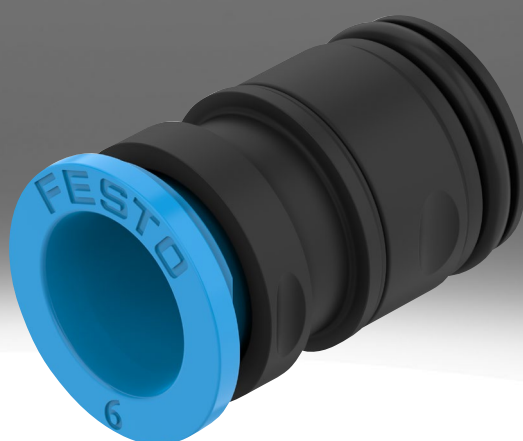


Cartridge NPQX

FESTO



Characteristics

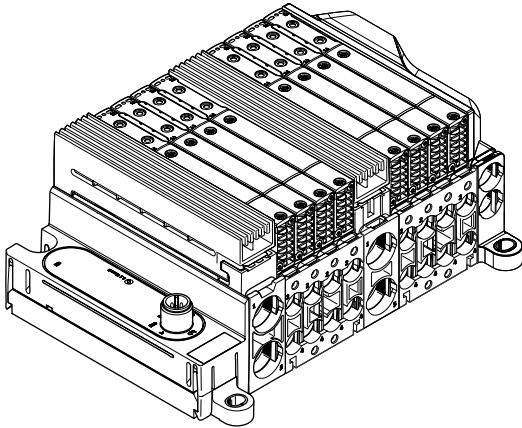
At a glance

Push-in fittings and plug connectors for pneumatic applications with a temperature range up to 60 °C and a pressure range up to 10 bar.

Note: Since the valve terminal VTUX has a compact design, a releasing tool for tubing sizes 4, 6, 8 and 10 is available as an accessory (NPAT-QX-T-V1).

Series

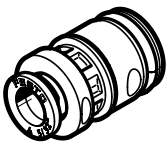
Link [vtux](#)



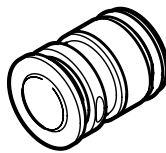
Push-in fitting, specially developed for the valve terminal VTUX.

Design

[D] Straight



[P] Blanking plug



Pneumatic connection 1

The fitting is based on the principle of the „PIN-type cartridge“, so that by loosening the PIN/retaining clip it can be easily replaced for different tubing diameters.

Pneumatic connection 2

The tubing holding function works according to the „push-pull principle“.

Type code

001	Series	
NPQX	Push-in fitting	
002	Design	
D	Straight	
P	Blanking plug	
003	Pneumatic connection 1	
PC10	Cartridge 10 mm	
PC12	Cartridge 12 mm	
PC15	Cartridge 15 mm	
PC19	Cartridge 15 mm (aluminium housing)	

004	Pneumatic connection 2	
	None	
Q4	Push-in connector 4 mm	
Q6	Push-in connector 6 mm	
Q8	Push-in connector 8 mm	
Q10	Push-in connector 10 mm	
Q12	Push-in connector 12 mm	
T14	Push-in connector for 1/4"	
T18	Push-in connector for 1/8"	
T38	Push-in connector for 3/8"	
T516	Push-in connector for 5/16"	
T532	Push-in connector for 5/32"	

005	Packaging quantity [pieces]	
	Standard	
P2	2	
P10	10	

Datasheet

General technical data – Cartridges

General technical data - Cartridges										
Pneumatic connection, port 2	For tubing outside diameter of 4 mm	For tubing outside diameter of 6 mm	For tubing outside diameter of 8 mm	For tubing outside diameter of 10 mm	For tubing outer diameter of 12 mm	For tubing outside diameter of 5/32"	For tubing O.D. 1/8"	For tubing outside diameter of 1/4"	For tubing outside diameter of 5/16"	For tubing outside diameter of 3/8"
Pneumatic connection, port 1	Cartridge 10 mm Cartridge 12 mm		Cartridge 12 mm Cartridge 15 mm	Cartridge 15 mm		Cartridge 10 mm Cartridge 12 mm	Cartridge 10 mm	Cartridge 10 mm Cartridge 12 mm	Cartridge 12 mm Cartridge 15 mm	Cartridge 15 mm
Nominal size	2.6 mm	4 mm	6 mm	8 mm	10 mm	2.6 mm	2.5 mm	4.5 mm	6 mm	6.4 mm
Tubing insertion depth	15 mm	14.9 mm	15.2 mm	15.5 mm	19.5 ... 25 mm	15 mm	11.7 mm	11.93 mm	15.2 mm	20.1 mm
Size	Standard									
Design	Straight design									
Mounting position	optional						Horizontal		optional	Horizontal
Type of seal on screwed plug	O-ring						No seal		O-ring	No seal
Design	Push-pull principle									
Type of mounting	Via retaining clamp									

Operating and environmental conditions – Cartridges

Material housing	Anodised aluminium	PA-reinforced	High-alloy steel
Operating pressure	-0.095 ... 1 MPa		
Operating pressure	-0.95 ... 10 bar		
Operating pressure	-13.775 ... 145 psi		
Operating pressure complete temperature range	-0.095 ... 1 MPa		
Operating pressure complete temperature range	-0.95 ... 10 bar		
Operating pressure complete temperature range	-13.775 ... 145 psi		
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4], Inert gases		
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)		
Ambient temperature	-10 ... 60°C		-5 ... 60°C
Corrosion resistance class CRC ¹⁾	3 - high corrosion stress		1 - Low corrosion stress

1) More information: www.festo.com/x/topic/crc

Materials – Cartridges

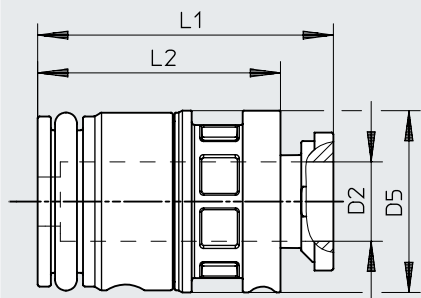
Pneumatic connection, port 2	For tubing outside diameter of 4 mm	For tubing outside diameter of 6 mm	For tubing outside diameter of 8 mm	For tubing outside diameter of 10 mm	For tubing outer diameter of 12 mm	For tubing outside diameter of 5/32"	For tubing O.D. 1/8"	For tubing outside diameter of 1/4"	For tubing outside diameter of 5/16"	For tubing outside diameter of 3/8"
Material housing	PA-reinforced				Anodised aluminium	High-alloy steel	PA-reinforced			
Material release ring	POM					PA66	–			
Material o-ring	HNBR						–		HNBR	–
Material tubing seal	NBR				HNBR	NBR	–		NBR	–
Material tubing clamp component	High-alloy stainless steel						–		High-alloy stainless steel	–
Colour of release ring	Blue									
Note on materials	RoHS-compliant									
LABS (PWIS) conformity	VDMA24364-B1/B2-L					VD-MA24364 zone III	VDMA24364-B1/B2-L			

Materials – Blanking plugs

Material blanking plug	PA-reinforced
Material o-ring	HNBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Dimensions

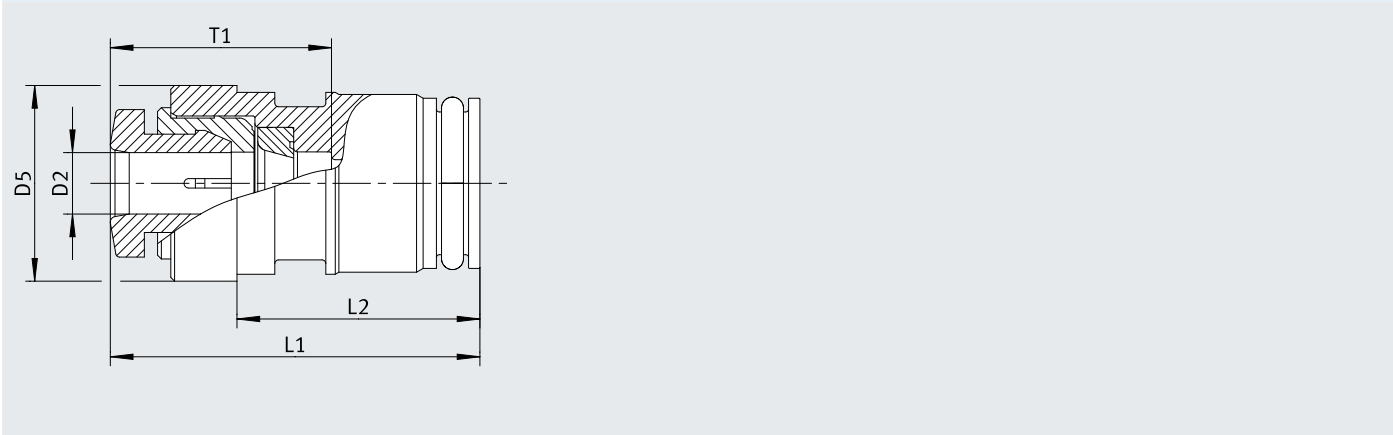
Dimensions – Cartridges (PA housing)

[Download CAD data](#) www.festo.com


	D2 Ø	D5 Ø	L1	L2
NPQX-D-PC10-Q4-P10	4	9,6	15,7	12,9
NPQX-D-PC10-Q6-P10	6	9,6	15,7	12,9
NPQX-D-PC12-Q4-P10	4	11,8	15,7	12,9
NPQX-D-PC12-Q6-P10	6	11,8	15,7	12,9
NPQX-D-PC12-Q8-P10	8	12,2	15,7	12,9
NPQX-D-PC15-Q8-P10	8	14,9	16	13,2
NPQX-D-PC15-Q10-P10	10	15,5	16	13,2
NPQX-D-PC10-T532-P10	5/32	9,6	15,7	12,9
NPQX-D-PC12-T532-P10	5/32	11,8	15,7	12,9
NPQX-D-PC12-T516-P10	5/16	12,2	15,7	12,9
NPQX-D-PC15-T516-P10	5/16	14,9	16	13,2

Dimensions

Dimensions – Cartridges (PA housing)
[Download CAD data](#)
www.festo.com

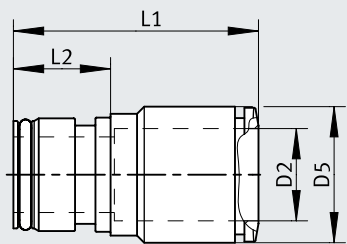


	D2	D5 ø	L1	L2	T2
NPQX-D-PC10-T18-P10	1/8	10,4	19,5	12,9	11,7
NPQX-D-PC10-T14-P10	1/4	10,4	23,4	12,9	11,9
NPQX-D-PC12-T14-P10	1/4	12,4	21,4	12,9	11,9
NPQX-D-PC19-T38-P10	3/8	18,4	29	12,9	20,1
NPQX-D-PC15-T14-P10	1/4	15,1	16,5	10,9	11,9

Dimensions

Dimensions – Cartridges (aluminium housing)

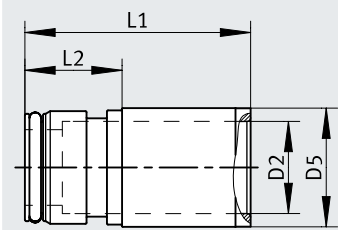
Download CAD data www.festo.com



	D2 Ø	D5 Ø	L1	L2
NPQX-D-PC19-Q12-P10	12	18	29,2	12,9

Dimensions

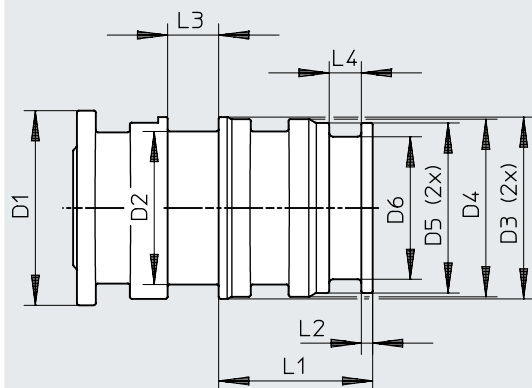
Dimensions – Cartridges (high-alloy steel housing)
[Download CAD data](#)
www.festo.com



	D2 Ø	D5 Ø	L1	L2
NPQX-D-PC15-Q12-P2	12	15,7	29,9	12,9

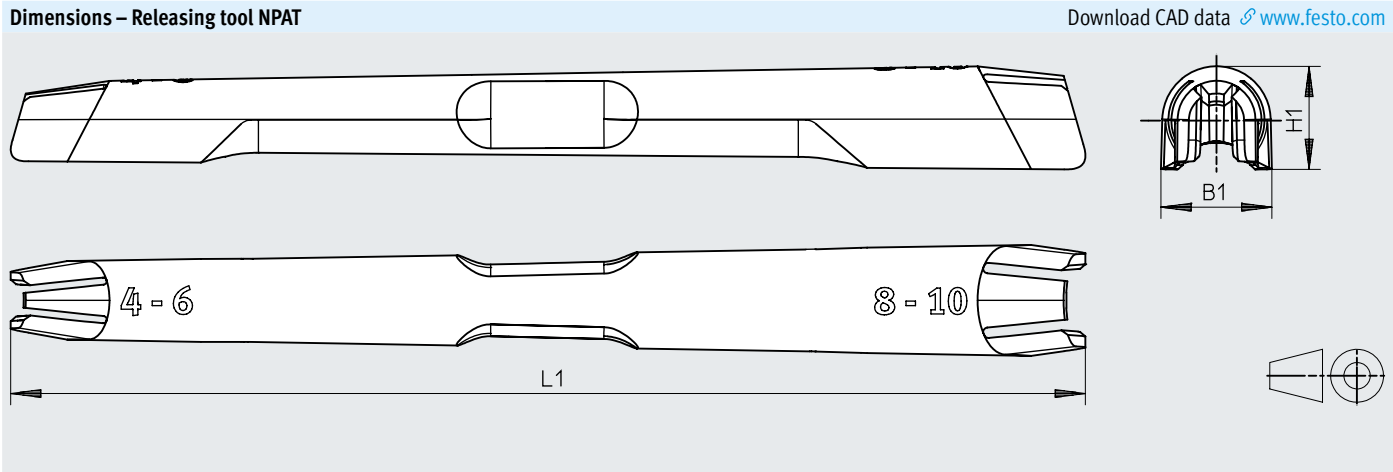
Dimensions

Dimensions – Blanking plug

[Download CAD data](#) www.festo.com


	D1 Ø ±0,09	D2 Ø ±0,06	D3 Ø ±0,06	D4 Ø ±0,06	D5 Ø ±0,06	D6 Ø ±0,06	L1	L2	L3	L4
NPQX-P-PC10	10,3	8,1	9,6	9,4	9	7,6	8,2	0,6	2,7	1,7
NPQX-P-PC12	12,2	10	11,8	11,6	11,2	9,6	8,2	0,6	2,7	1,7
NPQX-P-PC15	15,5	13	15,1	14,9	14,2	12	8,5	0,6	2,7	1,8

Dimensions



	B1	H1	L1
NPAT-QX-T-V1	~14,7	~13,6	142,2

Ordering data

Ordering data – Cartridges (housing PA)						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Cartridge 10 mm	For tubing outside diameter of 4 mm	10	0.9 g	8174164	NPQX-D-PC10-Q4-P10
		For tubing outside diameter of 6 mm		0.72 g	8174165	NPQX-D-PC10-Q6-P10
		For tubing outside diameter of 5/32"		0.9 g	8184509	NPQX-D-PC10-T532-P10
		For tubing O.D. 1/8"		2 g	8184511	NPQX-D-PC10-T18-P10
		For tubing outside diameter of 1/4"		2.15 g	8184510	NPQX-D-PC10-T14-P10
	Cartridge 12 mm	For tubing outside diameter of 4 mm	10	1.24 g	8174166	NPQX-D-PC12-Q4-P10
		For tubing outside diameter of 6 mm		1.2 g	8174167	NPQX-D-PC12-Q6-P10
		For tubing outside diameter of 8 mm		0.92 g	8174168	NPQX-D-PC12-Q8-P10
		For tubing outside diameter of 5/32"		1.24 g	8184512	NPQX-D-PC12-T532-P10
		For tubing outside diameter of 1/4"		2.6 g	8184514	NPQX-D-PC12-T14-P10
		For tubing outside diameter of 5/16"		0.92 g	8184513	NPQX-D-PC12-T516-P10
		For tubing outside diameter of 3/8"		1.9 g	8174169	NPQX-D-PC15-Q8-P10
	Cartridge 15 mm	For tubing outside diameter of 8 mm	10	1.64 g	8174170	NPQX-D-PC15-Q10-P10
		For tubing outside diameter of 10 mm		2.15 g	8230012	NPQX-D-PC15-T14-P10
		For tubing outside diameter of 1/4"		1.9 g	8184515	NPQX-D-PC15-T516-P10
		For tubing outside diameter of 5/16"		10 g	8189810	NPQX-D-PC19-T38-P10
		For tubing outside diameter of 3/8"				

Ordering data – Cartridges (housing aluminium)						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Cartridge 15 mm	For tubing outer diameter of 12 mm	10	7.6 g	8174171	NPQX-D-PC19-Q12-P10

Ordering data

Ordering data – Cartridges (high-alloy steel housing)						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Cartridge 15 mm	For tubing outer diameter of 12 mm	2	11.5 g	8225231	NPQX-D-PC15-Q12-P2

Ordering data – Blanking plugs				
	Size of pack	Product weight	Part no.	Type
	10	0.8 g	8191750	NPQX-P-PC12
		1 g	8191749	NPQX-P-PC10
		1.6 g	8191751	NPQX-P-PC15

Accessories

Releasing tool NPAT					
	Size	Releasing tool material	Size of pack	Part no.	Type
	For tubing O.D. 4 mm For tubing O.D. 6 mm For tubing O.D. 8 mm For tubing O.D. 10 mm	POM	1	8214270	NPAT-QX-T-V1