLV4- $\frac{1}{4}$ -10	1
R $\frac{3}{8}$	8	4.1	153236	QSLV4- $\frac{3}{8}$ -8	1
	10	5.1	153238	QSLV4- $\frac{3}{8}$ -10	1
	12	6	153239	QSLV4- $\frac{3}{8}$ -12	1
R $\frac{1}{2}$	12	6.2	153240	QSLV4- $\frac{1}{2}$ -12	1
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	2.3	186243	QSLV4-G $\frac{1}{8}$ -4	1
	6	2.9	186244	QSLV4-G $\frac{1}{8}$ -6	1
	8	4	186246	QSLV4-G $\frac{1}{8}$ -8	1
G $\frac{1}{4}$	6	2.9	186245	QSLV4-G $\frac{1}{4}$ -6	1
	8	4.1	186247	QSLV4-G $\frac{1}{4}$ -8	1
	10	5	186249	QSLV4-G $\frac{1}{4}$ -10	1
G $\frac{3}{8}$	8	4.1	186248	QSLV4-G $\frac{3}{8}$ -8	1
	10	5.1	186250	QSLV4-G $\frac{3}{8}$ -10	1
	12	6	186251	QSLV4-G $\frac{3}{8}$ -12	1
G $\frac{1}{2}$	12	6.2	186252	QSLV4-G $\frac{1}{2}$ -12	1

## Multiple distributor QSLV6

6 outlets, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
<b>R-thread</b>					
R $\frac{1}{8}$	4	2.3	153241	QSLV6- $\frac{1}{8}$ -4	1
	6	2.9	153242	QSLV6- $\frac{1}{8}$ -6	1
	8	4	153244	QSLV6- $\frac{1}{8}$ -8	1
R $\frac{1}{4}$	6	2.9	153243	QSLV6- $\frac{1}{4}$ -6	1
	8	4	153245	QSLV6- $\frac{1}{4}$ -8	1
	10	5.2	153247	QSLV6- $\frac{1}{4}$ -10	1
R $\frac{3}{8}$	8	4.1	153246	QSLV6- $\frac{3}{8}$ -8	1
	10	5.2	153248	QSLV6- $\frac{3}{8}$ -10	1
	12	6.3	153249	QSLV6- $\frac{3}{8}$ -12	1
R $\frac{1}{2}$	12	6.3	153250	QSLV6- $\frac{1}{2}$ -12	1
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	2.3	186253	QSLV6-G $\frac{1}{8}$ -4	1
	6	2.9	186254	QSLV6-G $\frac{1}{8}$ -6	1
	8	4	186256	QSLV6-G $\frac{1}{8}$ -8	1
G $\frac{1}{4}$	6	2.9	186255	QSLV6-G $\frac{1}{4}$ -6	1
	8	4	186257	QSLV6-G $\frac{1}{4}$ -8	1
	10	5.2	186259	QSLV6-G $\frac{1}{4}$ -10	1
G $\frac{3}{8}$	8	4.1	186258	QSLV6-G $\frac{3}{8}$ -8	1
	10	5.2	186260	QSLV6-G $\frac{3}{8}$ -10	1
	12	6.3	186261	QSLV6-G $\frac{3}{8}$ -12	1
G $\frac{1}{2}$	12	6.3	186262	QSLV6-G $\frac{1}{2}$ -12	1

1) Packaging unit per part

## Ordering data

## Multiple distributor QSQ

4 outlets, rotatable



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Male thread	2 Tubing O.D. [mm]				
<b>R-thread</b>					
R $\frac{1}{8}$	4	2	153206	QSQ- $\frac{1}{8}$ -4	1
	6	2.1	153208	QSQ- $\frac{1}{8}$ -6	1
R $\frac{1}{4}$	4	2	153207	QSQ- $\frac{1}{4}$ -4	1
	6	2.1	153288	QSQ- $\frac{1}{4}$ -6	1
<b>G-thread with sealing ring</b>					
G $\frac{1}{8}$	4	1.4	186220	QSQ-G $\frac{1}{8}$ -4	1
	6	3.4	186222	QSQ-G $\frac{1}{8}$ -6	1
G $\frac{1}{4}$	4	1.3	186221	QSQ-G $\frac{1}{4}$ -4	1
	6	3	186263	QSQ-G $\frac{1}{4}$ -6	1



Pneumatic connection		Nominal size [mm]	Part no.	Type	PU <sup>1)</sup>
1 Tubing O.D. [mm]	2 Tubing O.D. [mm]				
<b>Push-in connector, reducing</b>					
6	4	1.4	153209	QSQ-6-4	1
8	6	3.2	153210	QSQ-8-6	1

1) Packaging unit per part



Overview/Configuration/Ordering  
→ [www.festo.com/catalogue/type](http://www.festo.com/catalogue/type)



Additional information/Support/User documentation  
→ [www.festo.com/sp/type](http://www.festo.com/sp/type)

Accessories for pneumatic connection technology

Accessories

# Accessories



- + Sealing materials
- + Pipe and tubing cutters
- + Tubing accessories
- + Pipe accessories





- Sealing materials
- Pipe and tubing cutters
- Tubing clips/straps

→ [www.festo.com/catalogue/⟨type⟩](http://www.festo.com/catalogue/⟨type⟩)

### Product range overview

Type	Function	M3	M5	M7	G1/8	G1/4	G3/8	G1/2	G3/4	G1	→ Page/ online
<b>Sealing materials</b>											
O	Sealing ring	■	■	-	■	■	■	■	■	■	1146
CRO	Sealing ring	-	■	-	■	■	■	■	■	■	
OL	Sealing ring, sealing ring assortment	-	■	-	■	■	■	■	■	-	
OK	Sealing ring, sealing ring assortment	■	■	■	■	■	■	■	■	-	1147
GWB	Thread sealing tape	-	-	-	-	-	-	-	-	-	
<b>Pipe and tubing cutters</b>											
PAN-VOS	Tubing cutter	For cutting plastic tubing PAN-V0, flame retardant									<a href="#">pan-vos</a>
ZDS	Disconnecting pliers	For removing plastic tubing from barbed fittings									<a href="#">zds</a>
ZMS	Connecting pliers	For connecting plastic tubing to barbed fittings									<a href="#">zms</a>
ZR	Pipe cutter	For cutting to length plastic piping PQ-PA									<a href="#">zr</a>
ZRS	Pipe/tubing cutter	For cutting to length plastic tubing with and without textile insert up to O.D. 20 mm									<a href="#">zrs</a>
<b>Tubing clips/straps</b>											
PB	Tubing strap	Bundle Ø 30, 45, 100 mm									<a href="#">pb</a>
PKB	Spiral tubing binder	Max. bundle Ø 50 mm									<a href="#">pkb</a>
PKS	Tubing support	For tubing O.D. 6, 8, 11 mm									<a href="#">pks</a>
NPAW	Tubing support	Mounting component for guiding cables and tubing									<a href="#">npaw</a>
KK	Multi-tube holder	For tubing O.D. 4.3, 6, 8, 11.5, 17.6 mm									<a href="#">kk</a>

## Ordering data

## Sealing ring O/CRO



For thread	Part no.	Type	PU <sup>1)</sup>
<b>PA</b>			
M3	<b>30290</b>	<b>O-M3-B</b>	<b>1</b>
<b>PVC</b>			
M5	<b>3565</b>	<b>O-M5</b>	<b>1</b>
	<b>534226</b>	<b>O-M5-500</b>	<b>500</b>
G $\frac{1}{8}$	<b>2223</b>	<b>O-<math>\frac{1}{8}</math></b>	<b>1</b>
	<b>534227</b>	<b>O-<math>\frac{1}{8}</math>-500</b>	<b>500</b>
G $\frac{1}{4}$	<b>2224</b>	<b>O-<math>\frac{1}{4}</math></b>	<b>1</b>
	<b>534228</b>	<b>O-<math>\frac{1}{4}</math>-200</b>	<b>200</b>
G $\frac{3}{8}$	<b>2225</b>	<b>O-<math>\frac{3}{8}</math></b>	<b>1</b>
	<b>534229</b>	<b>O-<math>\frac{3}{8}</math>-200</b>	<b>200</b>
G $\frac{1}{2}$	<b>2226</b>	<b>O-<math>\frac{1}{2}</math></b>	<b>1</b>
	<b>534230</b>	<b>O-<math>\frac{1}{2}</math>-100</b>	<b>100</b>
G $\frac{3}{4}$	<b>2227</b>	<b>O-<math>\frac{3}{4}</math></b>	<b>1</b>
G1	<b>210893</b>	<b>O-1</b>	<b>1</b>
<b>PVDF</b>			
M5	<b>165191</b>	<b>CRO-M5</b>	<b>1</b>
G $\frac{1}{8}$	<b>575895</b>	<b>CRO-<math>\frac{1}{8}</math></b>	<b>1</b>
G $\frac{1}{4}$	<b>165193</b>	<b>CRO-<math>\frac{1}{4}</math></b>	<b>1</b>
G $\frac{3}{8}$	<b>165194</b>	<b>CRO-<math>\frac{3}{8}</math></b>	<b>1</b>
G $\frac{1}{2}$	<b>165195</b>	<b>CRO-<math>\frac{1}{2}</math></b>	<b>1</b>
G $\frac{3}{4}$	<b>165196</b>	<b>CRO-<math>\frac{3}{4}</math></b>	<b>1</b>
G1	<b>165197</b>	<b>CRO-1</b>	<b>1</b>

## Sealing ring OL

with metal body, based on standard ISO 16030



For thread	Part no.	Type	PU <sup>1)</sup>
<b>Stainless steel, NBR</b>			
M5	<b>34634</b>	<b>OL-M5</b>	<b>1</b>
	<b>534231</b>	<b>OL-M5-500</b>	<b>500</b>
G $\frac{1}{8}$	<b>33840</b>	<b>OL-<math>\frac{1}{8}</math></b>	<b>1</b>
	<b>534232</b>	<b>OL-<math>\frac{1}{8}</math>-500</b>	<b>500</b>
G $\frac{1}{4}$	<b>34635</b>	<b>OL-<math>\frac{1}{4}</math></b>	<b>1</b>
	<b>534233</b>	<b>OL-<math>\frac{1}{4}</math>-200</b>	<b>200</b>
<b>Aluminium, NBR</b>			
G $\frac{3}{8}$	<b>34636</b>	<b>OL-<math>\frac{3}{8}</math></b>	<b>1</b>
	<b>534234</b>	<b>OL-<math>\frac{3}{8}</math>-200</b>	<b>200</b>
G $\frac{1}{2}$	<b>34637</b>	<b>OL-<math>\frac{1}{2}</math></b>	<b>1</b>
	<b>534235</b>	<b>OL-<math>\frac{1}{2}</math>-100</b>	<b>100</b>
G $\frac{3}{4}$	<b>34638</b>	<b>OL-<math>\frac{3}{4}</math></b>	<b>1</b>

## Sealing ring assortment OL-S1



Contents	Quantity	Part no.	Type
OL-M5	50	<b>161355</b>	<b>OL-S1</b>
OL- $\frac{1}{8}$	100		
OL- $\frac{1}{4}$	100		
OL- $\frac{3}{8}$	40		
OL- $\frac{1}{2}$	30		
OL- $\frac{3}{4}$	10		

1) Packaging unit per part

## Ordering data

## Sealing ring OK

with support ring, based on standard ISO 16030



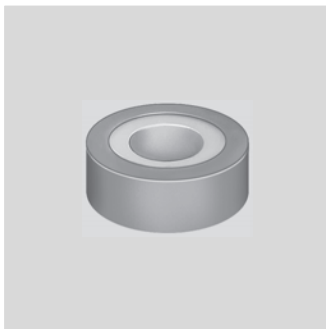
For thread	Part no.	Type	PU <sup>1)</sup>
Stainless steel, NBR			
M3	130849	OK-M3	1
M5	130850	OK-M5	1
M7	130851	OK-M7	1
PA, TPE-U(PU)			
G1/8	531771	OK-1/8	1
G1/4	531772	OK-1/4	1
G3/8	531773	OK-3/8	1
G1/2	531774	OK-1/2	1
G3/4	531775	OK-3/4	1

## Sealing ring assortment OK-S1



Contents	Quantity	Part no.	Type
OK-M3	50	570465	OK-S1
OK-M5	100		
OK-M7	50		
OK-1/8	100		
OK-1/4	100		
OK-3/8	40		
OK-1/2	30		
OK-3/4	10		

## Thread sealing tape GWB-0,1



Width [mm]	Thickness [mm]	Length [m]	Part no.	Type
10	0.1	12.5	9076	GWB-0,1

<sup>1)</sup> Packaging unit per part

