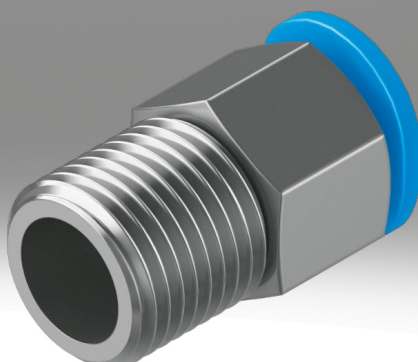


Push-in fitting, mini series QSM

FESTO



Characteristics

At a glance

- Mini series
- Compact for maximum component density in confined installation spaces
 - PBT and nickel-plated brass
 - Operating medium: compressed air, vacuum

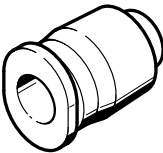
Diagrams Link qsm



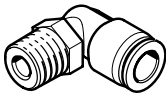
The diagrams shown in this document are also available online. These can be used to display precise values.

Design

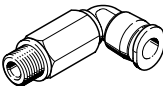
[C] Blanking plug



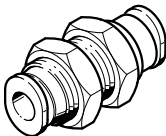
[L] L-shape



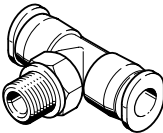
[LL] L-shape, long version



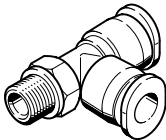
[S] Push-in bulkhead connector



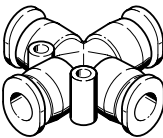
[T] T-shape



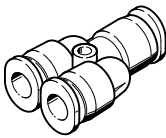
[TL] T-shape, additional push-in connector, lengthwise



[X] X-shape



[Y] Y-shape

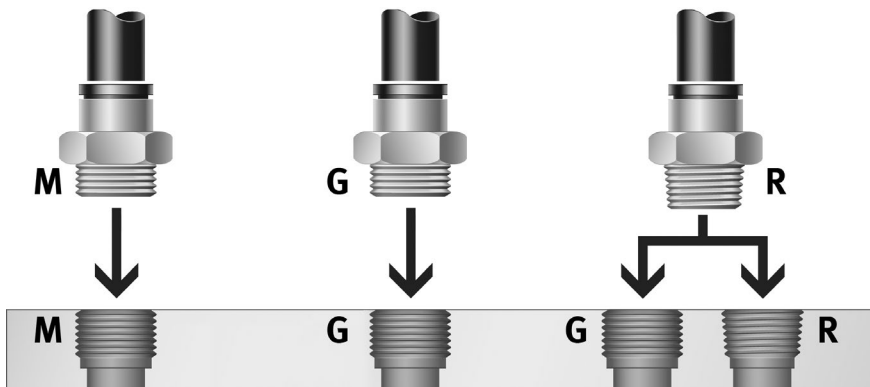


Pneumatic connection 1

Push-in fittings for different tube outside diameters can be combined with push-in fittings, push-in sleeves, metric male threads, male R and G threads.

Characteristics

Description



Which fitting fits into which thread?

- Metric thread: Threads are comparable to G threads and are mounted in metric cylindrical threads. Tightness is ensured by a chambered O-ring.
- G thread to ISO 228-1: shorter thread, constant installation depth, replaceable sealing ring, seal on the front, reusable several times thanks to replaceable sealing ring.
- R thread to EN 10226-1 and ISO 7/1: self-locking thread, seal on the thread, no additional sealing surface required, smaller installation dimensions as no shoulder for sealing surface, can be reused up to 5 times. When combining a male R thread with a female G thread, leakage can occur if the female G thread is not manufactured properly or has an unfavourable limit tolerance. In this case, an additional seal is required, e.g. with sealing band. When combining a male R thread with a female G thread, leakage can occur if the female G thread is not manufactured properly or has an unfavourable limit tolerance. In this case, an additional seal is required, e.g. with sealing band.

Description

Note: All R threads are coated with a sealing material. This coating replaces the conventional sealing ring. Simply screw in the R thread by hand and tighten it by turning it once or twice with an open-ended spanner. The fitting can be screwed in up to five times. When screwing in the R threads several times, make sure that the abrasion of the sealing material coating cannot get into the compressed air system.

Type code

001	Series	
QSM	Push-in fitting, mini series	
QSMC	Push-in fitting, mini series	
QSMF	Push-in fitting, mini series	
QSM L	Push-in fitting, mini series	
QSM L L	Push-in fitting, mini series	
QSM L L V	Push-in fitting, mini series	
QSM L V	Push-in fitting, mini series	
QSM P	Push-in fitting, mini series	
QSM S	Push-in fitting, mini series	
QSM T	Push-in fitting, mini series	
QSM T L	Push-in fitting, mini series	
QSM X	Push-in fitting, mini series	
QSM Y	Push-in fitting, mini series	

002	Design	
	Straight shape	
C	Blanking plug	
L	L-shape	
LL	L-shape, long version	
S	Push-in bulkhead connector	
T	T-shape	
TL	T-shape, additional push-in connector, lengthwise	
X	X-shape	
Y	Y-shape	

003	Pneumatic connection 1	
1/8	Male thread R1/8	
2	Push-in connector 2 mm	
2H	Push-in sleeve 2 mm	
3	Push-in connector 3 mm	
3H	Push-in sleeve 3 mm	
4	Push-in connector 4 mm	
4H	Push-in sleeve 4 mm	
6	Push-in connector 6 mm	
6H	Push-in sleeve 6 mm	
G1/8	Male thread G1/8	
M3	Male thread M3	
M5	Male thread M5	
M6	Male thread M6	
M6x0,75	Male thread M6x0.75	
M7	Male thread M7	
M8x0,75	Male thread M8x0.75	
M8x1,25	Male thread M8x1.25	

004	Pneumatic connection 2	
	Same size push-in connector as pneumatic connection 1	
2	Push-in connector 2 mm	
3	Push-in connector 3 mm	
4	Push-in connector 4 mm	
6	Push-in connector 6 mm	

005	Mounting method	
	Standard	
I	Internal hexagon	

006	Additional characteristic	
	None	
R	Round releasing ring	

007	Packaging unit [units]	
10	10	
100	100	

Datasheet

General technical data – Male metric and G thread

Pneumatic connection, port 1	Male thread M3	Male thread M5	Male thread M6	Male thread M6x0.75	Male thread M7	Male thread M8x0.75	Male thread M8x1.25	Male thread G1/8
Design	Push-pull principle							
Mounting position	optional							
Type of seal on screwed plug	Sealing ring							
Nominal torque	0.48 Nm	1.2 ... 1.33 Nm	–		2.2 Nm	–		5.4 Nm
Nominal size	0.8 ... 1.6 mm	0.9 ... 2.6 mm	2.8 mm	2.5 mm	1.8 ... 4.1 mm	4 mm	2.3 ... 4.1 mm	

General technical data – Male R thread

Pneumatic connection, port 1	Male thread R1/8
Design	Push-pull principle
Mounting position	optional
Type of seal on screwed plug	Coating
Nominal size	2.3 ... 4.5 mm

General technical data – Female G thread

Pneumatic connection, port 1	Female thread M3	Female thread M5
Design	Push-pull principle	
Mounting position	optional	
Type of seal on screwed plug	Sealing ring	
Nominal size	1.3 ... 2.1 mm	1.8 ... 1.9 mm

General technical data – Push-in sleeve

Pneumatic connection, port 1	Push-in sleeve Ø 2 mm	Push-in sleeve Ø 3 mm	Push-in sleeve Ø 4 mm	Push-in sleeve Ø 6 mm
Design	–	Push-pull principle		
Mounting position	optional			
Nominal size	–	1.1 ... 1.2 mm	1.7 ... 1.9 mm	1.9 ... 3.2 mm

General technical data – For tubing outer Ø

Pneumatic connection, port 1	For tubing outer diameter of 2 mm	For tubing outside diameter of 3 mm	For tubing outer diameter of 4 mm	For tubing outside diameter of 6 mm
Design	Push-pull principle			
Mounting position	optional			
Type of seal on screwed plug	Sealing ring		–	
Nominal size	0.9 mm	1.1 ... 1.9 mm	1.6 ... 2.6 mm	2.3 ... 3.7 mm

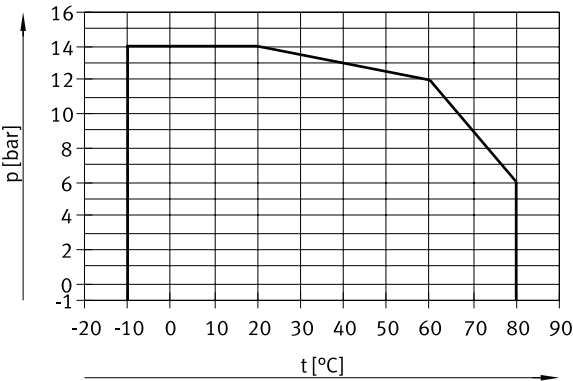
Operating and environmental conditions

Operating pressure complete temperature range	-0.95 ... 6 bar
Temperature-dependent operating pressure	-0.95 ... 14 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]
Note on operating and pilot medium	Lubricated operation possible
Ambient temperature	-10 ... 80°C
Corrosion resistance class CRC ¹⁾	1 - Low corrosion stress
Maritime classification ²⁾	See certificate

1) More information www.festo.com/x/topic/crc2) More information www.festo.com/catalogue/qsm → Support/Downloads.

Datasheet

Operating pressure p as a function of temperature t



Materials – Push-in fittings

Material housing ¹⁾	Anodised aluminium, Brass, nickel-plated, PBT, Nickel-plated steel
Material release ring	POM
Material tubing seal	NBR
Material tubing clamp component	High-alloy stainless steel
Note on materials	RoHS-compliant
Material nut ²⁾	Nickel-plated brass
Material hollow bolt ³⁾	Nickel-plated brass

1) QSM-M3-3/4: Nickel-plated steel (instead of nickel-plated brass)

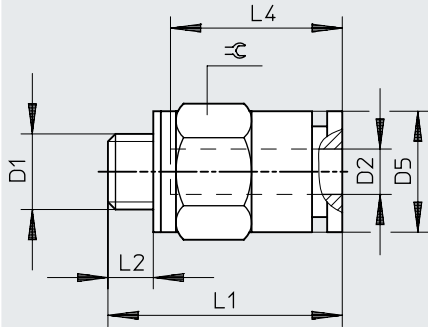
2) QSMS

3) QSMLV/QSMLLV

Dimensions

Dimensions – Push-in fitting QSM, metric thread with sealing ring

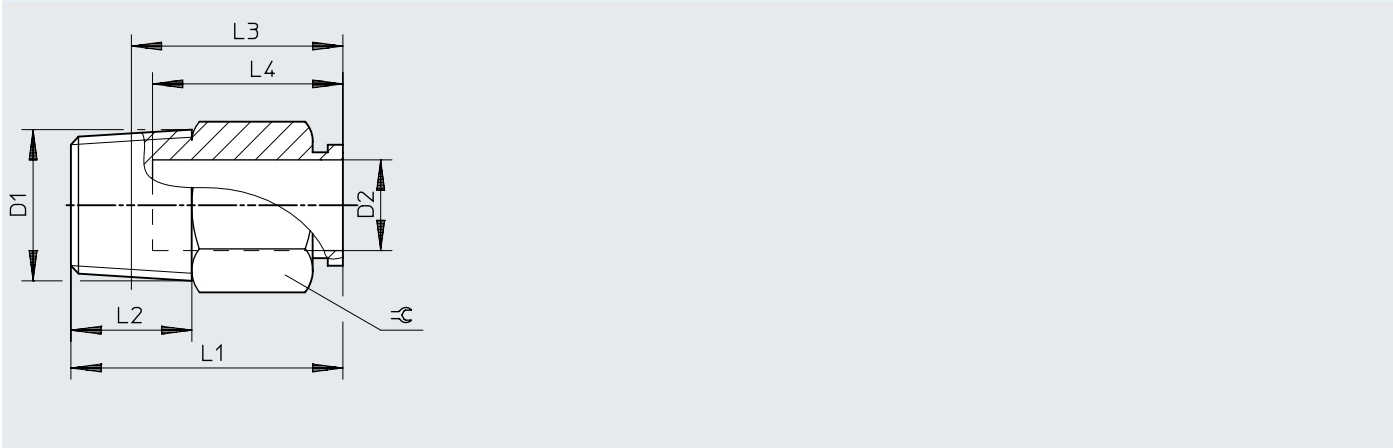
Download CAD data www.festo.com



	D1	D2	D5	L1	L2	L4	≡
QSM-M3-2	M3	2	4,8	12,1	2,5	8,4	5
QSM-M3-3		3	7	13,3	2,5	9,6	5,5
QSM-M3-3-100							
QSM-M3-4		4	9,8	15,7	2,5	11,5	8
QSM-M3-4-100	M5	2	4,8	11,8	3	8,4	7
QSM-M5-2		3	9,8	16,2	3	11,5	8
QSM-M5-3		4	9,8	16,2	3	11,5	8
QSM-M5-3-100		6	11,8	17,3	3	12	10
QSM-M5-4							
QSM-M5-4-100							
QSM-M5-6	M6	6	11,8	18	3,9	11,7	10
QSM-M5-6-100							
QSM-M6-6							

Dimensions

Dimensions – Push-in fitting QSM, R thread Download CAD data www.festo.com

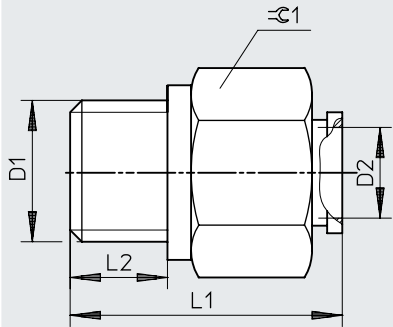


	D1	D2	L1	L2	L3	L4	≅
QSM-1/8-4	R1/8	4	16	8	12	11,5	10
QSM-1/8-4-100							
QSM-1/8-6		6	18	8	14	12	10
QSM-1/8-6-100							

Dimensions

Dimensions – Push-in fitting QSM, G thread with sealing ring

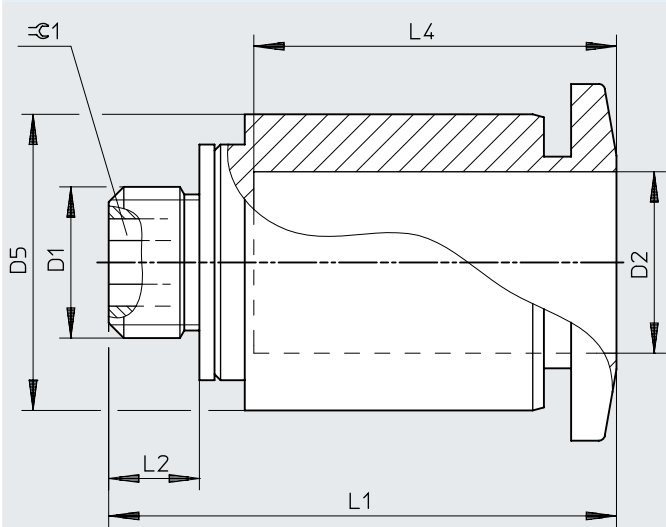
Download CAD data www.festo.com



	D1	D2	L1	L2	G
QSM-G1/8-4	G1/8	4	16,4	5,1	13
QSM-G1/8-6		6	18,4	5,1	13

Dimensions

Dimensions – Push-in fitting QSM-...-I, metric thread with sealing ring Download CAD data www.festo.com

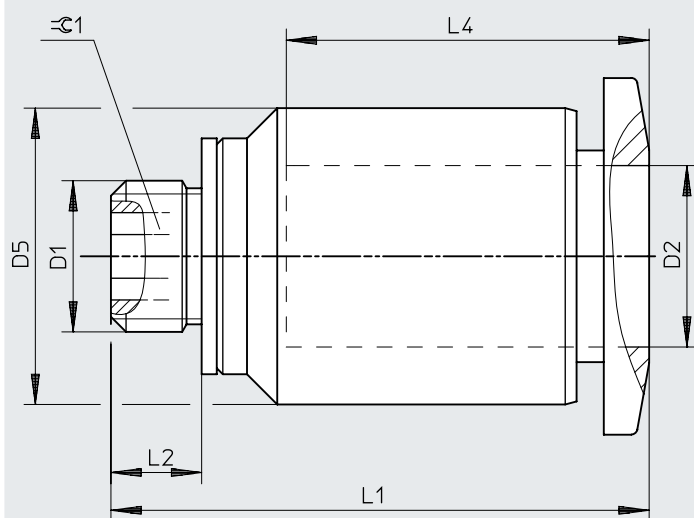


	D1	D2	D5 ø	L1	L2	L4	☞
QSM-M3-2-I	M3	2	5	12,1	2,5	8,4	1,3
QSM-M5-3-I	M5	3	8	16,2	3	11,5	2
QSM-M5-4-I	M5	4	8	16,2	3	11,5	2,5
QSM-M7-4-I	M7	4	9,8	18,9	5,5	11,5	3
QSM-M7-4-I-100							
QSM-M7-6-I	M7	6	9,8	20,9	5,5	12	4

Dimensions

Dimensions – Push-in fitting QSM-...-I, metric thread with sealing ring and chamfer

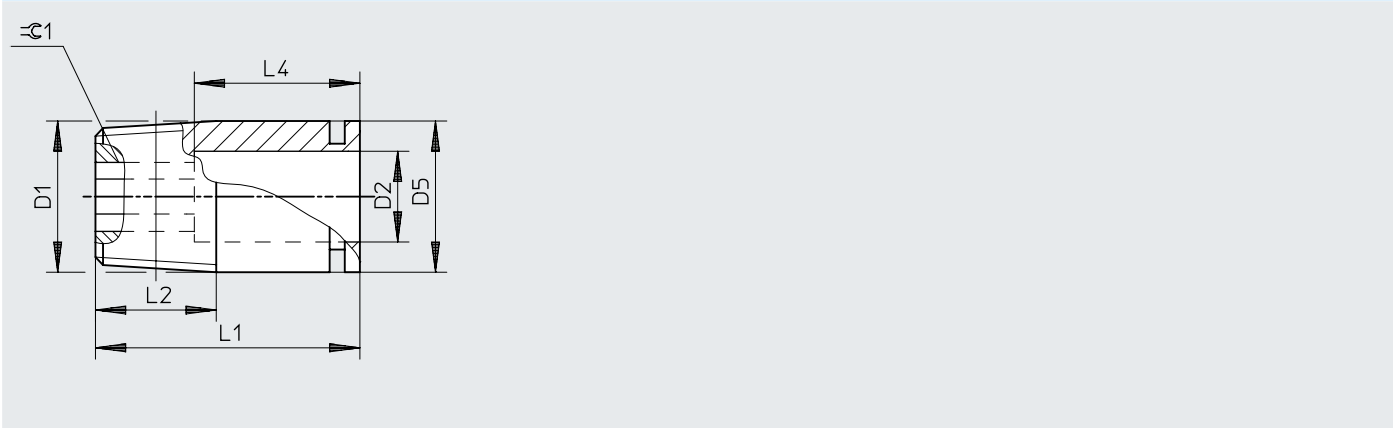
Download CAD data www.festo.com



	D1	D2	D5 ø	L1	L2	L4	≡C
QSM-M3-3-I	M3	3	8	15,7	2,5	11,5	1,5
QSM-M3-4-I	M3	4	8	15,7	2,5	11,5	1,5
QSM-M5-6-I	M5	6	9,8	17,8	3	12	2,5

Dimensions

Dimensions – Push-in fitting QSM-...-I, R thread Download CAD data www.festo.com

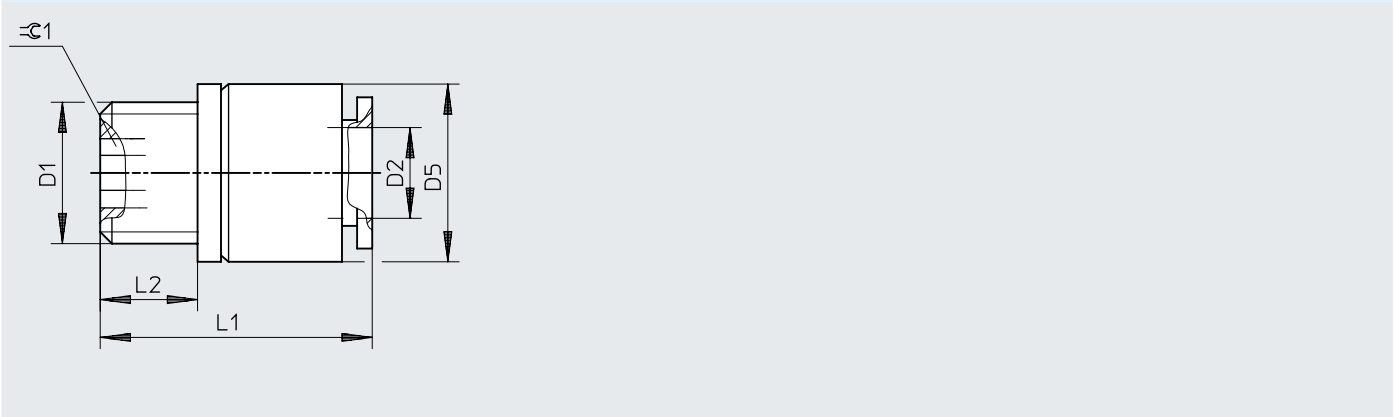


	D1	D2	D5 Ø	L1	L2	L3	L4	R
QSM-1/8-4-I	R1/8	4	10	16,4	8	12,4	11,5	3
QSM-1/8-6-I		6	10	18,2	8	14,2	12,5	4

Dimensions

Dimensions – Push-in fitting QSM-...-I, G thread with sealing ring

Download CAD data www.festo.com

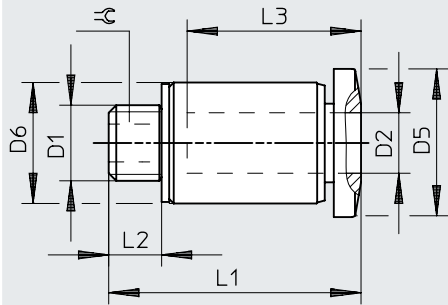


	D1	D2	D5 ø	L1	L2	G
QSM-G1/8-4-I	G1/8	4	13	16,4	5,1	3
QSM-G1/8-6-I		6	13	18,4	5,1	4

Dimensions

Dimensions – Push-in fitting QSM-...-I-R, metric thread with sealing ring, round releasing ring

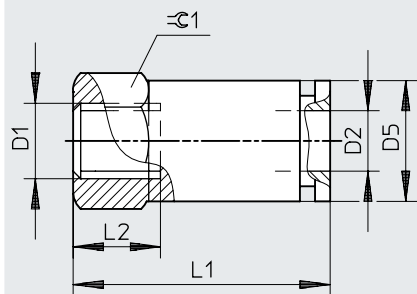
Download CAD data www.festo.com



	D1	D2	D5 ø	D6 ø	L1	L2	L3	☞
QSM-M3-3-I-R	M3	3	6	5,5	13,3	2,5	9,6	1,5
QSM-M3-3-I-R-100								
QSM-M3-4-I-R		4	7,8	8	15,7	2,5	11,5	1,5
QSM-M3-4-I-R-100								
QSM-M5-3-I-R	M5	3	7,8	8	16,2	3	11,5	2
QSM-M5-3-I-R-100								
QSM-M5-4-I-R		4	7,8	8	16,2	3	11,5	2,5
QSM-M5-4-I-R-100								
QSM-M5-6-I-R		6	9,8	9,8	17,8	3	12	2,5
QSM-M5-6-I-R-100								
QSM-M7-6-I-R	M7	6	9,8	9,8	20,9	5,5	12	4
QSM-M7-6-I-R-100								

Dimensions

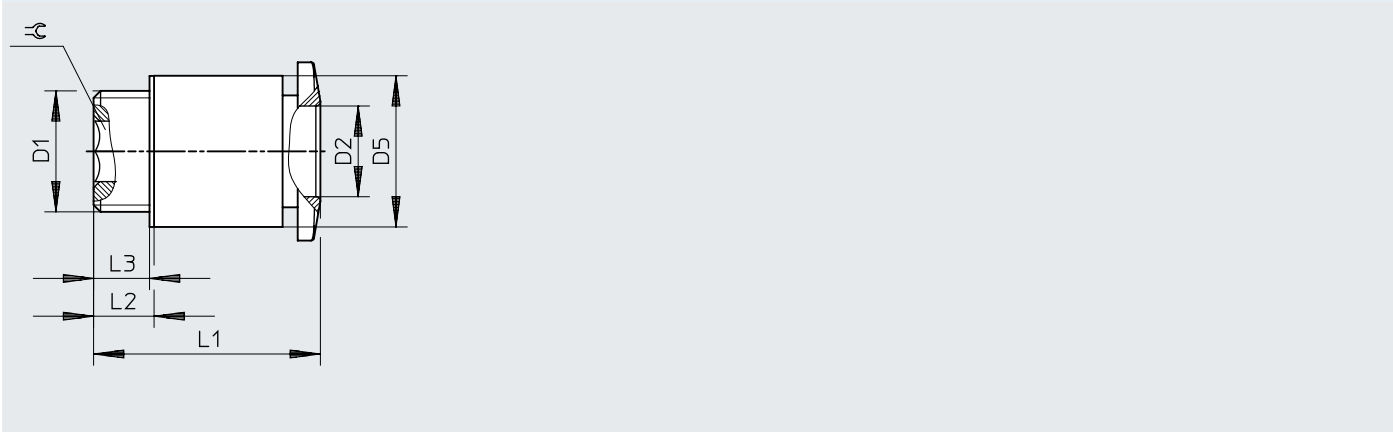
Dimensions – Push-in fitting QSMF

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	D1	D2	D5 Ø	L1	L2	±0.1
QSMF-M3-3	M3	3	5,5	13,9	4,4	5,5
QSMF-M3-4		4	8	16	4,5	8
QSMF-M5-3	M5	3	8	15,5	4,5	8
QSMF-M5-4		4	8	18,2	4,5	8

Dimensions

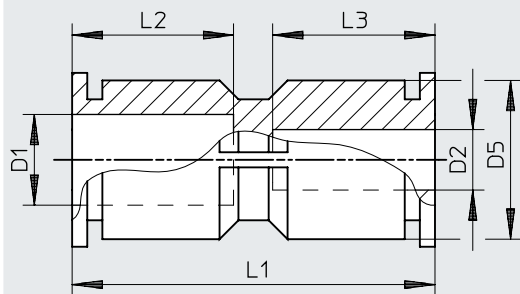
Dimensions – Push-in fitting QSMP [Download CAD data](#) www.festo.com



	D1	D2	D5 ø	L1	L2	L3	≡
QSMP-M6X0.75-4	M6x0,75	4	8	14,6	3,5	3	2,5
QSMP-M8X0.75-6	M8x0,75	6	10	15,1	4	3,4	4
QSMP-M8X1.25-6	M8x1,25	6	10	19,1	7	6,4	4

Dimensions

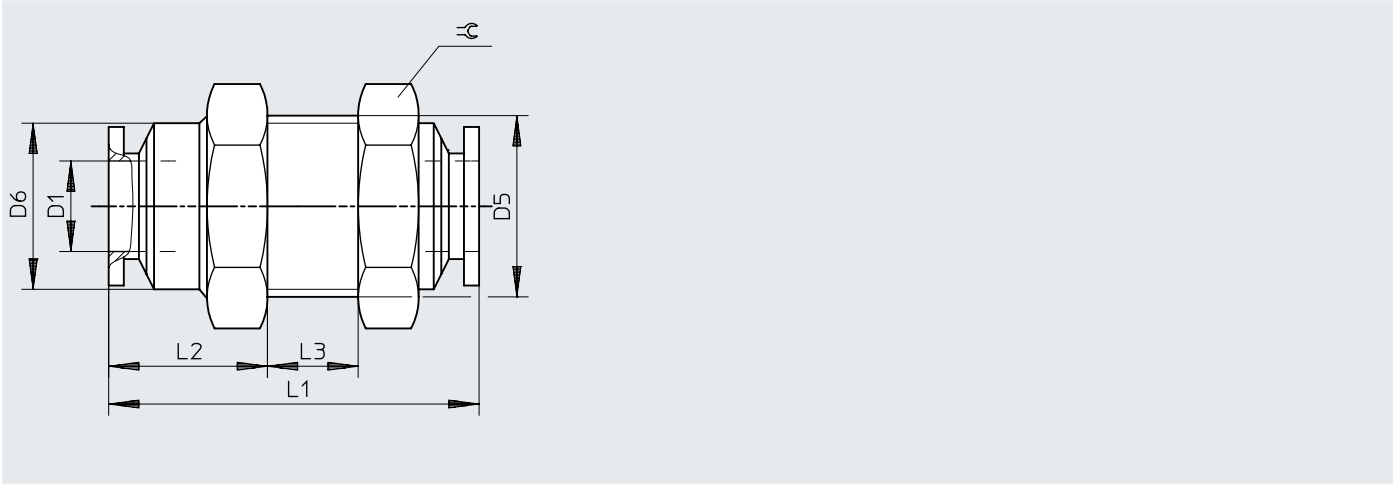
Dimensions – Push-in connector QSM

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	D1	D2	D5 Ø	L1	L2	L3
QSM-3	3	3	6	20	9,5	9,5
QSM-3-100						
QSM-4	4	4	8	23,5	11,5	11,5
QSM-4-100						
QSM-6	6	6	10,5	25	12	12
QSM-6-100						

Dimensions

Dimensions – Push-in bulkhead connector QSMS [Download CAD data](#) www.festo.com

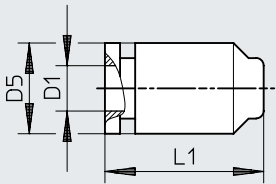


	D1	D5	D6 ø	L1	L2	L3 max.	≡
QSMS-3	3	M8x0,75	7	19,5	7	7,5	10
QSMS-4	4	M10x1	9	24	9,5	7,5	12
QSMS-4-100							
QSMS-6	6	M12x1	11	25	11	6	14
QSMS-6-100							

Dimensions

Dimensions – Push-in cap QSMC

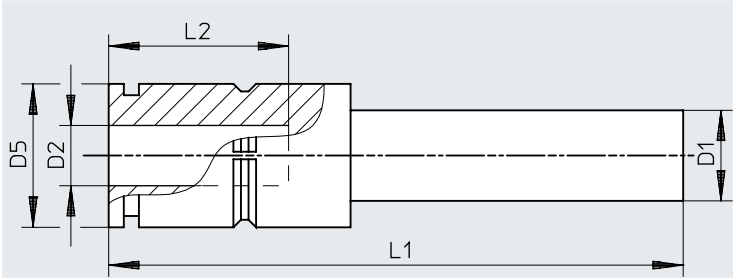
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	D1	D5 Ø	L1
QSMC-3	3	6	10,5

Dimensions

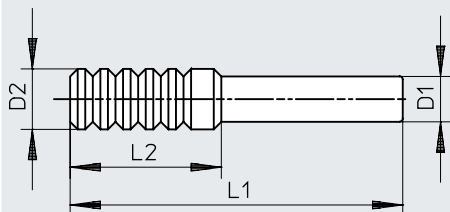
Dimensions – Push-in connector QSM-...H Download CAD data www.festo.com



	D1	D2	D5 Ø	L1	L2
QSM-3H-2	QS-3	2	6	26,3	8,4
QSM-4H-3	QS-4	3	6	27	9,5
QSM-4H-3-100					
QSM-6H-4	QS-6	4	9	32,6	11,6
QSM-6H-4-100					

Dimensions

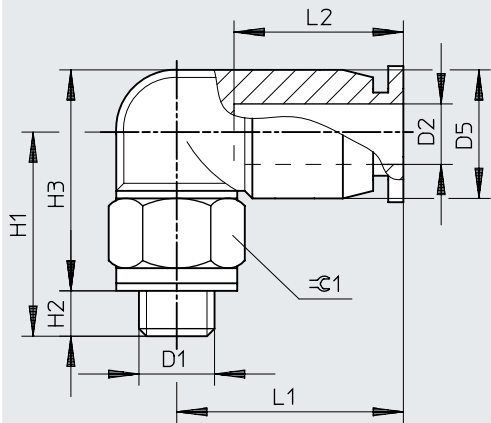
Dimensions – Blanking plug QSMC-...H

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	D1	D2 Ø	L1	L2
QSMC-2H	QS-2	3	20	10,2
QSMC-3H	QS-3	4	22	10,2

Dimensions

Dimensions – Push-in L-fitting QSML, metric thread with sealing ring www.festo.com

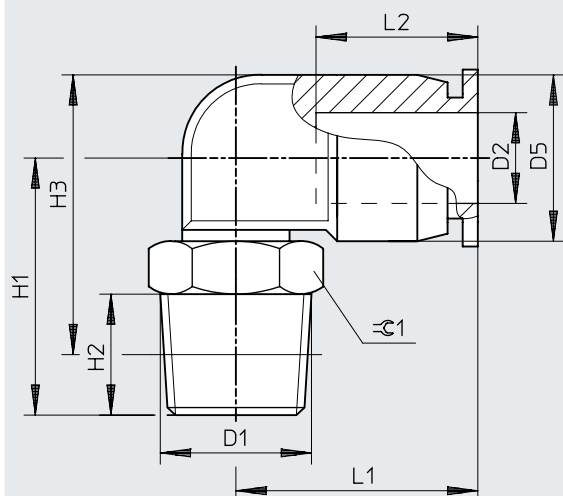


	D1	D2	D5 ø	H1	H2	H3	L1	L2	☞
QSML-M3-2	M3	2	6	12	2,5	12,5	10,3	8,4	5,5
QSML-M3-3		3	6	12	2,5	12,5	11	9,5	5,5
QSML-M3-3-100									
QSML-M3-4		4	8	14	2,5	15,5	15,7	11,6	8
QSML-M3-4-100									
QSML-M5-2	M5	2	6	13,5	3	13,5	10,3	8,4	8
QSML-M5-3		3	6	13,5	3	13,5	11	9,5	8
QSML-M5-3-100									
QSML-M5-4		4	8	13,5	3	14,5	15,7	11,6	8
QSML-M5-4-100									
QSML-M5-6	M7	6	10,5	14,5	3	16,8	16,3	11,9	8
QSML-M5-6-100									
QSML-M7-4		4	8	17	5,5	15,5	15,7	11,6	10
QSML-M7-4-100									
QSML-M7-6		6	10,5	19	5,5	18,8	16,3	11,9	10
QSML-M7-6-100									

Dimensions

Dimensions – Push-in L-fitting QSML, R thread

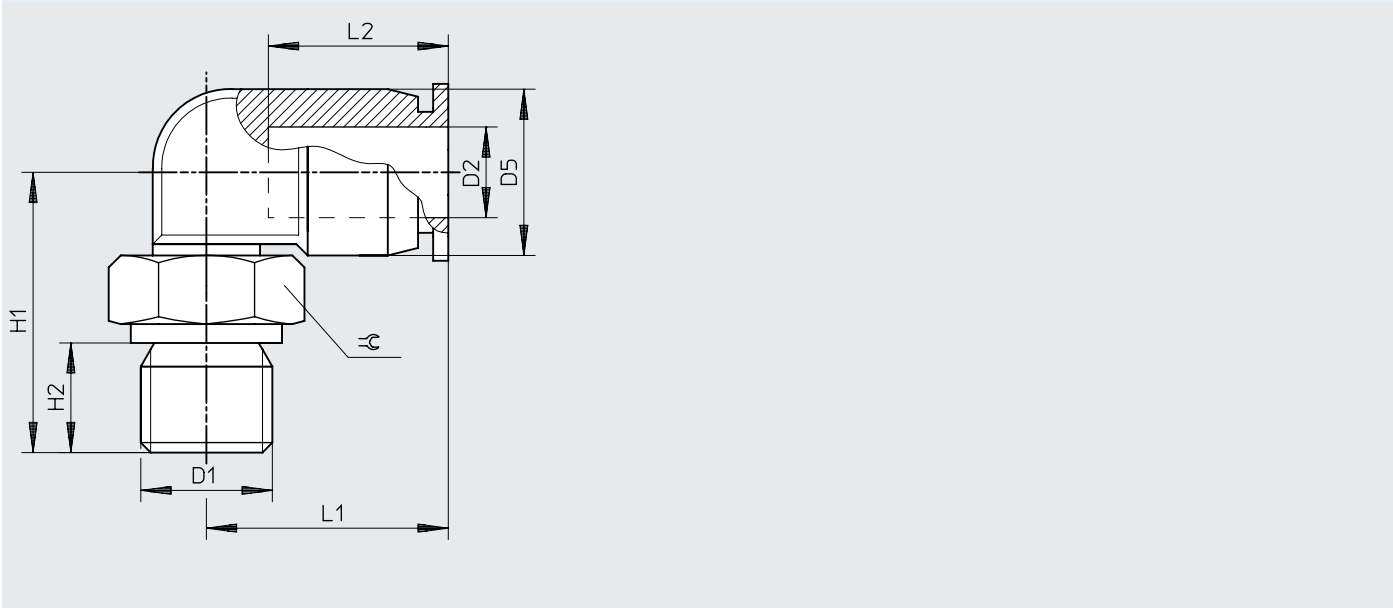
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	D1	D2	D5 ø	H1	H2	H3	L1	L2	≡
QSML-1/8-4	R1/8	4	8,5	16	8	16,3	16	11,5	10
QSML-1/8-4-100									
QSML-1/8-6		6	11	17	8	18,5	16,5	12	10
QSML-1/8-6-100									

Dimensions

Dimensions – Push-in L-fitting QSML, G thread with sealing ring [Download CAD data](http://www.festo.com) www.festo.com

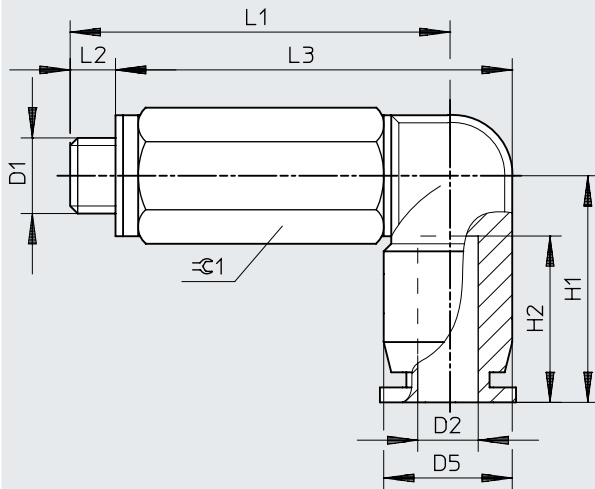


	D1	D2	D5 Ø	H1	H2	L1	⌀
QSML-G1/8-4	G1/8	4	8	16,5	5,1	15,7	13
QSML-G1/8-4-100							
QSML-G1/8-6							
		6	10,5	17,5	5,1	16,3	13

Dimensions

Dimensions – Push-in L-fitting, long QSMLL, metric thread with sealing ring

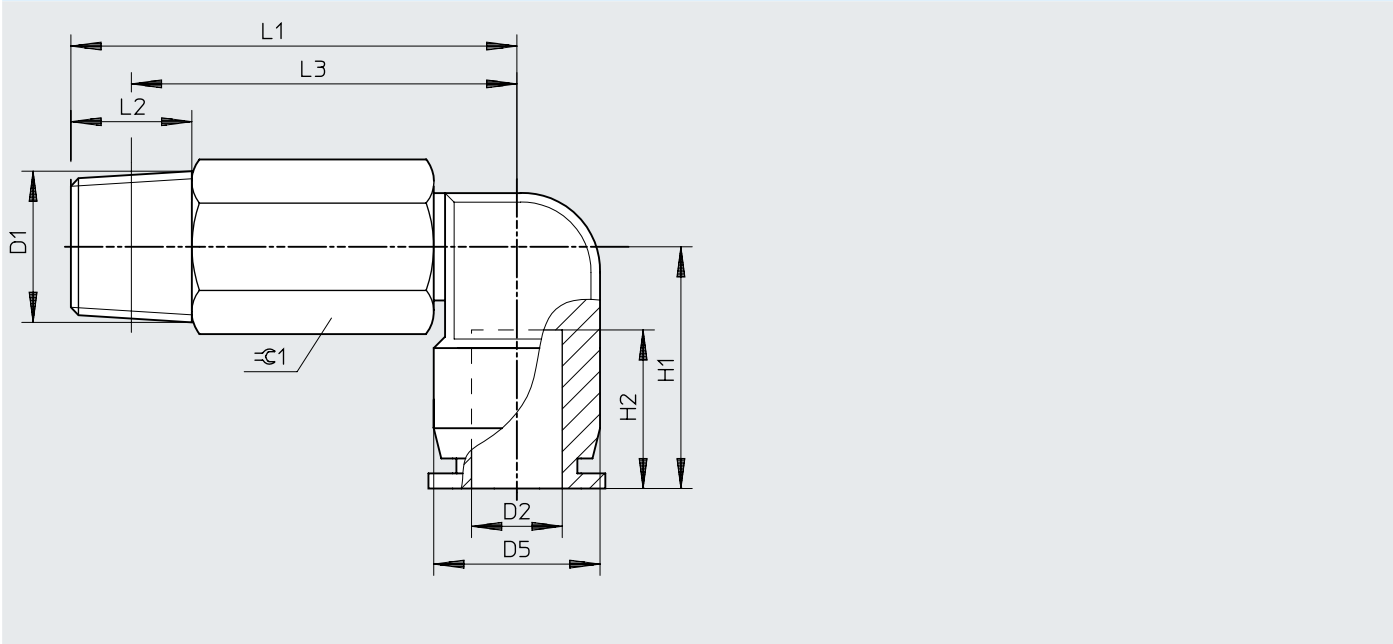
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	D1	D2	D5 Ø	H1	H2	L1	L2	L3	R1
QSMLL-M3-2	M3	2	6	10,3	8,4	19	2,5	19,5	5,5
QSMLL-M3-3		3	6	11	9,5	19	2,5	19,5	5,5
QSMLL-M3-3-100									
QSMLL-M3-4		4	8	15,7	11,6	23	2,5	24,5	8
QSMLL-M5-2	M5	2	6	10,3	8,4	25	3	25	8
QSMLL-M5-3		3	6	11	9,5	25	3	25	8
QSMLL-M5-3-100									
QSMLL-M5-4		4	8	15,7	11,6	25	3	26	8
QSMLL-M5-4-100									
QSMLL-M5-6		6	10,5	16,3	11,9	26	3	28,3	8
QSMLL-M7-4	M7	4	8	15,7	11,6	29,5	5,5	28	10
QSMLL-M7-4-100									
QSMLL-M7-6		6	10,5	16,3	11,9	31,5	5,5	31,3	10

Dimensions

Dimensions – Push-in L-fitting, long QSMLL, R thread Download CAD data www.festo.com

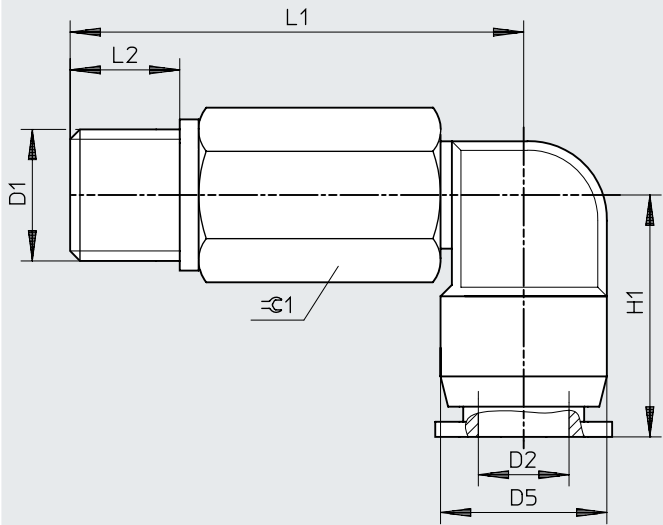


	D1	D2	D5 ø	H1	H2	L1	L2	L3	R
QSMLL-1/8-4	R1/8	4	8,5	15,5	11,5	28,5	8	22	10
QSMLL-1/8-6		6	11	16,5	12	29,5	8	25,5	10

Dimensions

Dimensions – Push-in L-fitting, long QSMLL, G thread with sealing ring

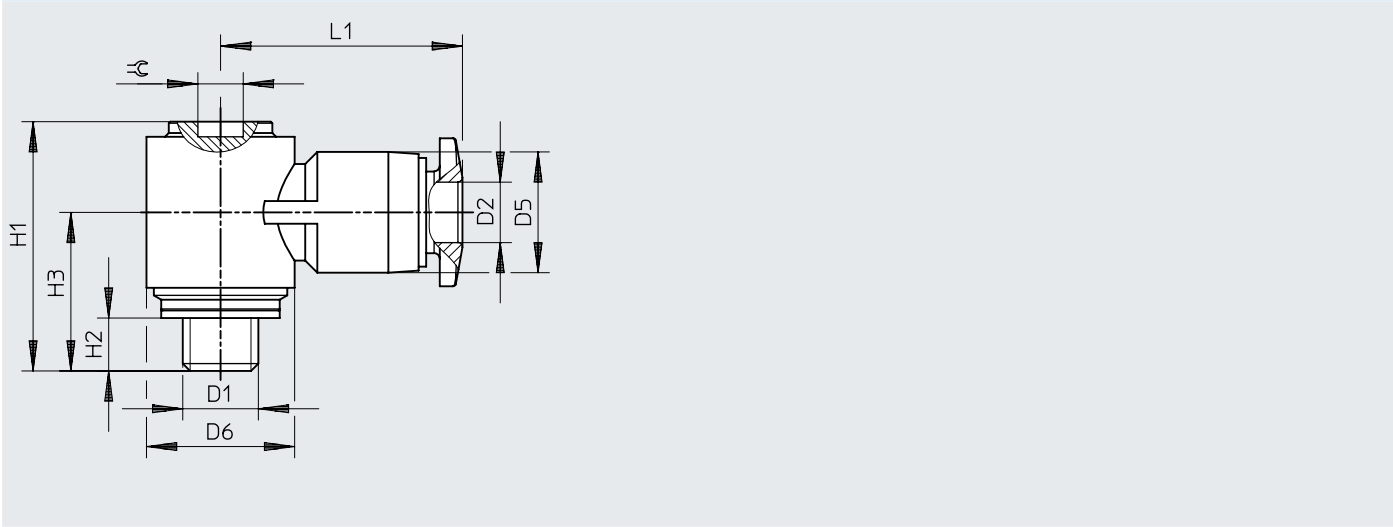
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	D1	D2	D5 Ø	H1	L1	L2	G
QSMLL-G1/8-4	G1/8	4	8	15,7	29	5,1	13
QSMLL-G1/8-6		6	10,5	16,3	30	5,1	13

Dimensions

Dimensions – Push-in L-fitting QSMLV-...-I Download CAD data www.festo.com

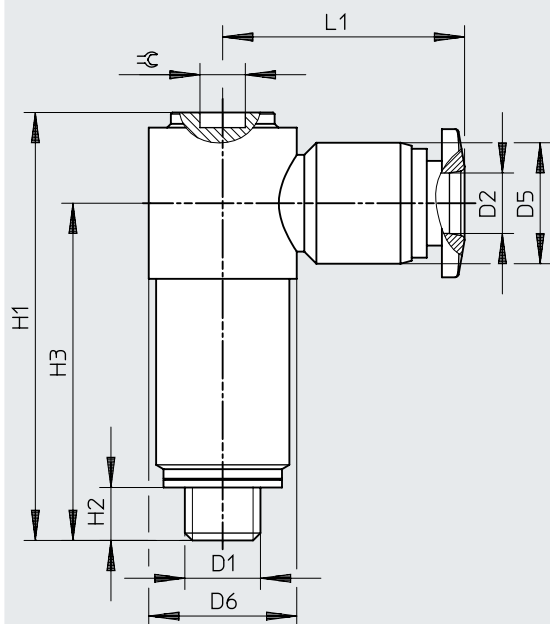


	D1	D2	D5 ø	D6 ø	H1	H2	H3	L1	90°
QSMLV-M5-3-I	M5	3	8	9,8	16,5	3,5	10,5	16	3
QSMLV-M5-4-I		4	8	9,8	16,5	3,5	10,5	16	3
QSMLV-M7-4-I	M7	4	8	9,8	18,5	5,5	13,2	16	3
QSMLV-M7-6-I		6	10,5	9,8	18,5	5,5	12,5	17,8	3

Dimensions

Dimensions – Push-in L-fitting, long QSMLLV-...-I

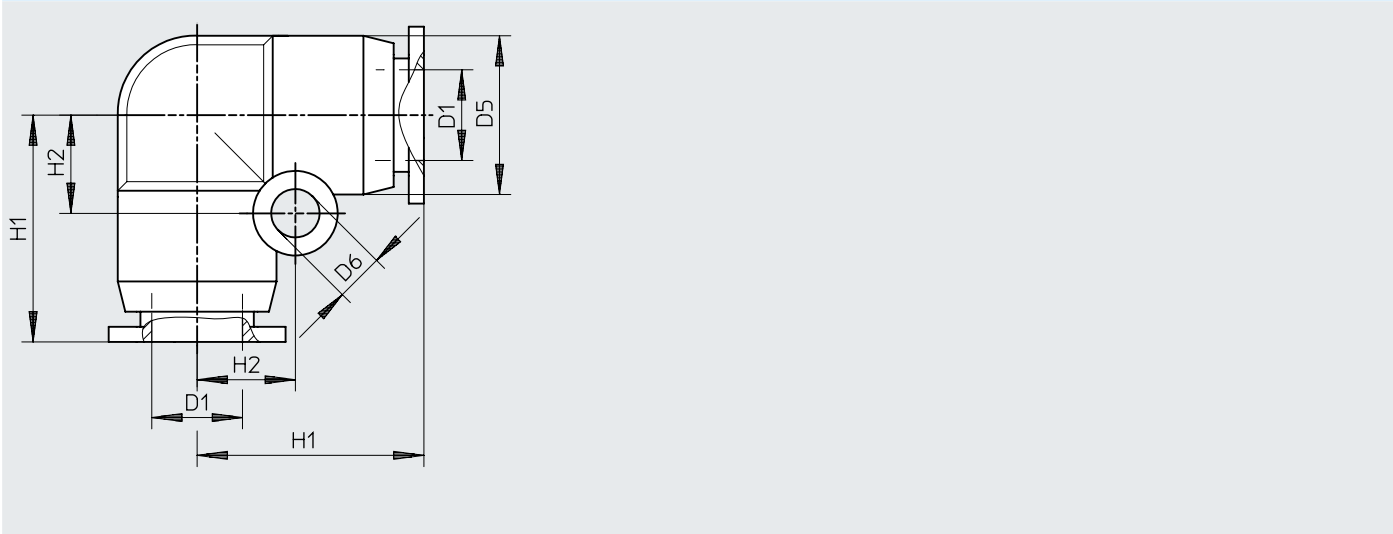
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	D1	D2	D5 ø	D6 ø	H1	H2	H3	L1	±G
QSMLLV-M5-3-I	M5	3	8	9,8	28,3	3,5	23	16	3
QSMLLV-M5-4-I		4	8	9,8	28,3	3,5	23	16	3
QSMLLV-M7-4-I	M7	4	8	9,8	30,3	5,5	25	16	3
QSMLLV-M7-6-I		6	10,5	9,8	30,3	5,5	24,3	17,8	3

Dimensions

Dimensions – Push-in L-connector QSML [Download CAD data](#) www.festo.com

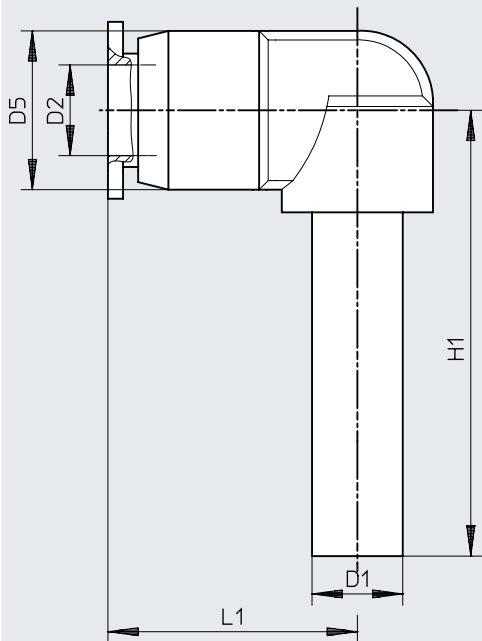


	D1	D5 ø	D6 ø	H1	H2
QSML-3	3	6	3,2	11	4,5
QSML-4	4	8	3,2	13,5	5,5
QSML-4-100					
QSML-6	6	10,5	3,2	15,5	6,5
QSML-6-100					

Dimensions

Dimensions – Push-in L-connector QSML-...H

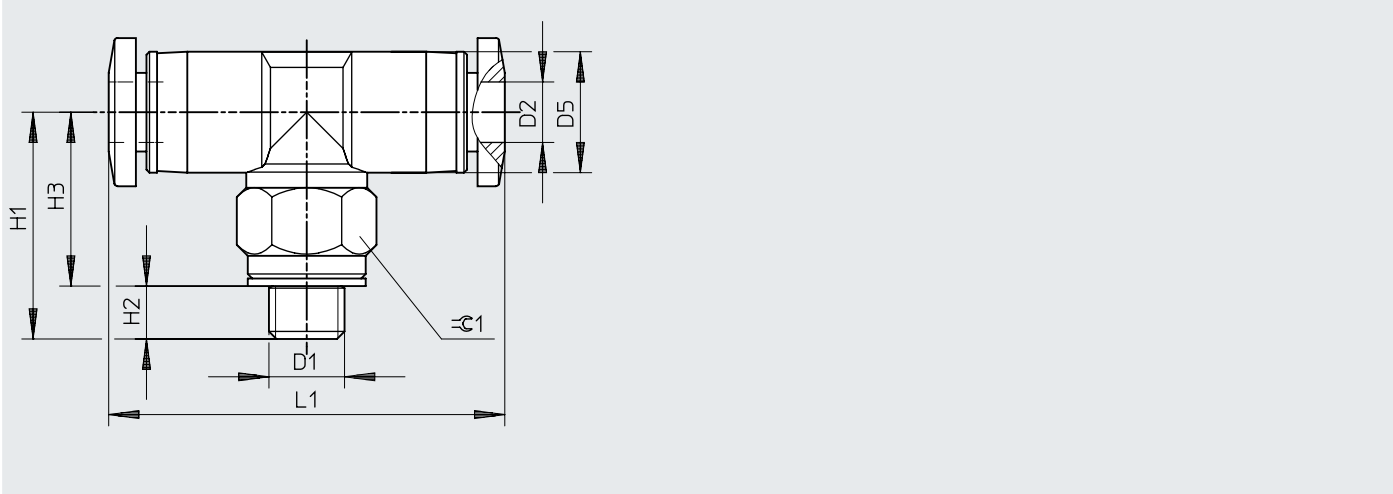
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	D1	D2	D5 Ø	H1	L1
QSML-3H	QS-3	3	9	24	14,7
QSML-4H	QS-4	4	9	25	14,7
QSML-6H	QS-6	6	10,5	26,5	17,3
QSML-4H-3	QS-4	3	9	25	14,7
QSML-6H-4	QS-6	4	9	26	14,7

Dimensions

Dimensions – Push-in T-fitting QSMT, metric thread with sealing ring www.festo.com

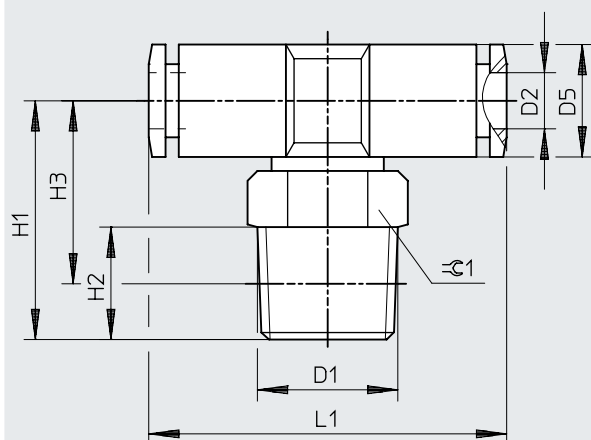


	D1	D2	D5 ø	H1	H2	H3	L1	☞
QSMT-M3-3	M3	3	6	12,8	3,3	9,5	22	5,5
QSMT-M3-4		4	8	15,8	3,3	12,5	26,2	8
QSMT-M5-3	M5	3	6	14	3,5	10,5	22	8
QSMT-M5-4		4	8	15	3,5	11,5	26,2	8
QSMT-M5-4-100								
QSMT-M5-6		6	10,5	16	3,5	12,5	28,4	8
QSMT-M5-6-100								

Dimensions

Dimensions – Push-in T-fitting QSMT, R thread

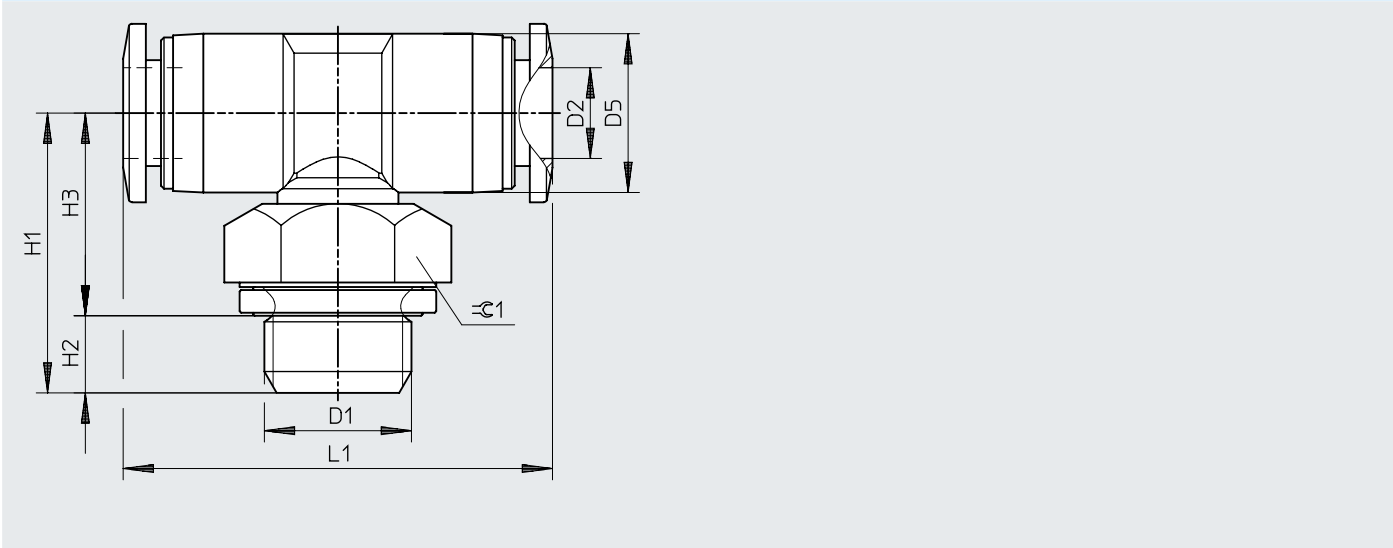
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	D1	D2	D5 ø	H1	H2	H3	L1	⌀
QSMT-1/8-4	R1/8	4	8,5	17	8	13	27	10
QSMT-1/8-6		6	11	18	8	14	30	10

Dimensions

Dimensions – Push-in T-fitting QSMT, G thread with sealing ring [Download CAD data](http://www.festo.com) www.festo.com

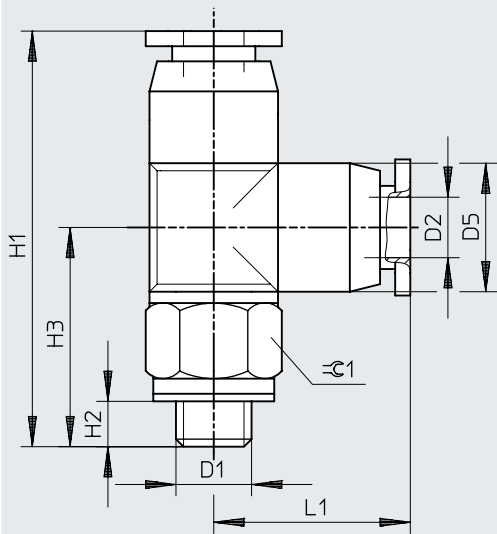


	D1	D2	D5 ø	H1	H2	H3	L1	≡G
QSMT-G1/8-4	G1/8	4	8	17,5	5,1	12,4	26,2	13
QSMT-G1/8-6		6	10,5	18,5	5,1	13,4	28,4	13

Dimensions

Dimensions – Push-in T-fitting QSMTL, metric thread with sealing ring

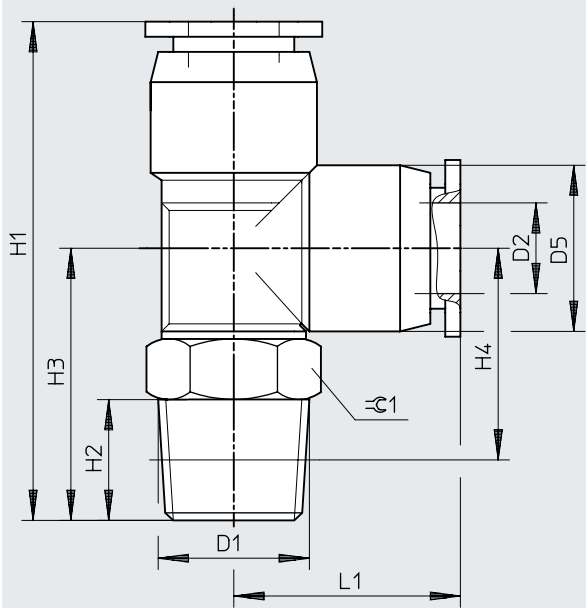
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	D1	D2	D5 Ø	H1	H2	H3	L1	R1/8
QSMTL-1/8-4	R1/8	4	8	17	13	13	10	10
QSMTL-1/8-6		6	8	18	14	15	10	10

Dimensions

Dimensions – Push-in T-fitting QSMTL, R thread Download CAD data www.festo.com

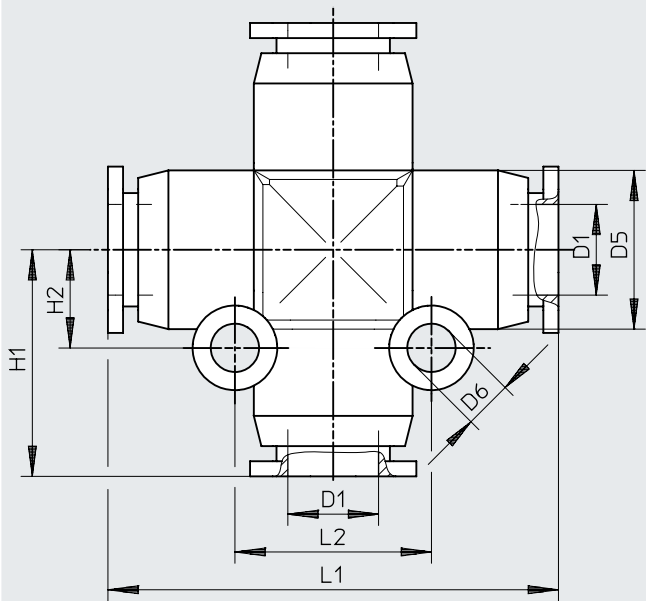


	D1	D2	D5 ø	H1	H2	H3	H4	L1	≙
QSMTL-1/8-4	R1/8	4	8,5	30	8	17	13	13	10
QSMTL-1/8-6		6	10,5	33	8	18	14	15	10

Dimensions

Dimensions – Push-in T-fitting QSMTL, G thread with sealing ring

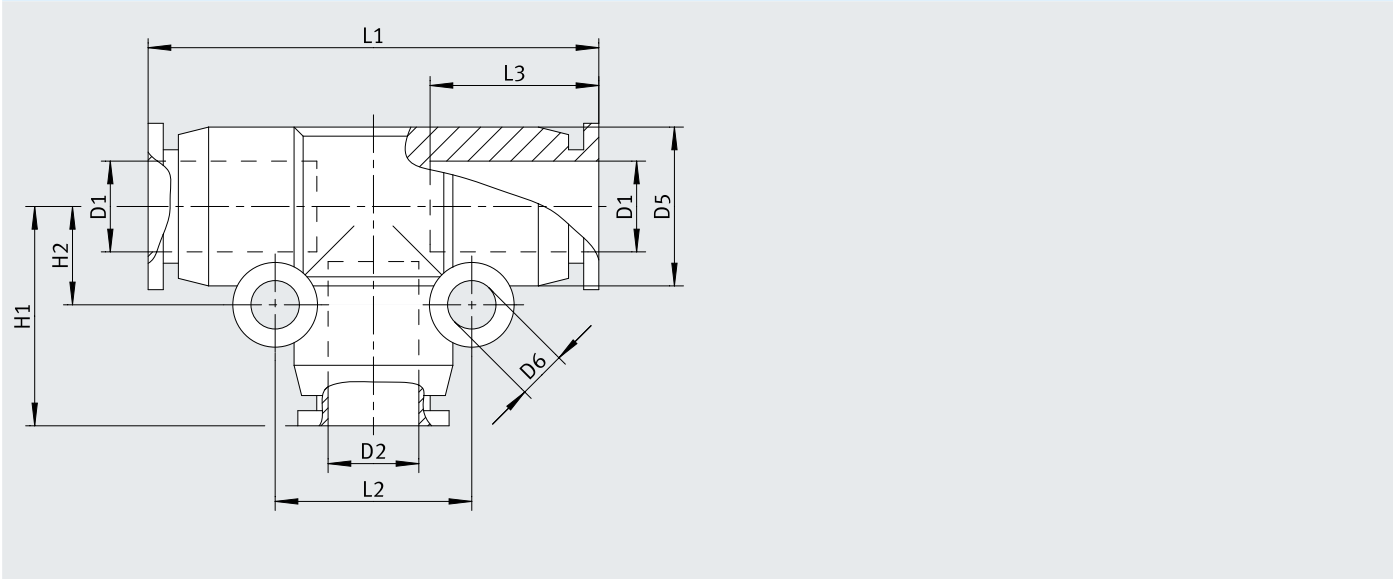
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	D1	D5 ø	D6 ø	H1	H2	L1	L2
QSMX-3	3	8	3,2	13,5	5,5	27	11
QSMX-4	4	8	3,2	13,5	5,5	27	11
QSMX-6	6	10,5	3,2	15,5	6,5	31	13

Dimensions

Dimensions – Push-in T-connector QSMT [Download CAD data](#) www.festo.com

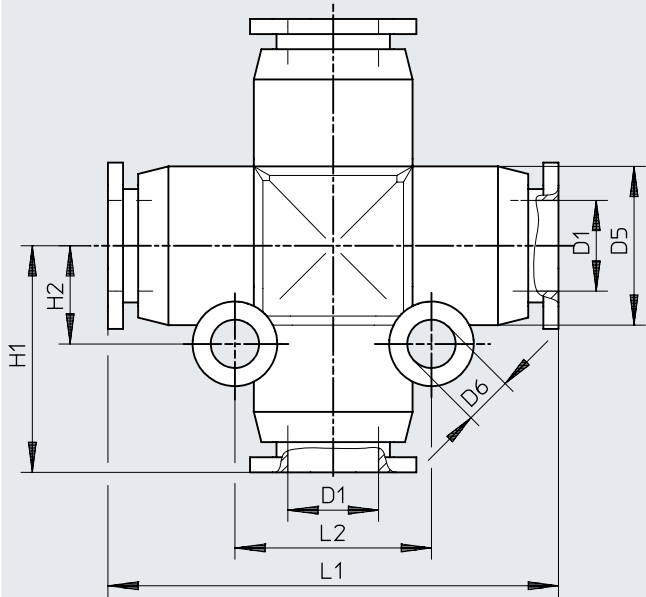


	D1	D2	D5 ø	D6 ø	H1	H2	L1	L2	L3
QSMT-2	2	2	6	3,2	10,3	4,5	20,5	9	8,4
QSMT-3	3	3	6	3,2	11	4,5	22	9	9,5
QSMT-4	4	4	8	3,2	13,7	5,6	27,3	11,2	11,6
QSMT-4-100									
QSMT-6	6	6	10,5	3,2	15,3	6,6	30,5	13,2	11,9
QSMT-6-100									
QSMT-4-3	4	3	8	3,2	13	5,5	27	11,2	11,5
QSMT-6-4	6	4	10,5	3,2	15	6,5	30	13,2	12

Dimensions

Dimensions – Push-in X-connector QSMX

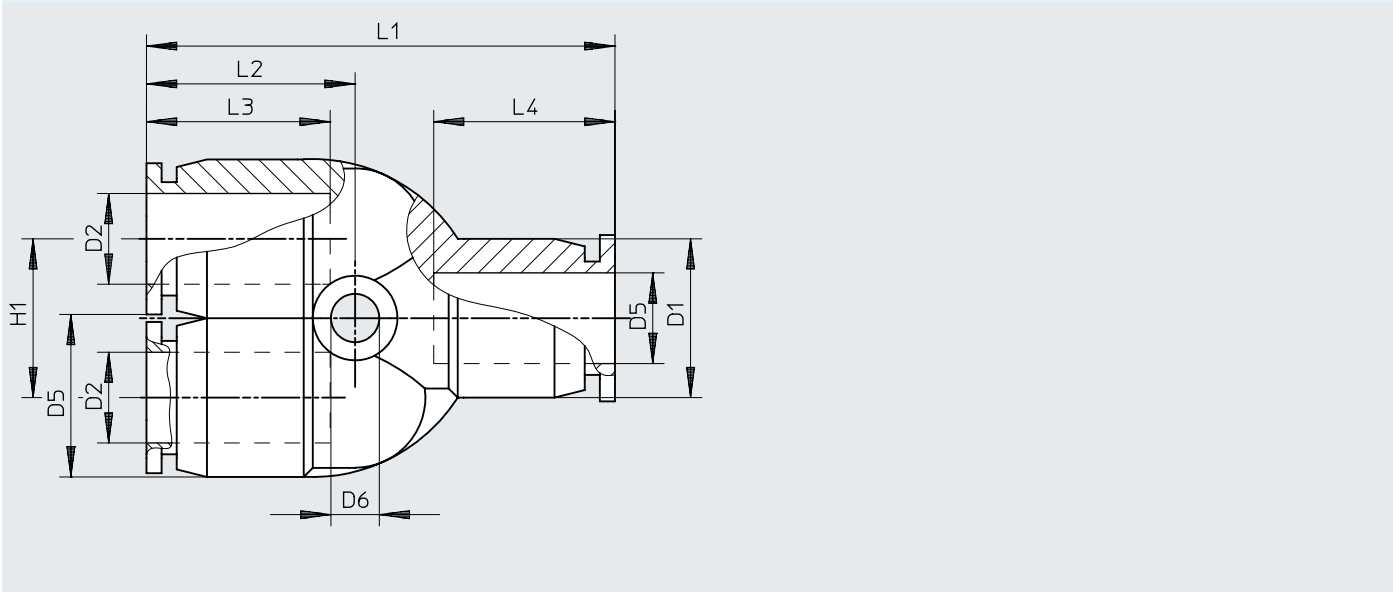
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	D1	D5 Ø	D6 Ø	H1	H2	L1	L2
QSMX-3	3	8	3,2	13,5	5,5	27	11
QSMX-4	4	8	3,2	13,5	5,5	27	11
QSMX-6	6	10,5	3,2	15,5	6,5	31	13

Dimensions

Dimensions – Push-in Y-connector QSMY Download CAD data www.festo.com



	D1	D2	D5 ø	D6 ø	H1	L1	L2	L3	L4
QSMY-2	2	2	6	3,2	6,5	19,5	11,8	8,4	8,4
QSMY-3	3	3	8	3,2	8	28,8	13,2	11,6	11,6
QSMY-4	4	4	8	3,2	8	28,8	13,2	11,6	11,6
QSMY-4-100									
QSMY-6	6	6	10,5	3,2	10,5	31,6	14,3	11,9	11,9
QSMY-6-100									
QSMY-4-3	4	3	8	3,2	8	28,8	13,2	11,6	11,6
QSMY-6-4	6	4	10,5	3,2	10,5	31,5	14,2	11,6	11,9

Ordering data

Push-in fitting QSM, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M3	For tubing outside diameter of 2 mm	10	1 g	133027	QSM-M3-2
		For tubing outer diameter of 3 mm	100	1.1 g	153301	QSM-M3-3
					130775	QSM-M3-3-100
		For tubing outside diameter of 4 mm	100	2.4 g	153303	QSM-M3-4
					130776	QSM-M3-4-100
	Male thread M5	For tubing outside diameter of 2 mm	10	2.2 g	133028	QSM-M5-2
		For tubing outer diameter of 3 mm	100	3.4 g	153302	QSM-M5-3
					130777	QSM-M5-3-100
		For tubing outside diameter of 4 mm	100	3.2 g	153304	QSM-M5-4
					130778	QSM-M5-4-100
		For tubing outside diameter of 6 mm	100	4.5 g	153306	QSM-M5-6
					130779	QSM-M5-6-100
	Male thread M6	6 mm	10	4.8 g	132600	QSM-M6-6

Push-in fitting QSM, R thread						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread R1/8	For tubing outside diameter of 4 mm	10	6 g	153305	QSM-1/8-4
			100		130755	QSM-1/8-4-100
		For tubing outside diameter of 6 mm	10		153307	QSM-1/8-6
			100		130756	QSM-1/8-6-100

Push-in fitting QSM, G thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread G1/8	For tubing outside diameter of 4 mm	10	9.4 g	186264	QSM-G1/8-4
		For tubing outside diameter of 6 mm		11 g	186265	QSM-G1/8-6

Push-in fitting QSM-...-I, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M3	For tubing outside diameter of 2 mm	10	0.8 g	133026	QSM-M3-2-I
		For tubing outer diameter of 3 mm		2.3 g	153312	QSM-M3-3-I
		For tubing outside diameter of 4 mm		2.2 g	153314	QSM-M3-4-I
	Male thread M5	For tubing outer diameter of 3 mm		3.2 g	153313	QSM-M5-3-I

Ordering data

Push-in fitting QSM-...-I, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M5	For tubing outside diameter of 4 mm	10	3 g	153315	QSM-M5-4-I
		For tubing outside diameter of 6 mm		4.4 g	153317	QSM-M5-6-I
	Male thread M7	For tubing outside diameter of 4 mm	100	6 g	153319	QSM-M7-4-I
		For tubing outside diameter of 6 mm			133006	QSM-M7-4-I-100
		For tubing outside diameter of 6 mm	10	6.4 g	153321	QSM-M7-6-I

Push-in fitting QSM-...-I, R thread						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread R1/8	For tubing outside diameter of 4 mm	10	6.2 g	153316	QSM-1/8-4-I
		For tubing outside diameter of 6 mm		5.6 g	153318	QSM-1/8-6-I

Push-in fitting QSM-...-I, G thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread G1/8	For tubing outside diameter of 4 mm	10	8.9 g	186266	QSM-G1/8-4-I
		For tubing outside diameter of 6 mm		9.5 g	186267	QSM-G1/8-6-I

Push-in fitting QSM-...-I-R, metric thread with sealing ring, round releasing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M3	For tubing outer diameter of 3 mm	10	2.3 g	133001	QSM-M3-3-I-R
			100		132914	QSM-M3-3-I-R-100
		For tubing outside diameter of 4 mm	10	2.2 g	133002	QSM-M3-4-I-R
			100		132915	QSM-M3-4-I-R-100
	Male thread M5	For tubing outer diameter of 3 mm	10	3.2 g	133003	QSM-M5-3-I-R
			100		132916	QSM-M5-3-I-R-100
		For tubing outside diameter of 4 mm	10	3 g	133004	QSM-M5-4-I-R
			100		132917	QSM-M5-4-I-R-100
		For tubing outside diameter of 6 mm	10	4.4 g	133005	QSM-M5-6-I-R
			100		132918	QSM-M5-6-I-R-100
	Male thread M7	For tubing outside diameter of 6 mm	10	6.4 g	133007	QSM-M7-6-I-R
			100		132919	QSM-M7-6-I-R-100

Ordering data

Push-in fitting QSMF, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Female thread M3	For tubing outer diameter of 3 mm	10	1.6 g	153308	QSMF-M3-3
		For tubing outside diameter of 4 mm		4.1 g	153310	QSMF-M3-4
	Female thread M5	For tubing outer diameter of 3 mm		4.3 g	153309	QSMF-M5-3
		For tubing outside diameter of 4 mm		4.5 g	153311	QSMF-M5-4

Push-in fitting QSMP, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M6x0.75	For tubing outside diameter of 4 mm	10	2.7 g	153320	QSMP-M6X0.75-4
	Male thread M8x0.75	For tubing outside diameter of 6 mm		3.7 g	153322	QSMP-M8X0.75-6
	Male thread M8x1.25			4.7 g	154434	QSMP-M8X1.25-6

Push-in connector QSM						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	For tubing outside diameter of 3 mm	For tubing outer diameter of 3 mm	10	1.5 g	153323	QSM-3
			100		130757	QSM-3-100
	For tubing outer diameter of 4 mm	For tubing outside diameter of 4 mm	10	2 g	153324	QSM-4
			100		130758	QSM-4-100
	For tubing outside diameter of 6 mm	For tubing outside diameter of 6 mm	10	4 g	153325	QSM-6
			100		130759	QSM-6-100

Push-in connector QSM, reducing						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	For tubing outside diameter of 3 mm	For tubing outside diameter of 2 mm	10	1 g	133029	QSM-3-2
				2.1 g	153326	QSM-4-3
	For tubing outer diameter of 4 mm	For tubing outer diameter of 3 mm	100		130760	QSM-4-3-100
	For tubing outside diameter of 6 mm	For tubing outside diameter of 4 mm	10	3 g	153327	QSM-6-4
			100		130761	QSM-6-4-100

Push-in bulkhead connector QSMS						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	For tubing outside diameter of 3 mm	For tubing outer diameter of 3 mm	10	3 g	153375	QSMS-3

Ordering data

Push-in bulkhead connector QSMS						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	For tubing outer diameter of 4 mm	For tubing outside diameter of 4 mm	10	6 g	153376	QSMS-4
			100		130780	QSMS-4-100
	For tubing outside diameter of 6 mm	For tubing outside diameter of 6 mm	10	9 g	153377	QSMS-6
			100		130781	QSMS-6-100

Push-in cap QSMC					
	Pneumatic connection, port 1	Size of pack	Product weight	Part no.	Type
	For tubing outside diameter of 3 mm	10	0.5 g	153381	QSMC-3

Push-in connector QSM-...H						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Push-in sleeve Ø 3 mm	For tubing outside diameter of 2 mm	10	0.6 g	133035	QSM-3H-2
	Push-in sleeve Ø 4 mm	For tubing outer diameter of 3 mm	100	0.8 g	153328	QSM-4H-3
					130762	QSM-4H-3-100
	Push-in sleeve Ø 6 mm	For tubing outside diameter of 4 mm	100	2.4 g	153329	QSM-6H-4
					130763	QSM-6H-4-100

Blanking plug QSMC-...H					
	Pneumatic connection, port 1	Size of pack	Product weight	Part no.	Type
	Push-in sleeve Ø 2 mm	10	0.1 g	133036	QSMC-2H
	Push-in sleeve Ø 3 mm		0.2 g	153382	QSMC-3H

Push-in L-fitting QSML, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M3	For tubing outside diameter of 2 mm	10	1.4 g	133030	QSML-M3-2
		For tubing outer diameter of 3 mm	100		153330	QSML-M3-3
					130768	QSML-M3-3-100
		For tubing outside diameter of 4 mm	10	3 g	153332	QSML-M3-4
			100		130769	QSML-M3-4-100
		Male thread M5	For tubing outside diameter of 2 mm	10	2.7 g	133031
For tubing outer diameter of 3 mm	2.8 g		153331		QSML-M5-3	

Ordering data

Push-in L-fitting QSML, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M5	For tubing outer diameter of 3 mm	100	2.8 g	130770	QSML-M5-3-100
		For tubing outside diameter of 4 mm	10	3.4 g	153333	QSML-M5-4
			100		130771	QSML-M5-4-100
		For tubing outside diameter of 6 mm	10	4.1 g	153335	QSML-M5-6
			100		130772	QSML-M5-6-100
	Male thread M7	For tubing outside diameter of 4 mm	10	5.6 g	186352	QSML-M7-4
			100		130773	QSML-M7-4-100
		For tubing outside diameter of 6 mm	10	6.2 g	186353	QSML-M7-6
			100		130774	QSML-M7-6-100

Push-in L-fitting QSML, R thread						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread R1/8	For tubing outside diameter of 4 mm	10	6 g	153334	QSML-1/8-4
			100		130764	QSML-1/8-4-100
		For tubing outside diameter of 6 mm	10	7 g	153336	QSML-1/8-6
			100		130765	QSML-1/8-6-100

Push-in L-fitting QSML, G thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread G1/8	For tubing outside diameter of 4 mm	10	9 g	186268	QSML-G1/8-4
			100		132897	QSML-G1/8-4-100
		For tubing outside diameter of 6 mm	10	9.7 g	186269	QSML-G1/8-6

Push-in L-fitting, long QSMLL, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M3	For tubing outside diameter of 2 mm	10	2.7 g	133032	QSMLL-M3-2
		For tubing outer diameter of 3 mm	100	2.8 g	153337	QSMLL-M3-3
					133011	QSMLL-M3-3-100
		For tubing outside diameter of 4 mm	10	6.8 g	153338	QSMLL-M3-4
	Male thread M5	For tubing outside diameter of 2 mm	10	7.6 g	133033	QSMLL-M5-2
		For tubing outer diameter of 3 mm		100	7.7 g	130838
					133012	QSMLL-M5-3-100
		For tubing outside diameter of 4 mm	10	8.3 g	153339	QSMLL-M5-4
			100		133013	QSMLL-M5-4-100
		For tubing outside diameter of 6 mm	10	9 g	153341	QSMLL-M5-6

Ordering data

Push-in L-fitting, long QSMLL, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M7	For tubing outside diameter of 4 mm	10	14 g	186354	QSMLL-M7-4
			100		133014	QSMLL-M7-4-100
		For tubing outside diameter of 6 mm	10		186355	QSMLL-M7-6

Push-in L-fitting, long, QSMLL, R thread						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread R1/8	For tubing outside diameter of 4 mm	10	13 g	153340	QSMLL-1/8-4
		For tubing outside diameter of 6 mm		14 g	153342	QSMLL-1/8-6

Push-in L-fitting, long, QSMLL, G thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread G1/8	For tubing outside diameter of 4 mm	10	23 g	186270	QSMLL-G1/8-4
		For tubing outside diameter of 6 mm			186271	QSMLL-G1/8-6

Push-in L-fitting QSMLV-...-I, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M5	For tubing outer diameter of 3 mm	10	5.1 g	130830	QSMLV-M5-3-I
				5 g	130831	QSMLV-M5-4-I
	Male thread M7	For tubing outside diameter of 4 mm		7.4 g	130832	QSMLV-M7-4-I
		For tubing outside diameter of 6 mm		6.2 g	130833	QSMLV-M7-6-I

Push-in L-fitting, long QSMLLV-...-I, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M5	For tubing outer diameter of 3 mm	10	13 g	130834	QSMLLV-M5-3-I

Ordering data

Push-in L-fitting, long QSMLLV-...-I, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M5	For tubing outside diameter of 4 mm	10	13 g	130835	QSMLLV-M5-4-I
	Male thread M7	For tubing outside diameter of 4 mm		14 g	130836	QSMLLV-M7-4-I
		For tubing outside diameter of 6 mm		12.4 g	130837	QSMLLV-M7-6-I

Push-in L-connector QSML						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	For tubing outside diameter of 3 mm	For tubing outer diameter of 3 mm	10	1.5 g	153343	QSML-3
	For tubing outer diameter of 4 mm	For tubing outside diameter of 4 mm	100	2 g	153344	QSML-4
					130766	QSML-4-100
	For tubing outside diameter of 6 mm	For tubing outside diameter of 6 mm	10	4 g	153345	QSML-6
			100		130767	QSML-6-100

Push-in L-connector QSML-...H						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Push-in sleeve Ø 3 mm	For tubing outer diameter of 3 mm	10	1.7 g	153346	QSML-3H
	Push-in sleeve Ø 4 mm	For tubing outside diameter of 4 mm			153347	QSML-4H
	Push-in sleeve Ø 6 mm	For tubing outside diameter of 6 mm		2.4 g	153348	QSML-6H

Push-in L-connector QSML-...H, reducing						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Push-in sleeve Ø 4 mm	For tubing outer diameter of 3 mm	10	1.7 g	153349	QSML-4H-3
	Push-in sleeve Ø 6 mm	For tubing outside diameter of 4 mm		1.9 g	153350	QSML-6H-4

Push-in T-fitting QSMT, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M3	For tubing outer diameter of 3 mm	10	2 g	153351	QSMT-M3-3

Ordering data

Push-in T-fitting QSMT, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M3	For tubing outside diameter of 4 mm	10	4 g	153353	QSMT-M3-4
	Male thread M5	For tubing outer diameter of 3 mm	10	3.3 g	153352	QSMT-M5-3
		For tubing outside diameter of 4 mm		4.4 g	153354	QSMT-M5-4
		For tubing outside diameter of 6 mm	100	5.6 g	130784	QSMT-M5-4-100
			10		153356	QSMT-M5-6
			100		130785	QSMT-M5-6-100

Push-in T-fitting QSMT, R thread						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread R1/8	For tubing outside diameter of 4 mm	10	7 g	153355	QSMT-1/8-4
		For tubing outside diameter of 6 mm		8 g	153357	QSMT-1/8-6

Push-in T-fitting QSMT, G thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread G1/8	For tubing outside diameter of 4 mm	10	10 g	186272	QSMT-G1/8-4
		For tubing outside diameter of 6 mm		12 g	186273	QSMT-G1/8-6

Push-in T-fitting QSMTL, metric thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread M3	For tubing outer diameter of 3 mm	10	2 g	153358	QSMTL-M3-3
		For tubing outside diameter of 4 mm		4 g	153360	QSMTL-M3-4
	Male thread M5	For tubing outer diameter of 3 mm		3.3 g	153359	QSMTL-M5-3
		For tubing outside diameter of 4 mm		4.4 g	153361	QSMTL-M5-4
		For tubing outside diameter of 6 mm		5.7 g	153363	QSMTL-M5-6

Ordering data

Push-in T-fitting QSMTL, R thread						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread R1/8	For tubing outside diameter of 4 mm	10	7 g	153362	QSMTL-1/8-4
		For tubing outside diameter of 6 mm		8.5 g	153364	QSMTL-1/8-6

Push-in T-fitting QSMTL, G thread with sealing ring						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	Male thread G1/8	For tubing outside diameter of 4 mm	10	10 g	186274	QSMTL-G1/8-4
		For tubing outside diameter of 6 mm		12 g	186275	QSMTL-G1/8-6

Push-in T-connector QSMT						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	For tubing outer diameter of 2 mm	For tubing outside diameter of 2 mm	10	1.6 g	133034	QSMT-2
	For tubing outside diameter of 3 mm	For tubing outer diameter of 3 mm		1.7 g	153365	QSMT-3
	For tubing outer diameter of 4 mm	For tubing outside diameter of 4 mm		3.3 g	153366	QSMT-4
			100		130782	QSMT-4-100
	For tubing outside diameter of 6 mm	For tubing outside diameter of 6 mm		5.3 g	153367	QSMT-6
			100		130783	QSMT-6-100

Push-in T-connector QSMT, reducing						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	For tubing outer diameter of 4 mm	For tubing outer diameter of 3 mm, For tubing outside diameter of 4 mm	10	3.5 g	153368	QSMT-4-3
	For tubing outside diameter of 6 mm	For tubing outside diameter of 4 mm, For tubing outside diameter of 6 mm		4 g	153369	QSMT-6-4

Push-in X connector QSMX						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	For tubing outside diameter of 3 mm	For tubing outer diameter of 3 mm	10	4 g	153378	QSMX-3

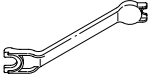
Ordering data

Push-in X connector QSMX						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	For tubing outer diameter of 4 mm	For tubing outside diameter of 4 mm	10	4 g	153379	QSMX-4
	For tubing outside diameter of 6 mm	For tubing outside diameter of 6 mm		5 g	153380	QSMX-6

Push-in Y-connector QSMY						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	For tubing outer diameter of 2 mm	For tubing outside diameter of 2 mm	10	1.7 g	133037	QSMY-2
	For tubing outside diameter of 3 mm	For tubing outer diameter of 3 mm		3.7 g	153370	QSMY-3
	For tubing outer diameter of 4 mm	For tubing outside diameter of 4 mm		3.5 g	153371	QSMY-4
			130786		QSMY-4-100	
	For tubing outside diameter of 6 mm	For tubing outside diameter of 6 mm	10	5.5 g	153372	QSMY-6
			100		130787	QSMY-6-100

Push-in Y-connector QSMY, reducing						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
	For tubing outer diameter of 4 mm	For tubing outer diameter of 3 mm	10	3.6 g	153373	QSMY-4-3
	For tubing outside diameter of 6 mm	For tubing outside diameter of 4 mm		5.3 g	153374	QSMY-6-4

Accessories

Release tool QS0					
	Short type code	Size	Product weight	Part no.	Type
	QS0	For tubing O.D. 4 mm For tubing O.D. 6 mm For tubing O.D. 8 mm For tubing O.D. 10 mm	13 g	158419	QS0