

THB Series Ball Valves

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



Introduction:

THB series ball valves offer the user full cold working pressure ratings up to 10,000 psig (689 bar), giving 100% bubble tight shut off and continuous repeatable performance. The Ball Valves are suitable for the most demanding applications in the oil, gas and process control industries. All valves also meet the requirements of ANSI B31.1 for use in power plants.

Features:

- Two-piece body design - minimal leakage paths
- Bi-directional
- PHflex seats available for 25mm bore
- 100% Bubble tight shutoff
- Floating ball design with self-relief
- Anti blowout stem
- Full hydrostatic and low pressure air tested
- Various connections including A-LOK®, NPT and BSPT
- Safety locking handle
- Dome Nut can help prevent corrosion and reduce risk of crevice corrosion



Specifications:

- Maximum cold working pressure rating with PTFE seats: 6,000psig (414 bar)
- Temperature rating with PTFE seats: -54°C to +204°C(-65°F to +400°F)
- Maximum cold working pressure rating with PEEK seats: 10,000psig (689 bar)
- Temperature rating with PEEK seats: -54°C to +232°C(-65°F to +450°F)
- Maximum cold working pressure rating with PHflex seats(25mm only): 6,000psig (414 bar)
- Temperature rating with PHflex seats(25mm only): -54°C to +232°C(-65°F to +450°F)
- Orifice: 10mm, 15mm, 20mm and 25mm
- Body Material: 316/316L dual-certified stainless steel bar stock
- Body Structure: Bi-directional straight-through design
- Connections:
 - Tube compression (CPI™ / A-LOK®)
 - NPT (Female)

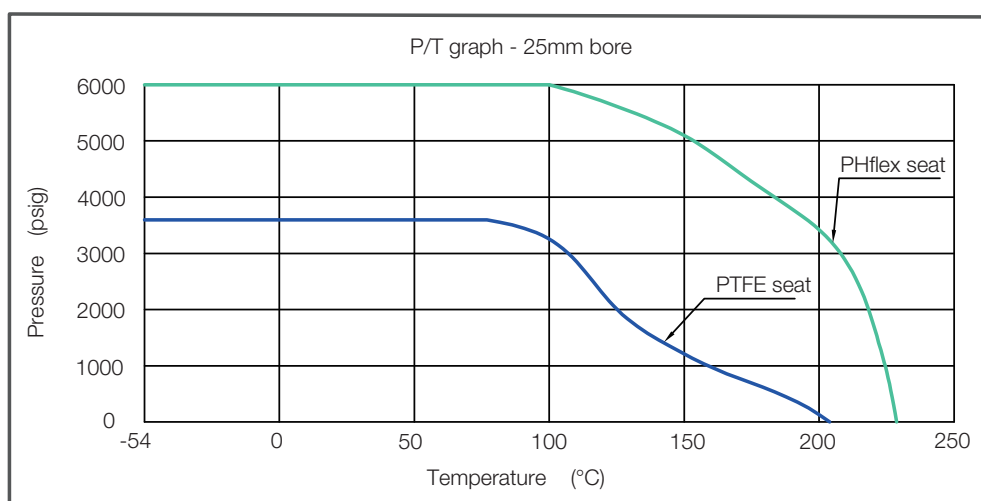
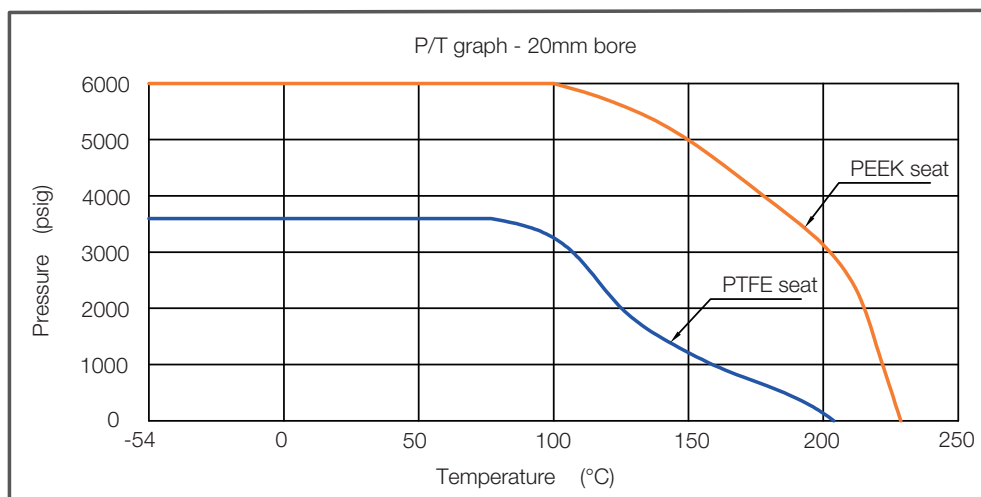
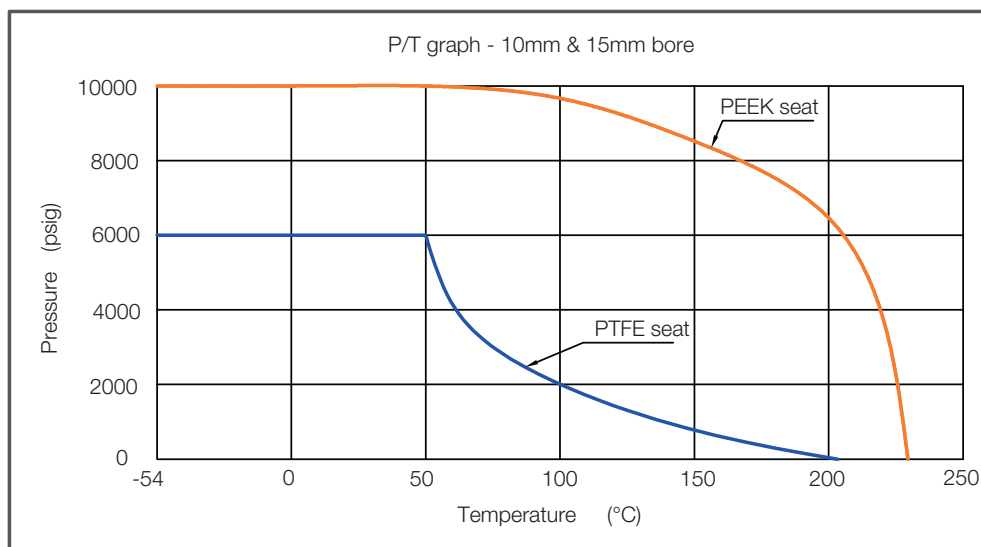
Note: More port type requirement, please contact Parker.

- Connection Sizes: 1/4" to 1" and 6 mm to 25 mm

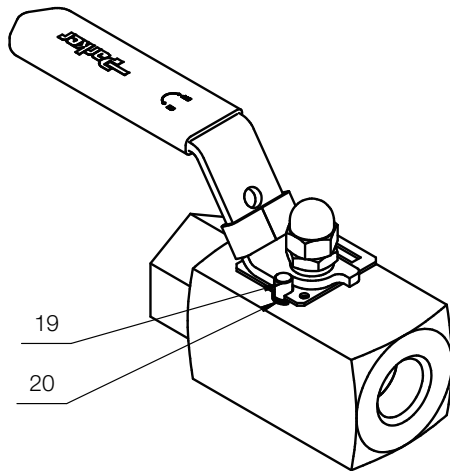
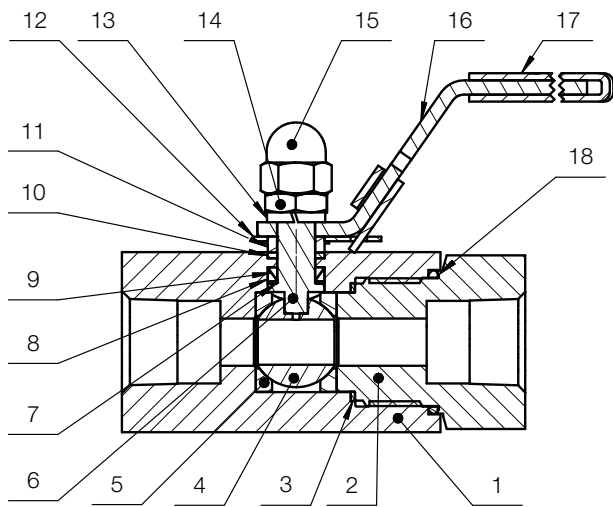


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Pressure vs Temperature :



Part Description:



Example: 8F-THBL10-T-SS

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/Phflex
6	STEM	ASTM A479 316/316L
7	THRUST WASHER	PEEK
8	LOWER STEM PACKING2	PTFE*
9	LOWER STEM PACKING1	PTFE*
10	PACKING SEAL	PTFE*
11	BUSHING	ASTM A479 316/316L
12	LOCK PIECE	316SS
13	SPRING WASHER	316SS
14	NUT	316SS
15	DOME NUT	316SS
16	HANDLE	316SS
17	HANDLE SLEEVE	PLASTIC
18	END SEAL	PTFE
19	PIN	316SS
20	SPRING	316SS

*Only for standard configure valves, material may vary for other configurations.

Standard Product Specifications:

Part No. 8F-THBL10-T-SS: 316/316L stainless steel construction, PTFE packing, PTFE seats, 10mm bore ball, 1/2" NPT female inlet – 1/2" NPT female outlet, 6,000psig maximum cold working pressure.

Part No. 8F-THBL10-PK-SS-HP: 316/316L stainless steel construction, PTFE packing, PEEK seats, 10mm bore ball, 1/2" NPT female inlet – 1/2" NPT female outlet, 10,000psig maximum cold working pressure.



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Connections	Valve Series	Nominal Orifice	Seat Material	Body Material	MCWP*
4F-1/4" Female NPT	THBL	10-10mm	T-PTFE	SS-316/316L	Blank-6,000psig
6F-3/8" Female NPT					
8F-1/2" Female NPT					
4A-1/4" A-LOK					
6A-3/8" A-LOK					
8A-1/2" A-LOK					
M6A-6mm A-LOK					
M8A-8mm A-LOK					
M10A-10mm A-LOK					
M12A-12mm A-LOK					
4F-1/4" Female NPT			PK-PEEK	SS-316/316L	HP-10,000psig
6F-3/8" Female NPT					
8F-1/2" Female NPT					

Connections	Valve Series	Nominal Orifice	Seat Material	Body Material	MCWP*
8F-1/2" Female NPT	THBL	15-15mm	T-PTFE	SS-316/316L	Blank-6,000psig
10A-5/8" A-LOK					
12A-3/4" A-LOK					
M16A-16mm A-LOK					
M18A-18mm A-LOK					
M20A-20mm A-LOK					
8F-1/2" Female NPT			PK-PEEK	SS-316/316L	HP-10,000psig

Connections	Valve Series	Nominal Orifice	Seat Material	Body Material	MCWP*
12F-3/4" Female NPT	THBL	20-20mm	PK-PEEK	SS-316/316L	Blank-6,000psig
12F-3/4" Female NPT			T-PTFE	SS-316/316L	LP-3,600psig
14A-7/8" A-LOK					
16A-1" A-LOK					
M22A-22mm A-LOK					
M25A-25mm A-LOK					



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Connections	Valve Series	Nominal Orifice	Seat Material	Body Material	MCWP*
16F-1" Female NPT	THBL	25-25mm	PH-PHflex	SS-316/316L	Blank-6,000psig
16F-1" Female NPT			T-PTFE	SS-316/316L	LP-3,600psig
16A-1" A-LOK					
M25A-25mm A-LOK					

*MCWP- Maximum Cold Working Pressure

Options:

Fire safe- add suffix -FS to the end of the part number for fire safe valves

 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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