

Push-in fitting, metal, standard NPQM-G2

FESTO



Characteristics

At a glance

- Solid-metal brass, chemically nickel-plated
- Cost-effective metal version for a wide range of applications
- Robust construction
- Operating medium compressed air, vacuum
- Complies with the RoHS II Directive 2011/65/EU (Annex III) without exceptions

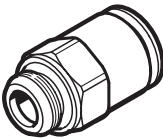
Additional documents Link [npqm](#)



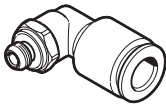
The additional document PUSH-IN-FITTINGS-ADD contains further information on tubing/fitting combinations and thread types, as well as installation instructions.

Design

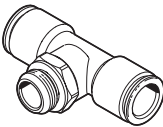
[D] Straight



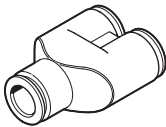
[L] L-shape



[T] T-shape



[Y] Y-shape



Generation

[G2] 2nd generation

RoHS compliance without the use of time-limited approved exemptions.

Type code

001	Series	
NPQM	Push-in fitting	
002	Design	
D	Straight	
L	L-shape	
T	T-shape	
Y	Y-shape	
003	Additional features	
	Without	
004	Mounting method	
	Standard	
K	Hex socket	

005	Pneumatic connection 1	
G18	G1/8	
G14	G1/4	
G38	G3/8	
G12	G1/2	
M5	M5	
M7	M7	
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	
Q14	Push-in connector, 14 mm	

006	Pneumatic connection 2	
E	Same size as connection 1	
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	
Q14	Push-in connector, 14 mm	

007	Packaging quantity [pieces]	
P10	10	

008	Generation	
G2	2nd generation	

Datasheet

General technical data

Design	L-shape	T-shape	Y-shape	Straight design
Size	Standard			
Structural design	Push-pull principle			
Type of seal on screwed plug	Sealing ring	–		Sealing ring
Pack size	10			

Operating and environmental conditions

Operating pressure for entire temperature range	-0.095 ... 1.6 MPa
Operating pressure for entire temperature range	-0.95 ... 16 bar
Operating pressure for entire temperature range	-13.775 ... 232 psi
Operating medium	Compressed air as per ISO 8573-1:2010 [7:-:]
Information on operating and pilot media	Lubricated operation possible
Ambient temperature ¹⁾	-20 ... 70°C
Corrosion resistance class (CRC) ²⁾	1 - Low corrosion stress

1) Observe the application range of the plastic tubing.

2) Further information, visit www.festo.com/x/topic/kbk

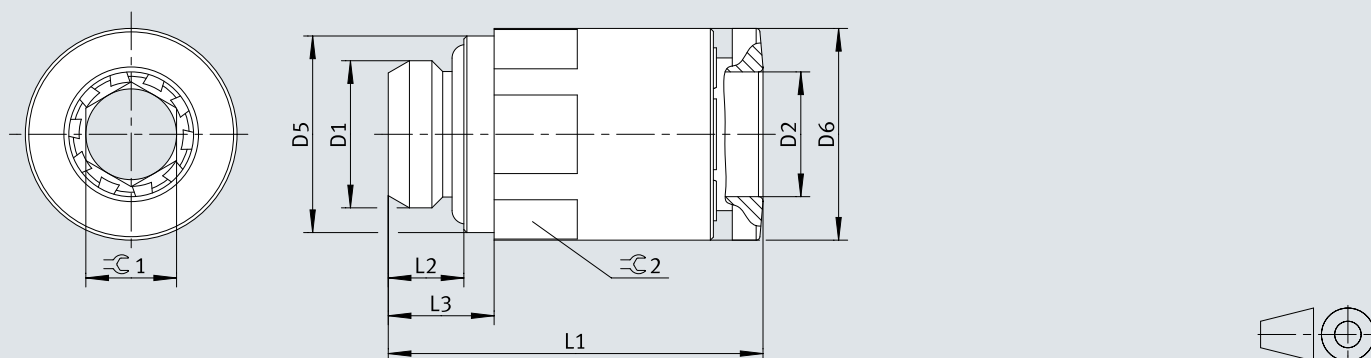
Materials

Housing material	Brass, nickel-plated
Releasing ring material	Brass, nickel-plated
Material of tubing seal	NBR
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Dimensions

Dimensions – Push-in fitting NPQH-D, male thread with internal/external hexagon

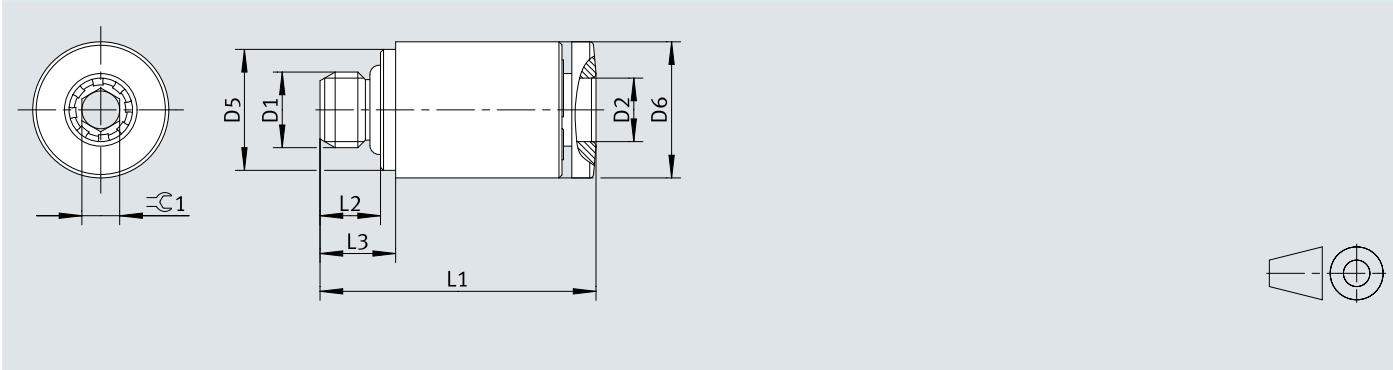
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	D1	D2 ø	D5 ø	D6 ø	L1	L2	L3	± 0.1	± 0.2
NPQM-D-G18-Q4-P10-G2	G1/8	4	9	13	17,6	5	7	9	3
NPQM-D-G18-Q6-P10-G2		6	12	13,5	19,7			12	4
NPQM-D-G18-Q8-P10-G2		8	14	13	24,8			13	6
NPQM-D-G14-Q6-P10-G2	G1/4	6	12	16	19,7	6,5	8,5	12	4
NPQM-D-G14-Q8-P10-G2		8	14	16	21,8			14	6
NPQM-D-G14-Q10-P10-G2		10	16	16	27,85			15	8
NPQM-D-G14-Q12-P10-G2		12	19	16	30,3			19	8
NPQM-D-G38-Q8-P10-G2	G3/8	8	14	20	21,8	7	9,5	14	6
NPQM-D-G38-Q10-P10-G2		10	16	20	25,55			16	8
NPQM-D-G38-Q12-P10-G2		12	19	20,5	29,8			19	10
NPQM-D-G38-Q14-P10-G2		14	21	20	32,1		8,5	21	10
NPQM-D-G12-Q10-P10-G2	G1/2	10	16	25	25,55	8,5	11	16	8
NPQM-D-G12-Q12-P10-G2		12	19	25	28,3			19	10
NPQM-D-G12-Q14-P10-G2		14	21	25	33,1			21	12

Dimensions

Dimensions – Push-in fitting NPQM-DK, male thread with internal hexagon [Download CAD data](#) www.festo.com

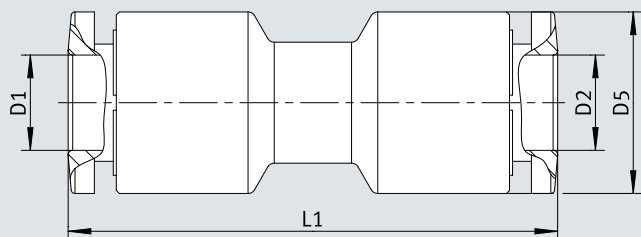


	D1	D2 ø	D5 ø	D6 ø	L1	L2	L3	±1
NPQM-DK-M5-Q4-P10-G2	M5	4	8	9	18,5	4	5	2,5
NPQM-DK-M5-Q6-P10-G2		6		9,9 ^{-0,1}	20,5			
NPQM-DK-M7-Q4-P10-G2	M7	4	9	9	20	5	6	3
NPQM-DK-M7-Q6-P10-G2		6		9,9 ^{-0,1}	22,3			

Dimensions

Dimensions – Push-in connector NPQM-D

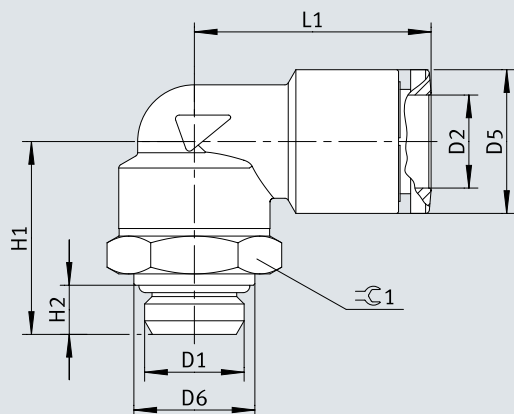
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	D1 ø	D2 ø	D5 ø	L1
NPQM-D-Q4-E-P10-G2	4	4	9	27,6
NPQM-D-Q6-E-P10-G2	6	6	12	32,4
NPQM-D-Q8-E-P10-G2	8	8	14	35,6
NPQM-D-Q10-E-P10-G2	10	10	16	40,6
NPQM-D-Q12-E-P10-G2	12	12	19	44,6
NPQM-D-Q14-E-P10-G2	14	14	21	48,2

Dimensions

Dimensions – Push-in L-fitting NPQM-L, male thread with external hexagon

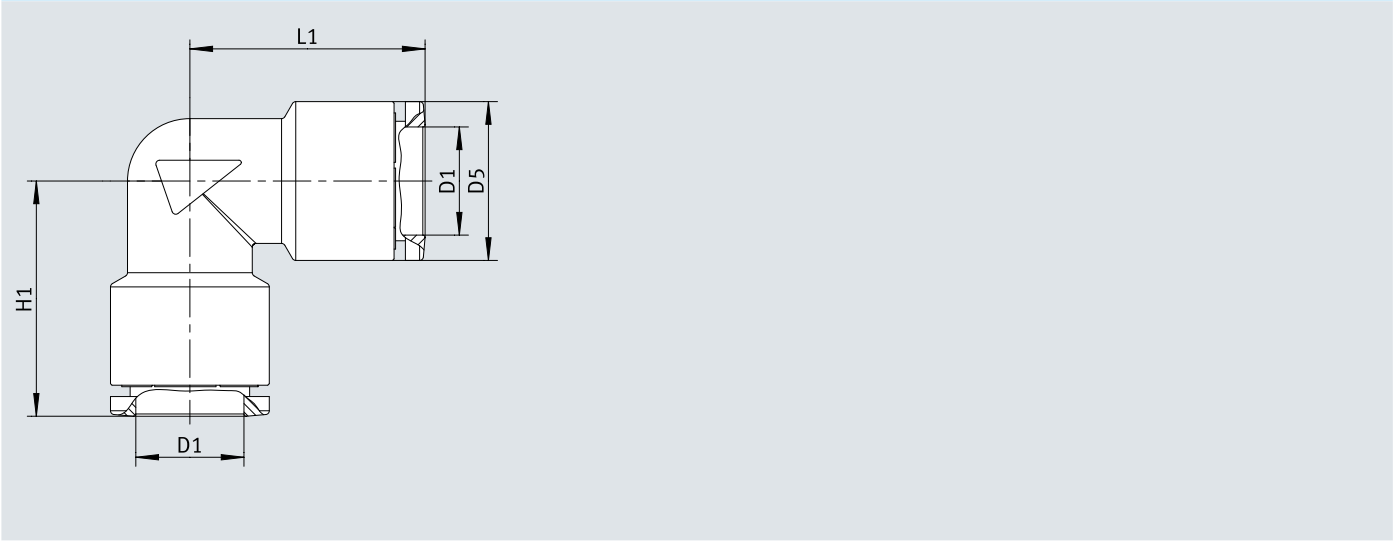
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	D1	D2 ø	D5 ø	D6 ø	H1	H2	L1	±0.1
NPQM-L-M5-Q4-P10-G2	M5	4	9	8	15	4	17,6	9
NPQM-L-M5-Q6-P10-G2		6	12		16		17,7	9
NPQM-L-G18-Q4-P10-G2	G1/8	4	9	13	18,7	5	19,1	13
NPQM-L-G18-Q6-P10-G2		6	12		18,5		21,2	13
NPQM-L-G18-Q8-P10-G2		8	14		18,5		23,3	13
NPQM-L-G14-Q6-P10-G2	G1/4	6	12	16	21,5	6,5	21,2	13
NPQM-L-G14-Q8-P10-G2		8	14		21,5		23,3	13
NPQM-L-G14-Q10-P10-G2		10	16		23		26,55	16
NPQM-L-G14-Q12-P10-G2		12	19		25,5		31,3	20
NPQM-L-G38-Q8-P10-G2	G3/8	8	14	20	22,5	7	23,3	16
NPQM-L-G38-Q10-P10-G2		10	16		25,5		26,55	16
NPQM-L-G38-Q12-P10-G2		12	19		26		31,3	20
NPQM-L-G38-Q14-P10-G2		14	21		28		31,1	20
NPQM-L-G12-Q10-P10-G2	G1/2	10	16	25	27	8,5	26,55	16
NPQM-L-G12-Q12-P10-G2		12	19		28,5		31,3	20
NPQM-L-G12-Q14-P10-G2		14	21		30,5		31,1	20

Dimensions

Dimensions – Push-in L-connector NPQM-L

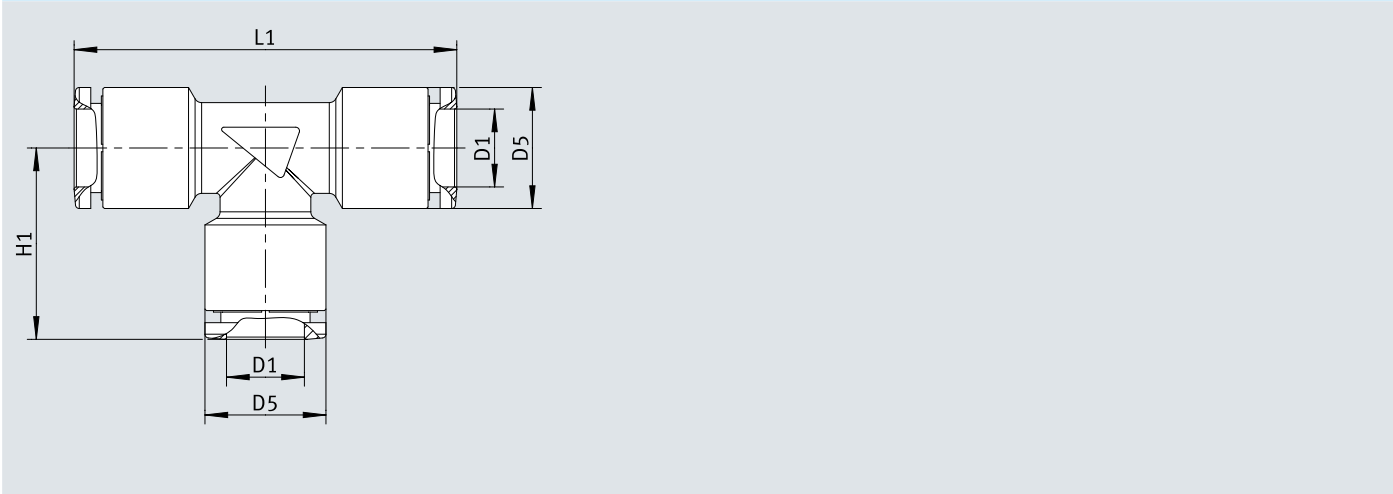
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	D1 Ø	D5 Ø	H1	L1
NPQM-L-Q4-E-P10-G2	4	9	17,6	17,6
NPQM-L-Q6-E-P10-G2	6	12	19,7	19,7
NPQM-L-Q8-E-P10-G2	8	14	22,5	22,5
NPQM-L-Q10-E-P10-G2	10	16	25,55	25,55
NPQM-L-Q12-E-P10-G2	12	19	29,3	29,3
NPQM-L-Q14-E-P10-G2	14	21	31,1	31,1

Dimensions

Dimensions – Push-in T connector NPQM-T [Download CAD data](http://www.festo.com) www.festo.com

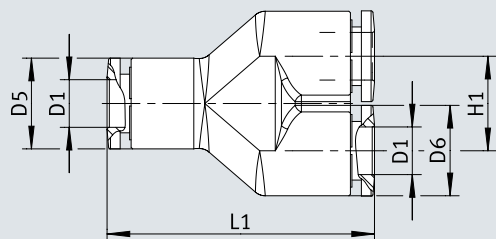


	D1 Ø	D5 Ø	H1	L1
NPQM-T-Q4-E-P10-G2	4	9	17,6	34,6
NPQM-T-Q6-E-P10-G2	6	12	19,7	39,4
NPQM-T-Q8-E-P10-G2	8	14	22,5	45
NPQM-T-Q10-E-P10-G2	10	16	25,55	51,1
NPQM-T-Q12-E-P10-G2	12	19	29	58
NPQM-T-Q14-E-P10-G2	14	21	31,1	62,2

Dimensions

Dimensions – Push-in Y connector NPQM-Y

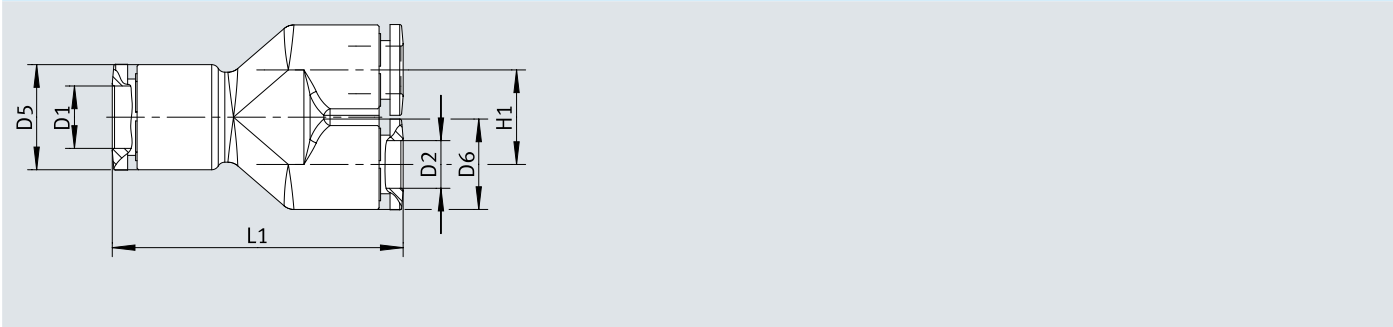
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	D1 Ø	D5 Ø	D6 Ø	H1	L1
NPQM-Y-Q4-E-P10-G2	4	9	10,2	10,5	31,15
NPQM-Y-Q6-E-P10-G2	6	12	12,25	12,5	35,4
NPQM-Y-Q8-E-P10-G2	8	14	14,25	14,5	38,4
NPQM-Y-Q10-E-P10-G2	10	16	16,5	17	45,4
NPQM-Y-Q12-E-P10-G2	12	19	19,5	20	52,6

Dimensions

Dimensions – Push-in Y-connector NPQM-Y, reducing Download CAD data www.festo.com



	D1 Ø	D2 Ø	D5 Ø	D6 Ø	H1	L1
NPQM-Y-Q6-Q4-P10-G2	6	4	12	12,2	12,5	34
NPQM-Y-Q8-Q6-P10-G2	8	6	14	12,25	12,5	38,5
NPQM-Y-Q10-Q8-P10-G2	10	8	16	14,25	14,5	42,1

Ordering data

Push-in fitting NPQM-D, external thread with internal/external hexagon						
	Pneumatic connection 1	Pneumatic connection 2	Nominal tightening torque ¹⁾	Product weight	Part no.	Type
	External thread G1/8	for pneumatic tubing outside diameter 4 mm	6 Nm	7.4 g	8226835	NPQM-D-G18-Q4-P10-G2
		for pneumatic tubing outside diameter 6 mm		9.3 g	8226836	NPQM-D-G18-Q6-P10-G2
		for pneumatic tubing outside diameter 8 mm		13.4 g	8226837	NPQM-D-G18-Q8-P10-G2
	External thread G1/4	for pneumatic tubing outside diameter 6 mm	7.5 Nm	13 g	8226838	NPQM-D-G14-Q6-P10-G2
		for pneumatic tubing outside diameter 8 mm		14.5 g	8226839	NPQM-D-G14-Q8-P10-G2
		for pneumatic tubing outside diameter 10 mm		18 g	8226840	NPQM-D-G14-Q10-P10-G2
		for pneumatic tubing outside diameter 12 mm		29 g	8226841	NPQM-D-G14-Q12-P10-G2
	External thread G3/8	for pneumatic tubing outside diameter 8 mm	9 Nm	21.4 g	8226842	NPQM-D-G38-Q8-P10-G2
		for pneumatic tubing outside diameter 10 mm		22 g	8226843	NPQM-D-G38-Q10-P10-G2
		for pneumatic tubing outside diameter 12 mm		33 g	8226844	NPQM-D-G38-Q12-P10-G2
		for pneumatic tubing outside diameter 14 mm		39 g	8226884	NPQM-D-G38-Q14-P10-G2
	External thread G1/2	for pneumatic tubing outside diameter 10 mm		34 g	8226845	NPQM-D-G12-Q10-P10-G2
		for pneumatic tubing outside diameter 12 mm		39 g	8226846	NPQM-D-G12-Q12-P10-G2
		for pneumatic tubing outside diameter 14 mm		47 g	8226885	NPQM-D-G12-Q14-P10-G2

1) Tolerance for nominal tightening torque: ±20%

Push-in fitting NPQM-DK, external thread with internal hexagon						
	Pneumatic connection 1	Pneumatic connection 2	Nominal tightening torque ¹⁾	Product weight	Part no.	Type
	External thread M5	for pneumatic tubing outside diameter 4 mm	1 Nm	5 g	8226831	NPQM-DK-M5-Q4-P10-G2
		for pneumatic tubing outside diameter 6 mm		6 g	8226832	NPQM-DK-M5-Q6-P10-G2
	External thread M7	for pneumatic tubing outside diameter 4 mm	3 Nm	5.7 g	8226833	NPQM-DK-M7-Q4-P10-G2

Ordering data

Push-in fitting NPQM-DK, external thread with internal hexagon						
	Pneumatic connection 1	Pneumatic connection 2	Nominal tightening torque ¹⁾	Product weight	Part no.	Type
	External thread M7	for pneumatic tubing outside diameter 6 mm	3 Nm	7 g	8226834	NPQM-DK-M7-Q6-P10-G2

1) Tolerance for nominal tightening torque: ±20%

Push-in connector NPQM-D					
	Pneumatic connection 1	Pneumatic connection 2	Product weight	Part no.	Type
	for pneumatic tubing outside diameter 4 mm	for pneumatic tubing outside diameter 4 mm	7.3 g	8226861	NPQM-D-Q4-E-P10-G2
	For pneumatic tubing outside diameter 6 mm	for pneumatic tubing outside diameter 6 mm	12.2 g	8226862	NPQM-D-Q6-E-P10-G2
	for pneumatic tubing outside diameter 8 mm	for pneumatic tubing outside diameter 8 mm	17 g	8226863	NPQM-D-Q8-E-P10-G2
	for pneumatic tubing outside diameter 10 mm	for pneumatic tubing outside diameter 10 mm	21 g	8226864	NPQM-D-Q10-E-P10-G2
	for pneumatic tubing outside diameter 12 mm	for pneumatic tubing outside diameter 12 mm	38 g	8226865	NPQM-D-Q12-E-P10-G2
	for pneumatic tubing outside diameter 14 mm	for pneumatic tubing outside diameter 14 mm	48 g	8226886	NPQM-D-Q14-E-P10-G2

Push-in L-fitting NPQM-L, external thread with external hexagon						
	Pneumatic connection 1	Pneumatic connection 2	Nominal tightening torque ¹⁾	Product weight	Part no.	Type
	External thread M5	for pneumatic tubing outside diameter 4 mm	1 Nm	9 g	8226847	NPQM-L-M5-Q4-P10-G2
		for pneumatic tubing outside diameter 6 mm		11 g	8226848	NPQM-L-M5-Q6-P10-G2
	External thread G1/8	for pneumatic tubing outside diameter 4 mm	6 Nm	19 g	8226849	NPQM-L-G18-Q4-P10-G2
		for pneumatic tubing outside diameter 6 mm		20 g	8226850	NPQM-L-G18-Q6-P10-G2
		for pneumatic tubing outside diameter 8 mm		22 g	8226851	NPQM-L-G18-Q8-P10-G2
	External thread G1/4	for pneumatic tubing outside diameter 6 mm	7.5 Nm	23 g	8226852	NPQM-L-G14-Q6-P10-G2
		for pneumatic tubing outside diameter 8 mm		25 g	8226853	NPQM-L-G14-Q8-P10-G2
		for pneumatic tubing outside diameter 10 mm		39 g	8226854	NPQM-L-G14-Q10-P10-G2
		for pneumatic tubing outside diameter 12 mm		56 g	8226855	NPQM-L-G14-Q12-P10-G2

Ordering data

Push-in L-fitting NPQM-L, external thread with external hexagon

	Pneumatic connection 1	Pneumatic connection 2	Nominal tightening torque ¹⁾	Product weight	Part no.	Type
	External thread G3/8	for pneumatic tubing outside diameter 8 mm	9 Nm	31 g	8226856	NPQM-L-G38-Q8-P10-G2
		for pneumatic tubing outside diameter 10 mm		43 g	8226857	NPQM-L-G38-Q10-P10-G2
		for pneumatic tubing outside diameter 12 mm		56 g	8226858	NPQM-L-G38-Q12-P10-G2
		for pneumatic tubing outside diameter 14 mm		61 g	8226889	NPQM-L-G38-Q14-P10-G2
	External thread G1/2	for pneumatic tubing outside diameter 10 mm	9 Nm	52 g	8226859	NPQM-L-G12-Q10-P10-G2
		for pneumatic tubing outside diameter 12 mm		64 g	8226860	NPQM-L-G12-Q12-P10-G2
		for pneumatic tubing outside diameter 14 mm		69 g	8226890	NPQM-L-G12-Q14-P10-G2

1) Tolerance for nominal tightening torque: ±20%

Push-in L-connector NPQM-L

	Pneumatic connection 1	Pneumatic connection 2	Product weight	Part no.	Type
	for pneumatic tubing outside diameter 4 mm	for pneumatic tubing outside diameter 4 mm	11 g	8226866	NPQM-L-Q4-E-P10-G2
	for pneumatic tubing outside diameter 6 mm	for pneumatic tubing outside diameter 6 mm	14 g	8226867	NPQM-L-Q6-E-P10-G2
	for pneumatic tubing outside diameter 8 mm	for pneumatic tubing outside diameter 8 mm	20 g	8226868	NPQM-L-Q8-E-P10-G2
	for pneumatic tubing outside diameter 10 mm	for pneumatic tubing outside diameter 10 mm	26 g	8226869	NPQM-L-Q10-E-P10-G2
	for pneumatic tubing outside diameter 12 mm	for pneumatic tubing outside diameter 12 mm	50 g	8226870	NPQM-L-Q12-E-P10-G2
	for pneumatic tubing outside diameter 14 mm	for pneumatic tubing outside diameter 14 mm	56 g	8226887	NPQM-L-Q14-E-P10-G2

Push-in T-connector NPQM-T

	Pneumatic connection 1	Pneumatic connection 2	Product weight	Part no.	Type
	for pneumatic tubing outside diameter 4 mm	for pneumatic tubing outside diameter 4 mm	15.1 g	8226871	NPQM-T-Q4-E-P10-G2
	for pneumatic tubing outside diameter 6 mm	for pneumatic tubing outside diameter 6 mm	20.1 g	8226872	NPQM-T-Q6-E-P10-G2
	for pneumatic tubing outside diameter 8 mm	for pneumatic tubing outside diameter 8 mm	29.2 g	8226873	NPQM-T-Q8-E-P10-G2
	for pneumatic tubing outside diameter 10 mm	for pneumatic tubing outside diameter 10 mm	37 g	8226874	NPQM-T-Q10-E-P10-G2
	for pneumatic tubing outside diameter 12 mm	for pneumatic tubing outside diameter 12 mm	67 g	8226875	NPQM-T-Q12-E-P10-G2
	for pneumatic tubing outside diameter 14 mm	for pneumatic tubing outside diameter 14 mm	78 g	8226888	NPQM-T-Q14-E-P10-G2

Ordering data

Push-in Y connector NPQM-Y					
	Pneumatic connection 1	Pneumatic connection 2	Product weight	Part no.	Type
	for pneumatic tubing outside diameter 4 mm	for pneumatic tubing outside diameter 4 mm	21 g	8226876	NPQM-Y-Q4-E-P10-G2
	for pneumatic tubing outside diameter 6 mm	for pneumatic tubing outside diameter 6 mm	29.5 g	8226877	NPQM-Y-Q6-E-P10-G2
	for pneumatic tubing outside diameter 8 mm	for pneumatic tubing outside diameter 8 mm	43 g	8226878	NPQM-Y-Q8-E-P10-G2
	for pneumatic tubing outside diameter 10 mm	for pneumatic tubing outside diameter 10 mm	60 g	8226879	NPQM-Y-Q10-E-P10-G2
	for pneumatic tubing outside diameter 12 mm	for pneumatic tubing outside diameter 12 mm	101 g	8226880	NPQM-Y-Q12-E-P10-G2

Push-in Y-connector NPQM-Y, reducing					
	Pneumatic connection 1	Pneumatic connection 2	Product weight	Part no.	Type
	for pneumatic tubing outside diameter 6 mm	for pneumatic tubing outside diameter 4 mm	33 g	8226881	NPQM-Y-Q6-Q4-P10-G2
	for pneumatic tubing outside diameter 8 mm	for pneumatic tubing outside diameter 6 mm	31 g	8226882	NPQM-Y-Q8-Q6-P10-G2
	for pneumatic tubing outside diameter 10 mm	for pneumatic tubing outside diameter 8 mm	44 g	8226883	NPQM-Y-Q10-Q8-P10-G2