

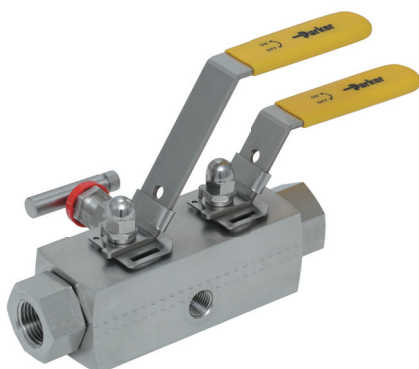
TML Series Double Block and Bleed Manifolds

6,000 psig (414 barg) to 10,000 psig (689 barg)



Introduction

This compact manifold series integrates double isolation (primary/secondary) and bleed/vent, combining ball and needle valves into a single block for interfaces with pressure transmitters, gauges, and switches in applications up to 6,000 psig (414 barg) and 10,000 psig (689 barg).



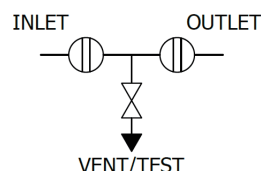
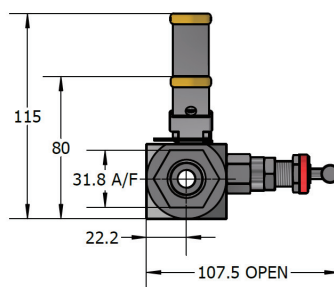
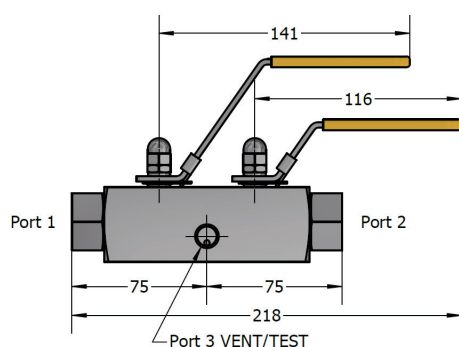
Features

- Standard high performance design
- Safety locking handle (standard for ball valves)
- PTFE and Graphite gland packings
- Integral compression ends available, eliminating taper threads and thread sealants
- Heat code traceable body and bonnet
- 100% factory tested prior to shipment
- NACE compliant materials available
- Optional fire safe design

Standard product specifications

Part No. TML10S3DBB8F8F4F: 316/316L stainless steel construction. Double-isolation 10 mm bore ball valves with lockable handle, PTFE packing, and PTFE seats, and a single bleed/vent needle valve with non-rotating self-centering tip, T-bar handle, PTFE packing, and metal-to-metal seating. Process and instrument connections: 1/2" female NPT; vent/test port: 1/4" female NPT. Maximum cold working pressure: 6,000 psig.

Model Shown: TML10S3DBB8F8F4F

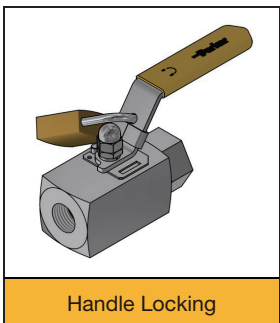
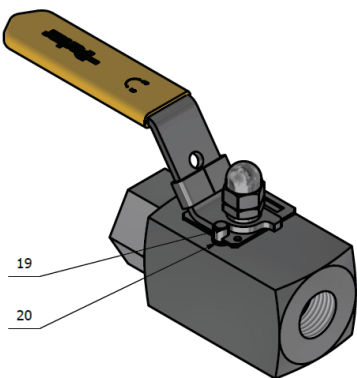
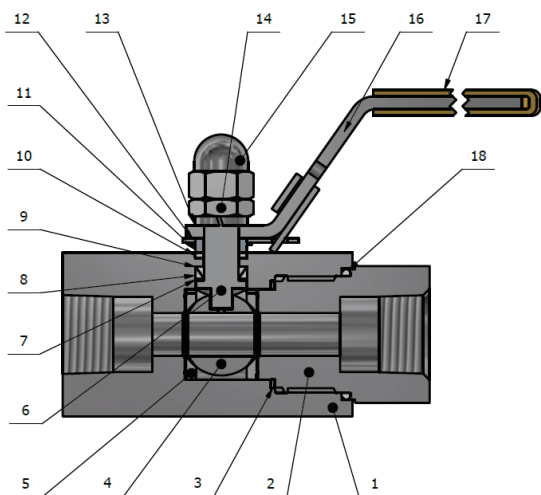


Note: All dimensions shown are approximate and subject to change.



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Isolate valve design - THB series ball valves



Note: The lock shown in the illustration is not included.

Features

- Two-piece body design-minimal leakage paths
- Bi-directional
- 100% bubble-tight shutoff
- Floating ball design with self-relief seat
- Anti-blowout stem
- 100% hydrostatic and low pressure air tested
- Various connections including A-LOK®, NPT and BSPT
- Safety locking handle as standard
- Dome nut reduces the risk of crevice corrosion
- Low emissions design certified per ISO 15848-1 Class B
- Optional fire safe design to meet API 607

Specifications

- 316/316L dual-certified stainless steel construction
- Maximum cold working pressure rating with PTFE seats: 6,000 psig (414 barg) †
- Temperature rating with PTFE seats: -54 °C to +204 °C (-65 °F to +400 °F) †
- Maximum cold working pressure rating with PEEK seats: 10,000 psig (689 barg) †
- Temperature rating with PEEK seats: -54 °C to +232 °C (-65 °F to +450 °F) †

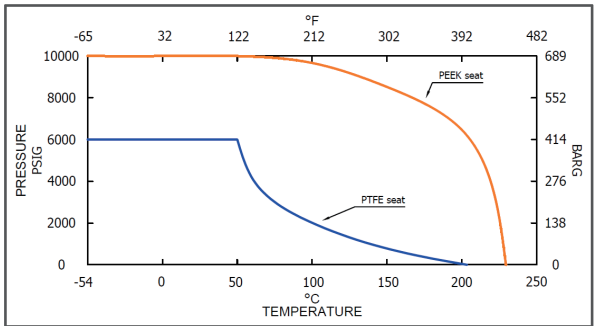
† Always refer to P/T graph

Part Description

ITEM	DESCRIPTION	MATERIAL
1	BODY	ASTM A479 316/316L
2	END CONNECTOR	ASTM A479 316/316L
3	JOINT SEAL	316/316L
4	BALL	ASTM A479 316/316L
5	SEAT	PTFE (PEEK optional)
6	STEM	ASTM A479 316/316L
7	THRUST WASHER	PEEK
8	LOWER STEM PACKING #1	PTFE*
9	LOWER STEM PACKING #2	PTFE*
10	PACKING SEAL	PTFE*
11	BUSHING	ASTM A479 316/316L
12	LOCK PLATE	316
13	SPRING WASHER	316
14	LOCK NUT	316
15	DOME NUT	316
16	HANDLE	316
17	HANDLE SLEEVE	PLASTIC
18	END SEAL	PTFE
19	PIN	316
20	SPRING	316

* Only for standard valve configurations, materials may vary for other configurations

Pressure vs Temperature

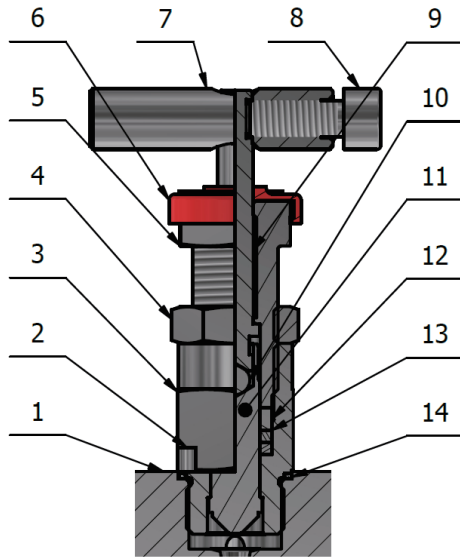


NOTE: Pressure and temperature ratings can be derated by certain connection types or materials of construction.



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Bleed/vent valve design - TN series needle valves



Part Description

ITEM	DESCRIPTION	MATERIAL
1	BODY	ASTM A479 316/316L
2	PIN	18-8
3	VALVE BONNET	ASTM A479 316/316L
4	LOCK NUT	ASTM A479 316/316L
5	GLAND PACKING ADJUSTER	ASTM A479 316/316L
6	DUST CAP	PLASTIC
7	T-BAR HANDLE	ASTM A479 316
8	SET SCREW	A4-70
9	UPPER STEM	ASTM A479 316/316L
10	BALL	ASTM A276 440C
11	LOWER STEM	ASTM A479 316/316L
12	THRUST BUSH	ASTM A479 316/316L
13	PACKING	PTFE (Graphite optional)
14	BONNET/BODY WASHER	316/316L

Features

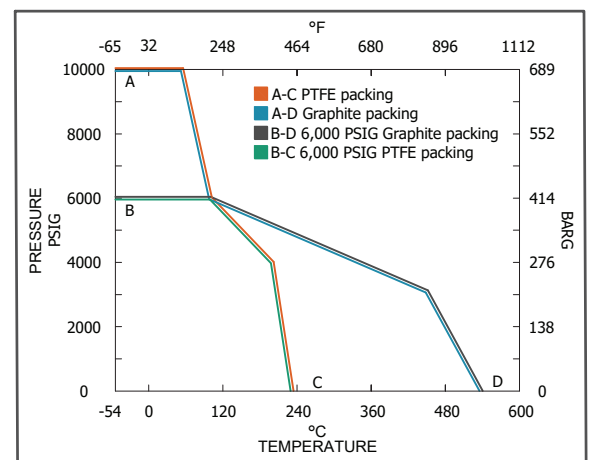
- Anti-blowout back seated upper stem design for enhanced safety
- Dust cap protects against external contamination and provides functional identification
- Packing below stem threads isolates thread lubricant from process medium
- Stem swivel above the packing eliminates fluid entrapment zones
- Non-rotating lower stem ensures low operating torque and long service life, improving performance and reliability
- Bonnet locking pin prevents accidental bonnet removal

Specifications

- Standard seat orifice size: 4 mm
- 316/316L dual-certified stainless steel construction
- Closed & Open reference heights: 59 mm (2.32 in) & 63.5 mm (2.5 in)
- Maximum standard working pressure: 6,000 psig (414 barg) [†]
- Rated temperature: -54 °C to +538 °C (-65 °F to +1000 °F) [†]
- Standard PTFE packing (Graphite optional)
- Maximum temperature for PTFE packing: 232 °C (450 °F) [†]
- Maximum temperature for Graphite packing: 538 °C (1000 °F) [†]

[†] Always refer to P/T graph

Pressure vs Temperature



NOTE: Pressure and temperature ratings can be derated by certain connection types or materials of construction.



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How to Order

The correct part number is easily derived from the example and the ordering charts below.

The example below describes a TML Series double block-and-bleed manifold that features 1/2" female NPT inlet and outlet connections, dual 10 mm bore ball valves with PEEK seats and PTFE packing, a single needle valve with PTFE packing, and a standard 1/4" female NPT vent port. It is rated to 10,000 psig and constructed from 316/316L stainless steel.

Example: **TML10S3DBB8F8F4FHP**



Series	Orifice	Material	Configuration	Inlet & Outlet	Vent/Test	MCWP*	
TML	10-10 mm	S-316/316L SD-Super Duplex 6MO-6Mo	3DBB-Double isolate ball valves, single bleed needle valve	4F-1/4" FNPT	4F-1/4" FNPT	BLANK- 6,000 psig	HP- 10,000 psig
				6F-3/8" FNPT		BLANK- 6,000 psig	
				8F-1/2" FNPT			
				4A-1/4" A-LOK®			
				6A-3/8" A-LOK®			
				8A-1/2" A-LOK®			
				M6A-6 mm A-LOK®			
				M8A-8 mm A-LOK®			
				M10A-10 mm A-LOK®			
				M12A-12 mm A-LOK®			

* MCWP - Maximum Cold Working Pressure

NOTE: For additional port type requirements, please contact Parker.

Available options

Suffix Adding Sequence	Function	Detail	All Valves	Ball	Needle	Body
1	Gland packing	Graphite ¹	3	-	-	-
2	Seat material	PEEK	-	PK	-	-
3	Plug/Bleed Valve ²	Blank Plug	P	-	-	-
		Bleed Valve/Plug	BV	-	-	-
4	Operating mechanism	Lockable handle ³	-	-	HL	-
		Anti-Tamper ⁴	-	-	AT	-
5	Mounting	Mounting holes	-	-	-	MH
6	Condition	NACE	NC	-	-	-
7		Fire safe	FS	-	-	-

¹ Not required when Firesafe design option (FS) selected.

² Plugs supplied loose in a packing box for customer assembly using their preferred thread sealant.

³ Lockable handle as standard for ball valves.

⁴ Anti-Tamper option supplied without key. The Anti-Tamper Key can be ordered separately under part no. **ATTKEY/1**.



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WARNING USER RESPONSIBILITY

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