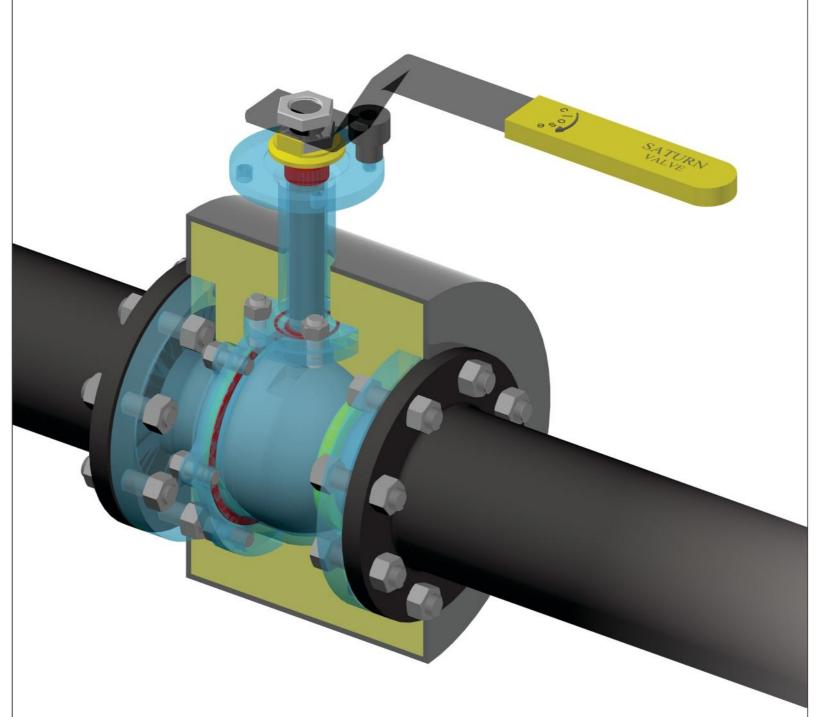
ENGINEERING RE-DEFINED





EXTENDED STEM BALL VALVE











Mevada Engineering Works Pvt. Ltd. (MEWPL) offers Extended Stem Ball valve for industrial applications like hot & cold water, liquid ammonia etc. where insulation is required to prevent energy loss & easy operation of valve & on line gland maintenance is necessary. Variation of stem extension is available up to 175mm.

Size	Туре	Class	Model No.
15.000	Standard	150	BL-X-2-F-F-A1
	Fire Safe	150	BL-FX-2-F-F-A1
15-200 mm	Standard	300	BL-X-2-F-F-A2
1/2" to 8"	Fire Safe	300	BL-FX-2-F-F-A2
	Standard	*600	BL-X-2-F-F-A3
	Fire Safe	*600	BL-FX-2-F-F-A3

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

FLANGE DIMENSIONS: - ASME B16.5 / BS 10 / DIN 1092-1

STANDARD COMPLIANCE

END TO END: - ASME B16.10

NACE MR 01-75 COMPLIANT

SR.NO

1

2 3

4

5

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11 12

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16

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21

22

BODY

STEM

SEAT

BALL

THRUST WASHER

GLAND SPACER

LOCK WASHER

GLAND NUT

BODY STUD

BODY NUT

ADAPTER

STOPPER

LEVER

GRUB SCREW

STUFFING BOX

STUFFING BOX BOLT

LEVER NUT ANTISTATIC DEVICE

BELLEVILE WASHER

BODY SEAL PRIMARY

BODY SEAL SECONDARY

GLAND SEAL

DESIGN: - ASME B 16.34, BS EN ISO 17292 PRESSURE TESTING: - API 598 / BS EN ISO 12266-1

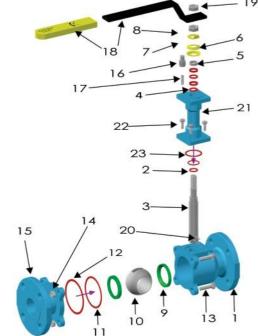
MOUNTING PAD :- ISO 5211 / DIN 3337 MATERIAL CERTIFICATION: - DIN 50.049-3 1B

DESCRIPTION

QUALITY SYSYTEMS/CERTIFICATIONS: - ISO 9001

Cryogenic service Ball valve is also available to satisfy the need of Road Tankers, Terminal Unloading stations, High purity cryogenic systems, Steel Production plants, LN2, CO2 storage vessels etc. They are designed & manufactured as per BS 6364 and BS EN ISO 17292 and tested as per API 598 & BS EN ISO 12266-1.





		\ /	/12		
			to no	0	
			#10	1	
			10	9 13 1	
		-	11		
		MATERIAL			
A 216 GR. WCB	A 352 GR. LCB/A 352 GR. LCC	SS304	SS304 L	\$\$316	SS316 L
	DTEE	GGT/CFT/TFM 160		A 351 GR. CF8M	A 351 GR. CF3M
	SS304/SS316	SS304	SS304 L	SS316	SS316L
		TFE/GFT/CFT/GRAF		33310	33316L
		\$\$316			
	SPRING	G STEEL ZINC PLAT	ED/SS304		
	SPRING	G STEEL ZINC PLAT	ED/SS304		
	\$\$304			SSS	316
	PTFE	GFT/CFT/TFM 160			
A 351 G	R. CF8/A 351 GR. CF8M		A 351 GR. CF3	A 351 GR. CF8M	A 351 GR. CF3M
		PTFE			
A 193 GR. B7	A 193 GR. B7M	GRAPHITE	02 CD D7/A 1 0	3 GR. B8/A 1 93 GR.	DOM
A 194 GR. 2H	A 193 GR. 2HM			93 GR. 8/A 1 93 GR.	
A 216 GR. WCB					
7.2.0		ON STEEL ZINC PLA		7,007,011,01011	
	HIC	GH TENSILE ALLOY	STEEL		
	CARBON STEEL	POWDER COATE	D/STAINLESS STEE	L	
	CARBO	ON STEEL ZINC PLAT	TED/SS304		
		SS316 L			
A 216 GR. WCB	A 352 GR. LCB/A 352 GR. LCC	A 351 GR. CF8	A 351 GR. CF3	A 351 GR. CF8M	A 351 GR. CF3M







A 193 GR. B8

PTFE/GRAPHITE



DESIGN FEATURES

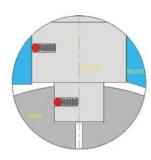


Extension

Extended length of stem provides solution for use in services where access to operator is difficult or to provide insulation over valve to prevent loss of energy. Extension also provides easy access to gland packing to make maintenance & replacement easy.

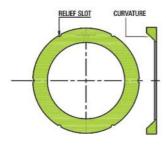
Blow-out Proof Stem

Stem is retained through bolted stuffing box which prevents ejection of stem under pressure or when gland packing is removed or loosened.



Anti-Static Device

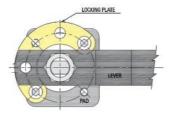
When static are generated due to high velocity of fluid and concentrated on the ball, the spring-loaded pins installed on stem are provided to ensure electrical continuity throughout the ball, stem & body. In addition to this the inter components like graphite body seal & gland seal have good electric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



Seat Design

curvature design feature minimize between the ball & cold flow, lowers torque and reduced wear.

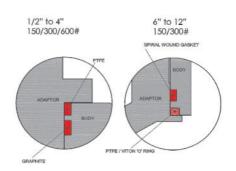
The special design seat feature relief slots or seat O.D. Clearance The pressure relief slots design also features automatic pressure to relive pressure past the upstream seat. This design reduces relief from upstream in continuos pressure. During closing of the friction, minimize seat wear and lowering operating torque. The valve, the maximum surge pressure occurs, during which the downstream seat can be forced to intrude into the ball port and valve seat when the valve is in open position, thus it prevent 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.

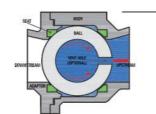




ISO 5211 MOUNTING PAD

All our 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.





Vent Hole in Ball (optional)

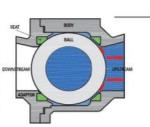
When the pressure inside the valve body cavity exceeds the line pressure due to thermal expansion of the liquids entrapped in the valve body; to relieve this vapor pressure positively vent hole is provided towards upstream that helps preventing seat life, reduces operational torque and chances of accidents.

Double Body Seals

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.

Note: Dual body seal arrangement is provided only in Fire safe ball valves



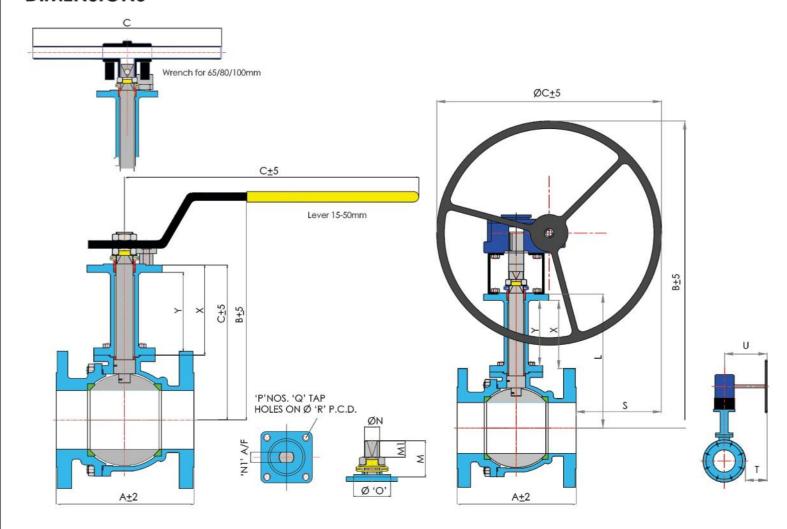
Floating Ball

A Floating Ball design offer efficient bi-directonal 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.



DIMENSIONS



												ILL BORE	100000000000000000000000000000000000000	150												
VALVE SIZE	A	100 INSULATIO FROM	TENSION 125 ON THICKN FLANGE (RFACE OF	150 IESS D D.D. TO LO	175 ISTANCE OWER	100 TOTAL	TENSION 125 HEIGHT O	150 F ISO PAI	175 D FROM	м	M1	Ø N	A/F N1	ØO	P	Q	PCD Ø R	ISO 5211	← E 100	125	N HEIGHT (150 GHT (B)	X)→ 175	с	s	т	U
15	108	70	95	120	145	129.5	154.5	179.5	204.5	15	9.5	11.1	6.3	25	4	M5	36	F03	157.0	182.0	207.0	232.0	125	-		-
20	118	70	95	120	145	133	158	183	208	16.5	7.5	11.1	6.3	30	4	M5	42	F04	164.0	189.0	214.0	239.0	125			
25	127	70	95	120	145	139.5	164.5	189.5	214.5	24.7	12	12.7	7.9	30	4	M5	42	F04	175.2	200.2	225.2	250.2	150			
40	154	70	95	120	145	146	171	196	221	32.7	13.7	14.3	9.5	35	4	M6	50	F05	189.0	214.0	239.0	264.0	180		-	-
50	178	70	100	125	150	160	185	210	235	34	15	17	11.1	55	4	M8	70	F07	203.0	228.0	253.0	278.0	200		-	-
80	203	75	105	130	155	188.5	213.5	238.5	263.5	40	20.6	23.8	15.9	70	4	M10	102	F10	271.9	296.9	321.9	346.9	335		-	120
100	229	80	105	130	155	208	233	258	283	45.5	21.2	28.6	19	70	4	M10	102	F10	306.3	331.3	356.3	381.3	335	-	-	1 = 1
150 LEVER	267	120	145	170	195	273	298	323	348	66.5	39.4	35	22.2	85	4	M12	125	F12	378.1	403.1	428.1	453.1	500		-	1180
150 GEAR	267	120	145	170	212.5	273	298	370	348	(+)		-	-	-	-	-		-	507.5	532.5			350	121.5	143	283
200 GEAR	292	130	160	185	210	320	345	370	395	156	20.28	30	14	85	4	M12	125	F12	693	718	505.72		600	239	160	332

												FULL E	BORE CI	ASS 300													
VALVE SIZE	A	100 II	XTENSION 125 NSULATION STANCE A COMODA THICKN	150 THICKNE VAILABLE	175 SS TO	100	125	HEIGHT (150 HEIGHT (L	м	ISO PAD	Ø N	A/F N1	ØO	90 P	Q	PCD Ø R	ISO 5211	← E 100	← EXTENSION HEIGHT (X) → 100 125 150 175 HEIGHT (B)			с	h	s	T	U	
15	140	70	95	120	145	129.5	154.5	179.5	204.5	15	9.5	11.1	6.3	25	4	M5	36	F03	157.0	182.0	207.0	232.0	125	22		*	
20	152	65	90	115	140	133	158	183	208	16.5	7.5	11.1	6.3	30	4	M5	42	F04	164.0	189.0	214.0	239.0	125	22		300	
25	165	65	90	115	140	139.5	164.5	189.5	214.5	24.7	12	12.7	7.9	30	4	M5	42	F04	175.2	200.2	225.2	250.2	150	23		121	
40	190	55	80	105	130	146	171	196	221	32.7	13.7	14.3	9.5	35	4	M6	50	F05	189.0	214.0	239.0	264.0	180	24			
50	216	65	90	115	140	160	185	210	235	34	15	17	11.1	55	4	M8	70	F07	203.0	228.0	253.0	278.0	200	24		VEN	
80	282	70	95	120	145	188.5	213.5	238.5	263.5	40	20.6	23.8	15.9	70	4	M10	102	F10	271.9	296.9	321.9	346.9	335	64			10
100	305	70	95	120	145	208	233	258	283	45.5	21.2	28.6	19	70	4	M10	102	F10	306.3	331.3	356.3	381.3	335	74			(*)
150 LEVER	403	100	125	150	175	273	298	323	348	66.5	39.4	35	22.2	85	4	M12	125	F12	378.1	403.1	428.1	453.1	500	78	4	-	-
150 GEAR	403	100	125	150	175	273	298	323	397				-		-			-	DIMENSIONS ON REQUEST		rer	350		40	124	283	
200 GEAR	419	120	145	170	195	322	347	372	397	156	20.28	30		85	4	M12	125	F12			ESI	600		175	141	332	



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