

Ball Valve

LBV Series

Floating Type



www.lubivalves.com

CAST IRON, DUCTILE IRON, WCB & STAINLESS STEEL

Introduction

Lubi LBV series Ball Valves are a Quarter turn type of Valves. It means that the valve can be fully opened or closed when the Ball is rotated a quarter turn.

LBV is Lubi's standard Ball Valve series which is Lever Operated. It has a rugged heavy duty construction available in various MOC's with large Ball Diameters & can sustain the load of heavy pipes.

LBD is Lubi's newly developed Direct Mounting Series which is designed in such a way that Actuators can be directly mounted on the valve without any use of Bracket Coupler or Adaptor arrangement. These series of valves are available in options such as with Lever Operation / Gear Operation or Pneumatic Actuated along with Solenoid Valve, Limit Switch & Air Filter Regulator.

Main Features

1. Valves are offered in two & three piece construction Floating design based on customers requirement.
2. Our valves are designed to have minimal pressure drop & keep the flow rate high as the full port diameter remains same through the length of the valve.
3. We provide a ISO 5211 direct mounting pad on top of the valve such that the actuator can be directly mounted on to the valve.
4. We provide square stems for ease of actuator mounting without the need to use any coupler arrangement.
5. All our Valves have Blow-Out Proof Stem Design which will prevent the stem from being pushed out due to the pressure inside the valve.
6. The Stem is sealed with the help of stem packing which is compressed using a Gland Flange. Due to this arrangement tightening of stem packing is possible with the help of Gland Flange when the valve is under operation with the need to remove the lever / gear operator or actuator from the assembly.
7. The two piece Ball Valve can be locked with the help of pad lock in fully open or closed position.
8. The Balls have smooth mirror finish for tight sealing & obtaining lower operating torques.



BALL VALVES



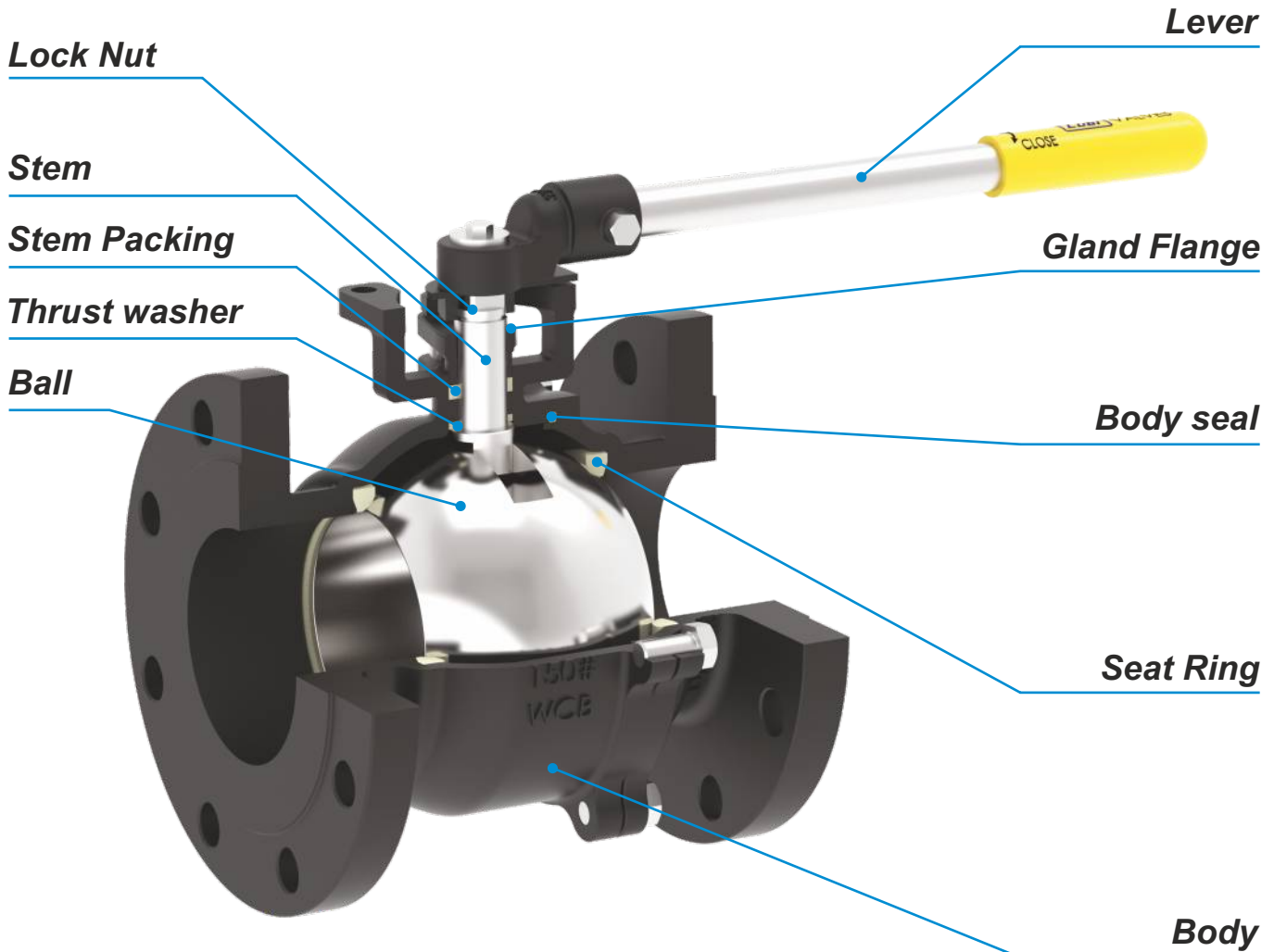
9. The two piece valves have a Fire -Safe feature as per API 607, which means that when the PTFE seat melts, the ball tightly butts with the metal seat which controls any leakage.
10. We have designed our seats with fine slots which are used for relieving pressure and also helps to prevent seat damage during closed position at high temperature.
11. Our Cast Iron & Carbon Steel Valves are CED Coated for better corrosive resistance & long lasting life.



TWO PIECE BALL VALVE

Design Features

LBV2P150

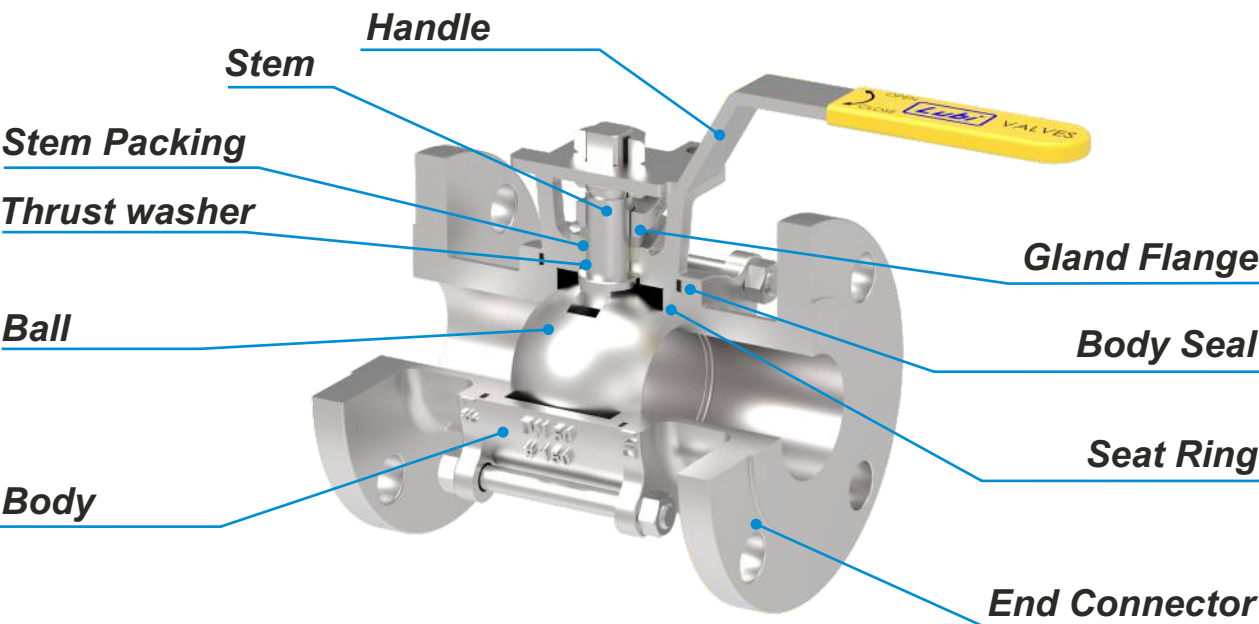


- Blowout Proof SS Stem.
- Removable Handle.
- Lockable in Full open & Closed Position.
- Actuator Mounting Pad.
- CED coated body in WCB Moc.
- PTFE seats with low pressure back seal.
- Mirror Finished SS Ball.
- Anti-Static Stem Design.
- Fire safe seat feature.
- Pressure Relieving Mechanism.

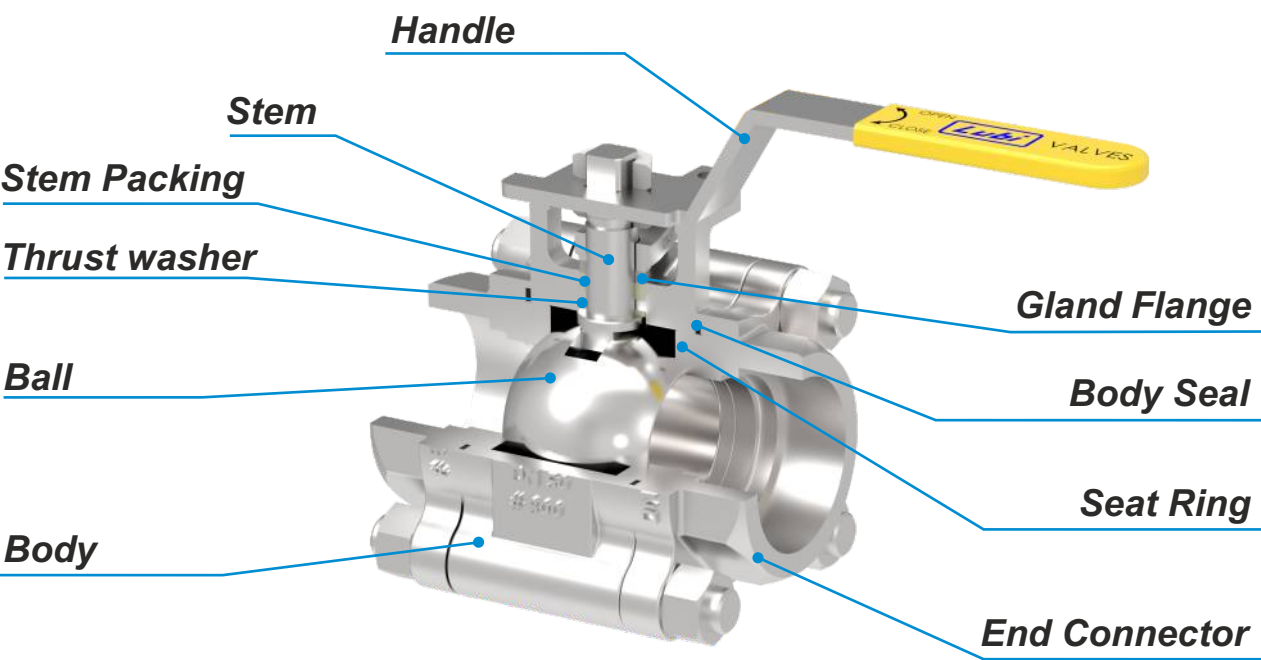
THREE PIECE BALL VALVE

Design Features

LBV3P150



LBV3P800



Applications

- Plumbing
- Water & Wastewater
- Chemical & Petrochemicals
- Pharmaceutical Industries
- Food & Beverage Industries
- Pulp & Paper Industries
- HVAC Systems

Standards

Design Standard	API 6D / ISO 17292	
Face – Face Dimensions	API 6D / ASME B16.10	
End Details	Flanged End	ASME B16.5
	Screwed End BSPP	ISO 228-1
	Screwed End NPT	ASME B1.20.1
	Socket Weld End	ASME B16.11
Testing Standard	API 6D / API 598 / ISO 5208	

PRESSURE RATING – bar (psi)

Test Type	# 150	# 800 *
Hydrostatic Shell Test	30 bar (450psi)	207 bar (3025 psi)
Hydrostatic Seat Test	22 bar (325 psi)	76 bar (1125 psi)
Pneumatic Seat Test	7 bar (100 psi)	7 bar (100 psi)
Max. Working Pressure	20 bar (300 psi)	69 bar (1025 psi)

Torque* [Nm]

MATERIAL OF CONSTRUCTION

Size mm	2 PC	3 PC	3 PC	Component	150#	800#
	#150	#150	#800			
15	10	4.5	11	Body	WCB , CF8 , CF8M	
20	28	5	14	End – Connector	WCB , CF8 , CF8M	
25	34	8	28	Gland Flange	WCB , CF8 , CF8M	
40	46	26	32	Ball	CF8 , CF8M	
50	124	32	48	Stem	SS 304 , SS 316	
65	130	-	-	Seat	PTFE , R-PTFE	Carbon Filled PTFE (25%)
80	250	-	-	Stem Packing	Virgin PTFE	
100	650	-	-	Body Seal	Virgin PTFE	
				Gland Bush	SS 304 , SS 316	
				Handle	MS	

NOTE :

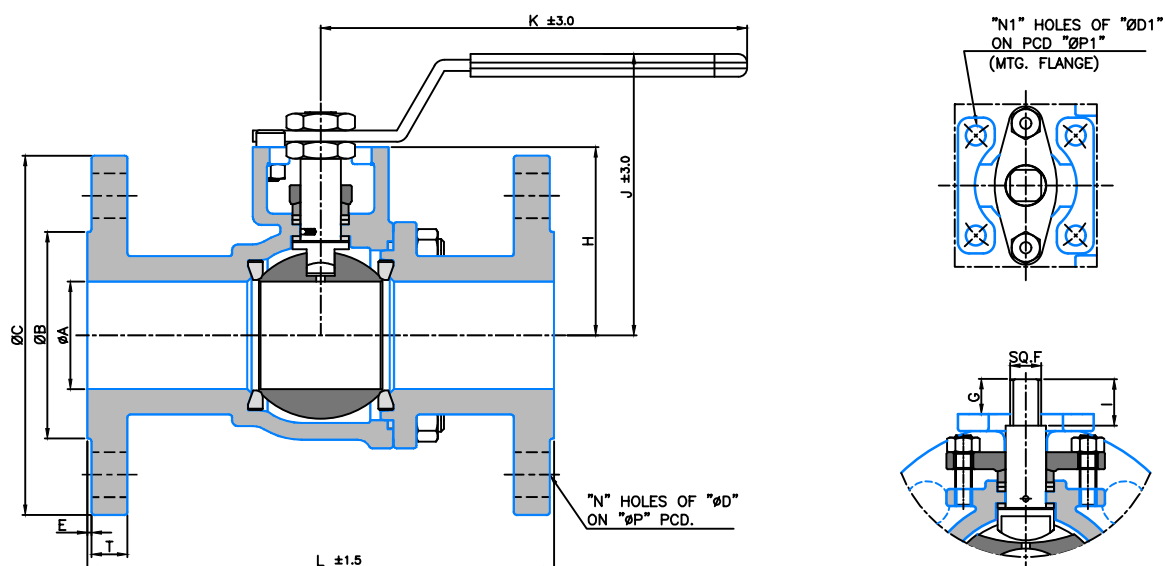
We also provide Ball Valves with Pneumatic actuator as well as Electric Actuator for automation purposes.

Pneumatic Actuators are available with

- 1.) Solenoid valve,
- 2.) Limit switch
- 3.) Air filter regulators.

Size / Dimensions

Two Piece 150#



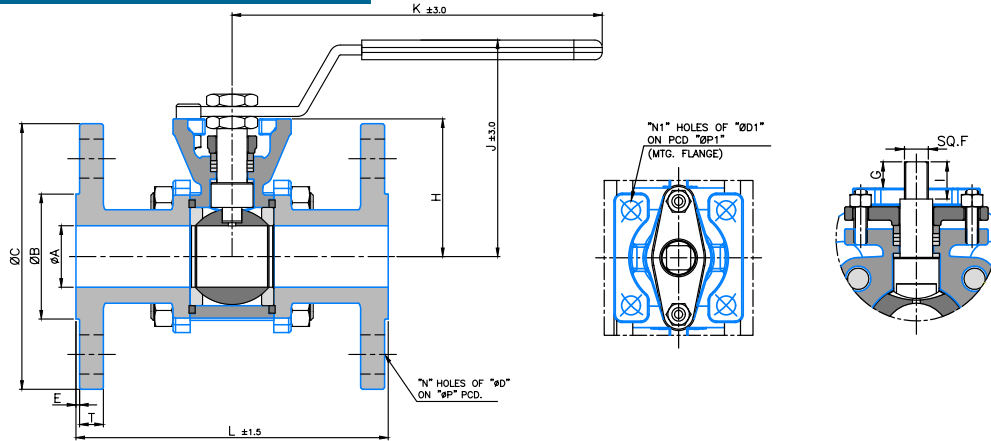
Size mm	Size in	ØA	ØB	ØC	T	E	N	ØD	ØP	J	K	N1	ØD1
15	1/2"	12.7	35.1	90	8.3	1.5	4	15.87	60.5	58	141	4	6
20	3/4"	19	42.9	100	9	1.5	4	15.87	69.8	64	141	4	6
25	1"	25	50.8	108	9.7	1.5	4	15.87	79.2	88	150.75	4	7
40	1-1/2"	38	73	127	12.7	1.5	4	15.87	98.6	99.4	150.75	4	7
50	2"	50	91.9	152	14.2	1.5	4	19.05	120.6	129	201.5	4	9
65	2-1/2"	63	104.6	178	15.7	1.5	4	19.05	139.7	141	201.5	4	9
80	3"	75	127	190	17.5	1.5	4	19.05	152.4	164	262	4	11
100	4"	100	157.2	229	22.4	1.5	8	19.05	190.5	181	362	4	11

Size mm	Size in	ØP1	SQ.F	G	H	I	L	MTG. FLANGE	WEIGHT FOR DM (APPROX) KG	WEIGHT FOR LEVER (APPROX)
15	1/2"	36	9	12	71.5	15	108	F03	1.21	1.18
20	3/4"	36	9	12	77.5	15	117	F03	1.69	1.66
25	1"	50	9	10	66	14	127	F05	2.29	2.45
40	1-1/2"	50	11	12.4	78.9	16.5	165	F05	4.25	4.40
50	2"	70	14	18.2	99.2	21.6	178	F07	7.2	7.55
65	2-1/2"	70	14	18.5	110	22	191	F07	10.76	11.11
80	3"	102	17	24	142.5	27.5	203	F10	14.77	15.63
100	4"	102	17	24.2	27.7	27.7	229	F10	24.41	25.39

Note: All Dimensions are in mm unless mentioned otherwise.

Size / Dimensions

Three Piece 150#

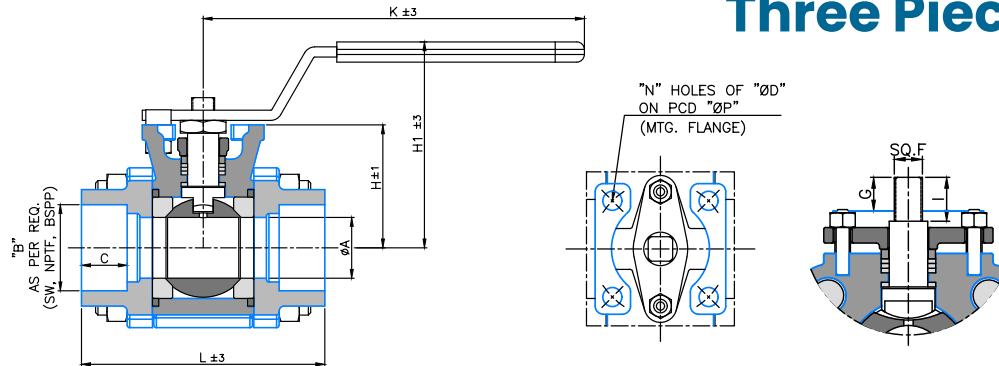


Size mm	Size in	$\varnothing A$	$\varnothing B$	$\varnothing C$	T	E	N	$\varnothing D$	$\varnothing P$	J	K	N1	$\varnothing D1$
15	1/2"	12.7	35.1	90	8	1.5	4	15.87	60.5	57	109	4	6
20	3/4"	19	42.9	100	8.8	1.5	4	15.87	69.8	63	109	4	6
25	1"	25	50.8	108	9.7	1.5	4	15.87	79.2	88	150.5	4	7
40	1-1/2"	38	73	127	12.7	1.5	4	15.87	98.6	96	150.5	4	7
50	2"	49	91.9	152	14.2	1.5	4	19.05	120.6	128.5	201.5	4	9

Size mm	Size in	$\varnothing P1$	SQ.F	G	H	I	L	MTG. FLANGE	WEIGHT FOR DM (APPROX) KG	WEIGHT FOR LEVER (APPROX)
15	1/2"	36	9	12	71.5	15	108	F03	1.25	1.20
20	3/4"	36	9	12.5	77.5	15	117	F03	1.76	1.70
25	1"	50	9	10	66	14	127	F05	2.33	2.48
40	1-1/2"	50	11	11	76	16.5	165	F05	4.35	4.51
50	2"	70	14	17.6	100	21.6	178	F07	7.48	7.83

Note: All Dimensions are in mm unless mentioned otherwise.

Three Piece 800#



Size mm	Size in	$\varnothing A$	$\varnothing B$			C	K	N	$\varnothing D$	$\varnothing P$	SQ.F	G
			SW	NPTF	BSPP							
15	1/2"	12.7	22	1/2"	1/2"	13	109	4	6	36	9	9
20	3/4"	19	27.4	3/4"	3/4"	13	109	4	6	36	9	9.5
25	1"	25	34	1"	1"	18	151	4	7	50	9	10.8
40	1-1/2"	38	49	1.5"	1.5"	19	151	4	7	50	11	11.9
50	2"	49	61.5	2"	2"	25	202	4	9	70	14	17.6

Size mm	Size in	H	H1	I	L	MTG. FLANGE	WEIGHT FOR DM (APPROX) KG	WEIGHT FOR LEVER (APPROX)
15	1/2"	42	57	13	65	F03	0.57	0.64
20	3/4"	48	63	13.5	76	F03	0.99	1.04
25	1"	59	79	14	96	F05	1.79	1.94
40	1-1/2"	76	94	16.5	116	F05	3.45	4.21
50	2"	100	129	21.6	150	F07	7.07	7.43

Note: All Dimensions are in mm unless mentioned otherwise.

LUBI INDUSTRIES LLP

Lubi Corporate Campus - Near Tragad Under Pass, S.P. Ring Road, Ahmedabad - 382 421. Gujarat, India.

Phone : +91 - 79 - 61700100, Fax No. : +91 - 79 - 61700399.

Sales Enquiries: sales@lubivalves.com • www.lubivalves.com

Product Improvement is a continuous process at 'LUBI'. The data given in this publication is therefore subject to revision.

00.01.230223.0222



ISO 9001



ISO 14001

Customer Care Number : 09824200800