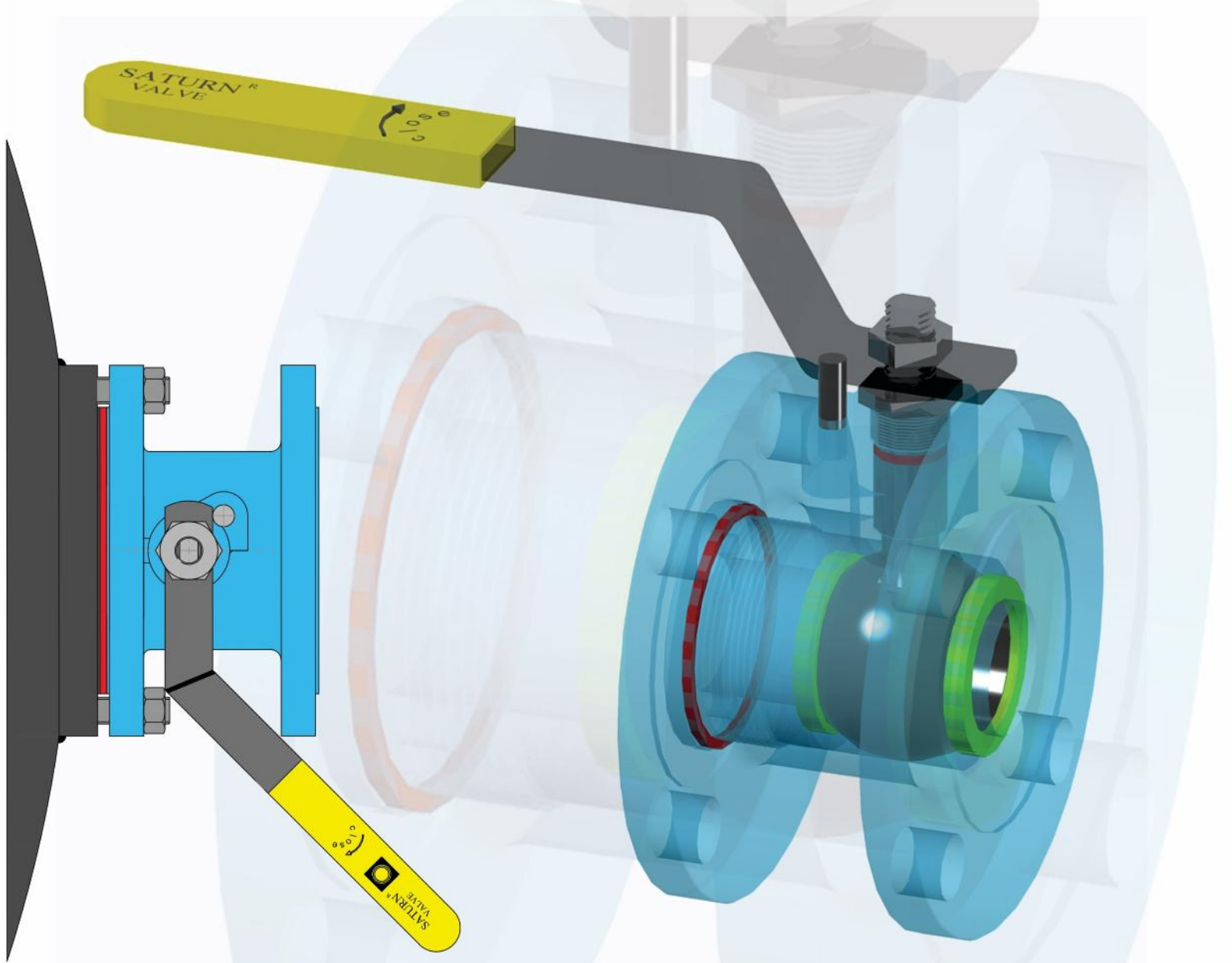


ENGINEERING RE-DEFINED



SATURN[®]
VALVES



Mevada Engineering Works Pvt. Ltd.

FLUSH BOTTOM BALL VALVE

ISO 9001
BUREAU VERITAS
Certification



50
Years
OF SERVICE

Uni-directional Flush Bottom Ball valve (Type : Full bore with over sized Flange)



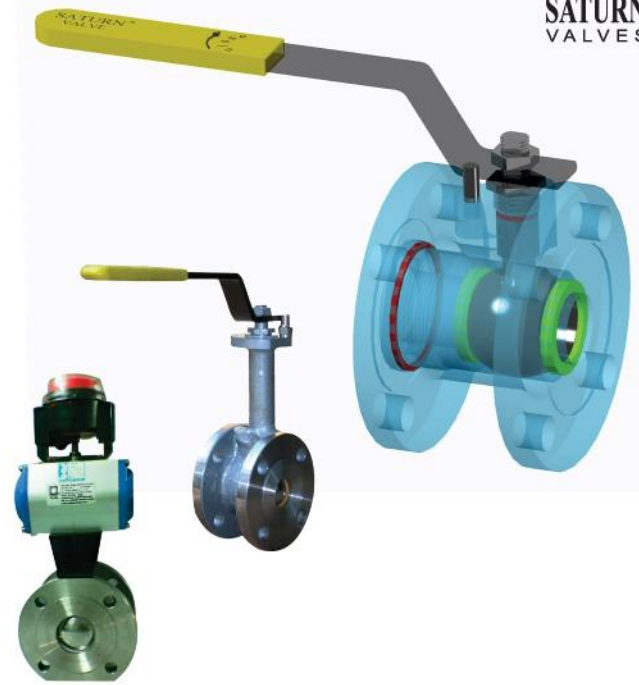
Mevada Engineering Works Pvt. Ltd. (MEWPL) offers compact design Unidirectional Flush bottom Ball valve to discharge the processed material (liquid or semi-liquid form) from the reactor or vessel. It's a proven design & accepted technology in the industries for multi-purpose application to handle hazardous chemicals, non-abrasive slurry, toxic gases, high vacuum, polymers, dry form powder etc.

SIZE	TYPE	CLASS	MODEL NO.
32-100mm 1 1/4" to 4" (PORT SIZE)	STANDARD	150	BL-B-1-F-F-A1
	CAVITY FILLED	150	BL-B-CF-1-F-F-A1
	STANDARD	*300	BL-B-1-F-F-A2
	CAVITY FILLED	*300	BL-B-CF-1-F-F-A2

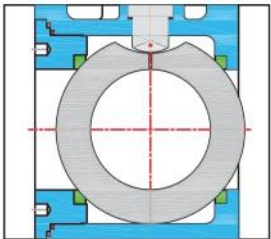
* Given only for information, dimensions can be provided on request.

STANDARDS COMPLIANCE

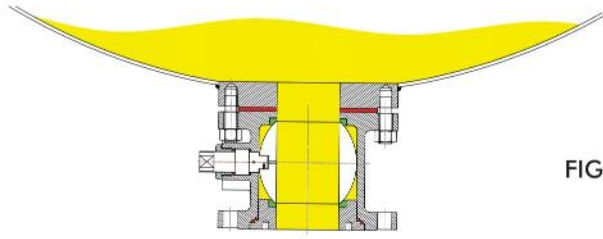
- DESIGN STANDARD :- BS EN ISO 17292 , ASME B 16.34
- PRESSURE TEST :- BS EN ISO 12266-1
- END TO END :- MEWPL's STD.
- FLANGE DIMENSIONS :- ASME B 16.5 , BS 10, DIN 1092-1



DESIGN FEATURES



OFF-CENTER DESIGN



VALVE IN OPEN POSITION

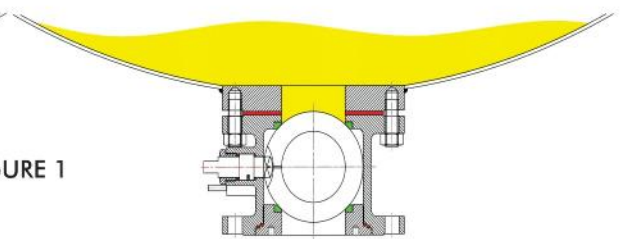


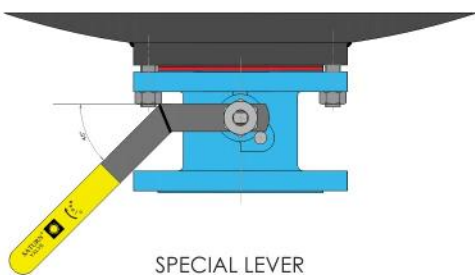
FIGURE 1

VALVE IN CLOSED POSITION

Off-centre design & protruded ball assures minimum contamination between reactor or vessel pad and ball. **REFER FIGURE 1**

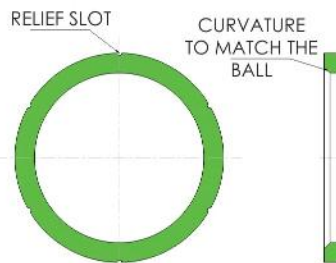
ONE PIECE DESIGN

Reduced number of joints makes it suitable for applications where leakage to the atmosphere is not acceptable.



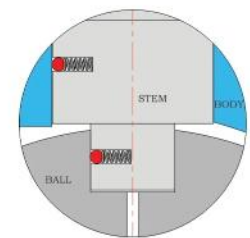
SPECIAL LEVER

Fabricated lever with 45° bend can be provided for applications where lever may foul with reactor or vessel



SEAT DESIGN

The special design seat feature with relief slots on seat O. D. relieves cavity pressure developed in cavity of body to upstream seat. This design reduces friction, minimize seat wear and lowering operating torque.



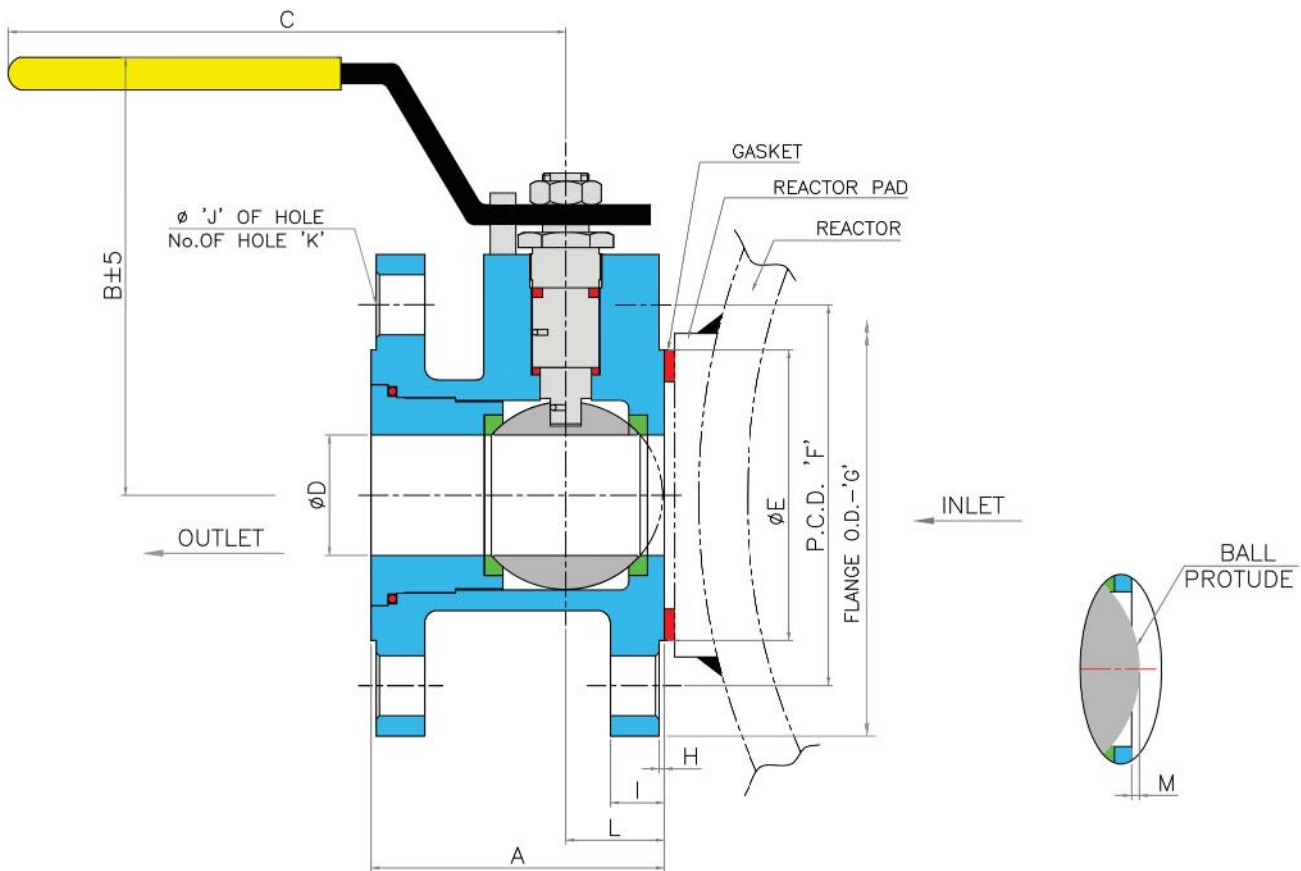
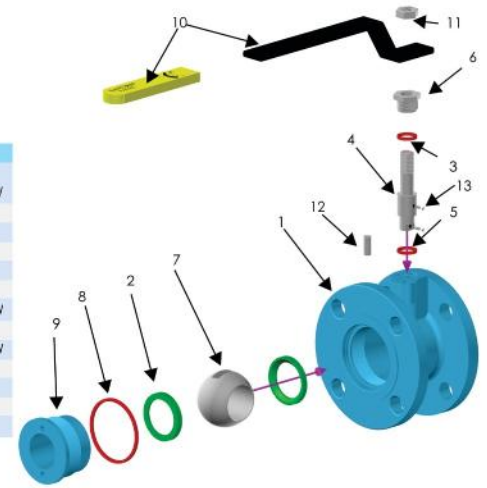
ANTISTATIC DEVICE

When static charge is generated due to high velocity of working fluid & gets concentrated on the ball, spring loaded ball between ball to stem & stem body discharges static electricity.



Exploded view and dimension

Sr.No.	DESCRIPTION	MATERIAL						
		SS304	SS304 L	SS316	SS316 L	ALLOY 20	MONEL	HATELLOY C
1	BODY	A 351 GR. CF8	A 351 GR. CF3	A 351 GR. CF8M	A 351 GR. CF3M	A 351 GR. CN7M	A 494 M35-1	A 494 CW-12MW
2	BALL SEAT	PTFE/GFT/CFI/TFM 1600/PEEK						
3	GLAND SEAL	PTFE/GFT/CFI/GRAPHITE						
4	STEM	SS304	SS304 L	SS316	SS316L	ALLOY20	MONEL	HASTELLOY C
5	THRUST WASHER	PTFE/GFT/CFI/TFM 1600/PEEK						
6	THREADED GLAND	SS316L						
7	BALL	A 351 GR. CF8	A 351 GR. CF3	A 351 GR. CF8M	A 351 GR. CF3M	A 351 GR. CN7M	A 494 M35-1	A 494 CW-12MW
8	BODY SEAL	PTFE/GRAPHITE						
9	ADAPTOR	A 351 GR. CF8	A 351 GR. CF3	A 351 GR. CF8M	A 351 GR. CF3M	A 351 GR. CN7M	A 494 M35-1	A 494 CW-12MW
10	LEVER WITH PVC SLEEVE	CARBON STEEL POWDER COATED/STAINLESS STEEL						SS304
11	LEVER NUT	CARBON STEEL ZINC PLATED/SS304						SS304
12	STOP PIN	CARBON STEEL ZINC PLATED/SS304						SS304
13	ANTI STATIC DEVICE	SS316L						



VALVE SIZE	CLASS 150												
	A	B	C	ØD	ØE	F.P.C.D	ØG	H	I	J	K	L	M
32X40	75	124	180	31.7	73	98.5	125	2	14.7	15.87	4	27	0
40X50	90	137	225	38.1	92.1	120.7	150	2	16.3	19.05	4	30.2	0
50X65	102	141	245	50.8	104.8	139.7	180	2	17.9	19.05	4	39.7	0
65X80	115	151	245	63.5	127	152.5	190	2	19.5	19.05	4	47.6	2
80X100	127	187	370	75	157	190.5	230	2	24.3	19.05	8	57.8	2.7
100X150	165	223	405	98	216	241.3	280	2	25.9	22.22	8	71.4	4.8

ALL DIMENSIONS ARE IN MM

Note : 300 Class Dimensions on request.



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