

Ball Valves

2-Way Series

Pressures to 20,000 psi (1379 bar)

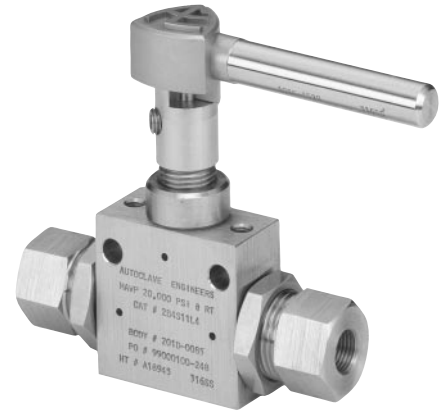
Autoclave Engineers high-pressure ball valves have been designed to provide superior quality for maximum performance within a variety of valve styles, sizes, and process connections. Some of the more unique design innovations include an integral one-piece trunnion mounted style ball and stem that eliminates 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.

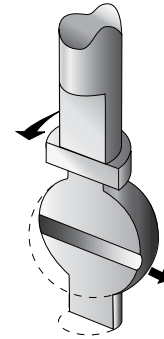
When it comes to high-pressure applications, these ball valves with the associated high-pressure components, provide the critical performance demanded by the high pressure market.

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 construction.
- Low friction pressure assisted graphite filled Teflon 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.
- Optional wetted materials.
- Wide selection of tube and pipe end fittings available.
- Electric and pneumatic actuator options.



Flow Configuration



Two-Way
Shut-Off

Applications:

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

**Autoclave
Engineers**

Fluid Components
Division of Snap-tite, Inc.
www.autoclaveengineers.com

End Connection Options

Catalog Number	End Connection Number	Connection	MAWP @ Room Temperature	Hex Inches(mm)
2B4S15L2	L2	W125	15,000 psi (1034 bar)	1 (25.40)
2B4S15L4	L4	SW250	15,000 psi (1034 bar)	1 (25.40)
2B4S15L6	L6	SW375	15,000 psi (1034 bar)	1 (25.40)
2B4S10L8	L8	SW500	10,000 psi (690 bar)	1 (25.40)
2B4S20M4	M4	SF250CX20	20,000 psi (1379 bar)	1 (25.40)
2B4S20M6	M6	SF375CX20	20,000 psi (1379 bar)	1 (25.40)
2B4S20M9	M9	SF562CX20	20,000 psi (1379 bar)	1 (25.40)
2B4S20H4	H4	F250C	20,000 psi (1379 bar)	1 (25.40)
2B4S20H6	H6	F375C	20,000 psi (1379 bar)	1 (25.40)
2B4S20H9	H9	F562C	20,000 psi (1379 bar)	1.38 (35.05)
2B4S10P2	P2	1/8" NPT	10,000 psi (690 bar)	1 (25.40)
2B4S10P4	P4	1/4" NPT	10,000 psi (690 bar)	1 (25.40)
2B4S10P6	P6	3/8" NPT	10,000 psi (690 bar)	1 (25.40)
2B4S10P8	P8	1/2" NPT	10,000 psi (690 bar)	1.38 (35.05)

MAWP: Maximum Allowable Working Pressure

See ball valve option/details section for end connection details, material, and high temperature options.

Ball Valve Options

Pneumatic Actuator

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

Electric Actuator

- EO1 - 120 volt AC 50/60 Hz
- EO2 - 220 volt AC 50/60 Hz

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: **R2B4S**)

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

End Connection Options

Catalog Number	End Connection Number	Connection	MAWP @ Room Temperature	Hex Inches(mm)
2B6S10L8	L8	SW500	10,000 psi (690 bar)	1.38 (35.05)
2B6S20M6	M6	SF375CX20	20,000 psi (1379 bar)	1.38 (35.05)
2B6S20M9	M9	SF562CX20	20,000 psi (1379 bar)	1.38 (35.05)
2B6S20M12	M12	SF750CX20	20,000 psi (1379 bar)	1.38 (35.05)
2B6S10P4	P4	1/4" NPT	10,000 psi (690 bar)	1.38 (35.05)
2B6S10P6	P6	3/8" NPT	10,000 psi (690 bar)	1.38 (35.05)
2B6S10P8	P8	1/2" NPT	10,000 psi (690 bar)	1.38 (35.05)

MAWP: Maximum Allowable Working Pressure

See ball valve option/details section for end connection details, material, and high temperature options.

Ball Valve Options

Pneumatic Actuator

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

Electric Actuator

EO1 - 120 volt AC 50/60 Hz
EO2 - 220 volt AC 50/60 Hz

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: **R2B6S**)

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

End Connection Options

Catalog Number	End Connection Number	Connection	MAWP @ Room Temperature	Hex Inches(mm)
2B8S10M12	M12	SF750CX20	10,000 psi (690 bar)	1.75 (44.5)
2B8S10M16	M16	SF1000CX20	10,000 psi (690 bar)	1.75 (44.5)
2B8S10P12	P12	3/4" NPT	10,000 psi (690 bar)	1.75 (44.5)
2B8S10P16	P16	1" NPT	10,000 psi (690 bar)	1.75 (44.5)

MAWP: Maximum Allowable Working Pressure

See ball valve option/details section for end connection details, material, and high temperature options.

Ball Valve Options

Pneumatic Actuator

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

Electric Actuator

EO1 - 120 volt AC 50/60 Hz
EO2 - 220 volt AC 50/60 Hz

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

