

SPLIT BODY, FULL BORE, SIDE ENTRY SCREWED END BALL VALVE

Compact and suitable for eliminating external joint leakage to the atmosphere where applications are highly critical, media is expensive, toxic and external joint leakage is not acceptable.



Size	Ends	Class	Model No.
8-50 mm	BSP "II"	300	BL-1-F-P-A2
1/4" to 2"	NPT	300	BL-1-F-N-A2

DESIGN FEATURES

- High quality casting
- Fully interchangeable trim parts
- Blowout proof Stem
- Renewable Seat & Seals
- Anti-Static Device
- Live-loaded design eliminates stem leakage while providing longer life cycle.
- Bi-direction design for back flow application.

OPTIONS

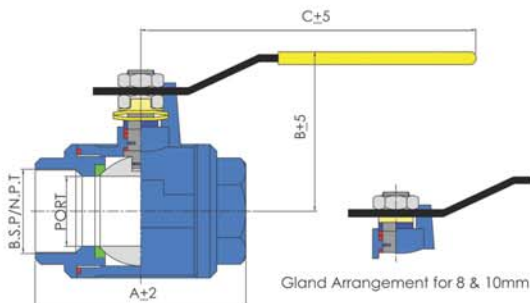
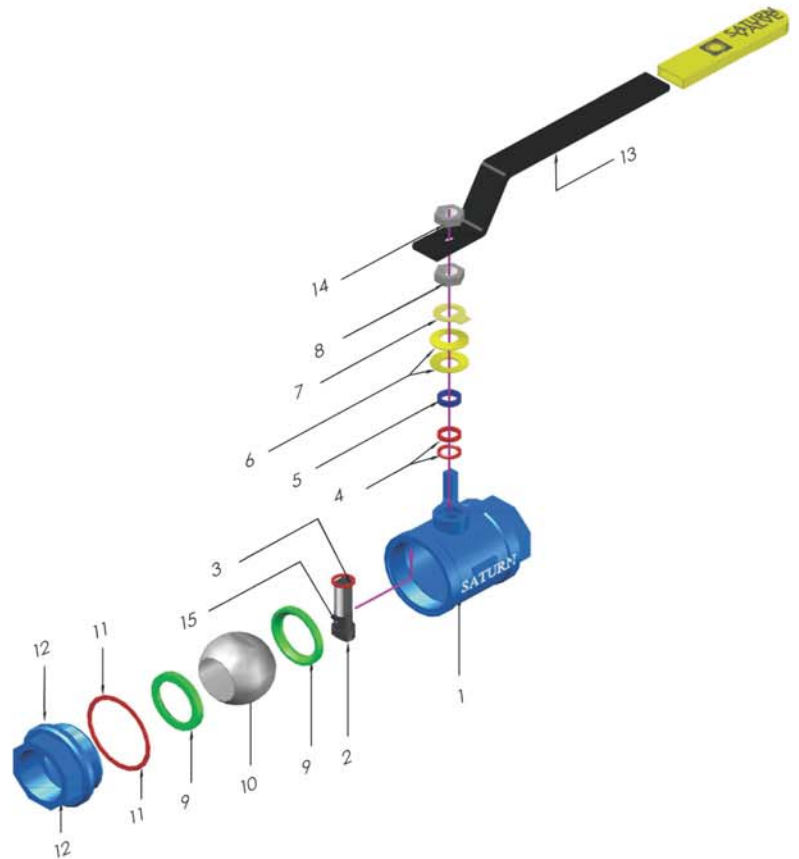
Vented ball to prevent seat damage caused by trapped cavity pressure.

SERVICE APPLICATIONS

Chemical | Steam |
Food Processing | Thermal Fluids
Oxygen | Vacuum
Water/Oil/Gas

STANDARDS COMPLIANCE

- Design: ASME B 16.34, BS EN ISO 17292
- Pressure Test: API 598 / BS EN ISO 12266-1
- End to End: MEWPL's Std.
- End Conn.: BSP"II"- IS 554
NPT-ASME B1.20.1
- Material Certification : DIN 50.049-3 1B
- Quality Systems / Certifications:ISO 9001



ALL DIMENSIONS ARE IN MM

VALVE SIZE	PORT	A	B	C	WEIGHT (KG)
8 & 10	9.5	65	35	102	0.28
15	12.7	70	55	125	0.43
20	19	85	59	125	0.7
25	25.4	95	74	150	1.15
40	38.1	115	87	180	2.2
50	50.8	135	102	200	3.8

Part No.	DESCRIPTION	SPECIFICATION			QTY.
		CARBON STEEL	STAINLESS STEEL		
1	BODY	A216WCB	SS 304 A351CF8	SS 316 A351CF8M	1
3	THRUSHT WASHER		PTFE /GFT /CFT		1
2	STEM	SS304/316	SS 304	SS316	1
4	GLAND SEALS		PTFE /GFT /CFT /GRAPHITE		1 SET
5	GLAND SPACER		SS316		1
6	BELLEVILLE WASHER		SPRING STEEL ZINC PLATED / SS 304		2
7	LOCK WASHER		CARBON STEEL ZINC PLATED / SS 304		1
8	GLAND NUT		SS 304	SS316	1
9	SEAT		PTFE /GFT /CFT /SP.RPTFE/PEEK		2
10	BALL	SS304/316	SS 304	SS316	1
11	BODY 'O' TYPE RING		PTFE / GRAPHITE		1
12	ADAPTOR	A216WCB	A351CF8	A351CF8M	1
13	LEVER WITH PVC SLEEVE	CARBON STEEL POWDER COATED / STAINLESS STEEL			1
14	LEVER NUT	CARBON STEEL ZINC PLATED / SS 304			1
15	ANTISTATC DEVICE		SS316		1 / 2

Gland Packing

For medium and low temperature service, the standard V shape PTFE packing rings are installed for low emission control having less stress relaxation and low creep. It allows for a low-friction on rotary stem, providing the stabilized seal performance for long cycle life.

Anti-Static Device

When static are generated due to high velocity of fluid and concentrated on the ball, the spring-loaded pins installed on stem are provided to ensure electrical continuity throughout the ball, stem & body. In addition to this the inter components like graphite body seal & gland seal have good electric conductivity which discharges the static.

Note : For sizes up to 2" one antistatic device is provided

Auto Packing Compensation

Live loading is designed to provide gland load retention, compensating for expected in-service consolidation of the packing. A set of Belleville-Spring Washers are used on gland spacer to help exert a continuous compressive force on the gland spacer and therefore reduce fugitive emissions from the stem packing.

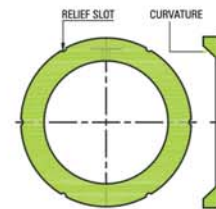
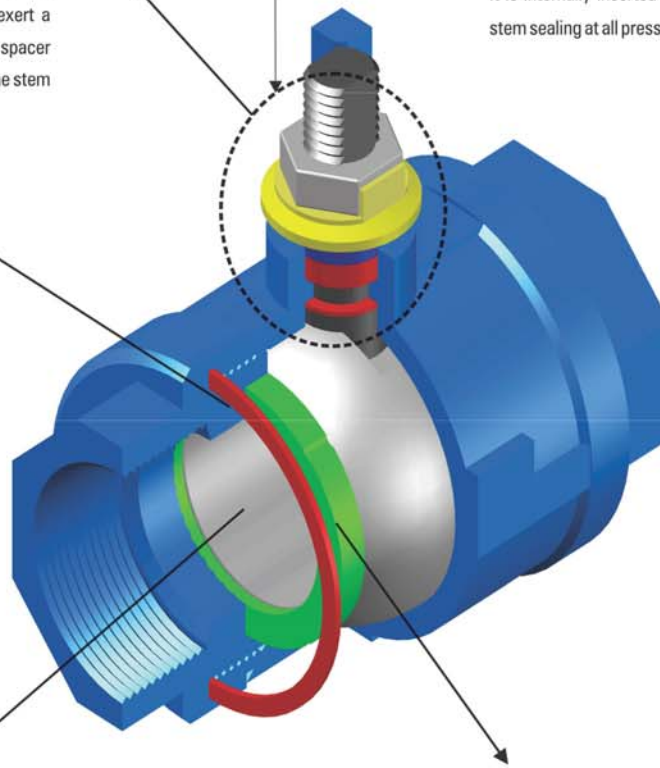
Blow-out Proof Stem

Stem lower end is integral T shaped designed to be blow-out proof. It is internally inserted and functions as the backseat for assured stem sealing at all pressures.

PTFE Body Seal :

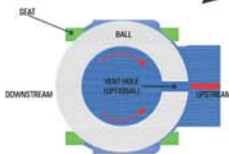
Body & End connector are male/female threaded and sealing is assure by PTFE flat or 'O' seal .

These design provides maximum safety for valves used for Vacuum, toxic gases and critical services where external leakage is not acceptable.



Vent Hole in Ball (optional)

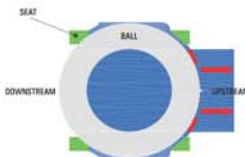
When the pressure inside the valve body cavity exceeds the line pressure due to thermal expansion of the liquids entrapped in the valve body; to relieve this vapor pressure positively vent hole is provided towards upstream that helps preventing seat life, reduces operational torque and chances of accidents.



Floating Ball

A Floating Ball design offer efficient bi-directional downstream sealing. When line pressure is applied to the closed ball, it moves slightly (or floats) downstream to maintain contact with the downstream seat where primary sealing occurs.

The downstream sealing also overcomes two most common difficulties in the use of conventional ball valves; seat damage & high operating torque.



Seat

The special design seat feature relief slots or seat O.D. Clearance to relive pressure past the upstream seat. This design reduces friction, minimize seat wear and lowering operating torque. The curvature design feature minimize contact between the ball & seat when the valve is in open position, thus it prevent cold flow, lowers torque and reduced wear.

The pressure relief slots design also features automatic pressure relief from upstream in continuous pressure. During closing of the valve, the maximum surge pressure occurs, during which the downstream seat can be forced to intrude into the ball port and valve can become inoperative. The pressure relief slots prevent this potential failure. When pressure causes the upstream seat to move against the ball and ball moves to the downstream seat to effect and maintain a seal, the pressure simply leaks into the ball port through the relief slots.