

Push-in fitting, mini series, inches QBM

FESTO



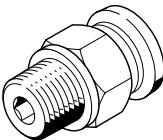
Characteristics

At a glance

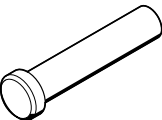
- Mini series for pneumatic tubing with dimensions in inches.
- Compact for maximum component density in confined installation conditions
 - Pneumatic connection via R, NPT, UNF, metric thread or push-in socket
 - PBT and nickel-plated brass
 - Operating medium: compressed air, vacuum

Design

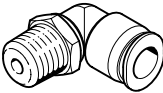
[] Straight shape



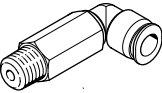
[C] Blanking plug



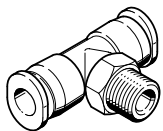
[L] L-shape



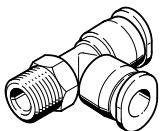
[LL] L-shape, long version



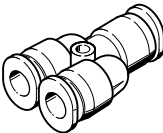
[T] T-shape



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



[Y] Y-shape



Type code

001	Series	
QBM	Push-in fitting, inch	
QB	Push-in fitting, inch	
QBMTL	Push-in fitting, inch	
QBML	Push-in fitting, inch	
QBMF	Push-in fitting, inch	
QBMLL	Push-in fitting, inch	
QBM	Push-in fitting, inch	
QBMT	Push-in fitting, inch	

002	Design	
	Straight shape	
L	L-shape	
T	T-shape	
Y	Y-shape	

003	Pneumatic connection 1 [inch]	
1/8	1/8 NPT	
1/4	1/4 NPT	
10-32-UNF	10/32 UNF	
5/32T	Push-in connector 5/32"	
3/16T	Push-in connector 3/16"	
1/8T	Push-in connector 1/8"	
1/4T	Push-in connector 1/4"	
5/32H	Push-in sleeve 5/32"	
M5	M5	

004	Pneumatic connection 2 [inch]	
	Same size push-in connector as pneumatic connection 1	
1/4	Push-in connector 1/4"	
1/8	Push-in connector 1/8"	
5/32	Push-in connector 5/32"	

005	Mounting method	
	Standard	
I	Internal hexagon	

006	System of units	
U	Imperial	

007	Version	
	Standard	
M	Hybrid connection	

Datasheet

General technical data – M5 thread

Pneumatic connection, port 1	Male thread M5
Design	L-shape L-shape, long T-shape Straight design
Type of seal on screwed plug	Sealing ring
Nominal torque	0.5 Nm

General technical data – R thread, NPT thread

Design	L-shape L-shape, long T-shape, additional push-in connector, lengthwise T-shape Straight design
Design	Push-pull principle
Mounting position	optional
Type of seal on screwed plug	Coating, Sealing ring

General technical data – UNF thread

Design	L-shape L-shape, long T-shape, additional push-in connector, lengthwise T-shape Straight design
Design	Push-pull principle
Mounting position	optional
Type of seal on screwed plug	Sealing ring

General technical data – Blanking plugs, plug connectors

Design	Blanking plug L-shape T-shape Y-shape Straight design
Design	Push-pull principle
Mounting position	optional

Operating and environmental conditions

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:::]
Note on operating and pilot medium	Lubricated operation possible
Ambient temperature	0 ... 60°C
Ambient temperature	32 ... 140°F
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/qs → Support/Downloads.

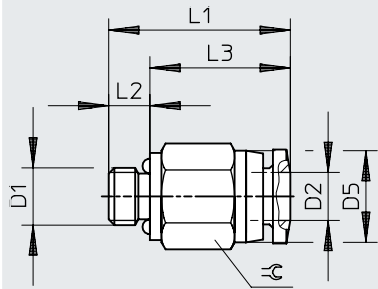
Datasheet

Materials – Push-in fittings										
Short type code	QB	QBL	QBM	QBMF	QBML	QBMLL	QBMT	QBMTL	QBMY	QBT
Material housing ¹⁾	Brass, nickel-plated	Brass, nickel-plated, PBT							PBT	Brass, nickel-plated, PBT
Material release ring	POM									
Colour of release ring	grey									
Material tubing seal	NBR									
Material tubing clamp component	High-alloy stainless steel									
Note on materials	RoHS-compliant									
LABS (PWIS) conformity	VDMA24364 zone III									

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

Dimensions

Dimensions – Push-in fitting QBM, UNF thread [Download CAD data](#) www.festo.com

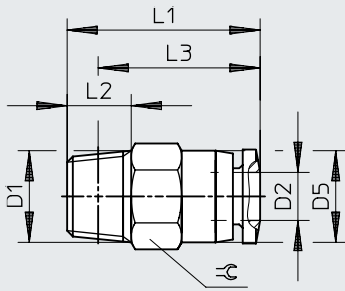


	D1	D2	D5 ø	L1	L2	L3	⌀
QBM-10-32-UNF-1/8-U	UNF10-32	1/8	0,283	0,646	0,142	0,504	5/16
QBM-10-32-UNF-5/32-U		5/32	0,315	0,665	0,142	0,524	5/16
QBM-10-32-UNF-1/4-U		1/4	0,413	0,744	0,142	0,602	7/16

Dimensions

Dimensions – Push-in fitting QBM, NPT thread

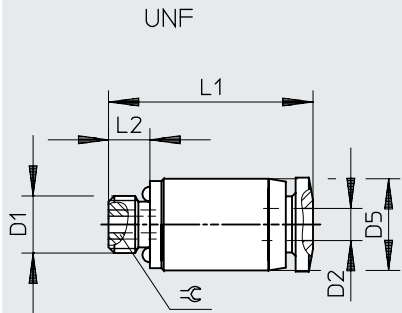
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	D1	D2	D5 ø	L1	L2	L3	≡
QBM-1/8-1/8-U	NPT1/8-27	1/8	0,283	0,689	0,335	0,528	7/16
QBM-1/8-5/32-U		5/32	0,315	0,705	0,335	0,543	7/16
QBM-1/8-1/4-U		1/4	0,413	0,768	0,335	0,606	7/16
QBM-1/4-1/8-U	NPT1/4-18	1/8	0,283	0,846	0,413	0,618	9/16
QBM-1/4-1/4-U		1/4	0,413	0,878	0,413	0,650	9/16

Dimensions

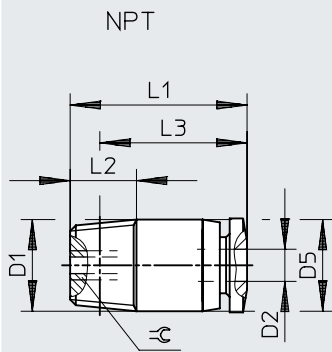
Dimensions – Push-in fitting QBM-...-I, UNF thread [Download CAD data](#) www.festo.com



	D1	D2	D5 Ø	L1	L2	≙
QBM-10-32-UNF-1/8-I-U	UNF10-32	1/8	0,276	0,646	0,142	3/32
QBM-10-32-UNF-5/32-I-U		5/32	0,315	0,669	0,142	3/32
QBM-10-32-UNF-1/4-I-U		1/4	0,413	0,748	0,142	3/32

Dimensions

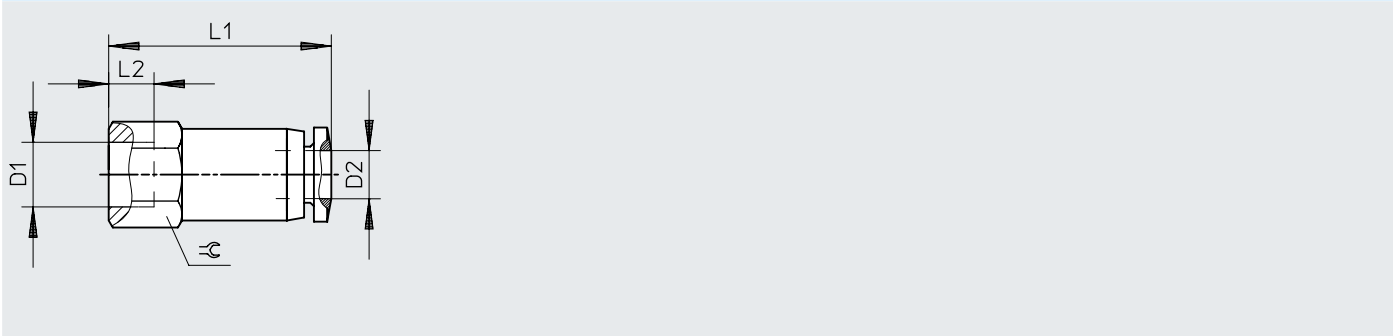
Dimensions – Push-in fitting QBM-...-I, NPT thread

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	D1	D2	D5 Ø	L1	L2	L3	≡
QBM-1/8-1/4-I-U	NPT1/8-27	1/4	0,413	0,768	0,335	0,606	3/32

Dimensions

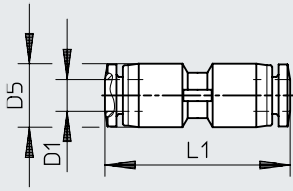
Dimensions – Push-in fitting QBMF, UNF thread [Download CAD data](#) www.festo.com



	D1	D2	D5 Ø	L1	L2	≅
QBMF-10-32-UNF-1/8-U	UNF10-32	1/8	0,295	0,740	0,236	5/16
QBMF-10-32-UNF-5/32-U		5/32	0,315	0,756	0,236	5/16
QBMF-10-32-UNF-1/4-U		1/4	0,413	0,807	0,236	7/16

Dimensions

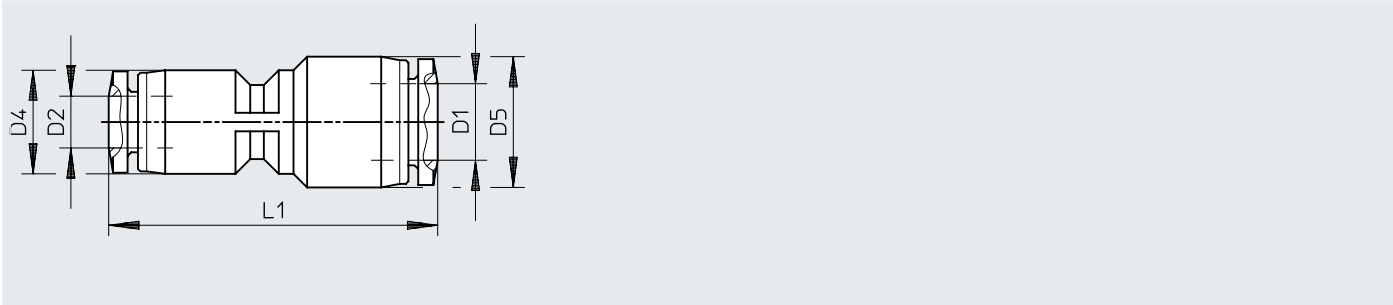
Dimensions – Push-in connector QBM-...T

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	D1	D5 Ø	L1
QBM-1/8T-U	1/8	0,295	0,929
QBM-5/32T-U	5/32	0,331	0,965
QBM-1/4T-U	1/4	0,441	1,126

Dimensions

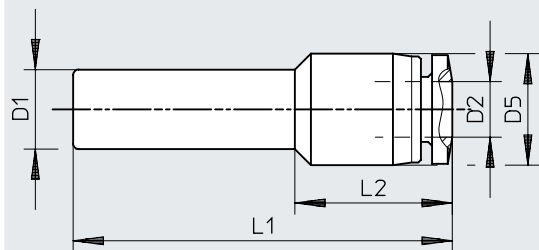
Dimensions – Push-in connector QBM-...T, reducing Download CAD data www.festo.com



	D1	D2	D4 ø	D5 ø	L1
QBM-5/32T-1/8-U	5/32	1/8	0,295	0,331	0,949
QBM-3/16T-1/8-U	3/16		0,295	0,453	1,130
QBM-1/4T-5/32-U	1/4	5/32	0,346	0,441	1,106

Dimensions

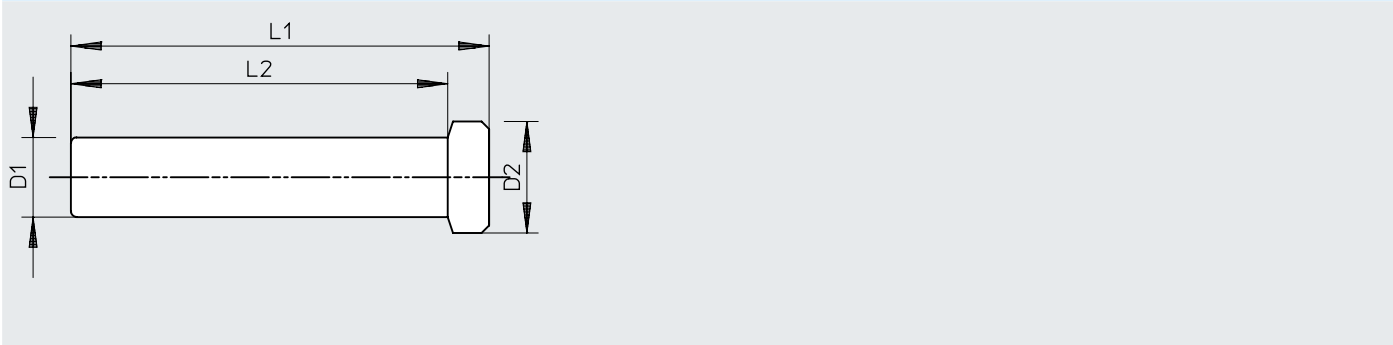
Dimensions – Push-in connector QBM-...H

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	D1	D2	D5 Ø	L1	L2
QBM-5/32H-1/8-U	5/32	1/8	0,299	1,197	0,488

Dimensions

Dimensions – Blanking plug QBMC-...H [Download CAD data](http://www.festo.com) www.festo.com

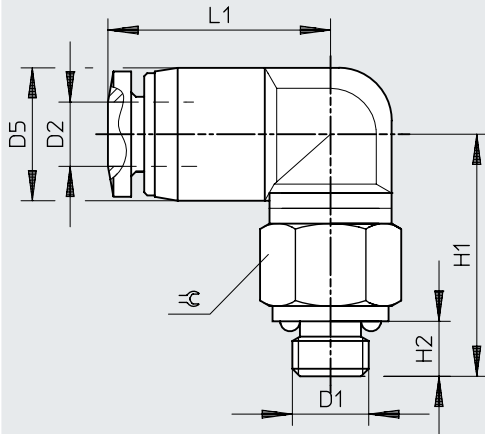


	D1	D2 Ø	L1	L2
QBMC-1/8H-U	1/8	0,197	0,787	0,709

Dimensions

Dimensions – Push-in L-fitting QBML, UNF thread

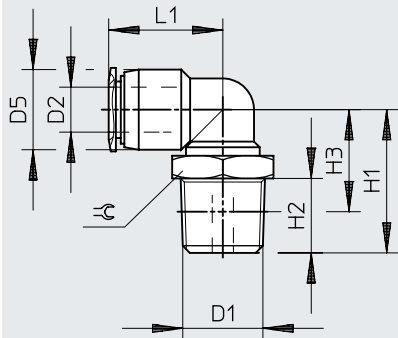
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	D1	D2	D5 Ø	H1	H2	L1	≡
QBML-10-32-UNF-1/8-U	UNF10-32	1/8	0,299	0,602	0,142	0,531	5/16
QBML-10-32-UNF-5/32-U		5/32	0,343	0,626	0,142	0,575	5/16
QBML-10-32-UNF-1/4-U		1/4	0,445	0,677	0,142	0,634	5/16

Dimensions

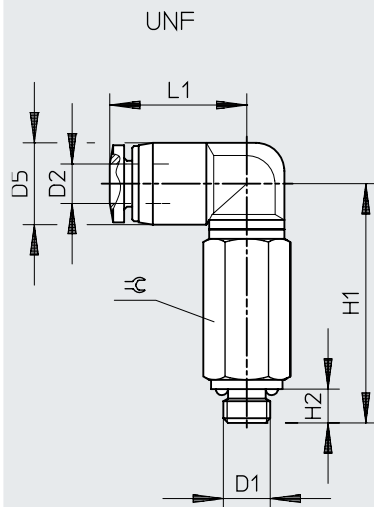
Dimensions – Push-in L-fitting QBML, NPT thread Download CAD data www.festo.com



	D1	D2	D5 ø	H1	H2	H3	L1	⌀
QBML-1/8-1/8-U	NPT1/8-27	1/8	0,299	0,622	0,335	0,461	0,531	7/16
QBML-1/8-1/4-U		1/4	0,445	0,697	0,335	0,535	0,634	7/16
QBML-1/4-1/8-U	NPT1/4-18	1/8	0,299	0,720	0,413	0,492	0,531	9/16
QBML-1/4-1/4-U		1/4	0,445	0,795	0,413	0,567	0,634	9/16

Dimensions

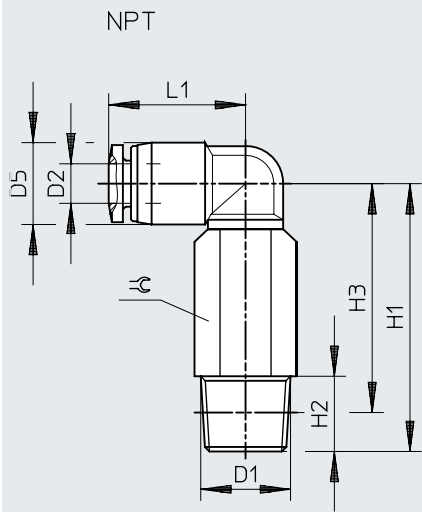
Dimensions – Push-in L-fitting, long QBMLL, UNF thread

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	D1	D2	D5 Ø	H1	H2	L1	≡C
QBMLL-10-32-UNF-1/8-U	UNF10-32	1/8	0,299	0,941	0,142	0,531	5/16
QBMLL-10-32-UNF-1/4-U		1/4	0,445	1,130	0,142	0,634	5/16

Dimensions

Dimensions – Push-in L-fitting, long QBMLL, NPT thread [Download CAD data](http://www.festo.com) www.festo.com

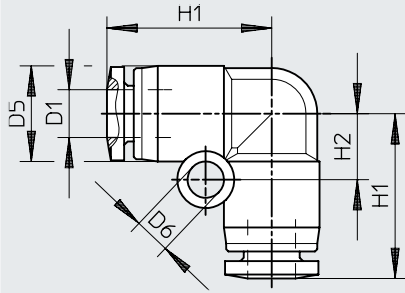


	D1	D2	D5 Ø	H1	H2	H3	L1	≅
QBMLL-1/8-1/8-U	NPT1/8-27	1/8	0,299	0,961	0,335	0,799	0,531	7/16
QBMLL-1/8-1/4-U		1/4	0,445	1,287	0,335	1,126	0,634	7/16

Dimensions

Dimensions – Push-in L-connector QBML-...T

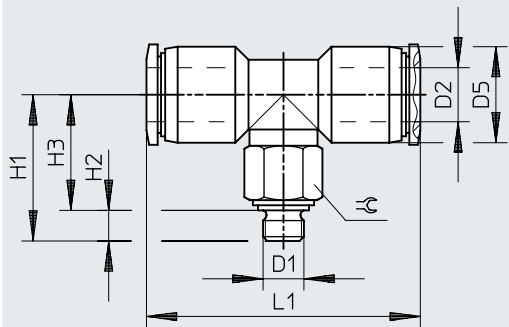
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	D1	D5 Ø	D6 Ø	H1	H2
QBML-1/8T-U	1/8	0,295	0,126	0,531	0,213
QBML-5/32T-U	5/32	0,331	0,126	0,571	0,228
QBML-1/4T-U	1/4	0,441	0,130	0,693	0,276

Dimensions

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

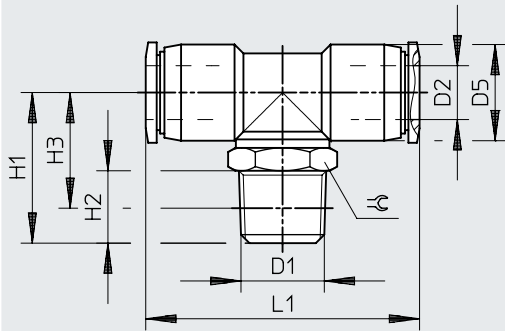


	D1	D2	D5 Ø	H1	H2	L1	⌀
QBMT-10-32-UNF-1/8-U	UNF10-32	1/8	0,299	0,602	0,142	1,142	5/16
QBMT-10-32-UNF-5/32-U		5/32	0,343	0,626	0,142	1,189	5/16
QBMT-10-32-UNF-1/4-U		1/4	0,445	0,677	0,142	1,268	5/16

Dimensions

Dimensions – Push-in T-fitting QBMT, NPT thread

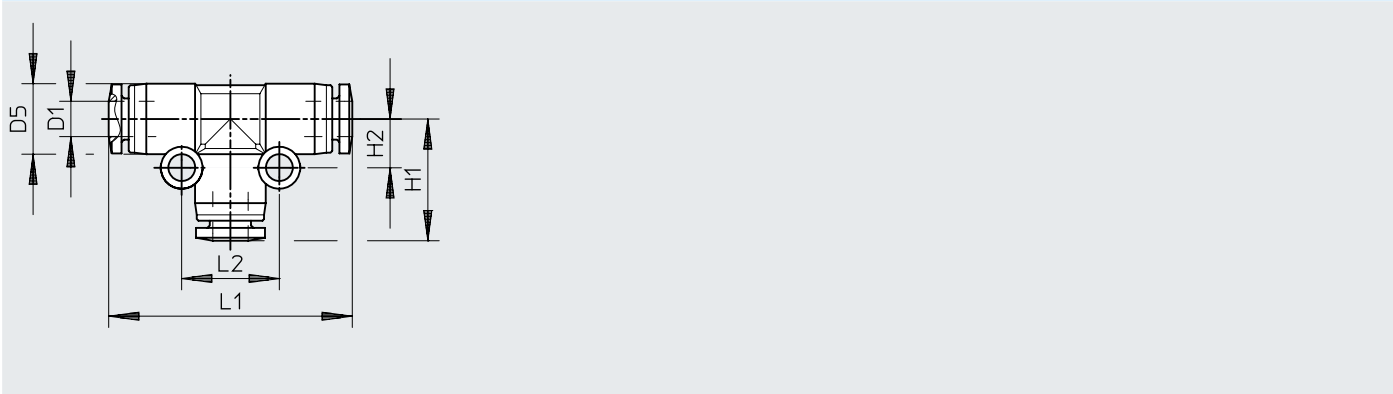
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	D1	D2	D5 Ø	H1	H2	H3	L1	≅
QBMT-1/8-1/8-U	NPT1/8-27	1/8	0,299	0,622	0,335	0,461	1,142	7/16
QBMT-1/8-1/4-U		1/4	0,445	0,697	0,335	0,535	1,268	7/16
QBMT-1/4-1/8-U	NPT1/4-18	1/8	0,299	0,720	0,413	0,492	1,142	9/16

Dimensions

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

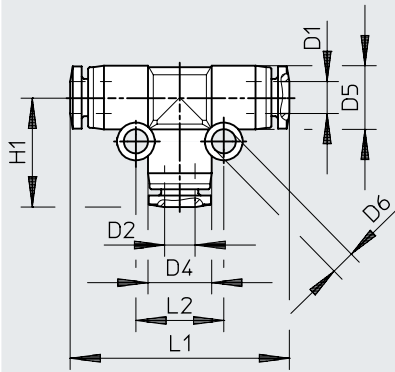


	D1	D5 Ø	D6 Ø	H1	L1	L2
QBMT-1/8T-U	1/8	0,295	0,126	0,531	1,063	0,425
QBMT-5/32T-U	5/32	0,331	0,126	0,571	1,142	0,457
QBMT-1/4T-U	1/4	0,441	0,130	0,693	1,386	0,551

Dimensions

Dimensions – Push-in T-connector QBMT-...T, reducing

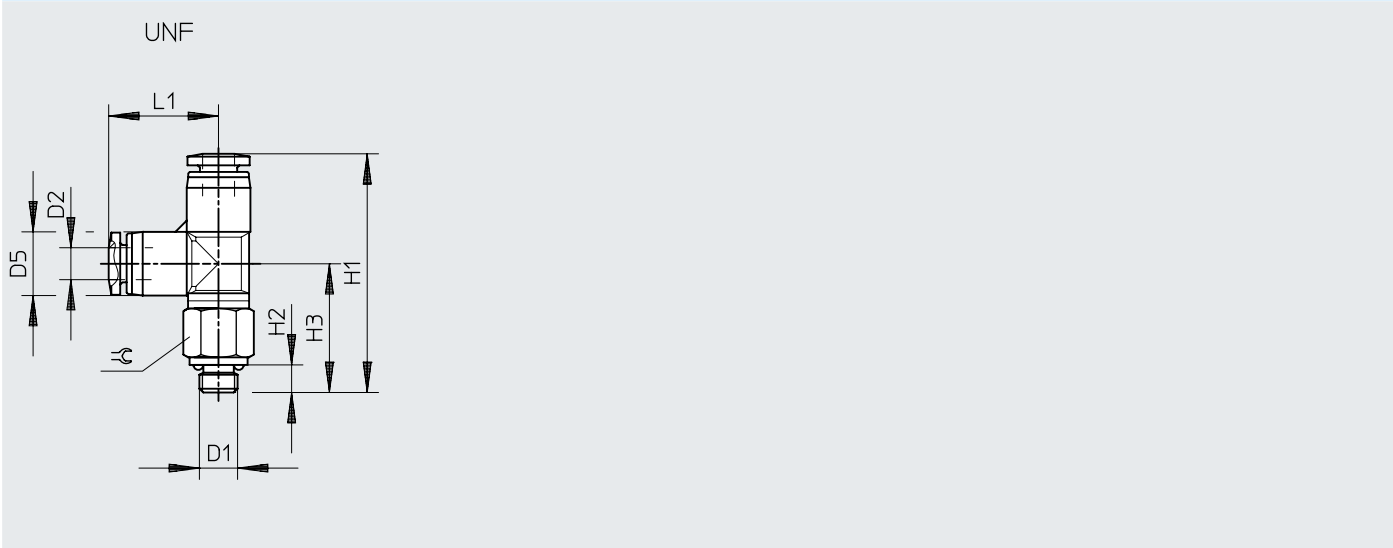
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	D1	D2	D4 Ø	D5 Ø	D6 Ø	H1	L1	L2
QBMT-5/32T-1/8-U	5/32	1/8	0,331	0,331	0,126	0,567	1,142	0,457
QBMT-1/4T-5/32-U	1/4	5/32	0,441	0,441	0,130	0,693	1,386	0,551

Dimensions

Dimensions – Push-in T-fitting QBMTL, UNF thread [Download CAD data](#) www.festo.com

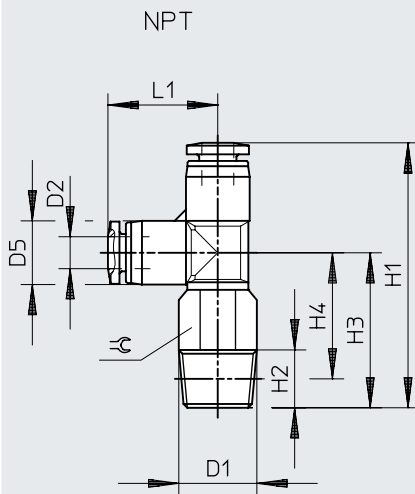


	D1	D2	D5 ø	H1	H2	H3	L1	≙
QBMTL-10-32-UNF-1/8-U	UNF10-32	1/8	0,299	1,138	0,142	0,602	0,535	5/16
QBMTL-10-32-UNF-5/32-U		5/32	0,343	1,197	0,142	0,626	0,571	5/16
QBMTL-10-32-UNF-1/4-U		1/4	0,441	1,378	0,142	0,673	0,705	5/16

Dimensions

Dimensions – Push-in T-fitting QBMTL, NPT thread

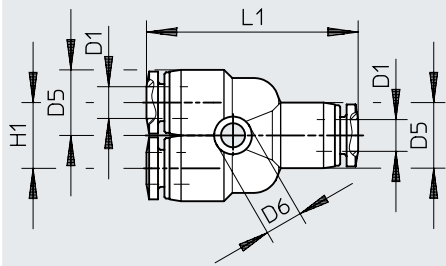
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	D1	D2	D5 Ø	H1	H2	H3	H4	L1	⌀
QBMTL-1/8-1/8-U	NPT1/8-27	1/8	0,299	1,157	0,335	0,622	0,461	0,535	7/16
QBMTL-1/8-1/4-U		1/4	0,441	1,398	0,335	0,693	0,531	0,705	7/16
QBMTL-1/4-1/8-U	NPT1/4-18	1/8	0,299	1,256	0,413	0,720	0,492	0,535	9/16

Dimensions

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

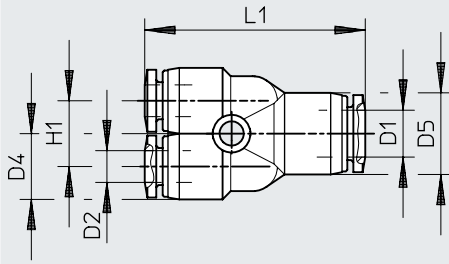


	D1	D5 Ø	D6 Ø	H1	L1
QBMY-1/8T-U	1/8	0,299	0,126	0,299	1,055
QBMY-5/32T-U	5/32	0,343	0,126	0,343	1,102
QBMY-1/4T-U	1/4	0,445	0,126	0,445	1,283

Dimensions

Dimensions – Push-in Y-connector QBM...T, reducing

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	D1	D2	D4 Ø	D5 Ø	D6 Ø	H1	L1
QBM5-5/32T-1/8-U	5/32	1/8	0,299	0,343	0,126	0,299	1,083
QBM5-1/4T-5/32-U	1/4	5/32	0,343	0,445	0,126	0,343	1,173

Ordering data

Ordering data – Push-in fitting QB						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Size of pack	Part no.	Type
	Male thread M5	For tubing outside diameter of 5/32"	0.098 in	0	574303	QBMLL-M5-5/32-U-M
		For tubing O.D. 1/8"	0.079 in	10	★ 533209	QBM-M5-1/8-U-M
	Male thread R1/8	For tubing outside diameter of 5/32"	0.094 in		★ 533213	QBM-1/8-1/8-U-M
		For tubing O.D. 1/8"	0.094 in		★ 572312	QBM-10-32-UNF-5/32-I-U
	Male thread 10-32 UNF-2A	For tubing outside diameter of 5/32"	0.098 in		★ 572303	QBM-10-32-UNF-5/32-U
		For tubing O.D. 1/8"	0.079 in		★ 533266	QBM-10-32-UNF-1/8-U
		For tubing O.D. 1/8"	0.094 in		★ 572311	QBM-10-32-UNF-1/8-I-U
		For tubing outside diameter of 1/4"	0.098 in		★ 573054	QBM-10-32-UNF-1/4-I-U
		For tubing outside diameter of 1/4"	0.098 in		★ 573050	QBM-10-32-UNF-1/4-U
		For tubing outside diameter of 5/32"	0.118 in		★ 572305	QBM-1/8-5/32-U
	Male thread 1/8 NPT	For tubing O.D. 1/8"	0.098 in		★ 533270	QBM-1/8-1/8-U
		For tubing outside diameter of 1/4"	0.157 in		★ 573055	QBM-1/8-1/4-I-U
		For tubing outside diameter of 1/4"	0.197 in		★ 573051	QBM-1/8-1/4-U
	Male thread 1/4 NPT	For tubing O.D. 1/8"	0.098 in		★ 572306	QBM-1/4-1/8-U
		For tubing outside diameter of 1/4"	0.197 in		★ 573052	QBM-1/4-1/4-U

Ordering data – Push-in connector QB						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Size of pack	Part no.	Type
	Push-in sleeve Ø 5/32"	For tubing O.D. 1/8"	0.094 in	10	572280	QBM-5/32H-1/8-U
	For tubing outside diameter of 5/32"	For tubing outside diameter of 5/32"	0.118 in		★ 572278	QBM-5/32T-U
	For tubing outside diameter of 1/8"	For tubing O.D. 1/8"	0.094 in		★ 572277	QBM-1/8T-U
	For tubing outside diameter of 3/16"		0.098 in		573057	QBM-3/16T-1/8-U
	For tubing O.D. 1/4"	For tubing outside diameter of 5/32"	0.138 in		573058	QBM-1/4T-5/32-U
		For tubing outside diameter of 1/4"	0.197 in		★ 573056	QBM-1/4T-U

Ordering data – Blanking plug QBC-...H				
	Pneumatic connection, port 1	Size of pack	Part no.	Type
	Push-in sleeve Ø 1/8"	10	★ 572281	QBMC-1/8H-U

Ordering data

Ordering data – Push-in fitting QBF

	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Size of pack	Part no.	Type
	Female thread 10-32 UNF-2B	For tubing outside diameter of 5/32"	0.118 in	10	572283	QBMF-10-32-UNF-5/32-U
		For tubing O.D. 1/8"	0.098 in		572282	QBMF-10-32-UNF-1/8-U
		For tubing outside diameter of 1/4"	0.118 in		573066	QBMF-10-32-UNF-1/4-U

Ordering data – Push-in L-fitting QBL

	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Size of pack	Part no.	Type
	Male thread M5	For tubing O.D. 1/8"	0.098 in	10	★ 533228	QBML-M5-1/8-U-M
	Male thread R1/8	1/8"			★ 533232	QBML-1/8-1/8-U-M
	Male thread 10-32 UNF-2A	For tubing outside diameter of 5/32"			★ 572308	QBML-10-32-UNF-5/32-U
		For tubing O.D. 1/8"			★ 533285	QBML-10-32-UNF-1/8-U
		For tubing outside diameter of 1/4"			★ 573059	QBML-10-32-UNF-1/4-U
	Male thread 1/8 NPT	For tubing O.D. 1/8"	0.118 in		★ 533289	QBML-1/8-1/8-U
		For tubing outside diameter of 1/4"			★ 573060	QBML-1/8-1/4-U
	Male thread 1/4 NPT	For tubing O.D. 1/8"	0.098 in		★ 572310	QBML-1/4-1/8-U
For tubing outside diameter of 1/4"		0.118 in	★ 573061	QBML-1/4-1/4-U		

Ordering data – Push-in L-connector QBL

	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Size of pack	Part no.	Type
	For tubing outside diameter of 5/32"	For tubing outside diameter of 5/32"	0.118 in	10	572285	QBML-5/32T-U
	For tubing outside diameter of 1/8"	For tubing O.D. 1/8"	0.094 in		572284	QBML-1/8T-U
	For tubing O.D. 1/4"	For tubing outside diameter of 1/4"	0.197 in		573063	QBML-1/4T-U

Ordering data – Push-in L-fitting, long QBLL

Push-in L-fitting, long QBLL

	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Size of pack	Part no.	Type
	Male thread M5	For tubing outside diameter of 5/32"	0.098 in	0	574303	QBMLL-M5-5/32-U-M
		For tubing O.D. 1/8"			574302	QBMLL-M5-1/8-U-M
	Male thread 10-32 UNF-2A	For tubing outside diameter of 1/4"	10	572286	QBMLL-10-32-UNF-1/8-U	
				573064	QBMLL-10-32-UNF-1/4-U	

Ordering data

Ordering data – Push-in L-fitting, long QBLL

	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Size of pack	Part no.	Type
	Male thread 1/8 NPT	For tubing O.D. 1/8"	0.098 in	10	572287	QBMLL-1/8-1/8-U
		For tubing outside diameter of 1/4"	0.118 in		573065	QBMLL-1/8-1/4-U

Ordering data – Push-in T-fitting QBT

Ordering data - Push-in fitting QB

	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Size of pack	Part no.	Type	
	Male thread M5	For tubing O.D. 1/8"	0.098 in	10	★ 533247	QBMT-M5-1/8-U-M	
	Male thread R1/8				★ 533251	QBMT-1/8-1/8-U-M	
	Male thread 10-32 UNF-2A	For tubing outside diameter of 5/32"			572289	QBMT-10-32-UNF-5/32-U	
		For tubing O.D. 1/8"			★ 533304	QBMT-10-32-UNF-1/8-U	
		For tubing outside diameter of 1/4"			573067	QBMT-10-32-UNF-1/4-U	
	Male thread 1/8 NPT	For tubing O.D. 1/8"	0.138 in		★ 533308	QBMT-1/8-1/8-U	
		For tubing outside diameter of 1/4"			573068	QBMT-1/8-1/4-U	
	Male thread 1/4 NPT	For tubing O.D. 1/8"	0.098 in		572291	QBMT-1/4-1/8-U	

Ordering data – Push-in T-connector QBT

	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Size of pack	Part no.	Type
	For tubing outside diameter of 5/32"	For tubing outside diameter of 5/32"	0.118 in	10	★ 572294	QBMT-5/32T-U
		For tubing O.D. 1/8"	0.094 in		572292	QBMT-5/32T-1/8-U
	For tubing outside diameter of 1/8"				★ 572293	QBMT-1/8T-U
	For tubing O.D. 1/4"	For tubing outside diameter of 5/32"	0.118 in		573070	QBMT-1/4T-5/32-U
		For tubing outside diameter of 1/4"	0.197 in		★ 573069	QBMT-1/4T-U

Ordering data – Push-in T-fitting QBTL

	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Size of pack	Part no.	Type
	Male thread 10-32 UNF-2A	For tubing outside diameter of 5/32"	0.098 in	10	572296	QBMTL-10-32-UNF-5/32-U
		For tubing O.D. 1/8"			572295	QBMTL-10-32-UNF-1/8-U
		For tubing outside diameter of 1/4"			573071	QBMTL-10-32-UNF-1/4-U

Ordering data

Ordering data – Push-in T-fitting QBTL

	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Size of pack	Part no.	Type
	Male thread 1/8 NPT	For tubing O.D. 1/8"	0.098 in	10	572297	QBMTL-1/8-1/8-U
		For tubing outside diameter of 1/4"	0.118 in		573072	QBMTL-1/8-1/4-U
	Male thread 1/4 NPT	For tubing O.D. 1/8"	0.098 in		572298	QBMTL-1/4-1/8-U

Ordering data – Push-in Y-connector QBY

	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Size of pack	Part no.	Type
	For tubing outside diameter of 5/32"	For tubing outside diameter of 5/32"	0.118 in	10	★ 572300	QBY-5/32T-U
		For tubing O.D. 1/8"	0.094 in		572301	QBY-5/32T-1/8-U
	For tubing outside diameter of 1/8"	For tubing O.D. 1/8"			★ 572299	QBY-1/8T-U
	For tubing O.D. 1/4"	For tubing outside diameter of 5/32"	0.118 in		573074	QBY-1/4T-5/32-U
		For tubing outside diameter of 1/4"	0.197 in		★ 573073	QBY-1/4T-U