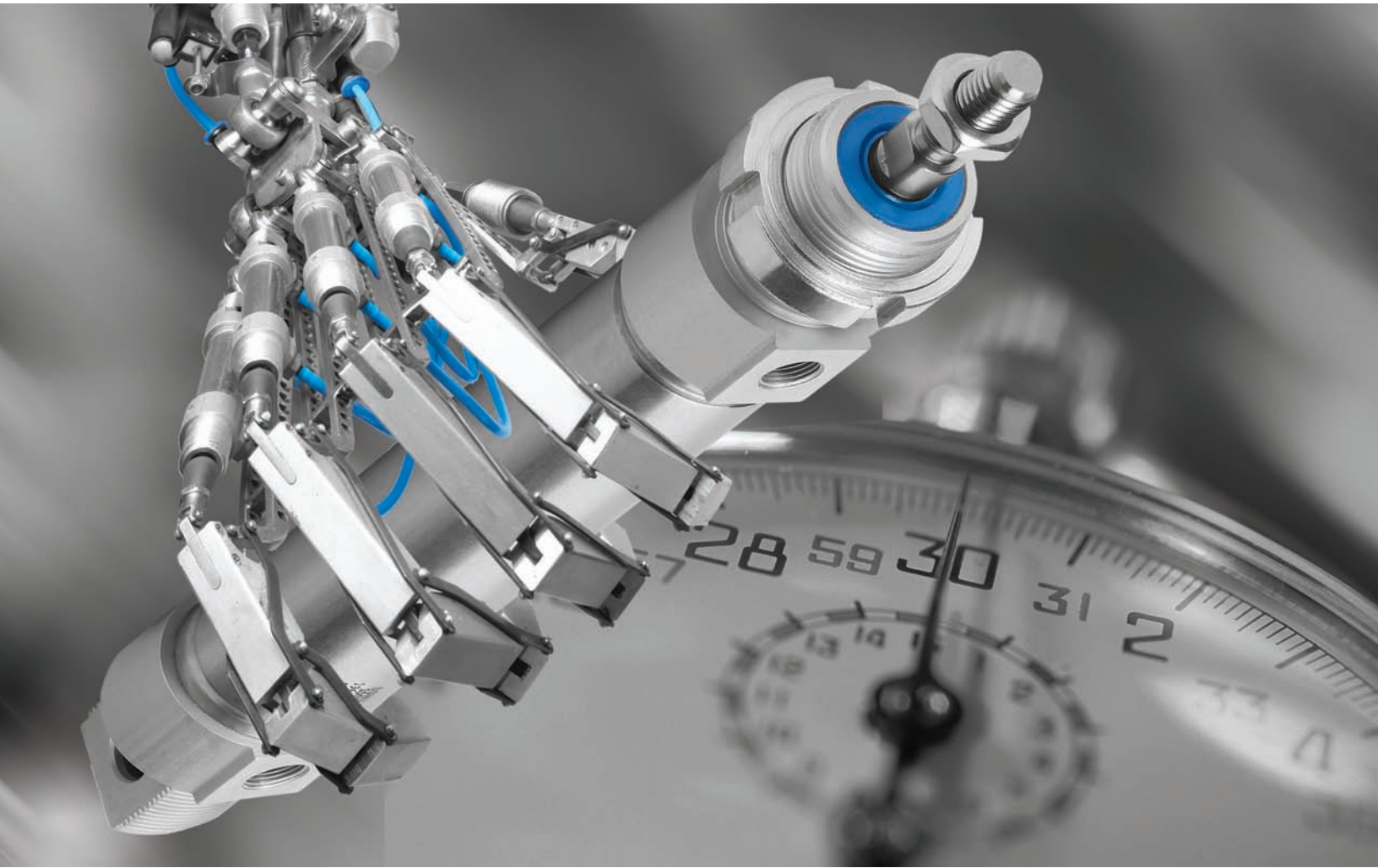


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Festo Assured Shipping Time

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- Manual/Mechanical Valves
- Stand Alone Valves
- Valve Manifolds



Sensors

- Pressure Sensors
- Vacuum Sensors
- Actuator Feedback



Air Preparation Units

- Filter/Regulator-Lubricators
- Filter Regulators
- Pressure Regulators and Accessories
- Filters
- Lubricators
- On/Off Valves and Soft-start Valves
- Distribution Blocks



Fittings / Flow Controls / Tubing / Silencers

- Fittings
- Flow Controls
- Tubing
- Silencers



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Fittings / Flow Controls / Silencers / Tubing – Inch Series

FESTO

Push-in Fittings QS/QSM (Quick Star)

Push-in Straight Fittings QS/QSM/QSMF, External Hex										
Type	Threaded Connection	Tubing O. D. [in]							Lead Time	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	10-32-UNF	–	–	■	■	–	–	–	■	278
	1/8 NPT	–	■	■	■	■	■	–	■	
	1/4 NPT	–	■	■	■	■	■	■	■	
	3/8 NPT	–	–	–	■	■	■	■	■	
	1/2 NPT	–	–	–	–	–	■	■	■	

Push-in Elbow Fittings QSL/QSML										
Type	Threaded Connection	Tubing O. D. [in]							Lead Time	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	10-32-UNF	–	–	■	■	–	–	–	■	278
	1/8 NPT	–	■	■	■	■	–	–	■	
	1/4 NPT	–	■	■	■	■	■	–	■	
	3/8 NPT	–	–	–	■	■	■	■	■	
	1/2 NPT	–	–	–	–	–	■	■	■	

Push-in T Fittings QST/QSMT										
Type	Threaded Connection	Tubing O. D. [in]							Lead Time	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	1/8 NPT	–	■	■	■	■	–	–	■	278
	1/4 NPT	–	■	■	■	■	■	–	■	
	3/8 NPT	–	–	–	■	■	■	■	■	
	1/2 NPT	–	–	–	–	–	■	■	■	

Push-in Y Fittings QSY										
Type	Threaded Connection	Tubing O. D. [in]							Lead Time	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	1/8 NPT	–	■	■	■	■	–	–	■	278
	1/4 NPT	–	■	■	■	■	■	–	■	
	3/8 NPT	–	–	–	■	■	■	■	■	
	1/2 NPT	–	–	–	–	–	■	■	■	

Fittings / Flow Controls / Silencers / Tubing – Inch Series

FESTO

Push-in Fittings QB (BasicLine)

Push-in Straight Fittings										
Type	Threaded Connection	Tubing O. D. [in]							Lead Time	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	QB									
	10-32-UNF	■	■	■	■	–	–	–	■	280
	1/8 NPT	■	■	■	■	■	■	–	■	
	1/4 NPT	–	■	■	■	■	■	■	■	
	3/8 NPT	–	–	–	■	■	■	■	■	
	1/2 NPT	–	–	–	–	■	■	■	■	
	QBF									
	10-32-UNF	–	–	–	–	–	–	–	■	280
	1/8 NPT	–	■	■	■	■	■	–	■	
	1/4 NPT	–	■	■	■	■	■	■	■	
	3/8 NPT	–	–	–	■	■	■	■	■	
	1/2 NPT	–	–	–	–	■	■	–	■	

Push-in Elbow Fittings										
Type	Threaded Connection	Tubing O. D. [in]							Lead Time	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	QBL									
	10-32-UNF	■	■	■	■	–	–	–	■	281
	1/8 NPT	■	■	■	■	■	■	–	■	
	1/4 NPT	–	■	■	■	■	■	■	■	
	3/8 NPT	–	–	■	■	■	■	■	■	
	1/2 NPT	–	–	–	–	–	■	■	■	
	QBLL									
	10-32-UNF	–	–	–	–	–	–	–	■	281
	1/8 NPT	–	■	■	■	■	–	–	■	
	1/4 NPT	–	■	■	■	■	■	■	■	
	3/8 NPT	–	–	■	■	■	■	■	■	
	1/2 NPT	–	–	–	–	–	■	■	■	
	QBLF									
	10-32-UNF	–	■	–	■	–	–	–	■	282
	1/8 NPT	–	■	■	■	■	–	–	■	
	1/4 NPT	–	■	■	■	■	■	–	■	
	3/8 NPT	–	–	–	■	■	■	■	■	
	1/2 NPT	–	–	–	–	–	■	■	■	
	QBLV									
	10-32-UNF	■	■	■	■	–	–	–	■	282
	1/8 NPT	–	■	■	■	■	–	–	■	
	1/4 NPT	–	■	■	■	■	■	–	■	
	3/8 NPT	–	–	■	■	■	■	■	■	
	1/2 NPT	–	–	–	–	■	■	■	■	

Fittings / Flow Controls / Silencers / Tubing – Inch Series

FESTO

Push-in Fittings QB (BasicLine)

Push-in T Fittings										
Type	Threaded Connection	Tubing O. D. [in]							Lead Time	➔ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	QBT									
	10-32-UNF	■	■	■	■	–	–	–	■	283
	1/8 NPT	■	■	■	■	■	■	–	■	
	1/4 NPT	–	■	■	■	■	■	■	■	
	3/8 NPT	–	–	■	■	■	■	■	■	
	1/2 NPT	–	–	–	–	–	■	■	■	
	QBTL									
	10-32-UNF	–	■	■	■	–	–	–	■	283
	1/8 NPT	–	■	■	■	■	■	–	■	
	1/4 NPT	–	■	■	■	■	■	■	■	
	3/8 NPT	–	–	■	■	■	■	■	■	
	1/2 NPT	–	–	–	–	–	■	■	■	

Push-in Y Fittings										
Type	Threaded Connection	Tubing O. D. [in]							Lead Time	➔ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	QBY									
	10-32-UNF	–	■	■	■	–	–	–	■	284
	1/8 NPT	–	■	■	■	■	■	–	■	
	1/4 NPT	–	■	■	■	■	■	■	■	
	3/8 NPT	–	–	■	■	■	■	■	■	
	1/2 NPT	–	–	–	–	■	■	■	■	

Fittings / Flow Controls / Silencers / Tubing – Inch Series

Push-in Connectors QS (Quick Star)

Push-in Connectors QS/QSM									
Type	Tubing O. D. D1 [in]	Tubing O. D. D2 [in]							→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	
	5/32	–	■	–	–	–	–	–	279
	3/16	■ ¹⁾	■ ¹⁾	■	–	–	–	–	
	1/4	–	■ ¹⁾	■ ¹⁾	■	–	–	–	
	5/16	–	–	–	■ ¹⁾	■	–	–	
	3/8	–	–	–	–	■ ¹⁾	■	–	
	1/2	–	–	–	–	–	■ ¹⁾	■	

Push-in Elbow Connectors QSL/QSML									
Type	Tubing O. D. D1 [in]	Tubing O. D. D2 [in]							→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	
	5/32	–	■	–	–	–	–	–	279
	3/16	–	■ ¹⁾	■	–	–	–	–	
	1/4	–	■ ¹⁾	■ ¹⁾	■	–	–	–	
	5/16	–	–	–	■ ¹⁾	■	–	–	
	3/8	–	–	–	–	■ ¹⁾	■	–	
	1/2	–	–	–	–	–	■ ¹⁾	■	

Push-in T Connectors QST									
Type	Tubing O. D. D1 [in]	Tubing O. D. D2 [in]							→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	
 D1 D2 D1	5/32	■	–	–	–	–	–	–	279
	3/16	■ ¹⁾	■	–	–	–	–	–	
	1/4	■ ¹⁾	■ ¹⁾	■	–	–	–	–	
	5/16	–	–	■ ¹⁾	■	–	–	–	
	3/8	–	–	–	■ ¹⁾	■	–	–	
	1/2	–	–	–	–	■ ¹⁾	■	–	
	5/8	–	–	–	–	–	–	■	

Push-in Y Connectors QSY/QSMY									
Type	Tubing O. D. D1 [in]	Tubing O. D. D2 [in]						Lead Time	→ Page
		5/32	3/16	1/4	5/16	3/8	1/2		
 D1 D2 D2	5/32	■	–	–	–	–	–	■	279
	3/16	■ ¹⁾	■	–	–	–	–	■	
	1/4	■ ¹⁾	■ ¹⁾	■	–	–	–	■	
	5/16	–	–	■ ¹⁾	■	–	–	■	
	3/8	–	–	–	■ ¹⁾	■	–	■	
	1/2	–	–	–	–	■ ¹⁾	■	■	

1) Reducing Connector

Fittings / Flow Controls / Silencers / Tubing – Inch Series

Push-in Connectors QB (BasicLine)

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Push-in Connectors QB										
Type	Tubing O. D. D1 [in]	Tubing O. D. D2 [in]							Lead Time Same Day/ Next Day	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2		
	5/32	–	■	–	–	–	–	–	■	285
	3/16	–	■ ¹⁾	■	–	–	–	–	■	
	1/4	–	■ ¹⁾	■ ¹⁾	■	–	–	–	■	
	5/16	–	■ ¹⁾	–	■ ¹⁾	■	–	–	■	
	3/8	–	–	–	■ ¹⁾	■ ¹⁾	■	–	■	
	1/2	–	–	–	–	–	■ ¹⁾	■	■	
	5/32	–	■	–	–	–	–	–	■	285
	3/16	–	–	■	–	–	–	–	■	
	1/4	–	–	–	■	–	–	–	■	
	5/16	–	–	–	–	■	–	–	■	
	3/8	–	–	–	–	–	■	–	■	
	1/2	–	–	–	–	–	–	■	■	

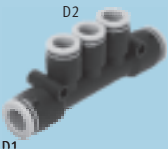
Push-in Elbow Connectors QBL										
Type	Tubing O. D. D1 [in]	Tubing O. D. D2 [in]							Lead Time Same Day/ Next Day	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2		
	5/32	–	■	–	–	–	–	–	■	285
	3/16	–	–	■	–	–	–	–	■	
	1/4	–	–	–	■	–	–	–	■	
	5/16	–	–	–	–	■	–	–	■	
	3/8	–	–	–	–	–	■	–	■	
	1/2	–	–	–	–	–	–	■	■	

1) Reducing Connector

Fittings / Flow Controls / Silencers / Tubing – Inch Series

Push-in Connectors QB (BasicLine)

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Push-in T Connectors QBT/QBT3									
Type	Tubing O. D. D1 [in]	Tubing O. D. D2 [in]						Lead Time	→ Page
		5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	5/32	■	–	–	–	–	–	■	285
	3/16	–	■	–	–	–	–	■	
	1/4	■ ¹⁾	–	■	–	–	–	■	
	5/16	–	–	■ ¹⁾	■	–	–	■	
	3/8	–	–	■ ¹⁾	■ ¹⁾	■	–	■	
	1/2	–	–	–	–	■ ¹⁾	■	■	
	5/32	–	–	–	–	–	–	■	285
	3/16	■ ¹⁾	–	–	–	–	–	■	
	1/4	■ ¹⁾	–	–	–	–	–	■	
	5/16	■ ¹⁾	–	■ ¹⁾	–	–	–	■	
	3/8	–	–	■ ¹⁾	■ ¹⁾	–	–	■	
	1/2	–	–	–	–	–	–	■	

Push-in Y/X Connectors QBY/QBX									
Type	Tubing O. D. D1 [in]	Tubing O. D. D2 [in]						Lead Time	→ Page
		5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	5/32	■	–	–	–	–	–	■	285
	3/16	■ ¹⁾	■	–	–	–	–	■	
	1/4	■ ¹⁾	■ ¹⁾	■	–	–	–	■	
	5/16	■ ¹⁾	–	■ ¹⁾	■	–	–	■	
	3/8	–	–	■ ¹⁾	■ ¹⁾	■	–	■	
	1/2	–	–	–	■ ¹⁾	■ ¹⁾	■	■	
	5/32	■	–	–	–	–	–	■	286
	3/16	–	■	–	–	–	–	■	
	1/4	–	–	■	–	–	–	■	
	5/16	–	–	–	■	–	–	■	
	3/8	–	–	–	–	■	–	■	
	1/2	–	–	–	–	–	■	■	

1) Reducing Connector

Fittings / Flow Controls / Silencers / Tubing – Inch Series

Push-in Connectors QB (BasicLine)

FESTO

Push-in Reducer QB									
Type	Push-in Sleeve O. D. D1 [in]	Tubing O. D. D2 [in]						Lead Time	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	Same Day/ Next Day	
 D2 D1	1/8	–	–	–	■	–	–	■	286
	5/32	■	–	–	■	–	–	■	
	3/16	–	–	–	–	–	–	■	
	1/4	■	■	–	–	–	–	■	
	5/16	–	■	–	■	–	–	■	
	3/8	–	–	–	■	■	–	■	
	1/2	–	–	–	–	–	■	■	

Reducing Sleeve QBH									
Type	Push-in Sleeve O. D. D1 [in]	Tubing O. D. D2 [in]						Lead Time	→ Page
		5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	5/32	–	–	–	–	–	–	■	286
	3/16	■	–	–	–	–	–	■	
	1/4	■	■	–	–	–	–	■	
	5/16	–	–	■	–	–	–	■	
	3/8	–	–	■	■	–	–	■	
	1/2	–	–	–	–	■	–	■	

Plug QBC									
Type	Push-in Sleeve O. D. D1 [in]	Tubing O. D. D2 [in]						Lead Time	→ Page
		5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	5/32	■	–	–	–	–	–	■	286
	3/16	–	■	–	–	–	–	■	
	1/4	–	–	■	–	–	–	■	
	5/16	–	–	–	■	–	–	■	
	3/8	–	–	–	–	■	–	■	
	1/2	–	–	–	–	–	■	■	

1) Reducing Connector

Fittings / Flow Controls / Silencers / Tubing – Inch Series

Flow Control Valves, Inline and Banjo Style

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Flow Control Valves GRLA with QS Push-in Connector								
Type	Screw-in Thread	Tubing O. D. [in]					Lead Time	→ Page
		5/32	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	10-32-UNF	■	■	–	–	–	■	292
	1/8 NPT	■	■	–	–	–	■	
	3/8 NPT	–	■	■	■	■	■	
	1/2 NPT	–	–	–	■	■	■	

Flow Control Valves with QB Push-in Connector, BasicLine										
Type	Screw-in Thread or Tubing O.D. [in]	Tubing O. D. [in]							Lead Time	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	GRLA									
	10-32-UNF	■	■	■	■	–	–	–	■	292
	1/8 NPT	–	■	■	■	■	–	–	■	
	1/4 NPT	–	■	■	■	■	■	–	■	
	3/8 NPT	–	–	■	■	■	■	■	■	
	1/2 NPT	–	–	–	–	■	■	■	■	
	GR									
	5/32	–	■	–	–	–	–	–	■	292
	3/16	–	–	■	–	–	–	–	■	
	1/4	–	–	–	■	–	–	–	■	
	5/16	–	–	–	–	■	–	–	■	
	3/8	–	–	–	–	–	■	–	■	
	1/2	–	–	–	–	–	–	■	■	

Flow Control Valves GRLA with Female Thread						
Type	Screw-in Thread	Connecting Thread				→ Page
		1/8	1/4	3/8	1/2	
	3/8 NPT	–	–	■	–	292
	1/2 NPT	–	–	–	■	

Fittings / Flow Controls / Silencers / Tubing – Inch Series

Silencers, Tubing

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Silencers U-B, Die-cast Version					
Type	Pneumatic Connection	Standard Nominal Flow Rate [scfm]	Noise Level [dB (A)]	Lead Time	→ Page
				Same Day/ Next Day	
	1/8 NPT	51	74	■	295
	1/4 NPT	106	80	■	
	3/8 NPT	159	80	■	
	1/2 NPT	229	80	■	

Plastic Tubing PUN (Polyurethane), Standard O. D.					
Type	Outer Diameter [in]	Inner Diameter [in]	Color	Lead Time	→ Page
				Same Day/ Next Day	
	1/8	1/16	blue, yellow, green, clear, red, black, white	■	297
	5/32	3/32		■	
	3/16	1/8		■	
	1/4	5/32		■	
	5/16	3/16		■	
	3/8	1/4		■	
	1/2	21/64		■	

Fittings / Flow Controls / Silencers / Tubing – Hybrid Series

Push-in Fittings QS-M/QSM-M (Quick Star), QS-H-M (BasicLine)

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Push-in Straight Fittings QS-M/QSM-M, Internal Hex										
Type	Threaded Connection	Tubing O. D. [in]							Lead Time	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	M3	■	■	■	–	–	–	–	■	287
	M5	■	■	■	■	–	–	–	■	
	M7	■	–	■	■	–	–	–	■	
	R1/8	–	–	–	■	■	–	–	■	
	R1/4	–	–	–	■	■	■	–	■	
	R3/8	–	–	–	–	■	■	–	■	
	R1/2	–	–	–	–	–	■	■	■	

Push-in Straight Fittings QS-H-M, External Hex										
Type	Threaded Connection	Tubing O. D. [in]							Lead Time	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	M5	■	■	■	■	–	–	–	■	287
	R1/8	■	■	■	■	■	–	–	■	
	R1/4	–	–	■	■	■	■	–	■	
	R3/8	–	–	–	■	■	■	■	■	
	R1/2	–	–	–	–	–	■	■	■	

Push-in Elbow Fittings QSL-H-M										
Type	Threaded Connection	Tubing O. D. [in]							Lead Time	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	M5	■	■	■	■	–	–	–	■	287
	R1/8	■	■	■	■	■	–	–	■	
	R1/4	–	–	■	■	■	■	–	■	
	R3/8	–	–	–	■	■	■	■	■	
	R1/2	–	–	–	–	–	■	■	■	

Push-in T Fittings QST-H-M										
Type	Threaded Connection	Tubing O. D. [in]							Lead Time	→ Page
		1/8	5/32	3/16	1/4	5/16	3/8	1/2	Same Day/ Next Day	
	M5	■	■	■	■	–	–	–	■	288
	R1/8	■	■	■	■	■	–	–	■	
	R1/4	–	–	■	■	■	■	–	■	
	R3/8	–	–	–	■	■	■	■	■	
	R1/2	–	–	–	–	–	■	■	■	

Fittings / Flow Controls / Silencers / Tubing – Metric Series

FESTO

Push-in Fittings QS/QSM (Quick Star)

Push-in Straight Fittings QS/QSM/QSMF, External Hex										
Type	Threaded Connection	Tubing O. D. [mm]							Lead Time	→ Page
		4	6	8	10	12	16	20	Same Day/ Next Day	
	M5	■	■	–	–	–	–	–	■	289
	R1/8	■	■	■	■	–	–	–	■	
	R1/4	■	■	■	■	■	–	–	■	
	R3/8	–	■	■	■	■	■	–	■	
	R1/2	–	–	–	■	■	■	–	■	

Push-in Straight Fittings QS/QSM, Internal Hex										
Type	Threaded Connection	Tubing O. D. [mm]							Lead Time	→ Page
		4	6	8	10	12	16	20	Same Day/ Next Day	
	M3	■	–	–	–	–	–	–	■	289
	M5	■	■	–	–	–	–	–	■	
	M7	■	■	–	–	–	–	–	■	
	G1/8	■	■	■	–	–	–	–	■	
	G1/4	–	–	–	■	–	–	–	■	

Push-in Elbow Fittings QSL/QSML										
Type	Threaded Connection	Tubing O. D. [mm]							Lead Time	→ Page
		4	6	8	10	12	16	20	Same Day/ Next Day	
	R1/8	■	■	■	■	–	–	–	■	289
	R1/4	■	■	■	■	■	–	–	■	
	R3/8	–	■	■	■	■	■	–	■	
	R1/2	–	–	–	■	■	■	–	■	

Push-in T Fittings QST/QSMT										
Type	Threaded Connection	Tubing O. D. [mm]							Lead Time	→ Page
		4	6	8	10	12	16	20	Same Day/ Next Day	
	R1/8	■	■	■	■	–	–	–	■	289
	R1/4	■	■	■	■	■	–	–	■	
	R3/8	–	■	■	■	■	■	–	■	
	R1/2	–	–	–	■	■	■	–	■	

Fittings / Flow Controls / Silencers / Tubing – Metric Series

Push-in Connectors QS/QSM (Quick Star)

FESTO

Push-in Connectors QS/QSM									
Type	Tubing O. D. D1 [mm]	Tubing O. D. D2 [mm]							→ Page
		4	6	8	10	12	16	20	
	4	■	–	–	–	–	–	–	290
	6	–	■	–	–	–	–	–	
	8	–	–	■	–	–	–	–	
	10	–	–	–	■	–	–	–	
	12	–	–	–	–	■	–	–	
	16	–	–	–	–	–	■	–	

Push-in Elbow Connectors QSL/QSML									
Type	Tubing O. D. D1 [mm]	Tubing O. D. D2 [mm]							→ Page
		4	6	8	10	12	16	20	
	4	■	–	–	–	–	–	–	290
	6	–	■	–	–	–	–	–	
	8	–	–	■	–	–	–	–	
	10	–	–	–	■	–	–	–	
	12	–	–	–	–	■	–	–	
	16	–	–	–	–	–	■	–	

Push-in T Connectors QST									
Type	Tubing O. D. D1 [mm]	Tubing O. D. D2 [mm]							→ Page
		4	6	8	10	12	16	20	
	4	■	–	–	–	–	–	–	290
	6	–	■	–	–	–	–	–	
	8	–	–	■	–	–	–	–	
	10	–	–	–	■	–	–	–	
	12	–	–	–	–	■	–	–	
	16	–	–	–	–	–	■	–	

Push-in Y Connectors QSY/QSMY									
Type	Tubing O. D. D1 [mm]	Tubing O. D. D2 [mm]						Lead Time	→ Page
		4	6	8	10	12	16		
	4	■	–	–	–	–	–	■	290
	6	■ ¹⁾	■	–	–	–	–	■	
	8	–	■ ¹⁾	■	–	–	–	■	
	10	–	–	■ ¹⁾	■	–	–	■	
	12	–	–	–	■ ¹⁾	■	–	■	

1) Reducing Connector

Fittings / Flow Controls / Silencers / Tubing – Metric Series

Flow Control Valves, Banjo Style

FESTO

Flow Control Valves GRLA with QS Push-in Connector								
Type	Threaded Connection	Tubing O. D. [mm]					Lead Time	→ Page
		3	4	6	8	12	Same Day/ Next Day	
	M5	–	■	■	–	–	■	293
	G1/8	–	■	■	■	–	■	
	G1/4	–	–	■	■	–	■	
	G3/8	–	–	■	■	–	■	
	G1/2	–	–	–	–	■	■	

Flow Control Valves GRLA with Female Thread							
Type	Screw-in Thread	Connecting Thread				Lead Time	➔ Page
		G1/8	G1/4	G3/8	G1/2	Same Day/ Next Day	
	G1/8	■	–	–	–	■	293
	G1/4	–	■	–	–	■	
	G3/8	–	–	■	–	■	
	G1/2	–	–	–	■	■	

Fittings / Flow Controls / Silencers / Tubing – Metric Series

Silencers, Tubing

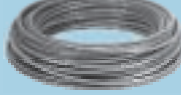
FESTO

Silencers U-B, Die-cast Version					
Type	Pneumatic Connection	Standard Nominal Flow Rate [l/min]	Noise Level [dB (A)]	Lead Time	→ Page
				Same Day/ Next Day	
	G1/8	1,450	74	■	295
	G1/4	3,000	80	■	
	G3/8	4,500	80	■	
	G1/2	6,500	80	■	
	G3/4	11,000	81	■	
	G1	17,300	80	■	

Silencers U, Compact Design					
Type	Pneumatic Connection	Standard Nominal Flow Rate [l/min]	Noise Level [dB (A)]	Lead Time	→ Page
				Same Day/ Next Day	
	M3	80	65	■	295
	M5	150	70	■	
	PK-3	110	70	■	
	PK-4	90	74	■	

Silencers U, Polymer Version					
Type	Pneumatic Connection	Standard Nominal Flow Rate [l/min]	Noise Level [dB (A)]	Lead Time	→ Page
				Same Day/ Next Day	
	G1/8 (male or female)	2,050	77	■	295
	G1/4	3,400	77	■	
	G3/8	5,900	82	■	
	G1/2	10,600	80	■	
	G3/4	15,000	83	■	
	G1	19,900	84	■	

Silencers UC					
Type	Pneumatic Connection	Standard Nominal Flow Rate [l/min]	Noise Level [dB (A)]	Lead Time	→ Page
				Same Day/ Next Day	
	M5	350	60	■	295
	M7	800	58	■	
	G1/4	1,700	59	■	
	G1/8	3,200	60	■	

Plastic Tubing PUN (Polyurethane), Standard O. D.					
Type	Outer Diameter [mm]	Inner Diameter [mm]	Color	Lead Time	→ Page
				Same Day/ Next Day	
	3	2.1	blue, yellow, green, red, silver, black	■	299
	4	2.6		■	
	6	4.0		■	
	8	5.7		■	
	10	7.0		■	
	12	8.0		■	
	16	11.0		■	

Push-in Fittings and Connectors

Overview



- Simple and reliable connection and release
- With R, NPT and metric thread
- Wide range of variants
- Many more push-in fittings, connectors, variants and accessories available via www.festo.com/catalog/qs or /qb

Detailed product information → www.festo.com/catalog/⟨type⟩

Operating Conditions			
	Mini QSM	Standard QS	BasicLine QB, QS-H
Operating pressure	–0.95 ... +14 bar		–0.95 ... +8 bar
	28.5 in Hg ... 206 psi		28.5 in Hg ... 147 psi
Operating temperature	–10 ... +80 °C		0 ... 60 °C
	14 ... 176 °F		32 ... 140 °F

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Push-in Fittings and Connectors

Overview

Push-in Fittings, Inch Series		
Design	Connection	
	Thread	For tubing O.D. [in]
QS, Quick Star		
Straight	10-32 UNF, 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
L-shape	10-32 UNF, 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
T-shape	1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
Y-shape	1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
QB, BasicLine		
Straight	Male thread 10-32 UNF, 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2
	Female thread 10-32 UNF, 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
L-shape	Male thread 10-32 UNF, 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2
	Female thread 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
L-shape, long	Male thread 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
L-shape, rotatable	Male thread 10-32 UNF, 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2
T-shape	10-32 UNF, 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2
T-shape, branching	10-32 UNF, 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
Y-shape	10-32 UNF, 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	5/32, 3/16, 1/4, 5/16, 3/8, 1/2

Push-in Connectors, Inch Series		
Design	Connection	
	Thread	For tubing O.D. [in]
QS, Quick Star		
Straight	–	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
L-shape	–	5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8
T-shape	–	5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8
Y-shape	–	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
QB, BasicLine		
Straight	–	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
Straight, bulkhead	–	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
L-shape	–	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
T-shape	–	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
T-shape, triple	–	3/16, 1/4, 5/16, 3/8
Y-shape	–	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
X-shape	–	5/32, 3/16, 1/4, 5/16, 3/8, 1/2

Push-in Accessories, Inch Series		
Design	Connection	
	Thread	For tubing O.D. [in]
QB, BasicLine		
Push-in reducer	–	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2
Reducing sleeve	–	3/16, 1/4, 5/16, 3/8, 1/2
Plug	–	5/32, 3/16, 1/4, 5/16, 3/8, 1/2

Push-in Fittings and Connectors

Overview

FESTO

Push-in Fittings, Hybrid Series		
Design	Connection	
	Thread	For tubing O.D. [in]
QSM, Quick Star Mini		
Straight	M3, M5, M7	1/8, 5/32, 3/16, 1/4
QS, Quick Star		
Straight	M5, R1/8, R1/4, R3/8, R1/2	1/4, 5/16, 3/8, 1/2
QS-H, BasicLine		
Straight	M5, M7, R1/8, R1/4, R3/8, R1/2	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2
L-shape	M5, M7, R1/8, R1/4, R3/8, R1/2	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2
T-shape	M5, R1/8, R1/4, R3/8, R1/2	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2

Push-in Fittings, Metric Series		
Design	Connection	
	Thread	For tubing O.D. [mm]
QSM, Quick Star Mini		
Straight	M3, M5, M7	4, 6
QS, Quick Star		
Straight	R1/8, R1/4, R3/8, R1/2	4, 6, 8, 10, 12, 16
L-shape	R1/8, R1/4, R3/8, R1/2	4, 6, 8, 10, 12, 16
T-shape	R1/8, R1/4, R3/8, R1/2	4, 6, 8, 10, 12, 16

Push-in Connectors, Metric Series		
Design	Connection	
	Thread	For tubing O.D. [mm]
QS, Quick Star		
Straight	–	4, 6, 8, 10, 12, 16
L-shape	–	4, 6, 8, 10, 12, 16
T-shape	–	4, 6, 8, 10, 12, 16
Y-shape	–	4, 6, 8, 10, 12

Push-in Fittings QS, Quick Star – Inch Series

Ordering Data

FESTO

Push-in Fitting QS/QSM

Male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
UNF thread with sealing ring			
10-32 UNF	3/16	QS-10-32-3/16-U	1
	1/4	QS-10-32-1/4-U	1
NPT thread			
1/8NPT	5/32	QS-1/8-5/32-U	1
	3/16	QS-1/8-3/16-U	1
	1/4	QS-1/8-1/4-U	1
1/8NPT	5/16	QS-1/8-5/16-U	1
	3/8	QS-1/8-3/8-U	1
1/4NPT	5/32	QS-1/4-5/32-U	1
	3/16	QS-1/4-3/16-U	1
	1/4	QS-1/4-1/4-U	1
	5/16	QS-1/4-5/16-U	1
	3/8	QS-1/4-3/8-U	1
	1/2	QS-1/4-1/2-U	1
3/8NPT	1/4	QS-3/8-1/4-U	1
	5/16	QS-3/8-5/16-U	1
	3/8	QS-3/8-3/8-U	1
	1/2	QS-3/8-1/2-U	1
1/2NPT	3/8	QS-1/2-3/8-U	1
	1/2	QS-1/2-1/2-U	1

Push-in L-fitting QSL/QSML

Rotatable 360°, male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
UNF thread with sealing ring			
10-32 UNF	3/16	QSL-10-32-3/16-U	1
	1/4	QSL-10-32-1/4-U	1
NPT thread			
1/8NPT	5/32	QSL-1/8-5/32-U	1
	3/16	QSL-1/8-3/16-U	1
	1/4	QSL-1/8-1/4-U	1
	5/16	QSL-1/8-5/16-U	1
1/4NPT	5/32	QSL-1/4-5/32-U	1
	3/16	QSL-1/4-3/16-U	1
	1/4	QSL-1/4-1/4-U	1
	5/16	QSL-1/4-5/16-U	1
	3/8	QSL-1/4-3/8-U	1
3/8NPT	1/4	QSL-3/8-1/4-U	1
	5/16	QSL-3/8-5/16-U	1
	3/8	QSL-3/8-3/8-U	1
	1/2	QSL-3/8-1/2-U	1
1/2NPT	3/8	QSL-1/2-3/8-U	1
	1/2	QSL-1/2-1/2-U	1

Push-in T-fitting QST/QSMT

Rotatable 360°, male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
1/8NPT	5/32	QST-1/8-5/32-U	1
	3/16	QST-1/8-3/16-U	1
	1/4	QST-1/8-1/4-U	1
	5/16	QST-1/8-5/16-U	1
1/4NPT	5/32	QST-1/4-5/32-U	1
	3/16	QST-1/4-3/16-U	1
	1/4	QST-1/4-1/4-U	1
	5/16	QST-1/4-5/16-U	1
3/8NPT	3/8	QST-3/8-3/8-U	1
	1/2	QST-3/8-1/2-U	1
	1/2	QST-1/2-1/2-U	1

Push-in T-fitting QSY/QSMY

Rotatable 360°, male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
NPT thread			
1/8NPT	5/32	QSY-1/8-5/32-U	1
	3/16	QSY-1/8-3/16-U	1
	1/4	QSY-1/8-1/4-U	1
	5/16	QSY-1/8-5/16-U	1
1/4NPT	5/32	QSY-1/4-5/32-U	1
	3/16	QSY-1/4-3/16-U	1
	1/4	QSY-1/4-1/4-U	1
	5/16	QSY-1/4-5/16-U	1
3/8NPT	3/8	QSY-3/8-3/8-U	1
	1/2	QSY-3/8-1/2-U	1
	1/2	QSY-1/2-1/2-U	1

¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Push-in Connectors QS, Quick Star – Inch Series

Ordering Data

FESTO

Push-in Connector QS/QSM



Tubing O.D. [in]		Order code	PU ¹⁾
5/32	5/32	QS-5/32T-U	1
3/16	3/16	QS-3/16T-U	1
1/4	1/4	QS-1/4T-U	1
5/16	5/16	QS-5/16T-U	1
3/8	3/8	QS-3/8T-U	1
1/2	1/2	QS-1/2T-U	1
Reducing			
3/16	5/32	QS-3/16T-5/32-U	1
1/4	5/32	QS-1/4T-5/32-U	1
	3/16	QS-1/4T-3/16-U	1
5/16	1/4	QS-5/16T-1/4-U	1
3/8	5/16	QS-3/8T-5/16-U	1
1/2	3/8	QS-1/2T-3/8-U	1

Push-in T-connector QST/QSMT



Tubing O.D. [in]		Order code	PU ¹⁾
5/32	5/32	QST-5/32T-U	1
3/16	3/16	QST-3/16T-U	1
1/4	1/4	QST-1/4T-U	1
5/16	5/16	QST-5/16T-U	1
3/8	3/8	QST-3/8T-U	1
1/2	1/2	QST-1/2T-U	1
5/8	5/8	QST-5/8T-U	1
1 reducing outlet D2			
3/16	5/32	QST-3/16T-5/32-U	1
1/4	3/16	QST-1/4T-3/16-U	1
5/16	1/4	QST-5/16T-1/4-U	1
3/8	5/16	QST-3/8T-5/16-U	1
1/2	3/8	QST-1/2T-3/8-U	1

Push-in L-connector QSL/QSML



Tubing O.D. [in]		Order code	PU ¹⁾
5/32	5/32	QSL-5/32T-U	1
3/16	3/16	QSL-3/16T-U	1
1/4	1/4	QSL-1/4T-U	1
5/16	5/16	QSL-5/16T-U	1
3/8	3/8	QSL-3/8T-U	1
1/2	1/2	QSL-1/2T-U	1
5/8	5/8	QSL-5/8T-U	1

Push-in Y-connector QSY/QSMY



Tubing O.D. [in]		Order code	PU ¹⁾
5/32	5/32	QSY-5/32T-U	1
3/16	3/16	QSY-3/16T-U	1
1/4	1/4	QSY-1/4T-U	1
5/16	5/16	QSY-5/16T-U	1
3/8	3/8	QSY-3/8T-U	1
1/2	1/2	QSY-1/2T-U	1
2 reducing outlets D2			
3/16	5/32	QSY-3/16T-5/32-U	1
1/4	3/16	QSY-1/4T-3/16-U	1
5/16	1/4	QSY-5/16T-1/4-U	1
3/8	5/16	QSY-3/8T-5/16-U	1
1/2	3/8	QSY-1/2T-3/8-U	1

¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Push-in Fittings QB, BasicLine – Inch Series

Ordering Data

FESTO

Push-inFitting QB-...-U

Male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
UNF thread with sealing ring			
10-32 UNF	1/8	QB-10/32-UNF-1/8-U	10
	5/32	QB-10/32-UNF-5/32-U	10
	3/16	QB-10/32-UNF-3/16-U	10
	1/4	QB-10/32-UNF-1/4-U	10
NPT thread			
1/8NPT	1/8	QB-1/8-1/8-U	10
	5/32	QB-1/8-5/32-U	10
	3/16	QB-1/8-3/16-U	10
	1/4	QB-1/8-1/4-U	10
	5/16	QB-1/8-5/16-U	10
	3/8	QB-1/8-3/8-U	10
1/4NPT	5/32	QB-1/4-5/32-U	10
	3/16	QB-1/4-3/16-U	10
	1/4	QB-1/4-1/4-U	10
	5/16	QB-1/4-5/16-U	10
	3/8	QB-1/4-3/8-U	10
	1/2	QB-1/4-1/2-U	5
3/8NPT	1/4	QB-3/8-1/4-U	10
	5/16	QB-3/8-5/16-U	10
	3/8	QB-3/8-3/8-U	5
	1/2	QB-3/8-1/2-U	5
1/2NPT	5/16	QB-1/2-5/16-U	10
	3/8	QB-1/2-3/8-U	5
	1/2	QB-1/2-1/2-U	5

Push-inFitting QBF-...-U

Female thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
NPT thread			
1/8NPT	5/32	QBF-1/8-5/32-U	10
	3/16	QBF-1/8-3/16-U	10
	1/4	QBF-1/8-1/4-U	10
	5/16	QBF-1/8-5/16-U	10
	3/8	QBF-1/8-3/8-U	10
1/4NPT	5/32	QBF-1/4-5/32-U	10
	3/16	QBF-1/4-3/16-U	10
	1/4	QBF-1/4-1/4-U	10
	5/16	QBF-1/4-5/16-U	10
	3/8	QBF-1/4-3/8-U	10
	1/2	QBF-1/4-1/2-U	5
3/8NPT	1/4	QBF-3/8-1/4-U	10
	5/16	QBF-3/8-5/16-U	10
	3/8	QBF-3/8-3/8-U	10
	1/2	QBF-3/8-1/2-U	5
1/2NPT	5/16	QBF-1/2-5/16-U	10
	3/8	QBF-1/2-3/8-U	5

¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Push-in Fittings QB, BasicLine – Inch Series

Ordering Data

FESTO

Push-in L-fitting QBL-...-U

Rotatable 360°, male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
UNF thread with sealing ring			
10-32 UNF	1/8	QBL-10/32-UNF-1/8-U	10
	5/32	QBL-10/32-UNF-5/32-U	10
	3/16	QBL-10/32-UNF-3/16-U	10
	1/4	QBL-10/32-UNF-1/4-U	10
NPT thread			
1/8 NPT	1/8	QBL-1/8-1/8-U	10
	5/32	QBL-1/8-5/32-U	10
	3/16	QBL-1/8-3/16-U	10
	1/4	QBL-1/8-1/4-U	10
	5/16	QBL-1/8-5/16-U	10
	3/8	QBL-1/8-3/8-U	10
1/4 NPT	5/32	QBL-1/4-5/32-U	10
	3/16	QBL-1/4-3/16-U	10
	1/4	QBL-1/4-1/4-U	10
	5/16	QBL-1/4-5/16-U	5
	3/8	QBL-1/4-3/8-U	5
	1/2	QBL-1/4-1/2-U	5
3/8 NPT	3/16	QBL-3/8-3/16-U	10
	1/4	QBL-3/8-1/4-U	5
	5/16	QBL-3/8-5/16-U	5
	3/8	QBL-3/8-3/8-U	5
	1/2	QBL-3/8-1/2-U	5
1/2 NPT	3/8	QBL-1/2-3/8-U	5
	1/2	QBL-1/2-1/2-U	5

Push-in L-fitting QBLF-...-U

Rotatable 360°, female thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
UNF thread with sealing ring			
10-32 UNF	5/32	QBLF-10-32-5/32-U	10
	1/4	QBLF-10-32-1/4-U	10
NPT thread			
1/8 NPT	5/32	QBLF-1/8-5/32-U	10
	3/16	QBLF-1/8-3/16-U	10
	1/4	QBLF-1/8-1/4-U	10
	5/16	QBLF-1/8-5/16-U	10
1/4 NPT	5/32	QBLF-1/4-5/32-U	10
	3/16	QBLF-1/4-3/16-U	10
	1/4	QBLF-1/4-1/4-U	10
	5/16	QBLF-1/4-5/16-U	5
	3/8	QBLF-1/4-3/8-U	5
3/8 NPT	1/4	QBLF-3/8-1/4-U	10
	5/16	QBLF-3/8-5/16-U	5
	3/8	QBLF-3/8-3/8-U	5
	1/2	QBLF-3/8-1/2-U	5
1/2 NPT	3/8	QBLF-1/2-3/8-U	5
	1/2	QBLF-1/2-1/2-U	5

¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Push-in Fittings QB, BasicLine – Inch Series

Ordering Data

FESTO

Push-in L-fitting QBL-...-U

Rotatable 360°, long, male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
NPT thread			
1/8 NPT	5/32	QBL-1/8-5/32-U	10
	3/16	QBL-1/8-3/16-U	10
	1/4	QBL-1/8-1/4-U	10
	5/16	QBL-1/8-5/16-U	10
1/4 NPT	5/32	QBL-1/4-5/32-U	10
	3/16	QBL-1/4-3/16-U	10
	1/4	QBL-1/4-1/4-U	10
	5/16	QBL-1/4-5/16-U	10
	3/8	QBL-1/4-3/8-U	5
3/8 NPT	1/2	QBL-1/4-1/2-U	5
	1/4	QBL-3/8-1/4-U	5
	5/16	QBL-3/8-5/16-U	5
	3/8	QBL-3/8-3/8-U	5
1/2 NPT	1/2	QBL-3/8-1/2-U	5
	1/2	QBL-1/2-1/2-U	5

Push-in L-fitting QBLV-...-U

Rotatable 360°, male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
UNF thread with sealing ring			
10-32 UNF	1/8	QBLV-10/32-1/8-U	10
	5/32	QBLV-10/32-5/32-U	10
	3/16	QBLV-10/32-3/16-U	10
	1/4	QBLV-10/32-1/4-U	10
NPT thread			
1/8 NPT	5/32	QBLV-1/8-5/32-U	10
	3/16	QBLV-1/8-3/16-U	10
	1/4	QBLV-1/8-1/4-U	10
	5/16	QBLV-1/8-5/16-U	10
1/4 NPT	5/32	QBLV-1/4-5/32-U	10
	3/16	QBLV-1/4-3/16-U	10
	1/4	QBLV-1/4-1/4-U	10
	5/16	QBLV-1/4-5/16-U	10
3/8 NPT	3/8	QBLV-1/4-3/8-U	5
	1/2	QBLV-1/4-1/2-U	5
	3/16	QBLV-3/8-3/16-U	10
	1/4	QBLV-3/8-1/4-U	5
1/2 NPT	5/16	QBLV-3/8-5/16-U	5
	3/8	QBLV-3/8-3/8-U	5
	1/2	QBLV-3/8-1/2-U	5
	1/2	QBLV-1/2-1/2-U	5

¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Push-in Fittings QB, BasicLine – Inch Series

Ordering Data

FESTO

Push-in T-fitting QBT-...-U

Rotatable 360°, male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
UNF thread with sealing ring			
10-32 UNF	1/8	QBT-10/32-UNF-1/8-U	10
	5/32	QBT-10/32-UNF-5/32-U	10
	3/16	QBT-10/32-UNF-3/16-U	10
	1/4	QBT-10/32-UNF-1/4-U	10
NPT thread			
1/8 NPT	1/8	QBT-1/8-1/8-U	10
	5/32	QBT-1/8-5/32-U	10
	3/16	QBT-1/8-3/16-U	10
	1/4	QBT-1/8-1/4-U	10
	5/16	QBT-1/8-5/16-U	10
	3/8	QBT-1/8-3/8-U	5
1/4 NPT	5/32	QBT-1/4-5/32-U	10
	3/16	QBT-1/4-3/16-U	10
	1/4	QBT-1/4-1/4-U	10
	5/16	QBT-1/4-5/16-U	5
	3/8	QBT-1/4-3/8-U	5
	3/8	QBT-1/4-1/2-U	5
3/8 NPT	3/16	QBT-3/8-3/16-U	5
	1/4	QBT-3/8-1/4-U	5
	5/16	QBT-3/8-5/16-U	5
	3/8	QBT-3/8-3/8-U	5
	1/2	QBT-3/8-1/2-U	5
1/2 NPT	3/8	QBT-1/2-3/8-U	5
	1/2	QBT-1/2-1/2-U	5

Push-in T-fitting QBTL-...-U

Rotatable 360°, male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
UNF thread with sealing ring			
10-32 UNF	5/32	QBTL-10/32-5/32-U	10
	3/16	QBTL-10/32-3/16-U	10
	1/4	QBTL-10/32-1/4-U	10
NPT thread			
1/8 NPT	5/32	QBTL-1/8-5/32-U	10
	3/16	QBTL-1/8-3/16-U	10
	1/4	QBTL-1/8-1/4-U	10
	5/16	QBTL-1/8-5/16-U	10
	3/8	QBTL-1/8-3/8-U	5
1/4 NPT	5/32	QBTL-1/4-5/32-U	10
	3/16	QBTL-1/4-3/16-U	10
	1/4	QBTL-1/4-1/4-U	10
	5/16	QBTL-1/4-5/16-U	10
	3/8	QBTL-1/4-3/8-U	5
	1/2	QBTL-1/4-1/2-U	5
3/8 NPT	3/16	QBTL-3/8-3/16-U	10
	1/4	QBTL-3/8-1/4-U	10
	5/16	QBTL-3/8-5/16-U	10
	3/8	QBTL-3/8-3/8-U	5
	1/2	QBTL-3/8-1/2-U	5
1/2 NPT	3/8	QBTL-1/2-3/8-U	5
	1/2	QBTL-1/2-1/2-U	5

¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Push-in Fittings QB, BasicLine – Inch Series

Ordering Data

Push-in T-fitting QBY-...-U

Rotatable 360°, male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
UNF thread with sealing ring			
10-32 UNF	5/32	QBY-10/32-5/32-U	10
	3/16	QBY-10/32-3/16-U	10
	1/4	QBY-10/32-1/4-U	10
NPT thread			
1/8 NPT	5/32	QBY-1/8-5/32-U	10
	3/16	QBY-1/8-3/16-U	10
	1/4	QBY-1/8-1/4-U	10
	5/16	QBY-1/8-5/16-U	10
	3/8	QBY-1/8-3/8-U	5
1/4 NPT	5/32	QBY-1/4-5/32-U	10
	3/16	QBY-1/4-3/16-U	10
	1/4	QBY-1/4-1/4-U	10
	5/16	QBY-1/4-5/16-U	10
	3/8	QBY-1/4-3/8-U	5
3/8 NPT	1/2	QBY-1/4-1/2-U	5
	3/16	QBY-3/8-3/16-U	10
	1/4	QBY-3/8-1/4-U	10
	5/16	QBY-3/8-5/16-U	10
	3/8	QBY-3/8-3/8-U	5
1/2 NPT	1/2	QBY-3/8-1/2-U	5
	5/16	QBY-1/2-5/16-U	5
	3/8	QBY-1/2-3/8-U	5
1/2 NPT	1/2	QBY-1/2-1/2-U	5

¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Push-in Connectors QB, BasicLine – Inch Series

Ordering Data

FESTO

Push-in Connector QB



Tubing O.D. [in]		Order code	PU ¹⁾
5/32	5/32	QB-5/32T-U	10
3/16	3/16	QB-3/16T-U	10
1/4	1/4	QB-1/4T-U	10
5/16	5/16	QB-5/16T-U	10
3/8	3/8	QB-3/8T-U	10
1/2	1/2	QB-1/2T-U	5
Reducing			
3/16	5/32	QB-3/16T-5/32-U	10
1/4	5/32	QB-1/4T-5/32-U	10
	3/16	QB-1/4T-3/16-U	10
5/16	5/32	QB-5/16T-5/32-U	10
	1/4	QB-5/16T-1/4-U	10
3/8	5/16	QB-3/8T-5/16-U	10
	1/4	QB-3/8T-1/4-U	10
1/2	3/8	QB-1/2T-3/8-U	5

Push-in Bulkhead Connector QBS



Tubing O.D. [in]		Order code	PU ¹⁾
5/32	5/32	QBS-5/32T-U	10
3/16	3/16	QBS-3/16T-U	10
1/4	1/4	QBS-1/4T-U	10
5/16	5/16	QBS-5/16T-U	10
3/8	3/8	QBS-3/8T-U	5
1/2	1/2	QBS-1/2T-U	5

Push-in L-connector QBL



Tubing O.D. [in]		Order code	PU ¹⁾
5/32	5/32	QBL-5/32T-U	10
3/16	3/16	QBL-3/16T-U	10
1/4	1/4	QBL-1/4T-U	10
5/16	5/16	QBL-5/16T-U	10
3/8	3/8	QBL-3/8T-U	10
1/2	1/2	QBL-1/2T-U	5

Push-in T-connector QBT



Tubing O.D. [in]		Order code	PU ¹⁾
5/32	5/32	QBT-5/32T-U	10
3/16	3/16	QBT-3/16T-U	10
1/4	1/4	QBT-1/4T-U	10
5/16	5/16	QBT-5/16T-U	10
3/8	3/8	QBT-3/8T-U	5
1/2	1/2	QBT-1/2T-U	5
1 reducing outlet D2			
1/4	5/32	QBT-1/4T-5/32-U	10
5/16	1/4	QBT-5/16T-1/4-U	10
3/8	1/4	QBT-3/8T-1/4-U	10
	5/16	QBT-3/8T-5/16-U	10
1/2	3/8	QBT-1/2T-3/8-U	5

Push-in Triple T-connector QBT3



Tubing O.D. [in]		Order code	PU ¹⁾
3 reducing outlets D2			
3/16	5/32	QBT3-3/16-5/32T-U	5
1/4	5/32	QBT3-1/4T-5/32-U	5
5/16	5/32	QBT3-5/16T-5/32-U	5
	1/4	QBT3-5/16T-1/4-U	5
3/8	1/4	QBT3-3/8T-1/4-U	5
	5/16	QBT3-3/8T-5/16-U	5

Push-in Y-connector QBY



Tubing O.D. [in]		Order code	PU ¹⁾
5/32	5/32	QBY-5/32T-U	10
3/16	3/16	QBY-3/16T-U	10
1/4	1/4	QBY-1/4T-U	10
5/16	5/16	QBY-5/16T-U	10
3/8	3/8	QBY-3/8T-U	5
1/2	1/2	QBY-1/2T-U	5
2 reducing outlets D2			
3/16	5/32	QBY-3/16T-5/32-U	10
1/4	5/32	QBY-1/4T-5/32-U	10
	3/16	QBY-1/4T-3/16-U	10
5/16	5/32	QBY-5/16T-5/32-U	10
	1/4	QBY-5/16T-1/4-U	10
3/8	1/4	QBY-3/8T-1/4-U	10
	5/16	QBY-3/8T-5/16-U	10
1/2	5/16	QBY-1/2T-5/16-U	5
	3/8	QBY-1/2T-3/8-U	5

¹⁾ Packaging unit per part (minimum ordering quantity).

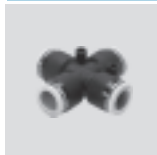
Lead Time LT for all products on this page: **1D** typically ships same day/next day

Push-in Connectors QB, BasicLine – Inch Series

Ordering Data

FESTO

Push-in X-connector QBX



Tubing O.D. [in]		Order code	PU ¹⁾
5/32	5/32	QBX-5/32T-U	10
3/16	3/16	QBX-3/16T-U	10
1/4	1/4	QBX-1/4T-U	10
5/16	5/16	QBX-5/16T-U	5
3/8	3/8	QBX-3/8T-U	5
1/2	1/2	QBX-1/2T-U	5

Push-in Reducer QB



Push-in Sleeve O.D. D1 [in]	Tubing O.D. D2 [in]	Order code	PU ¹⁾
1/8	1/4	QB-1/8H-1/4-T-U	10
5/32	1/8	QB-5/32H-1/8-T-U	10
	1/4	QB-5/32H-1/4-T-U	10
1/4	1/8	QB-1/4H-1/8-T-U	10
	5/32	QB-1/4H-5/32-T-U	10
5/16	5/32	QB-5/16H-5/32-T-U	10
	1/4	QB-5/16H-1/4-T-U	10
3/8	1/4	QB-3/8H-1/4-T-U	10
	5/16	QB-3/8H-5/16-T-U	10
1/2	3/8	QB-1/2H-3/8-T-U	10

Reducing Sleeve QBH



Push-in Sleeve O.D. D1 [in]	Tubing O.D. D2 [in]	Order code	PU ¹⁾
3/16	5/32	QBH-3/16-5/32-U	10
1/4	5/32	QBH-1/4-5/32-U	10
	3/16	QBH-1/4-3/16-U	10
5/16	1/4	QBH-5/16-1/4-U	10
3/8	1/4	QBH-3/8-1/4-U	10
	5/16	QBH-3/8-5/16-U	10
1/2	3/8	QBH-1/2-3/8-U	10

Plug QBC



Push-in Sleeve O.D. D1 [in]	Tubing O.D. D2 [in]	Order code	PU ¹⁾
5/32	5/32	QBC-5/32H-U	10
3/16	3/16	QBC-3/16H-U	10
1/4	1/4	QBC-1/4H-U	10
5/16	5/16	QBC-5/16H-U	10
3/8	3/8	QBC-3/8H-U	10
1/2	1/2	QBC-1/2H-U	10

¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Push-in Fittings QS, Quick Star – Hybrid Series

Ordering Data

FESTO

Push-in Fitting QS-...-I-U-M

Male thread with internal hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
Metric thread with sealing ring			
M5	1/4	QS-M5-1/4-I-U-M	1
R thread			
R1/8	1/4	QS-1/8-1/4-I-U-M	1
	5/16	QS-1/8-5/16-I-U-M	1
R1/4	1/4	QS-1/4-1/4-I-U-M	1
	5/16	QS-1/4-5/16-I-U-M	1
	3/8	QS-1/4-3/8-I-U-M	1
R3/8	5/16	QS-3/8-5/16-I-U-M	1
	3/8	QS-3/8-3/8-I-U-M	1
R1/2	3/8	QS-1/2-3/8-I-U-M	1
	1/2	QS-1/2-1/2-I-U-M	1

Push-in Fitting QSM-...-I-U-M

Male thread with internal hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
Metric thread with sealing ring			
M3	1/8	QSM-M3-1/8-I-U-M	1
	5/32	QSM-M3-5/32-I-U-M	1
	3/16	QSM-M3-3/16-I-U-M	1
M5	1/8	QSM-M5-1/8-I-U-M	1
	5/32	QSM-M5-5/32-I-U-M	1
	3/16	QSM-M5-3/16-I-U-M	1
	1/4	QSM-M5-1/4-I-U-M	1
M7	1/8	QSM-M7-1/8-I-U-M	1
	3/16	QSM-M7-3/16-I-U-M	1
	1/4	QSM-M7-1/4-I-U-M	1

¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Push-in Fittings QS-H, BasicLine – Hybrid Series

Ordering Data

FESTO

Push-in Fitting QS-H...-U-M

Male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
Metric thread with sealing ring			
M5	1/8	QS-H-M5-1/8-U-M	10
	5/32	QS-H-M5-5/32-U-M	10
	3/16	QS-H-M5-3/16-U-M	10
	1/4	QS-H-M5-1/4-U-M	10
M7	1/4	QSM-M7-1/4-U	10
R thread			
R1/8	1/8	QS-H-1/8-1/8-U-M	10
	5/32	QS-H-1/8-5/32-U-M	10
	3/16	QS-H-1/8-3/16-U-M	10
	1/4	QS-H-1/8-1/4-U-M	10
	5/16	QS-H-1/8-5/16-U-M	10
R1/4	3/16	QS-H-1/4-3/16-U-M	10
	1/4	QS-H-1/4-1/4-U-M	10
	5/16	QS-H-1/4-5/16-U-M	10
	3/8	QS-H-1/4-3/8-U-M	10
R3/8	1/4	QS-H-3/8-1/4-U-M	10
	5/16	QS-H-3/8-5/16-U-M	10
	3/8	QS-H-3/8-3/8-U-M	5
	1/2	QS-H-3/8-1/2-U-M	5
R1/2	3/8	QS-H-1/2-3/8-U-M	5
	1/2	QS-H-1/2-1/2-U-M	5

Push-in L-fitting QSL-H...-U-M

Rotatable 360°, male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
Metric thread with sealing ring			
M5	1/8	QSL-H-M5-1/8-U-M	10
	5/32	QSL-H-M5-5/32-U-M	10
	3/16	QSL-H-M5-3/16-U-M	10
	1/4	QSL-H-M5-1/4-U-M	10
		QSML-M5-1/4-U	10
M7	1/4	QSML-M7-1/4-U	10
R thread			
R1/8	1/8	QSL-H-1/8-1/8-U-M	10
	5/32	QSL-H-1/8-5/32-U-M	10
	3/16	QSL-H-1/8-3/16-U-M	10
	1/4	QSL-H-1/8-1/4-U-M	10
	5/16	QSL-H-1/8-5/16-U-M	10
R1/4	3/16	QSL-H-1/4-3/16-U-M	10
	1/4	QSL-H-1/4-1/4-U-M	10
	5/16	QSL-H-1/4-5/16-U-M	10
	3/8	QSL-H-1/4-3/8-U-M	5
R3/8	1/4	QSL-H-3/8-1/4-U-M	5
	5/16	QSL-H-3/8-5/16-U-M	5
	3/8	QSL-H-3/8-3/8-U-M	5
	1/2	QSL-H-3/8-1/2-U-M	5
R1/2	3/8	QSL-H-1/2-3/8-U-M	5
	1/2	QSL-H-1/2-1/2-U-M	5

Push-in T-fitting QST-H...-U-M

Rotatable 360°, male thread with external hex



Thread	Tubing O.D. [in]	Order code	PU ¹⁾
Metric thread with sealing ring			
M5	1/8	QST-H-M5-1/8-U-M	10
	5/32	QST-H-M5-5/32-U-M	10
	3/16	QST-H-M5-3/16-U-M	10
	1/4	QST-H-M5-1/4-U-M	10
R thread			
R1/8	1/8	QST-H-1/8-1/8-U-M	10
	5/32	QST-H-1/8-5/32-U-M	10
	3/16	QST-H-1/8-3/16-U-M	10
	1/4	QST-H-1/8-1/4-U-M	10
	5/16	QST-H-1/8-5/16-U-M	5
R1/4	3/16	QST-H-1/4-3/16-U-M	10
	1/4	QST-H-1/4-1/4-U-M	5
	5/16	QST-H-1/4-5/16-U-M	5
	3/8	QST-H-1/4-3/8-U-M	5
R3/8	1/4	QST-H-3/8-1/4-U-M	5
	5/16	QST-H-3/8-5/16-U-M	5
	3/8	QST-H-3/8-3/8-U-M	5
	1/2	QST-H-3/8-1/2-U-M	5
R1/2	3/8	QST-H-1/2-3/8-U-M	5
	1/2	QST-H-1/2-1/2-U-M	5

¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Push-in Fittings QS, Quick Star – Metric Series

Ordering Data

FESTO

Push-in Fitting QSM

Male thread with external hex



Thread	Tubing O.D. [mm]	Order code	PU ¹⁾
Metric thread with sealing ring			
M5	4	QSM-M5-4	1
	6	QSM-M5-6	1

Push-in fitting QSM-...-I

Male thread with internal hex



Thread	Tubing O.D. [mm]	Order code	PU ¹⁾
Metric thread with sealing ring			
M3	4	QSM-M3-4-I	1
M5	4	QSM-M5-4-I	1
	6	QSM-M5-6-I	1
M7	4	QSM-M7-4-I	1
	6	QSM-M7-6-I	1

Push-in fitting QS

Male thread with external hex



Thread	Tubing O.D. [mm]	Order code	PU ¹⁾
R thread			
R1/8	4	QS-1/8-4	1
	6	QS-1/8-6	1
	8	QS-1/8-8	1
	10	QS-1/8-10	1
R1/4	4	QS-1/4-4	1
	6	QS-1/4-6	1
	8	QS-1/4-8	1
	10	QS-1/4-10	1
	12	QS-1/4-12	1
R3/8	6	QS-3/8-6	1
	8	QS-3/8-8	1
	10	QS-3/8-10	1
	12	QS-3/8-12	1
	16	QS-3/8-16	1
R1/2	10	QS-1/2-10	1
	12	QS-1/2-12	1
	16	QS-1/2-16	1

Push-in fitting QS-...-I

Male thread with internal hex



Thread	Tubing O.D. [mm]	Order code	PU ¹⁾
R thread			
R1/8	4	QS-1/8-4-I	1
	6	QS-1/8-6-I	1
	8	QS-1/8-8-I	1
R1/4	10	QS-1/4-10-I	1

Push-in L-fitting QSL

Rotatable 360°, male thread with external hex



Thread	Tubing O.D. [mm]	Order code	PU ¹⁾
R thread			
R1/8	4	QSL-1/8-4	1
	6	QSL-1/8-6	1
	8	QSL-1/8-8	1
	10	QSL-1/8-10	1
R1/4	4	QSL-1/4-4	1
	6	QSL-1/4-6	1
	8	QSL-1/4-8	1
	10	QSL-1/4-10	1
	12	QSL-1/4-12	1
R3/8	6	QSL-3/8-6	1
	8	QSL-3/8-8	1
	10	QSL-3/8-10	1
	12	QSL-3/8-12	1
	16	QSL-3/8-16	1
R1/2	10	QSL-1/2-10	1
	12	QSL-1/2-12	1
	16	QSL-1/2-16	1

Push-in T-fitting QST

Rotatable 360°, male thread with external hex



Thread	Tubing O.D. [mm]	Order code	PU ¹⁾
R thread			
R1/8	4	QST-1/8-4	1
	6	QST-1/8-6	1
	8	QST-1/8-8	1
	10	QST-1/8-10	1
R1/4	4	QST-1/4-4	1
	6	QST-1/4-6	1
	8	QST-1/4-8	1
	10	QST-1/4-10	1
	12	QST-1/4-12	1
R3/8	6	QST-3/8-6	1
	8	QST-3/8-8	1
	10	QST-3/8-10	1
	12	QST-3/8-12	1
	16	QST-3/8-16	1
R1/2	10	QST-1/2-10	1
	12	QST-1/2-12	1
	16	QST-1/2-16	1

¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Push-in Connectors QS, Quick Star – Metric Series

Ordering Data

FESTO

Push-in Connector QS



Tubing O.D. [mm]		Order code	PU ¹⁾
4	4	QS-4	1
6	6	QS-6	1
8	8	QS-8	1
10	10	QS-10	1
12	12	QS-12	1
16	16	QS-16	1

Push-in L-connector QSL



Tubing O.D. [mm]		Order code	PU ¹⁾
4	4	QSL-4	1
6	6	QSL-6	1
8	8	QSL-8	1
10	10	QSL-10	1
12	12	QSL-12	1
16	16	QSL-16	1

Push-in T-connector QST



Tubing O.D. [mm]		Order code	PU ¹⁾
4	4	QST-4	1
6	6	QST-6	1
8	8	QST-8	1
10	10	QST-10	1
12	12	QST-12	1
16	16	QST-16	1
Reducing D2			
6	4	QST-6-4	1
8	6	QST-8-6	1
10	8	QST-10-8	1
12	10	QST-12-10	1

Push-in Y-connector QSY



Tubing O.D. [mm]		Order code	PU ¹⁾
4	4	QSY-4	1
6	6	QSY-6	1
8	8	QSY-8	1
10	10	QSY-10	1
12	12	QSY-12	1
2 reducing outlets D2			
6	4	QSY-6-4	1
8	6	QSY-8-6	1
10	8	QSY-10-8	1
12	10	QSY-12-10	1

¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Flow Control Valves

Overview

FESTO



- One-way flow control valves for exhaust air flow control
- With male thread M5 ... G1/2, 10-32 UNF ... 1/2NPT and push-in connector Ø 4 ... 12 mm and 5/32 ... 1/2"
- With male and female thread G1/8 ... G1/2, 3/8NPT ... 1/2NPT
- Polymer and metal designs
- Many more variants and dimensions available via www.festo.com/catalog/grla

Detailed product information → www.festo.com/catalog/grla

Product Range Overview – Inch Series				
Type	Adjustment	Material	Connection	
			Thread	For tubing O.D. [in] ²⁾
Flow control valve with QS push-in connector ¹⁾				
GRLA-...-QS-...-U	via slotted head screw	Polymer	10-32 UNF, 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	5/32, 1/4, 5/16, 3/8, 1/2
Flow control valve with QB BasicLine push-in connector ¹⁾				
GRLA-...-QB-...-U	via knurled head screw	Polymer	10-32 UNF, 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	1/8, 5/32, 1/4, 5/16, 3/8, 1/2
Flow control valve with 2 QB BasicLine push-in connectors ¹⁾				
GR-...-QB-...-U	via knurled head screw	Polymer	–	5/32, 3/16, 1/4, 5/16, 3/8, 1/2
Flow control valve with female thread connection				
GRLA-...-NPT-B	via slotted head screw	Metal	3/8NPT, 1/2NPT	–

Product Range Overview – Metric Series				
Type	Adjustment	Material	Connection	
			Thread	For tubing O.D. [mm] ¹²⁾
Flow control valve with QS push-in connector ¹⁾				
GRLA-...-QS-...-RS-D	via knurled screw	Metal	M5, G1/8	4, 6
GRLA-...-QS-...-RS-B	via knurled screw	Polymer	G1/8, G1/4, G3/8	6, 8
GRLA-...-QS-...-D	via slotted head screw	Metal	G1/2	12
Flow control valve with female thread connection				
GRLA-...-RS-B	via knurled screw	Metal	G1/8, G1/4	–
GRLA-...-B	via slotted head screw	Metal	G1/8, G1/4, G3/8, G1/2	–

1) Rotatable 360° around the screw-in axis after installation.

2) Different threaded connections are assigned more than one QS push-in connector size.

Flow Control Valves – Inch Series

Ordering Data

FESTO

Ordering Data – Flow Control Valves with QS Push-in Connector				
	Thread	QS push-in connector [in]	Order code	PU ¹⁾
Exhaust air flow control via knurled screw				
	10-32 UNF	5/32	GRLA-10-32-UNF-QS-5/32-U	1
		1/4	GRLA-10-32-UNF-QS-1/4-U	1
	1/8 NPT	5/32	GRLA-1/8-NPT-QS-5/32-U	1
		1/4	GRLA-1/8-NPT-QS-1/4-U	1
	3/8 NPT	1/4	GRLA-3/8-NPT-QS-1/4-U	1
		5/16	GRLA-3/8-NPT-QS-5/16-U	1
		3/8	GRLA-3/8-NPT-QS-3/8-U	1
		1/2	GRLA-3/8-NPT-QS-1/2-U	1
	1/2 NPT	3/8	GRLA-1/2-NPT-QS-3/8-U	1
		1/2	GRLA-1/2-NPT-QS-1/2-U	1

Ordering Data – Flow Control Valves with QB BasicLine Push-in Connector				
	Thread	QS push-in connector [in]	Order code	PU ¹⁾
Exhaust air flow control via knurled screw				
	10-32 UNF	1/8	GRLA-10-32-UNF-QB-1/8-U	5
		5/32	GRLA-10-32-UNF-QB-5/32-U	5
		3/16	GRLA-10-32-UNF-QB-3/16-U	5
		1/4	GRLA-10-32-UNF-QB-1/4-U	5
	1/8 NPT	5/32	GRLA-1/8-NPT-QB-5/32-U	5
		3/16	GRLA-1/8-NPT-QB-3/16-U	5
		1/4	GRLA-1/8-NPT-QB-1/4-U	5
		5/16	GRLA-1/8-NPT-QB-5/16-U	5
	1/4 NPT	5/32	GRLA-1/4-NPT-QB-5/32-U	5
		3/16	GRLA-1/4-NPT-QB-3/16-U	5
		1/4	GRLA-1/4-NPT-QB-1/4-U	5
		5/16	GRLA-1/4-NPT-QB-5/16-U	5
	3/8 NPT	3/8	GRLA-1/4-NPT-QB-3/8-U	10
		3/16	GRLA-3/8-NPT-QB-3/16-U	10
		1/4	GRLA-3/8-NPT-QB-1/4-U	10
		5/16	GRLA-3/8-NPT-QB-5/16-U	10
	1/2 NPT	3/8	GRLA-3/8-NPT-QB-3/8-U	10
		1/2	GRLA-3/8-NPT-QB-1/2-U	10
		5/16	GRLA-1/2-NPT-QB-5/16-U	10
		3/8	GRLA-1/2-NPT-QB-3/8-U	10
		1/2	GRLA-1/2-NPT-QB-1/2-U	10

Ordering Data – Flow Control Valves with QB BasicLine Push-in Connector			
	QS push-in connector [in]	Order code	PU ¹⁾
Exhaust air flow control via knurled screw			
	5/32	GR-QB-5/32-U	10
	3/16	GR-QB-3/16-U	10
	1/4	GR-QB-1/4-U	10
	5/16	GR-QB-5/16-U	5
	3/8	GR-QB-3/8-U	5
	1/2	GR-QB-1/2-U	5

Ordering Data – Flow Control Valves with Female Thread				
	Screw-in thread	Connecting thread	Order code	PU ¹⁾
Exhaust air flow control via slotted head screw				
	3/8 NPT	3/8 NPT	GRLA-3/8-NPT-B	1
	1/2 NPT	1/2 NPT	GRLA-1/2-NPT-B	1

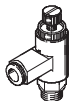
¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Flow Control Valves – Metric Series

Ordering Data

FESTO

Ordering Data – Flow Control Valves with QS Push-in Connector				
	Thread	QS push-in connector [mm]	Order code	PU ¹⁾
Exhaust air flow control via knurled screw, low flow				
	M5	4	GRLA-M5-QS-4-RS-D	1
		6	GRLA-M5-QS-6-RS-D	1
	G1/8	4	GRLA-1/8-QS-4-RS-D	1
		6	GRLA-1/8-QS-6-RS-D	1
Exhaust air flow control via knurled screw				
	G1/8	6	GRLA-1/8-QS-6-RS-B	1
		8	GRLA-1/8-QS-8-RS-B	1
	G1/4	6	GRLA-1/4-QS-6-RS-B	1
		8	GRLA-1/4-QS-8-RS-B	1
	G3/8	6	GRLA-3/8-QS-6-RS-B	1
		8	GRLA-3/8-QS-8-RS-B	1
Exhaust air flow control via slotted head screw, low flow				
	G1/2	12	GRLA-1/2-QS-12-D	1

Ordering Data – Flow Control Valves with Female Thread				
	Screw-in thread	Connecting thread	Order code	PU ¹⁾
Exhaust air flow control via slotted head screw				
	G1/8	G1/8	GRLA-1/8-B	1
	G1/4	G1/4	GRLA-1/4-B	1
	G3/8	G3/8	GRLA-3/8-B	1
	G1/2	G1/2	GRLA-1/2-B	1
Exhaust air flow control via knurled screw				
	G1/8	G1/8	GRLA-1/8-RS-B	1
	G1/4	G1/4	GRLA-1/4-RS-B	1

¹⁾ Packaging unit per part (minimum ordering quantity).

Lead Time LT for all products on this page: **1D** typically ships same day/next day

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Silencers

Overview

FESTO



- Compact design
- High flow rates up to 19,900 l/min (700 scfm)
- Wide range of variants:
M3 to M7, G1/8 to G1, 1/8NPT to 1/2NPT and barbed connector

Detailed product information → www.festo.com/catalog/u

Product Range Overview				
Function	Type	Version	Pneumatic connection	→ Page
Silencer	U	Sintered metal	M3, M5	296
		Polymer	G1/8, G1/4, G3/8, G1/2, G3/4, G1	
		Die-cast metal	G1/8, G1/4, G3/8, G1/2, G3/4, G1	
		Die-cast metal	1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT	
	UC	Polyethylene	M5, M7	
			G1/8, G1/4	
	U-PK	Brass / bronze	Barbed connector PK-3, PK-4	

Operating Conditions		
Operating pressure	[bar]	0 ... 10
	[psi]	0 ... 147
Ambient temperature ¹⁾	[°C]	-10 ... +70
	[°F]	14 ... 158

1) Note operating range of tubing used.

Note:

Clean silencers with kerosene or benzene (not with trichloroethylene).

Silencers U/UC

Ordering Data

FESTO

Silencers U			
Pneumatic connection	Noise level ¹⁾ [dB (A)]	Order code	PU ²⁾
Sintered metal			
M3	< 65	U-M3	10
M5	< 70	U-M5	10
Polymer			
G ¹ / ₈ (external thread)	< 77	U-¹/₈	1
G ¹ / ₈ (internal thread)	< 77	U-¹/₈-I	1
G ¹ / ₄	< 77	U-¹/₄	1
G ³ / ₈	< 82	U-³/₈	1
G ¹ / ₂	< 80	U-¹/₂	1
G ³ / ₄	< 83	U-³/₄	1
G1	< 84	U-1	1
Die-cast metal			
G ¹ / ₈	< 74	U-¹/₈-B	1
G ¹ / ₄	< 79	U-¹/₄-B	1
G ³ / ₈	< 80	U-³/₈-B	1
G ¹ / ₂	< 80	U-¹/₂-B	1
G ³ / ₄	< 81	U-³/₄-B	1
G1	< 82	U-1-B	1
¹ / ₈ NPT	< 74	U-¹/₈-B-NPT	1
¹ / ₄ NPT	< 79	U-¹/₄-B-NPT	1
³ / ₈ NPT	< 80	U-³/₈-B-NPT	1
¹ / ₂ NPT	< 80	U-¹/₂-B-NPT	1

1) At 6 bar with respect to atmosphere at a distance of 1 m.

2) Packaging unit quantity.

Silencers U-PK			
Pneumatic connection	Noise level ¹⁾ [dB (A)]	Order code	PU ²⁾
Brass / bronze, with barbed connector			
PK-3	< 70	U-PK-3	10
PK-4	< 74	U-PK-4	10

Silencers UC			
Pneumatic connection	Noise level ¹⁾ [dB (A)]	Order code	PU ²⁾
Polyethylene			
M5	< 60	UC-M5	1
M7	< 58	UC-M7	1
G ¹ / ₈	< 59	UC-¹/₈	1
G ¹ / ₄	< 60	UC-¹/₄	1

1) At 6 bar with respect to atmosphere at a distance of 1 m.

2) Packaging unit quantity.

Plastic Tubing PUN, Standard O.D. – Inch Series

Overview

FESTO



- Standard O.D. tubing, suitable for QS and QB push-in fittings
- Wide range of diameters
- Wide range of colors
- Flexible and kink resistant
- Excellent hydrolysis, oil and cold resistance
- Conforms to NSF requirements

Detailed product information → www.festo.com/catalog/tubing

Product Range Overview				
Type	Material	Outer Ø [in]	Inner Ø [in]	Color
PUN	Polyurethane, ester-based	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2	1/16, 3/32, 1/8, 5/32, 3/16, 1/4, 21/64	blue, yellow, green, clear, red, black, white

Operating Conditions		
Operating medium		Compressed air
		Vacuum
Temperature-dependent operating pressure	[bar]	–0.95 ... +10
	[psi]	28.5 in Hg ... +150
Ambient temperature	[°C]	–35 ... +60
	[°F]	–68 ... +140
Hardness		Shore A 98 +/-3

Plastic Tubing PUN, Standard O.D. – Inch Series

Ordering Data

FESTO

PUN			
O.D. [in]	I.D. [in]	Color	Order code ¹⁾
1/8	1/16	Blue	PUN-1/8X1/32-U-BL
		Yellow	PUN-1/8X1/32-U-GE
		Green	PUN-1/8X1/32-U-GN
		Clear	PUN-1/8X1/32-U-NT
		Red	PUN-1/8X1/32-U-RT
		Black	PUN-1/8X1/32-U-SW
		White	PUN-1/8X1/32-U-WS
5/32	3/32	Blue	PUN-5/32X1/32-U-BL
		Yellow	PUN-5/32X1/32-U-GE
		Green	PUN-5/32X1/32-U-GN
		Clear	PUN-5/32X1/32-U-NT
		Red	PUN-5/32X1/32-U-RT
		Black	PUN-5/32X1/32-U-SW
		White	PUN-5/32X1/32-U-WS
3/16	1/8	Blue	PUN-3/16X1/32-U-BL
		Yellow	PUN-3/16X1/32-U-GE
		Green	PUN-3/16X1/32-U-GN
		Clear	PUN-3/16X1/32-U-NT
		Red	PUN-3/16X1/32-U-RT
		Black	PUN-3/16X1/32-U-SW
		White	PUN-3/16X1/32-U-WS
1/4	5/32	Blue	PUN-1/4X3/64-U-BL
		Yellow	PUN-1/4X3/64-U-GE
		Green	PUN-1/4X3/64-U-GN
		Clear	PUN-1/4X3/64-U-NT
		Red	PUN-1/4X3/64-U-RT
		Black	PUN-1/4X3/64-U-SW
		White	PUN-1/4X3/64-U-WS

1) Packaging quantity is 50 meters / 164 ft

PUN			
O.D. [in]	I.D. [in]	Color	Order code ¹⁾
5/16	3/16	Blue	PUN-5/16X1/16-U-BL
		Yellow	PUN-5/16X1/16-U-GE
		Green	PUN-5/16X1/16-U-GN
		Clear	PUN-5/16X1/16-U-NT
		Red	PUN-5/16X1/16-U-RT
		Black	PUN-5/16X1/16-U-SW
		White	PUN-5/16X1/16-U-WS
3/8	1/4	Blue	PUN-3/8X1/16-U-BL
		Yellow	PUN-3/8X1/16-U-GE
		Green	PUN-3/8X1/16-U-GN
		Clear	PUN-3/8X1/16-U-NT
		Red	PUN-3/8X1/16-U-RT
		Black	PUN-3/8X1/16-U-SW
		White	PUN-3/8X1/16-U-WS
1/2	21/64	Blue	PUN-1/2X3/32-U-BL
		Yellow	PUN-1/2X3/32-U-GE
		Green	PUN-1/2X3/32-U-GN
		Clear	PUN-1/2X3/32-U-NT
		Red	PUN-1/2X3/32-U-RT
		Black	PUN-1/2X3/32-U-SW
		White	PUN-1/2X3/32-U-WS

1) Packaging quantity is 50 meters / 164 ft

Plastic Tubing PUN, Standard O.D. – Metric Series

Overview

FESTO



- Standard O.D. tubing, suitable for QS and QB push-in fittings
- Wide range of diameters
- Wide range of colors
- Flexible and kink resistant
- Free of copper and PTFE
- Conforms to RoHS

Detailed product information → www.festo.com/catalog/tubing

Product Range Overview				
Type	Material	Outer Ø [mm]	Inner Ø [mm]	Color
PUN	Polyurethane, ester-based	3, 4, 6, 8, 10, 12, 16	2.1, 2.6, 4.0, 5.7, 7.0, 8.0, 11.0	blue, yellow, green, red, silver, black

Operating Conditions		
Operating medium		Compressed air
		Vacuum
Temperature-dependent operating pressure	[bar]	–0.95 ... +10
	[psi]	28.5 in Hg ... +150
Ambient temperature	[°C]	–35 ... +60
	[°F]	–68 ... +140
Hardness		Shore D 52 +/-3

Plastic Tubing PUN, Standard O.D. – Metric Series

Ordering Data



PUN			
O.D. [mm]	I.D. [mm]	Color	Order code ¹⁾
3.0	2.1	Blue	PUN-3X0,5-BL
		Yellow	PUN-3X0,5-GE
		Green	PUN-3X0,5-GN
		Red	PUN-3X0,5-RT
		Silver	PUN-3X0,5-SI
		Black	PUN-3X0,5-SW
4.0	2.6	Blue	PUN-4X0,75-BL
		Yellow	PUN-4X0,75-GE
		Green	PUN-4X0,75-GN
		Red	PUN-4X0,75-RT
		Silver	PUN-4X0,75-SI
		Black	PUN-4X0,75-SW
6.0	4.0	Blue	PUN-6X1-BL
		Yellow	PUN-6X1-GE
		Green	PUN-6X1-GN
		Red	PUN-6X1-RT
		Silver	PUN-6X1-SI
		Black	PUN-6X1-SW
8.0	5.7	Blue	PUN-8X1,25-BL
		Yellow	PUN-8X1,25-GE
		Clear	PUN-8X1,25-GN
		Red	PUN-8X1,25-RT
		Silver	PUN-8X1,25-SI
		Black	PUN-8X1,25-SW

1) Packaging quantity is 50 meters / 164 ft

PUN			
O.D. [mm]	I.D. [mm]	Color	Order code ¹⁾
10.0	7.0	Blue	PUN-10X1,5-BL
		Yellow	PUN-10X1,5-GE
		Green	PUN-10X1,5-GN
		Red	PUN-10X1,5-RT
		Silver	PUN-10X1,5-SI
		Black	PUN-10X1,5-SW
12.0	8.0	Blue	PUN-12X2-BL
		Yellow	PUN-12X2-GE
		Green	PUN-12X2-GN
		Red	PUN-12X2-RT
		Silver	PUN-12X2-SI
		Black	PUN-12X2-SW
16.0	11.0	Blue	PUN-16X2,5-BL
		Yellow	PUN-16X2,5-GE
		Green	PUN-16X2,5-GN
		Red	PUN-16X2,5-RT
		Silver	PUN-16X2,5-SI
		Black	PUN-16X2,5-SW

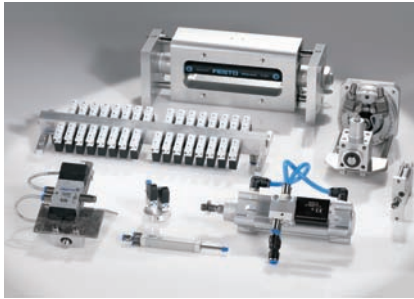
1) Packaging quantity is 50 meters / 164 ft

Lead Time LT for all products on this page: **1D** typically ships same day/next day

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support
and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical
Electromechanical actuators, motors,
controllers & drives



Pneumatics
Pneumatic linear and rotary actuators,
valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors
and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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