

Fittings NPCK



Fittings NPCK

Type codes

General

The fitting NPCK is safe for use with food and fulfils all of the Clean Design requirements.

avoids edges and areas where contaminations and microorganisms might accumulate.

The NPCK is made entirely of stainless steel and is ideally suited for use in cleaning-intensive areas. NPCK is thus

the ideal addition to Festo's existing range of Clean Design drive and valve terminal products.

The special design for the union nut

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.
- 2) Place the plastic tubing **3** through the die union nut **4** on to the nipple of the threaded plug (→ Fig. 1).
- 3) Screw the union nut on to the threaded plug until it is up against the counterpart (→ Fig. 2).
The tubing is thus secured and the sealing ring is pressed between the sealing surface, threaded plug, and union nut.

Dismantling:

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

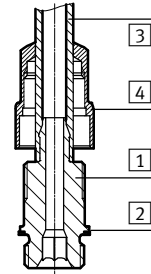


Fig. 1

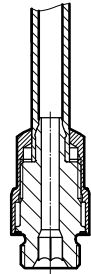


Fig. 2

Type codes



NPCK – C – D – G18 – K6

Type	
NPCK	Fitting
Design	
C	Clean Design
Design	
D	Straight design
Pneumatic connection 1	
M5	Male thread M5
G18	Male thread G $\frac{3}{8}$
G14	Male thread G $\frac{1}{4}$
G38	Male thread G $\frac{3}{8}$
Pneumatic connection 2	
K4	Clamped terminal connection for tubing O.D. 4 mm
K6	Clamped terminal connection for tubing O.D. 6 mm
K8	Clamped terminal connection for tubing O.D. 8 mm
K10	Clamped terminal connection for tubing O.D. 10 mm

Fittings NPCK

Technical data

Fittings NPCK
 Straight design

-  - Pressure
-0.95 ... +12 bar
-  - Temperature range
-20 ... +120 °C



General technical data						
Pneumatic connection 1	Male thread					
	M5	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{3}{8}$	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
Nominal width [mm]	2	2.9	4.9	4.9	6.1	6.2
Mounting position	Any					
Type of seal on threaded plug	O-ring		Sealing ring			
Nominal tightening torque [Nm]	1.5 ±10%		6.5 ±10%		20 ±10%	
					35 ±10%	

Operating and environmental conditions	
Operating pressure complete [bar]	-0.95 ... +12
temperature range	
Operating medium	Compressed air according to ISO 8573-1:2010 [7:-:-] Water as per manufacturer's declaration ¹⁾
Note on operating/pilot medium	Lubricated operation possible
Ambient temperature [°C]	-20 ... +120
Corrosion resistance class CRC ²⁾	4
Suitable for use in the food industry	As per manufacturer's declaration ¹⁾

1) Additional information www.festo.com/sp → User documentation.

2) CRC4: Corrosion resistance class to Festo standard 940 070

Components with very heavy corrosion exposure. Components in contact with aggressive media, e.g. in food or chemical industries. These applications must, if necessary, be verified by special tests with the media concerned.

Materials			
Pneumatic connection 1	Male thread		
	M5	G $\frac{1}{8}$	G $\frac{3}{8}$
Housing	High-alloy stainless steel		
Threaded plug	High-alloy stainless steel		
Sealing ring	EPDM	PEEK	
Note on materials	RoHS-compliant		

Fittings NPCK

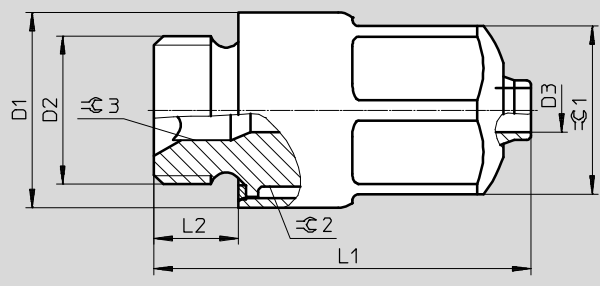
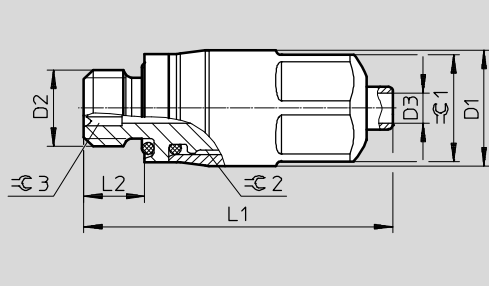
Technical data

Dimensions

Download CAD data → www.festo.com

Male thread M5

Male thread G...



Ordering data

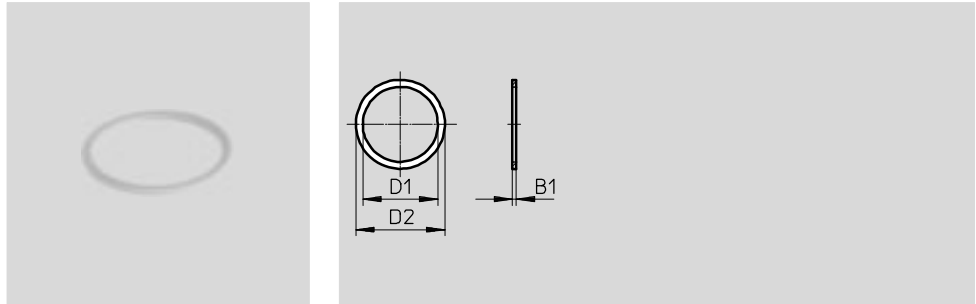
Pneumatic connection		D1	D3	L1	L2	∅1	∅2	∅3	Weight [g]	Part No.	Type	PU ¹⁾
Male thread	For tubing O.D. [mm]	∅	∅									
M5	4	7.6	2	20.3	4	7	5.5	2	4.2	1857681	NPCK-C-D-M5-K4	1
G ¹ / ₈	6	12.8	2.9	24.7	5.5	11	10	4	14.1	1366257	NPCK-C-D-G18-K6	1
	8		4.9					5	13.4	1490383	NPCK-C-D-G18-K8	1
G ¹ / ₄	8	17.9	4.9	28.1	6.4	15	14	6	28.85	1691701	NPCK-C-D-G14-K8	1
	10		6.1	30.4				6	32.9	1489336	NPCK-C-D-G14-K10	1
G ³ / ₈	10	21.8	6.2	33.7	7.4	19	18	6	51.15	1489614	NPCK-C-D-G38-K10	1

1) Packaging unit quantity

Fittings NPCK

Accessories

Sealing ring NPAS



General technical data			
Pneumatic connection 1	Male thread G $\frac{1}{8}$	Male thread G $\frac{1}{4}$	Male thread G $\frac{3}{8}$
Mounting position	Any		
Nominal tightening torque [Nm]	6.5 \pm 10%	20 \pm 10%	35 \pm 10%

Operating and environmental conditions	
Ambient temperature [°C]	-20 ... +120
Corrosion resistance class CRC ²⁾	4
Suitable for use in the food industry	As per manufacturer's declaration ¹⁾

1) Additional information www.festo.com/sp → User documentation.

2) CRC4: Corrosion resistance class to Festo standard 940 070

Components with very heavy corrosion exposure. Components in contact with aggressive media, e.g. in food or chemical industries. These applications must, if necessary, be verified by special tests with the media concerned.

Materials	
Sealing ring	PEEK
Note on materials	RoHS-compliant

Dimensions and ordering data							
Pneumatic connection	B1	D1 ∅	D2 ∅	Weight/piece [g]	Part No.	Type	PU ¹⁾
Male thread G $\frac{1}{8}$	0.5	9.9	11.7	0.02	2652516	NPAS-C1-R-G18-P-FD-P10	10
Male thread G $\frac{1}{4}$	0.5	13.3	16.6	0.05	2652517	NPAS-C1-R-G14-P-FD-P10	10
Male thread G $\frac{3}{8}$	1	16.8	20.7	0.15	2652519	NPAS-C1-R-G38-P-FD-P10	10

1) Packaging unit quantity