

Click fittings NPKA

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Key features

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Application



Effortless selection of the right fitting.
Festo offers a secure solution for every connection. The convenient push-in fitting system includes well over 1000 types of standard and function fittings.

Summary of tubing/fitting combinations			
Applications	Fitting	Tubing	Description
Standard	QS-B	PEN	Suitable for a wide range of tasks and attractively priced. Flexible thanks to highly resistant materials, easy to install thanks to optimised bending radii. High level of abrasion resistance in dynamic applications.
	QS	PUN	Maximum flexibility in standard applications thanks to an extremely wide range of options for combining the different types.
	QS	PAN	Meets all requirements, even for standard applications with increased pressure and temperature ranges.
High pressures	NPQM	PAN-MF	Meets DIN standard 73378: ideal for use in mobile pneumatics. Suitable for increased temperature ranges combined with high pressure ranges.
	NPQH	PAN-R	Powerful in pressure ranges up to 20 bar, for example in applications with the pressure booster DPA.
Resistant to chemicals, food safe and hydrolysis resistant	NPQP	PLN	Resistant to cleaning agents, FDA compliant and economical. Can be used instead of the combination with stainless steel fittings.
	NPKA	PUN-H	Hydrolysis resistant and suitable for water applications. Combination suitable for use in clean rooms, FDA compliant and corrosion resistant thanks to 100% polymer construction. Very easy to install thanks to the "one click principle".
	NPQH	PFAN	For high temperatures up to 150 °C. Suitable for use in the food industry, FDA compliant and resistant to cleaning agents.
	NPCK	PFAN	Easy to clean thanks to the union nut's edge-free design. Maximum resistance to corrosion (CRC 4) and FDA compliant. Suitable for a wide range of media.
	CRQS	PFAN	Maximum resistance to corrosion (CRC 4) and to aggressive acids and lyes.
Anti-static	NPQM	PUN-CM	Anti-static tubing plus solid metal fitting: maximum protection for electrical and electronic components.
Flame retardant	NPQM	PUN-V0	Very safe in areas where there is a risk of fire thanks to flame-retardant properties. The tubing has been tested to DIN 5510-2.
Resistant to welding spatter	NPQH	PUN-V0-C	Ideal for applications involving welding spatter. Reliable thanks to a tubing wall thickness of 2 mm for all diameters.
	QS-V0	PAN-V0	Safe even in the immediate vicinity of welding spatter thanks to the double-walled tubing with special fitting.

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Key features

Push-in fittings product range

QSM, mini series

Technical data → Internet: qsm



Miniature push-in fittings for maximum component density in confined spaces. For pneumatic applications with a temperature range up to 80 °C and a pressure range up to 14 bar. Tubing O.D.Ø of 2, 3, 4 and 6 mm with connecting threads M3, M5, M6, M7, R1/8 and G1/8.

QS, standard series

Technical data → Internet: qs



Wide selection of push-in fittings for pneumatic applications with a temperature range up to 80 °C and a pressure range up to 14 bar. Tubing O.D.Ø of 4, 6, 8, 10, 12 and 16 mm with connecting threads R1/8 ... R1/2 and G1/8 ... G1/2.

QSM-B, mini series, core function

Technical data → Internet: qsm-b



Miniature push-in fittings for maximum component density in confined spaces. For core pneumatic applications with a temperature range up to 60 °C and a pressure range up to 10 bar. Tubing O.D.Ø of 3, 4 and 6 mm with connecting threads M3, M5, M7 and R1/8.

QS-B, standard series, core function

Technical data → Internet: qs-b



Push-in fittings for core pneumatic applications with a temperature range up to 60 °C and a pressure range up to 10 bar. Tubing O.D.Ø of 4, 6, 8, 10, 12 and 16 mm with connecting threads M5 and R1/8 ... R1/2.

CRQS, stainless steel

Technical data → Internet: crqs



Stainless steel push-in fitting. High corrosion resistance (CRC4) and chemical resistance with approval for use in the food and packaging industry. For pneumatic applications with a temperature range up to 120 °C and a pressure range up to 10 bar. Tubing O.D.Ø of 4, 6, 8, 10, 12 and 16 mm with connecting threads M5 and R1/8 ... R1/2.

QS-V0, weld spatter resistant

Technical data → Internet: qs-v0



Flame-retardant push-in fitting for use in all areas where there is a risk of fire, for example welding systems in the automotive industry and in the construction industry. For pneumatic applications with a temperature range up to 60 °C and a pressure range up to 10 bar. Tubing O.D.Ø of 4, 6, 8, 10 and 12 mm with connecting threads R1/8 ... R1/2 and G1/8 ... G1/2.

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Push-in fittings product range

NPQH

Technical data → Internet: npqh



All metal push-in fitting made of chemically nickel-plated brass. High corrosion resistance (CRC3) and chemical resistance. For pneumatic applications with a temperature range up to 150 °C and a pressure range up to 20 bar.

Tubing O.D. of 4, 6, 8, 10, 12 and 14 mm with connecting threads M5, M7 and G1/8 ... G1/2.

NPQM

Technical data → Internet: npqm



Attractively priced metal push-in fitting for pneumatic applications with a temperature range up to 70 °C and a pressure range up to 16 bar. Tubing O.D. of 3, 4, 6, 8, 10, 12 and 14 mm with connecting threads M5, M7 and G1/8 ... G1/2.

NPQP

Technical data → Internet: npqp



Polypropylene fitting for use in applications with extreme media influences. For pneumatic applications with a temperature range up to 60 °C and a pressure range up to 10 bar.

Tubing O.D. of 4, 6, 8, 10 and 12 mm with connecting threads R1/8 ... R1/2.

Functional push-in fittings product range

QSK, self-sealing push-in fitting

Technical data → Internet: qsk



Push-in fitting that blocks the air flow after the tubing is disconnected. For pneumatic applications with a temperature range up to 60 °C and a pressure range up to 14 bar.

Tubing O.D. of 4, 6, 8, 10 and 12 mm with connecting threads M5, R1/8 ... R1/2 and G1/8 ... G1/2.

QSR, rotary push-in fitting

Technical data → Internet: qsr



Push-in fitting with swivel connection, rotatable by 360°. The ball bearing enables rotating movements in the application up to max. 500 rpm. For pneumatic applications with a temperature range up to 60 °C and a pressure range up to 14 bar.

Tubing O.D. of 4, 6, 8, 10 and 12 mm with connecting threads M5, R1/8 ... R1/2 and G1/8 ... G1/2.

Quick connectors product range

NPKC

Technical data → Internet: npck



Stainless steel fitting for use in areas subject to intensive cleaning. Highest level of corrosion resistance (CRC 4). For pneumatic applications with a temperature range up to 120 °C and a pressure range up to 12 bar.

Tubing O.D. 6 mm with connecting thread G1/8.

Click fittings product range

NPKA

Technical data → Internet: npka



Plastic fitting for easy installation with one-hand operation. Hydrolysis resistant, FDA compliant and easy to clean. For pneumatic applications with a temperature range up to 60 °C and a pressure range up to 10 bar. Tubing O.D. 6 mm with connecting thread G1/8.

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The click fitting NPKA is safe for use in the food industry.

The NPKA is made entirely of plastic and is suited for use in areas subject to intensive cleaning.

- Quick and simple tube installation using one hand
- Reliable assembly: click sound indicates that the open or closed position has been reached
- Low leaking, no scratching of the tube by retaining claws
- Easy to clean, sealed shape when tube fitted
- Suitable for tubes with corresponding slot

Assembly:

- 1) Screw the threaded plug **1** and the sealing ring **2** on to the counterpart and tighten in accordance with the nominal tightening torque.
Special feature of the straight design NPKA-D: insert long side of Allen key **3** completely into the click fitting through the sleeve **4**. Use the entire contact surface of the internal hexagon socket (→ Fig. 1).
- 2) Pull the sleeve **4** as far as the stop contour **1** **5** of the clamping collet, until you hear and feel the sleeve click in. (→ Fig. 2).
- 3) Insert the plastic tubing **6** through the open sleeve **4**, clamping collet and tubing seal as far as the tube bearing shoulder (→ Fig. 2).
- 4) Push the sleeve as far as the stop contour **2** **7** of the clamping collet, until you hear and feel the sleeve click in (→ Fig. 3). The closed sleeve pushes the clamping segment of the clamping collet against the plastic tubing, holding it in place.

Dismantling:

- 1) Dismantling is completed in reverse order to the assembly.

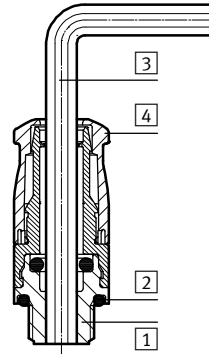


Fig. 1

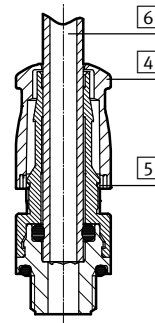


Fig. 2

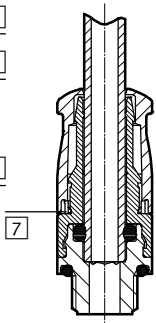


Fig. 3

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Technical data

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General technical data		
Size		Standard
Design		Push-pull principle
Assembly position		Any
Type of seal on threaded plug		Sealing ring
Max. tightening torque	[Nm]	2
Nominal tightening torque	[Nm]	1.25
Tolerance for nominal tightening torque	[%]	±20
Tubing insertion depth	[mm]	25.8
Suitable tubings		PAN, PAN-R, PAN-MF, PAN-VO, PFAN, PEN, PLN, PUN, PUN-DUO, PUN-CM, PUN-H, PUN-H-DUO, PUN-VO




Operating and environmental conditions		
Operating pressure	[bar]	−0.95 ... +10
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:--:]
		Water as per manufacturer's declaration ¹⁾
Note on operating/pilot medium		Lubricated operation possible
Ambient temperature	[°C]	−10 ... +60
Food-safe ¹⁾		See supplementary material information

1) Additional information www.festo.com/sp → Certificates.

Materials	
Sleeve	POM
Housing with clamping collet and threaded plug	PA66-GF30
Threaded seal	NBR
Tubing seal	NBR
Note on materials	RoHS-compliant

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Product range overview

Design	Version	Type	Pneumatic connection D1		Pneumatic connection D2	→ Page/ Internet
			G thread	Tubing O.D.Ø	Tubing O.D.Ø	
Straight design	Click fitting – Male thread with internal hexagon					
		NPKA-D	G1/8	–	6	8
L-shape	Click L-fitting – Male thread with external hexagon, orientable					
		NPKA-L	G1/8	–	6	8
T-shape	Click T-connector					
		NPKA-T	–	6	6	9

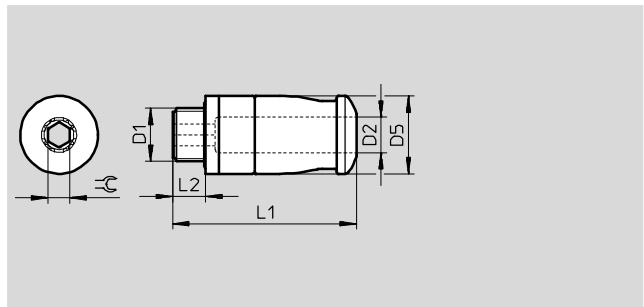
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Technical data

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Click fitting NPKA-D

Male thread with internal hexagon

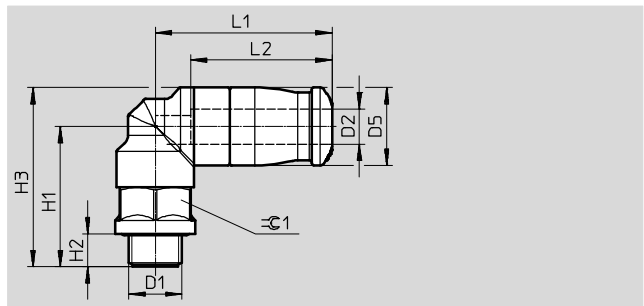


Dimensions and ordering data		Download CAD data → www.festo.com								
Pneumatic connection		Nominal size	D5	L1	L2	≙	Weight/ piece	Part No.	Type	PU ¹⁾
Male thread	For tubing O.D.		Ø				[g]			
D1	D2 [mm]	[mm]								
G ¹ / ₈	6	4	14.2	33.6	6	4	4.2	1243489	NPKA-D-G18-Q6-P10	10

1) Packaging unit

Click L-fitting NPKA-L

Male thread with external hexagon, orientable



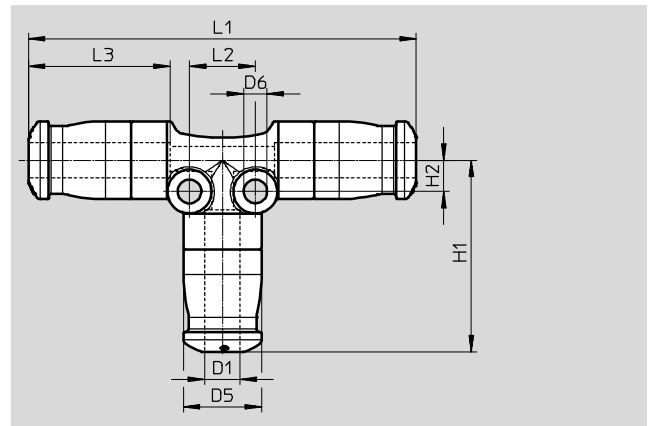
Dimensions and ordering data											Download CAD data ➔ www.festo.com		
Pneumatic connection		Nominal size [mm]	D5 Ø	H1	H2	H3	L1	L2	≙C1	Weight/ piece [g]	Part No.	Type	PU ¹⁾
Male thread D1	For tubing O.D. D2 [mm]												
G⅜	6	4	14.2	25.6	6	32.7	32.3	25.8	13	7.5	1655429	NPKA-L-G18-Q6-P10	10

1) Packaging unit

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Technical data

Click T-connector NPKA-T



Dimensions and ordering data										Download CAD data → www.festo.com			
Pneumatic connection	Nominal size	D5	D6	H1	H2	L1	L2	L3	Weight/ piece	Part No.	Type	PU ¹⁾	
For tubing O.D. D1 [mm]	[mm]	Ø	Ø						[g]				
6	4	14.2	4.3	35	5.7	70.6	12	25.8	12.5	1590710	NPKA-T-Q6-E-P10	10	

1) Packaging unit