

TLB Series Ball Valve



Introduction

These high performance bi-directional Ball Valves offer the user full cold working pressure ratings up to 1,000 psi (69 bar), giving 100% bubble tight shut off and continuous repeatable performance. The Ball Valves are suitable for the most demanding applications in oil and gas, petrochemicals, hydrogen industry, power generation, general industry, and other process control fields. All valves also meet the requirements of ANSI B31.1 for use in power plants.

Features

- Low torque operation
- Quarter turn positive stop handle
- Bi-directional
- Anti blowout stem
- Bubble tight shutoff
- Body is made from bar material
- Material complies with NACE MR 0175 & MR 0103
- 3.1 certificate is available
- 100% air tightness testing
- Handle with locking function is available
- Various threaded connections are available, including tube compression and NPT



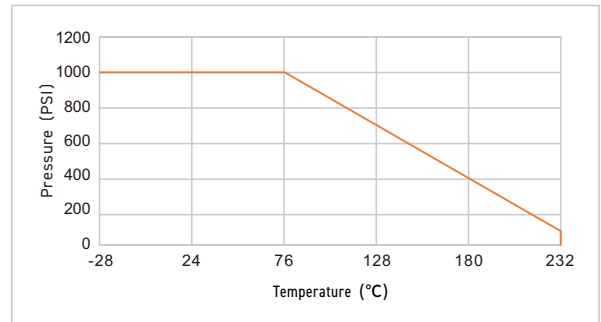
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TLB Ball Valve

for up to 1,000 psi/69 bar operations

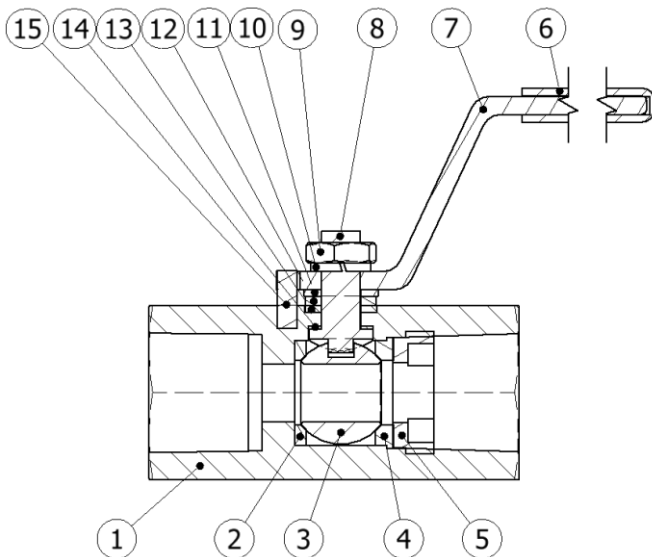
Specifications

- Pressure Rating: 1,000 psig
- Temperature Rating: -18 °F to 450 °F (-28 °C to 232 °C)
- Orifice: 5 mm to 16 mm
- Cv Value: 1.25 to 17.35
- Body Material: 316/316L dual-certified stainless steel bar stock (ASTM A479)
- Body Structure: Bi-directional straight-through design
- Port Types:
 - Tube compression (CPI™ / A-LOK®)
 - NPT (Female)
- Port Sizes: 1/4" to 1" and 6 mm to 25 mm



PRESSURE VS. TEMPERATURE

Part Description



Example: 8F-TLB8L-T-SS

Item	Description	Material
1	Body	ASTM A 479 TYPE 316/316L
2	Front Seat	PTFE
3	Ball	ASTM A 479 TYPE 316
4	Back Seat	PTFE
5	Adjuster	ASTM A 479 TYPE 316
6	Sleeve	Vinyl
7	Handle	316 SS
8	Stem	ASTM A 479 TYPE 316/316L
9	Nut	316 SS
10	Spring Washer	316 SS
11	Washer	ASTM A 479 TYPE 316
12	Gland	ASTM A 479 TYPE 316
13	Upper Packing	PTFE
14	Lower Packing	PTFE
15	Spin	316 SS



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Standard Product Specifications

Part No. 8F-TLB8L-T-SS: 316 Stainless Steel construction, PTFE packing, PTFE seats, 9mm bore ball, 1/2" NPT female inlet – 1/2" NPT female outlet.

Part No. 12A-TLB12L-T-SS: 316 Stainless Steel construction, PTFE packing, PTFE seats, 12mm bore ball, 1/2" A-LOK® inlet – 1/2" A-LOK® outlet.

Port	Valve Series	Orifice	Seat Material	Body Material
4A - 1/4" A-LOK® 6A - 3/8" A-LOK® M6A - 6mm A-LOK® 4F - 1/4" Female NPT	TLB4L	5mm	T-PTFE	SS-316/316L SS
6A - 3/8" A-LOK® 8A - 1/2" A-LOK® M8A - 8mm A-LOK® 6F - 3/8" Female NPT	TLB6L	7mm		
8A - 1/2" A-LOK® 12A - 3/4" A-LOK® 8F - 1/2" Female NPT	TLB8L	9mm		
12A - 3/4" A-LOK® 12F - 3/4" Female NPT	TLB12L	12mm		
16A - 1" A-LOK® 16F - 1" Female NPT	TLB16L	16mm		



WARNING USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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