Fittings and Tubing

QS Series

Medium Pressure

Pressures to 15,000 psi (1034 bar)

Since 1945 Parker Autoclave Engineers has designed and built premium quality valves, fittings and tubing. This commitment to engineering and manufacturing excellence has earned Parker Autoclave Engineers a reputation for reliable, efficient product performance. Parker Autoclave Engineers has long been established as the world leader in high pressure fluid handling components for the chemical/petrochemical, research, and oil and gas industries.



QS Medium Pressure Fittings and Tubing:

- Available sizes are 1/4, 3/8, 9/16, 3/4 and 1".
- Fittings and tubing manufactured from high strength stainless steel.
- Molybdenum disulfide-coated gland nuts to prevent galling.
- Gland nut positioning mark for assembly.
- Single-ferrule compression sleeve.
- Connection weep holes for safety and leak detection.
- Fast easy make-up of connection.
- Operating Temperatures from 0°F (-17.8°C) to 650°F (343°C).
- 1" QS fitting bodies are 2507 Super Duplex standard.

The Medium Pressure QS Series uses Parker Autoclave Engineers' Quick Set compression sleeve design. This single-ferrule compression sleeve connection delivers fast, easy make-up and reliable bubble-tight performance in liquid or gas service.

Parker

Autoclave Engineers

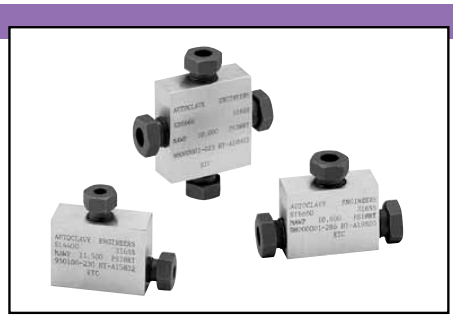
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Fittings and Tubing - QS Series
Medium Pressure

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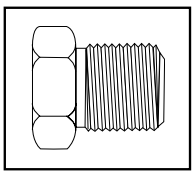
Pressures to 15,000 psi (1034 bar)

Parker Autoclave Engineers Medium Pressure QS Fittings are designed for use with QS Series valves and medium pressure tubing. These fittings feature improved compression connections with larger orifices for excellent flow capabilities. Parker Autoclave Engineers fittings and components are manufactured of high strength stainless steel.

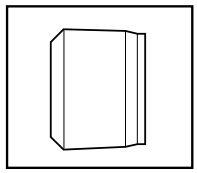


Connection Components

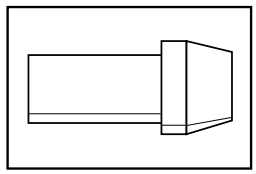
All Parker Autoclave Engineers valves and fittings are supplied complete with appropriate glands and sleeves. To order these components separately, use order numbers listed. When using plug, sleeve is not required.



Gland
QSG ( )



Sleeve
QSS ( )



Plug
QSP ( )

Add tube size ( )
- 1/4" - 40
- 3/8" - 60
- 9/16" - 90
- 3/4" - 120
- 1" - 160

Example:
1/4" Gland - QSG 40

To ensure proper fit use Parker Autoclave Engineers tubing.
For mounting hole option add suffix PM to catalog number.
Consult factory for mounting hole dimensions.

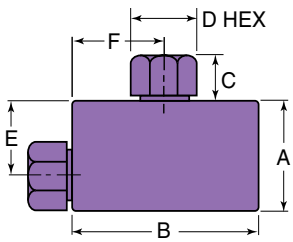
Catalog Number	Connection Type	Outside Diameter Tube	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm)							Block Thickness	Fitting Pattern
					A	B	C	D Typical	E	F	G Thickness		
Elbow													
QSL4400	QS250	1/4 (6.35)	15,000 (1034.20)	0.16 (3.99)	1.38 (34.93)	2.00 (50.80)	0.52 (13.23)	0.63 (15.88)	1.00 (25.40)	1.00 (25.40)		0.75 (19.05)	See Figure 1
QSL6600	QS375	3/8 (9.53)	15,000 (1034.20)	0.25 (6.35)	1.50 (38.10)	2.00 (50.80)	0.55 (14.00)	0.75 (19.05)	1.00 (25.40)	1.00 (25.40)		0.81 (20.62)	
QSL9900	QS562	9/16 (14.29)	15,000 (1034.20)	0.36 (9.12)	2.19 (55.58)	3.00 (76.20)	0.82 (20.83)	1.19 (30.18)	1.50 (38.10)	1.50 (38.10)		1.25 (31.75)	
QSL12	QS750	3/4 (19.05)	15,000 (1034.20)	0.52 (13.11)	2.94 (74.63)	4.13 (104.78)	1.04 (26.37)	1.50 (38.10)	2.06 (52.40)	2.06 (52.40)		1.50 (38.10)	
QSL16	QSF1000	1 (25.4)	15,000 (1034.20)	0.688 (17.48)	3.5 (88.90)	4.75 (120.65)	1.19 (30.18)	1.75 (44.45)	2.38 (60.33)	2.38 (60.33)		2.00 (50.80)	

*Maximum pressure rating is based on the lowest rating of any component.
Actual working pressure may be determined by tubing pressure rating, if lower.

All dimensions for reference only and subject to change.
For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

1" QS fitting bodies are 2507 Super Duplex

Figure 1



Elbow

For mounting hole option add suffix PM to catalog number.
Consult factory for mounting hole dimensions.

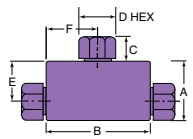
Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Catalog Number	Connection Type	Outside Diameter Tube	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm) A	B	C	D Typical	E	F	G Thickness	Block Thickness	Fitting Pattern
Tee													
QST4440	QS250	1/4 (6.35)	15,000 (1034.20)	0.16 (3.99)	1.38 (34.93)	2.00 (50.80)	0.52 (13.23)	0.63 (15.88)	1.00 (25.40)	1.00 (25.40)		0.75 (19.05)	See Figure 2
QST6660	QS375	3/8 (9.53)	15,000 (1034.20)	0.25 (6.35)	1.50 (38.10)	2.00 (50.80)	0.55 (14.00)	0.75 (19.05)	1.00 (25.40)	1.00 (25.40)		0.81 (20.62)	
QST9990	QS562	9/16 (14.29)	15,000 (1034.20)	0.36 (9.12)	2.19 (55.58)	3.00 (76.20)	0.82 (20.83)	1.19 (30.18)	1.50 (38.10)	1.50 (38.10)		1.25 (31.75)	
QST12	QS750	3/4 (19.05)	15,000 (1034.20)	0.52 (13.11)	2.94 (74.63)	4.13 (104.78)	1.04 (26.37)	1.50 (38.10)	2.06 (52.40)	2.06 (52.40)		1.50 (38.10)	
QST16	QSF1000	1 (25.4)	15,000 (1034.20)	0.688 (17.48)	3.50 (88.90)	4.75 (120.65)	1.19 (30.18)	1.75 (44.45)	2.38 (60.33)	2.38 (60.33)		2.00 (50.80)	
Cross													
QSX4444	QS250	1/4 (6.35)	15,000 (1034.20)	0.16 (3.99)	2.00 (50.80)	2.00 (50.80)	0.52 (13.23)	0.63 (15.88)	1.00 (25.40)	1.00 (25.40)		0.75 (19.05)	See Figure 3
QSX6666	QS375	3/8 (9.53)	15,000 (1034.20)	0.25 (6.35)	2.00 (50.80)	2.00 (50.80)	0.55 (14.00)	0.75 (19.05)	1.00 (25.40)	1.00 (25.40)		0.81 (20.62)	
QSX9999	QS562	9/16 (14.29)	15,000 (1034.20)	0.36 (9.12)	3.00 (76.20)	3.00 (76.20)	0.82 (20.83)	1.19 (30.18)	1.50 (38.10)	1.50 (38.10)		1.25 (31.75)	
QSX12	QS750	3/4 (19.05)	15,000 (1034.20)	0.52 (13.11)	4.13 (104.78)	4.13 (104.78)	1.04 (26.37)	1.50 (38.10)	2.06 (52.40)	2.06 (52.40)		1.50 (38.10)	
QSX16	QSF1000	1 (25.4)	15,000 (1034.20)	0.688 (17.48)	4.75 (120.65)	4.75 (104.78)	1.19 (30.18)	1.75 (44.45)	2.38 (60.33)	2.38 (60.33)		2.00 (50.80)	

For mounting hole option add suffix PM to catalog number. Consult factory for mounting hole dimensions.

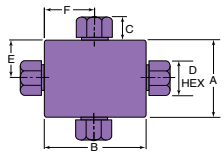
1" QS fitting bodies are 2507 Super Duplex

Figure 2



Tee

Figure 3



Cross

Catalog Number	Connection Type	Outside Diameter Tube	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm) A	B	C	D Typical	E	F	G Thickness	Block Thickness	Fitting Pattern
Straight Coupling													
15F44QQ	QS250	1/4 (6.35)	15,000 (1034.20)	0.16 (3.99)	0.75 (19.05)	1.63 (41.28)	0.52 (13.23)	0.63 (15.88)	Straight				See Figure 4
15F66QQ	QS375	3/8 (9.53)	15,000 (1034.20)	0.25 (6.35)	0.81 (20.65)	1.75 (44.45)	0.55 (14.00)	0.75 (19.05)	Straight				
15F99QQ	QS562	9/16 (14.29)	15,000 (1034.20)	0.36 (9.12)	1.38 (34.93)	2.75 (69.85)	0.82 (20.83)	1.19 (30.18)	Straight				
15F12Q	QS750	3/4 (19.05)	15,000 (1034.20)	0.52 (13.11)	1.50 (38.10)	3.75 (95.25)	1.04 (26.37)	1.50 (38.10)	Straight				
15F16Q	QSF1000	1 (25.4)	15,000 (1034.20)	0.688 (17.48)	2.75 (69.85)	4.50 (114.30)	1.19 (30.23)	1.75 (44.45)	Straight				
Bulkhead Coupling													
15BF44QQ	QS250	1/4 (6.35)	15,000 (1034.20)	0.16 (3.99)	0.88 (22.23)	2.00 (50.80)	0.52 (13.23)	0.63 (15.88)	0.63 (15.88)	1.00 (25.40)	0.38 (9.53)		See Figure 5
15BF66QQ	QS375	3/8 (9.53)	15,000 (1034.20)	0.25 (6.35)	1.06 (27.00)	2.38 (60.33)	0.55 (14.00)	0.75 (19.05)	0.79 (19.94)	1.38 (34.93)	0.38 (9.53)		
15BF99QQ	QS562	9/16 (14.29)	15,000 (1034.20)	0.36 (9.12)	1.63 (41.40)	2.63 (66.68)	0.82 (20.83)	1.19 (30.18)	0.91 (22.99)	1.75 (44.45)	0.38 (9.53)		
15BF12Q	QS750	3/4 (19.05)	15,000 (1034.20)	0.52 (13.11)	1.88 (47.63)	3.50 (88.90)	1.04 (26.37)	1.50 (38.10)	1.50 (38.10)	2.13 (53.98)	0.38 (9.53)		
15BF16Q	QSF1000	1 (25.4)	15,000 (1034.20)	0.688 (17.48)	2.38 (60.33)	5.00 (127.00)	1.19 (30.23)	1.75 (44.45)	2.00 (50.80)	1.88† (47.63)	0.38 (9.53)		

*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

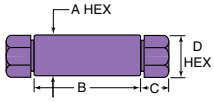
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Union Couplings are designed with a removable seat insert allowing disassembly and tubing removal without the necessity of loosening other items in a line.

1" QS fitting bodies are 2507 Super Duplex

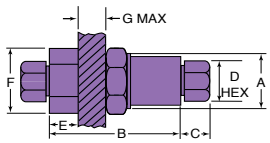
† Distance across flats

Figure 4



Straight Coupling

Figure 5



Bulkhead Coupling