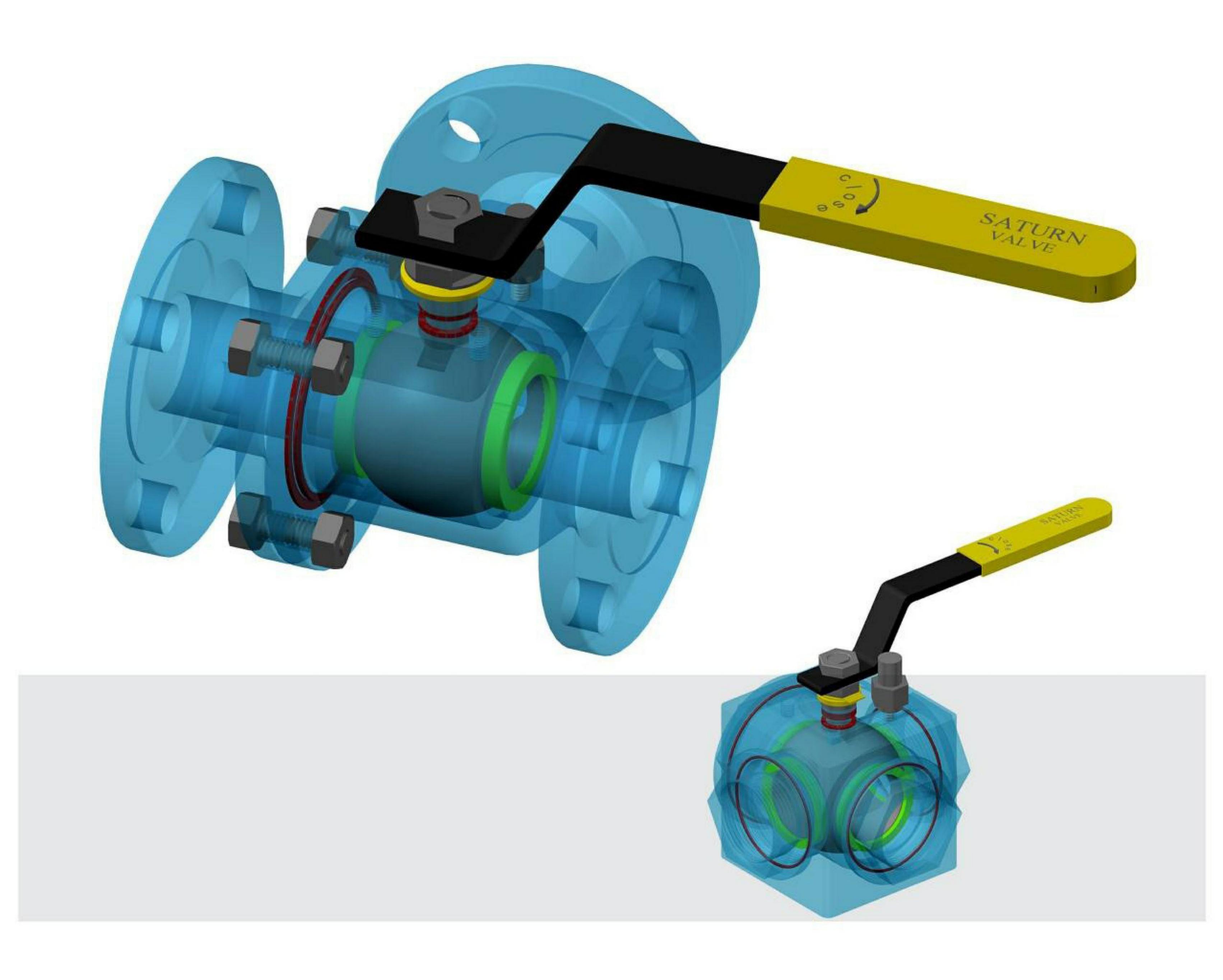
# ENGINEERING RE-DEFINED





Mevada Engineering Works Pvt. Ltd.

THREE WAY BALL VALVE







# Three Way Two Seated L Port Flanged Ball Valve

Mevada Engineering Works Pvt. Ltd.(MEWPL) Offers Three Way Two Seated L Port ball valve for diverting applications where media is passing through common inlet/outlet port & direct it through either of the two inlet/outlet ports.

SIZE	TYPE	CLASS	MODEL NO.
25-200mm	Side Entry	150	BL-L-2-F-F-A1
1" to 8"	L port	*300	BL-L-2-F-F-A2

<sup>\*</sup> Dimensions on request

### STANDARD COMPLIANCE

- Design: ASME B 16.34, Bs EN ISO 17292
- Pressure Testing: API 598 / BS EN ISO 12266-1
- End To End: ASME B 16.10 Up to 4" & MEWPL Std. For 6" & Above
- Flange Dimension: ASME B16.5 / BS 10
  Mounting Pad: ISO 5211 / DIN 3337
- Material Certification : DIN 50.049-3.1B
- NACE: MR01-75 Compliant
- Quality Systems / Certifications: ISO 9001

### **DESIGN FEATURES**

- Full bore, assures no pressure drop across the valve
- Blow out proof Stem
- Renewable Seat & Seals
- Double Body Seals
- Anti-static Device
- Live loaded Stem seals
- Mounting pad to DIN 3337/ISO 5211

### OPTIONS

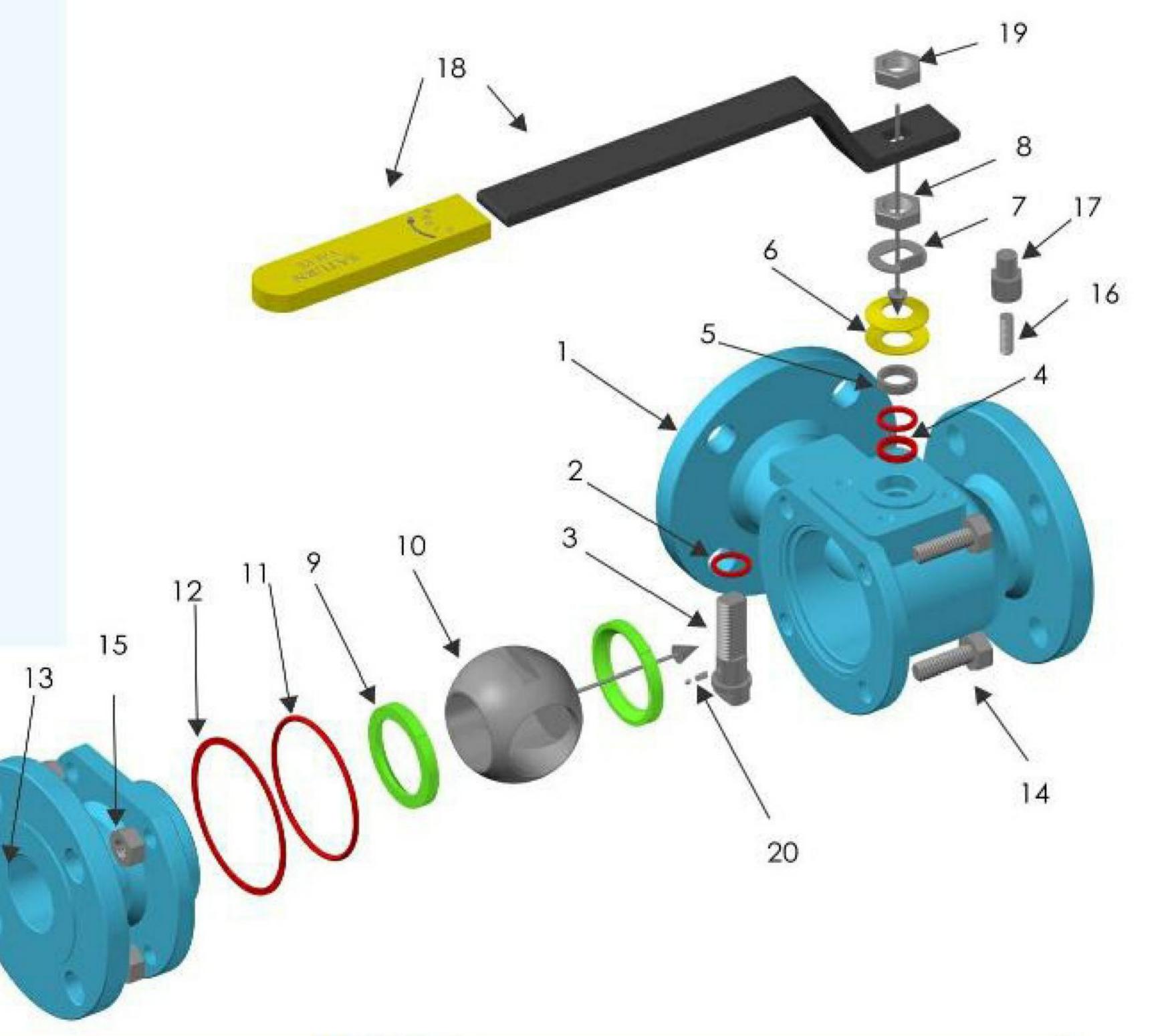
- Bottom Common Inlet/out let
- Extended handle for pipe insulation
- Extended stem to suit insulation and in-line gland leak monitoring & seal replacement"
- Padlock capabilities maximum safety

### SERVICE APPLICATIONS

Process or Utilities:

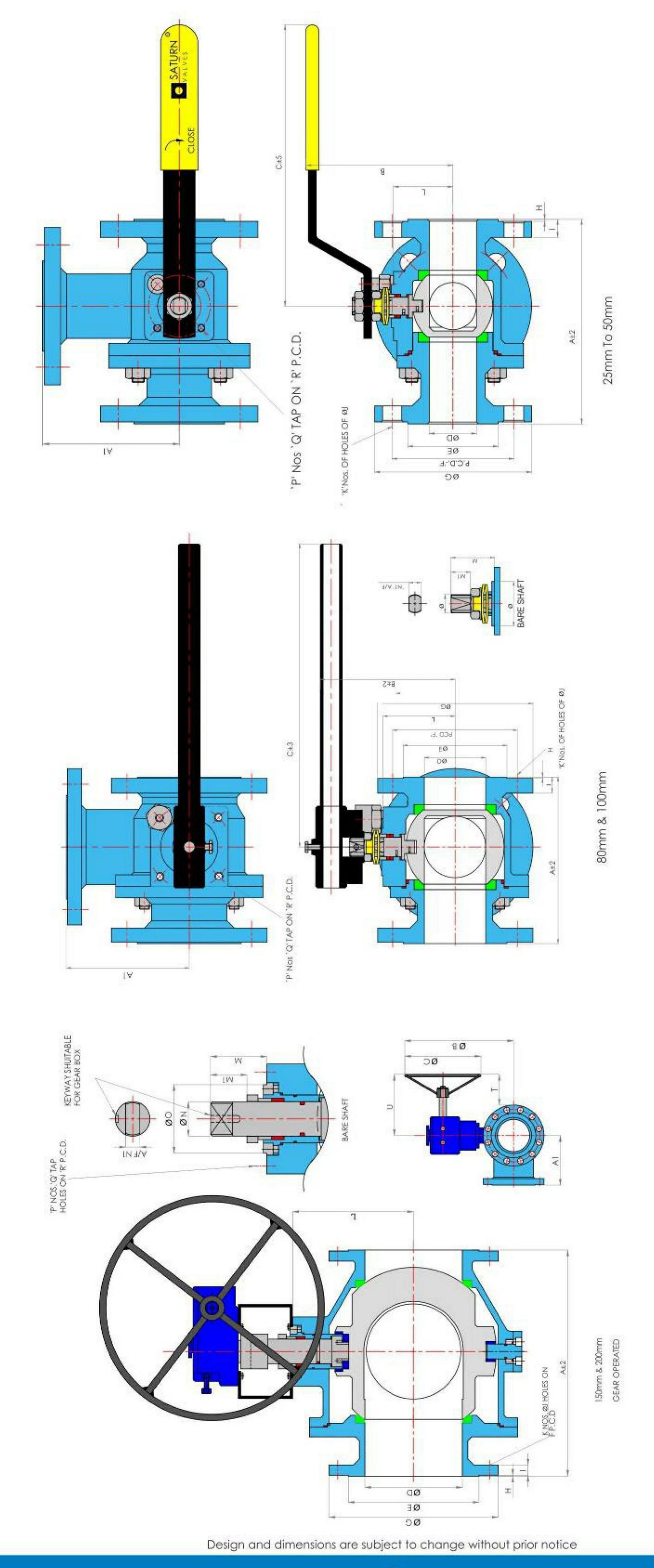
Best suited for duplex strainer application for filtration purpose.





R. NO.	DESCRIPTION	MATERIAL						
1	BODY	A 216 WCB	SS304 A 351 CF8	SS304 L A 351 CF3	SS316 A 351 CF8M	SS316 L A 351 CF3M		
2	THRUST WASHER		PTFE/	D/PEEK				
3	STEM	SS304/SS316	SS304	SS304 L	SS316	SS316L		
4	GLAND SEAL RING	PTFE/GFT/CFT/GRAPHITE						
5	GLAND SPACER	SS316	5	SS316L	SS316	SS316L		
6	BELLEVILLE WASHER	SPRING STEEL ZINC PLATED/STAINLESS STEEL						
7	LOCK WASHER	CARBON STEEL ZINC PLATED/STAINLESS STEEL						
8	GLAND NUT		SS304	SS316				
9	BALL SEAT	PTFE/GFT/CFT/TFM 1600/PEEK						
10	BALL	SS304 /316 A 351 CF8/CF8M	SS304 A 351 CF8	SS304 L A 351 CF3	SS316 A 351 CF8M	SS316 L A 351 CF3M		
11	BODY JOINT O' RING	PTFE						
12	BODY JOINT RING	GRAPHITE						
13	ADAPTOR	A 216 WCB	SS304 A 351 CF8	SS304 L A 351 CF3	SS316 A 351 CF8M	SS316 L A 351 CF3M		
14	STUD	A 193 B7 A 193 B8/A 193 B8M						
15	NUT	A 194 2H A 194 2H/A 194 8/A 194 8M						
16	GRUB SCREW	HIGH TENSILE ALLOY STEEL						
17	STOPPER	CARBON STEEL ZINC PLATED/STAINLESS STEEL						
18	LEVER WITH PVC SLEEVE	CARBON STEEL POWDER COATED/STAINLESS STEEL						
19	LEVER NUT	CARBON STEEL ZINC PLATED/SS304						
20	ANTISTATIC DEVICE	SS316 L						

# JIMENSIONS FOR Three Way Two Seated L Port Flanged Ball Valve



						×2530	000000000	7000		
		PAD AD	F04	F05	F07	F10	FIO	FI2	F14	3
LULL BURE CLASS 130		R P.C.D	42	20	70	102	102	125	140	
		Ø	M5	W6	W8	M10	M10	M12	M16	
		۵.	4	4	4	4	4	4	4	
	ISO PAD DETAILS	N1 A/F	7.9	9.52	11.1	15.85	19	22.2	SQ36	
		00	30	35	55	70	70	85	100	
		NØ	12.7	14,35	17	23.8	28.6	34.92	20	
		-W	12	14	15.5	18	21	28	25	
		*	27	32	34.5	41	45.5	70	78	
			39.5	48	19	88.5	108	193.5	245	
	FLANGE DIMENSIONS	~	4	4	4	4	œ	80	8	
			15.9	15.9	19	19	19	22.22	22.22	
			9.11	14.7	16.3	19.5	24.3	25.9	29	
		=	2	2	2	2	2	2	2	
		9Ø	110	125	150	190	230	280	345	
		F P.C.D	79.4	98.4	120.7	152.5	190.5	241.3	298.5	
		ØE	50.8	73	92.1	127	157.2	215.9	269.9	Q
		QØ	25.4	38.1	50.8	75	98	148	198	'S STANDAR
	-				\>	Y/Z		240	280	FACE DIMENSIONS AS PER MFGR'S STANDARD
					z			100	107.5	
			180	225	245	335	335	350	009	FACE DIME
			104.5	119	128	165	196	422	202	*FACE TO
	A		85	110	120	150	175	225	270	
			127	165	178	203	229	394*	457*	REIN MM
		VALVE SIZE	25	40	50	80	100	150 GEAR	200 GEAR	ALL DIMENSIONS ARE IN MM

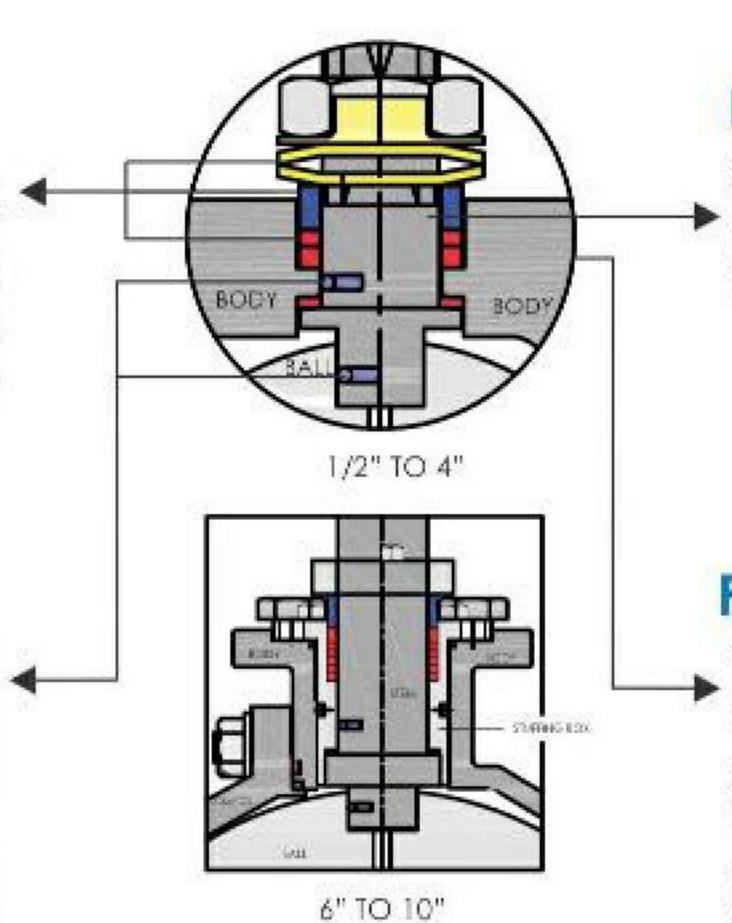
Live loading is designed to provide gland load retention, compensating for expected in-service consolidation of the packing. A set of Belleville-Spring Washers are used on gland spacer to help exert a continuous compressive force on the gland spacer and therefore reduce fugitive emissions from the stem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

### 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



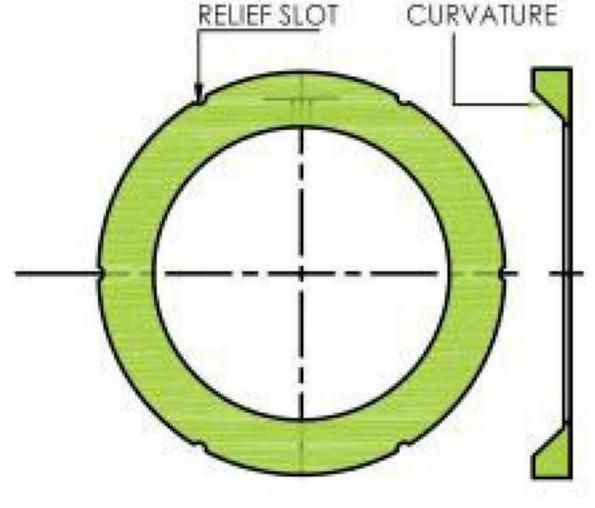
### **Blow-out Proof Stem**

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.

### Packing

▶ The packing set is a combination of parallel and vertical layer sealing elements, which are made of elastomer and graphite rings having less stress relaxation and low creep. With this special structure it allows for a low-friction on rotary stem, providing the stabilized seal performance for long cycle life.

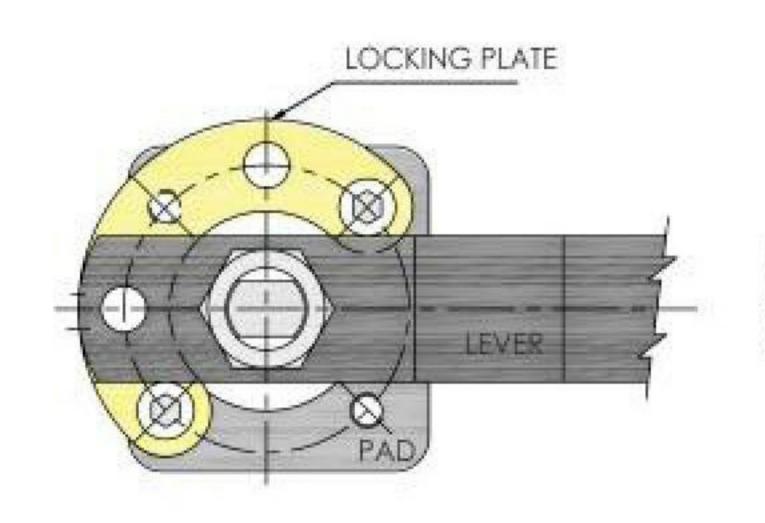
For medium and low temperature service, the standard V shape PTFE packing rings are installed for low emission control.

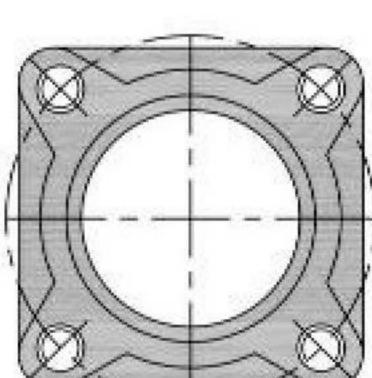


### Seat Design

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.

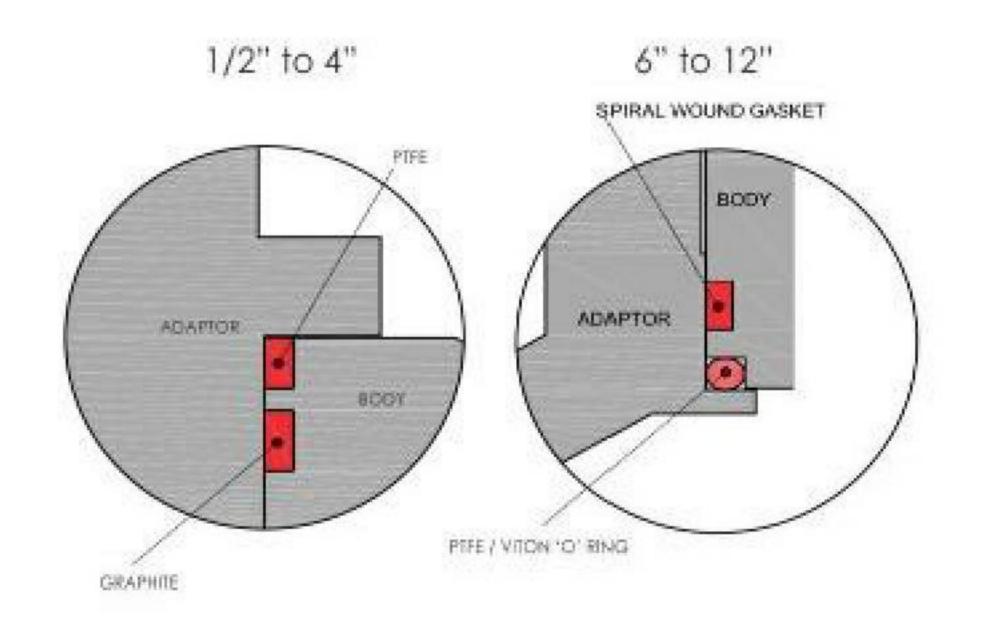
The pressure relief slots design also features automatic pressure relief from upstream in continuos pressure. During closing of the valve, the maximum surge pressure occurs, during which the downstream seat can be forced to intrude into the ball port and valve can become inoperative. The pressure relief 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.





### ISO 5211 MOUNTING PAD

Ball Valves are Equipped with an Integral mounting pad as per ISO 5211 that facilitates easy mounting of hardware viz. pneumatic Actuator, Gear box, Limit Switch, Locking arrangement, etc.



### Double Body Seals(for Two Seated Valves)

Double body sealing ensures positive body joint sealing against pipeline stresses. The inner body seal of elastomer prevents the contact of the fluid with the outer body seal of graphite having pure carbon.

For 6" & above step is provided with 'O" ring as inner body seal against pipeline stresses & joint expansions.

Design and dimensions are subject to change without prior notice



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