Ball Valves

2-Way QS Series

Pressures to 15,000 psi (1034 bar)

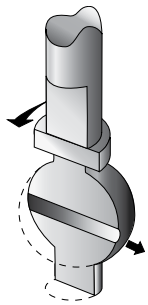
Parker Autoclave Engineers high-pressure ball valves have been designed to provide superior quality for maximum performance within a variety of valve styles, sizes, and process connections. Some of the more unique design innovations include an integral one-piece trunnion mounted style ball and stem that eliminates the shear failure common in two piece designs, re-torqueable seat glands that result in longer seat life, and a low friction stem seal that reduces actuation torque and enhances cycle life.

These ball valves can also be modified to incorporate the use of special materials, seals for high temperature applications, subsea models, and valve actuators.

When it comes to high-pressure applications, these ball valves with the associated high-pressure components, provide the critical performance demanded by the high pressure market.



Flow Configuration



Two-Way
Shut-Off

AE Ball Valve Features:

- One-piece, trunnion mounted style, stem design eliminates shear failure and reduces the effects of side loading found in two piece designs.
- Re-torqueable seat glands for longer seat life.
- PEEK seats offer excellent resistance to chemicals, heat, and wear/abrasion.
- Full-port flow path minimizes pressure drop.
- 316 cold worked stainless steel valve construction.
- Low friction pressure assisted graphite filled PTFE stem seal increases cycle life and reduces operating torque.
- Quarter turn from open to close with positive stop.
- Viton o-rings for operation from 0°F (-17.8°C) to 400°F (204°C).
- Optional o-rings available for high-temperature applications.
- Electric and pneumatic actuator options.

Applications:

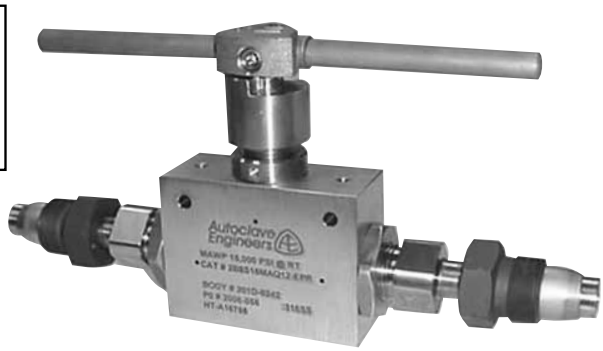
- Laboratories
- Test Stands
- Control Panels
- Chemical Research
- Pilot Plants
- Water Blast Pumping Units
- High volume chemical injection skids.

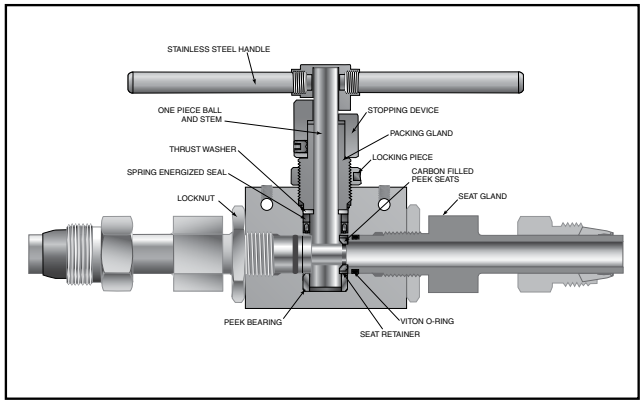
Ball Valves - 1/2" 2-Way QS Series

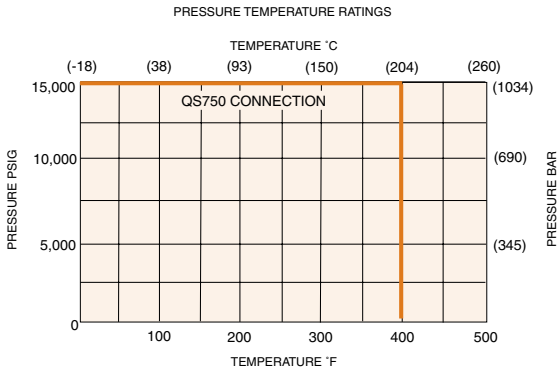
Pressures to 15,000 psi (1034 bar) .500" (12.7mm) Orifice

Connection	MAWP @ Room Temperature	Minimum Orifice Inches (mm)
Male QS750	15,000 psi (1034 bar) Valve C_V=10.20	.500 (12.70)

MAWP: Maximum Allowable Working Pressure







NOTE: Ball valves are not recommended for critical gas applications such as Hydrogen, Helium or other small molecular gases.

Ordering Procedure

For complete information on available end connections see complete catalog.

Typical catalog number: **2B 8 S 15 MAQ12 — XXX**

2B	8	S	15	MAQ12	XXX
Valve Series **2B:** 2-way	**Ball Orifice Diameter** **8**-1/2" (12.7 mm)	**Material** **S** -316SS	**Pressure (X 1000 psi)**	**End Connection** **MAQ12** - Male QS750 (See Chart on next page)	**Options** **HT** - High Temperature (Ball Valve Acutators, see next page.)

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

End Connection Options

Catalog Number	End Connection Number	Connection	MAWP @ Room Temperature	Seat Gland Square Inches(mm)
2B8S15MAQ12	MAQ12	Male QS750	15,000 psi (1034 bar)	1.19 (30.2)

MAWP: Maximum Allowable Working Pressure

Ball Valve Options

Pneumatic Actuator

AO - Air-to-open/spring to close
AC - Air-to-close/spring to open
AOC - Air-to-open-and-close (double action)

Electric Actuator

EO1 - 120 volt AC 50/60 Hz
EO2 - 220 volt AC 50/60 Hz
EO3 - 24 VDC

Actuator Operating Temperature:

Pneumatic: -20˚F to 175˚F (-29˚C to 79˚C)
Electric: -20˚F to 160˚F (-29˚C to 71˚C)

High Temperature Option:

HT - for media temperature up to 500˚F (260˚C)

See ball valve Actuator section for full description, additional information, and options.

Valve Maintenance

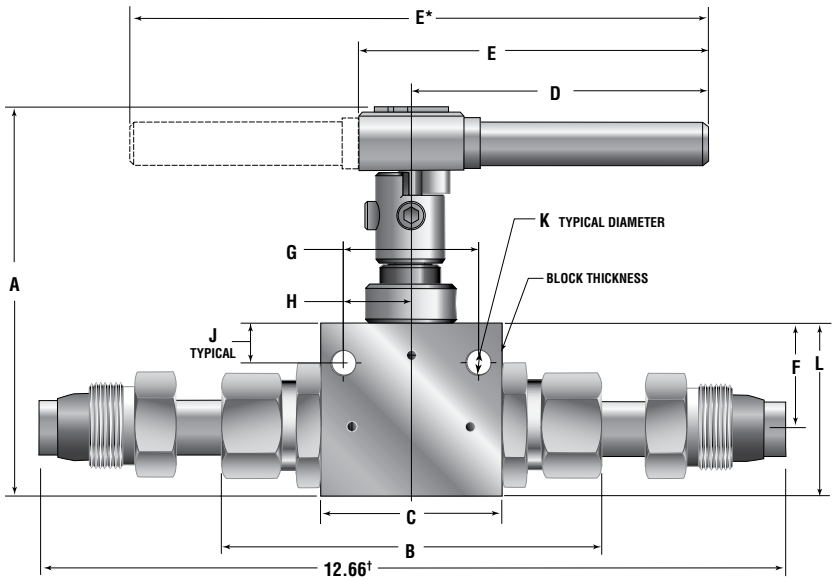
Repair Kits: add "**R**" to the front of valve catalog first 4 numbers for proper repair kit. (Example: **R2B8S**)

Consult your Parker Autoclave Engineers representative for pricing on repair kits. Refer to the Operation and Maintenance manual for proper maintenance procedures.

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

Ball Valve Dimensions - inches (mm)

	VALVE MODELS		
	2B4S	2B6S	2B8S
A	4.33 (109.99)	4.97 (126.30)	5.97 (151.64)
B	4.19 (106.49)	5.53 (140.41)	6.85 (173.99)
C	2.00 (50.80)	3.00 (76.20)	4.13 (104.78)
D	3.37 (85.55)	4.99 (126.82)	5.12 (130.04)
E	3.90 (99.02)	*10.25 (260.35)	
F	1.13 (28.58)	1.38 (34.92)	1.76 (44.70)
G	1.50 (38.10)	2.00 (50.80)	3.00 (76.20)
H	0.75 (19.05)	1.00 (25.40)	1.50 (38.10)
J	0.43 (10.92)	0.41 (10.31)	0.50 (12.70)
K	0.28 (7.11)	0.28 (7.11)	0.28 (7.11)
L	1.91 (48.41)	2.50 (63.50)	3.09 (78.58)
Block Thickness	1.00 (25.40)	1.38 (34.92)	1.75 (44.45)

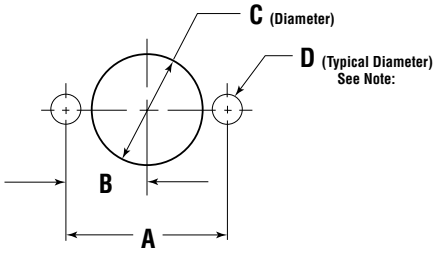


†2B8S15MAQ12 Valve Only

Ball Valve Panel Mounting Dimensions - inches (mm)

	VALVE MODELS		
	2B4S	2B6S	2B8S
A	1.500 (38.10)	2.000 (50.80)	3.000 (76.20)
B	0.750 (19.05)	1.000 (25.40)	1.500 (38.10)
C	1.06 (26.92)	1.50 (38.10)	1.88 (47.63)
D	0.28 (7.11)	0.28 (7.11)	0.28 (7.11)

Note: Body mounting 1/4" - 20 thread



All dimensions are for reference only
and are subject to change without notice.

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