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**VALVES**



Cast Iron, Ductile Iron,  
WCB & Stainless Steel  
**Ball Valves**



[www.lubivalves.com](http://www.lubivalves.com)

**LBV Series**



for  
HVAC  
INDUSTRIAL  
OIL & GAS  
WATER TREATMENT  
WASTEWATER PLANTS

# Ball Valves

## LBV Series

Two Piece & Three Piece  
Class #150, #300 & #800







## Standards

Design	ISO 17292
Flange Details	ASME B16.5
Face to Face Details	ASME B16.10
Pressure Test	ISO5208 / API598

## Material of Construction

Two Piece / Three Piece Ball Valve				
Part Name	Cast Iron	WCB	Stainless Steel	
Body	ASTM A126 Gr. CI	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M
Ball	ASTM A351 Gr. CF8			ASTM A351 Gr. CF8M
Thrust washer	Virgin PTFE			
Stem	AISI 304			AISI 316
Stem Packing	Virgin PTFE			
Body seal	Virgin PTFE			
Collar	AISI 304			AISI 316
Lock Nut	M.S. Zinc Plated		AISI 304	
Handle	M.S. Zinc Plated			
Seat Ring	Virgin PTFE			
Studs with Nut	M.S. Zinc Plated		AISI 304	

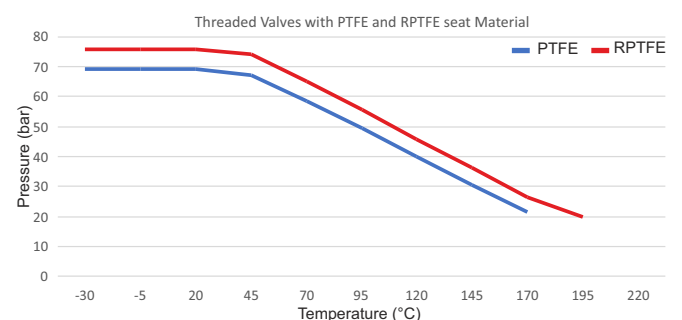
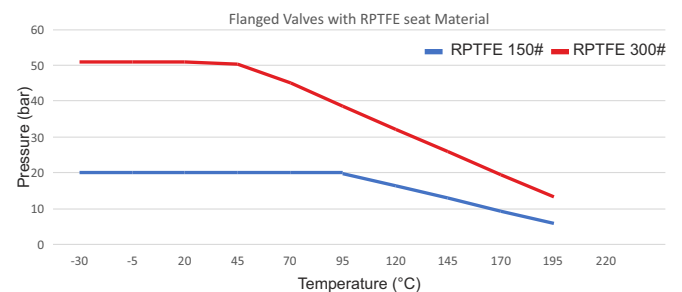
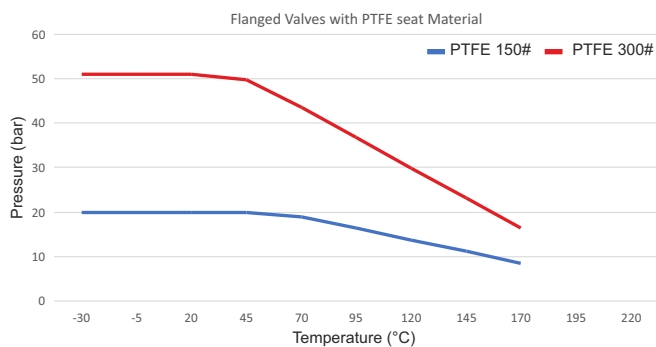
## Torque Data in Nm

Size	Two Piece		Three Piece	
	Class 150	Class 300	Size	Class 150
25	10	14	15	4.5
40	28	40	20	5
50	34	46	25	8
65	46	98	40	26
80	124	165	50	32
100	130	185		
150	250	350		
200	650	-		

## Test Pressure

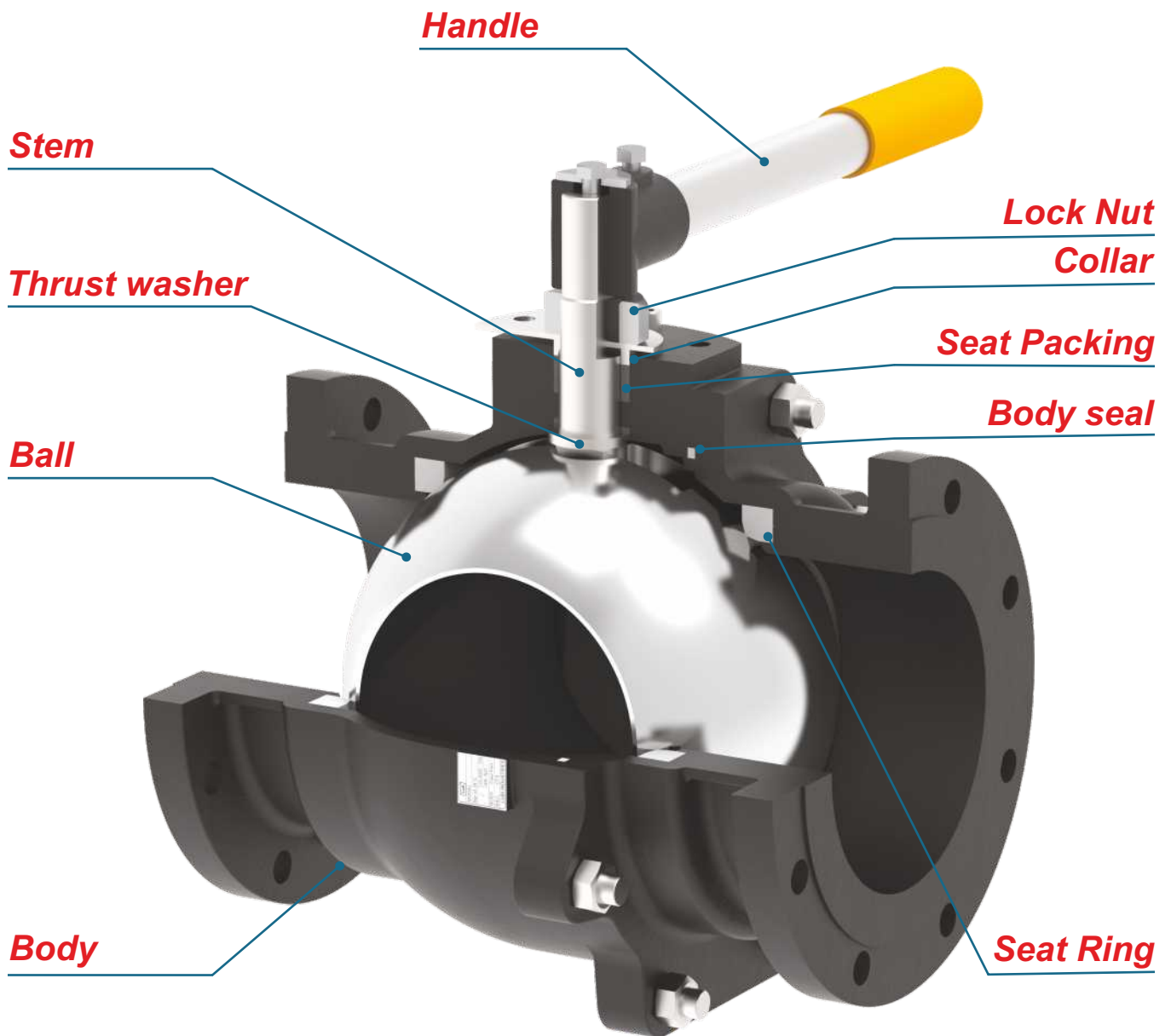
Class	Hydrostatic Shell Test	Hydrostatic Seat Test	Pneumatic Seat Test	Maximum Working pressure
<b>150</b>	30 bar (435 psi)	22 bar (319 psi)	5.5 bar (80 psi)	20 bar (290 psi)
<b>300</b>	77 bar (1116 psi)	56 bar (812 psi)	5.5 bar (80 psi)	51 bar (739 psi)
<b>800</b>	204 bar (2958 psi)	"PTFE" 76 bar (1102 psi) "RPTFE" 84 bar (1218 psi)	5.5 bar (80 psi)	136 bar (1972 psi)

## Pressure - Temperature Chart for Seat Materials

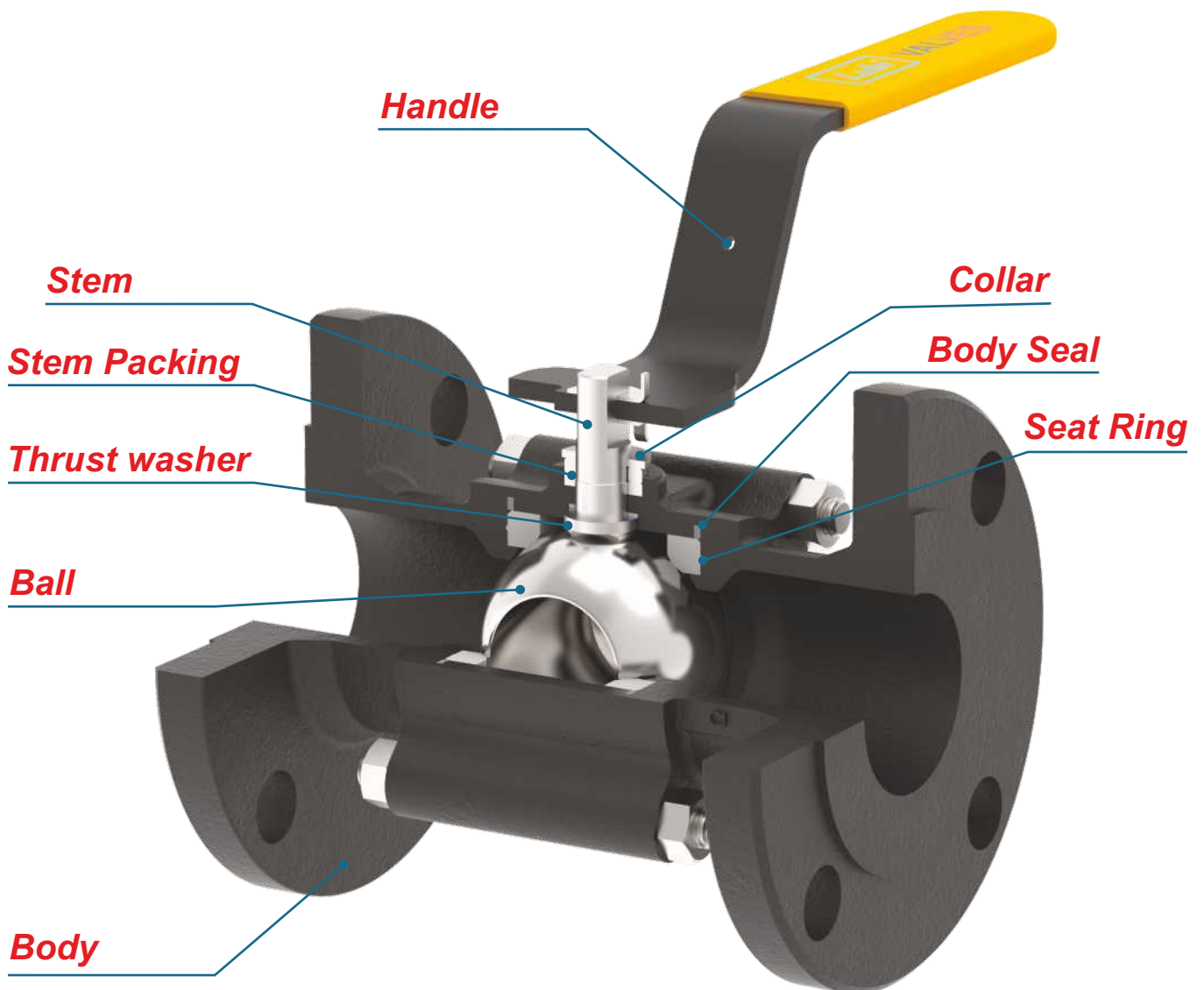


## TWO PIECE BALL VALVE

## Design Features



- Blowout Proof SS Stem.
- Removable Handle.
- Lockable in Full open & Closed Position.
- Actuator Mounting Pad.
- CED coated body in CI & WCB Series.



- PTFE seats with low pressure back seal.
- Mirror Finished SS Ball.
- Anti-Static Stem Design.
- Fire safe seat feature.
- Pressure Relieving Mechanism.

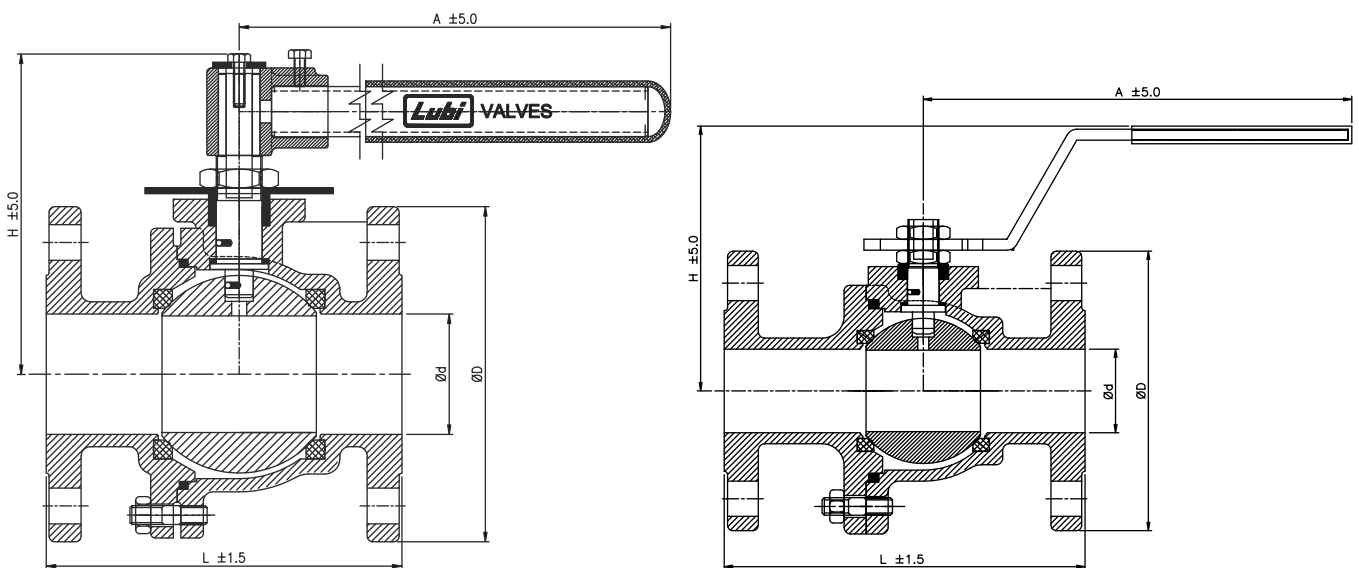
# BALL VALVE

## Main Features

- It is suitable where simple open/shut application is needed.
- Flow Rate can also be controlled by partially opening or closing the valve to various degrees.
- Our valves are designed to have minimal pressure drop & keep the flow rate high.
- They are easy to operate as from full opening to full closing only needs a 90° rotation.
- Valves are designed & manufactured with Blow out proof Stem feature which will prevent the stem from being pushed out due to the pressure inside the valve.
- The stem is sealed with stem packing to prevent leakage & held in position by housing which is bolted into the valve body.
- The two piece ball valve can be locked by a pad lock in full open or closed position.
- We provide actuator mounting pad for easy automation as per standard ISO 5211 in two piece ball valve.
- Our Balls have smooth mirror finish for tight sealing & obtaining lower operating torques.
- 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.
- All valves have Anti static feature as standard.
- Our two piece valves have a Fire -Safe feature, which means that when the PTFE seat melts, the ball tightly butts with the metal seat which controls any leakage.

## Size / Dimensions

### TWO-PIECE FULL-BORE BALL VALVE (#150 & #300)

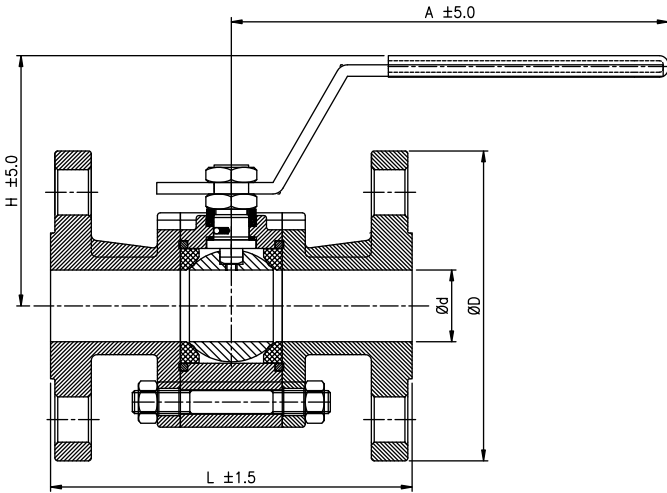


### SIZE / DIMENSIONS

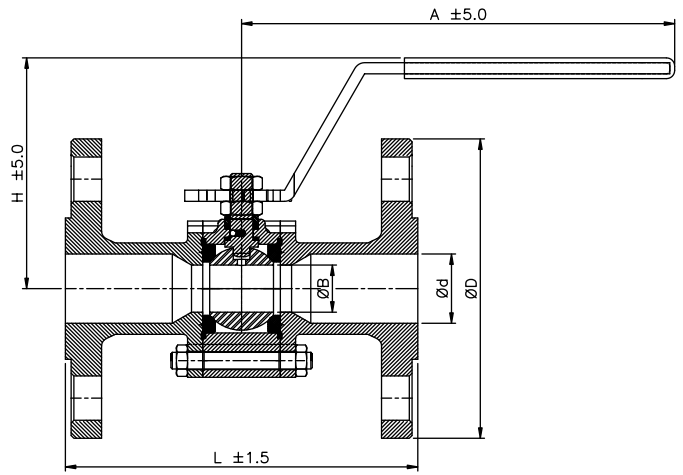
Size DN	Size NPS	ØD		L		H		Ød	A
		#150	#300	#150	#300	#150	#300		
25	1	108	125	127	165	83.5	85	24	149
40	1-1/2	127	156	165	190	119	119	38	193
50	2	152	165	178	216	139.5	139.5	49	200
65	2-1/2	178	191	190	241	170	170	62	317
80	3	191	210	203	282	170	170	75	378.5
100	4	229	254	229	305	185	185	98	378.5
150	6	280	318	394	403	247	247	150	697
200	8	345	-	457	-	324	-	198	756

Note: All Dimensions are in mm unless mentioned otherwise.

THREE PIECE FULL-BORE BALL VALVE (#150)



THREE PIECE REDUCE-BORE BALL VALVE (#150)



SIZE / DIMENSIONS

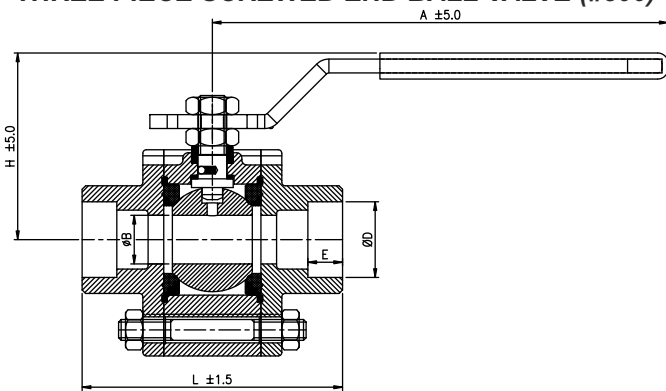
Size DN	Size NPS	ØD	L	H	Ød	A
15	1/2	88.9	108	81.5	14	156.3
20	3/4	98.6	117	81.5	17	156.3
25	1	108	127	87.2	25	152.2
40	1-1/2	127	165	113.2	38	195.6
50	2	152.4	178	123	49	195.6

SIZE / DIMENSIONS

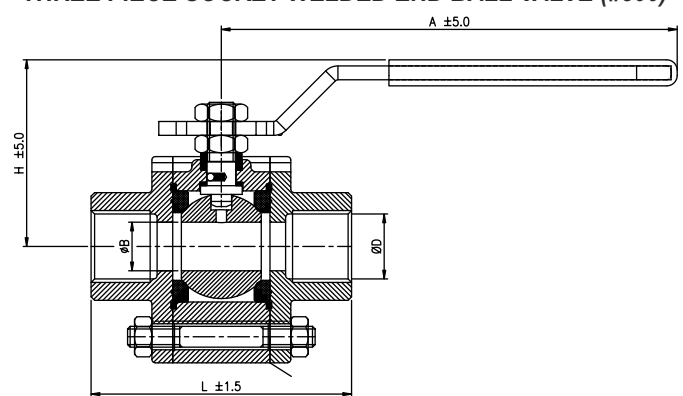
Size DN	Size NPS	ØD	L	H	Ød	ØB	A
25	1	108	127	83.5	25	17	156
40	1-1/2	127	165	108	38	32	196
50	2	152	178	113	51	38	196
65	2-1/2	180	186.5	123	64	49	196
80	3	191	203	129	80	55	215
100	4	229	229	142	102.5	74	215

Note: All Dimensions are in mm unless mentioned otherwise.

THREE PIECE SCREWED END BALL VALVE (#800)



THREE PIECE SOCKET WELDED END BALL VALVE (#800)



SIZE / DIMENSIONS

Size DN	Size NPS	ØD			ØB	L	H	A
		BSPT	NPT	SW (ØDXE)				
15	1/2	1/2"	1/2"	Ø21.8X10	14	75	54	131
20	3/4	3/4"	3/4"	Ø27.2X13	17	75	54	131
25	1	1"	1"	Ø33.8X13	25	92	62	145
40	1-1/2	1-1/2"	1-1/2"	Ø48.6X13	38	114	76	180
50	2	2"	2"	Ø61.1X16	49	132	87	181

Note: All Dimensions are in mm unless mentioned otherwise.



## Ordering Key

LBV	025	1	F	2	F	WB	S	L
<b>Series</b>	<b>SIZE mm / in</b>	<b>Class</b>		<b>Construction</b>			<b>Ball Type</b>	
LUBI Ball Valve Floating Type	015 - 1/2" (DN 15) 020 - 3/4" (DN 20) 025 - 1" (DN 25) 040 - 1.1/2" (DN 40) 050 - 2" (DN 50) 065 - 2.5" (DN 65) 080 - 3" (DN 80) 100 - 4" (DN100) 150 - 6" (DN 150) 200 - 8" (DN 200)	1 - 150# 2 - 300# 3 - 600#		2 - 2 Piece 3 - 3 Piece			S - Solid Ball H - Hollow Ball	
			<b>End Connection</b>		<b>Bore Type</b>			<b>Operator</b>
			F - Flanged End B - BSPT Thread N - NPT Thread S - Socket Weld		F - Full Bore R - Reduce Bore			L - Lever P - Pneumatic Actuator E - Electric Actuator B - Bare Stem
						<b>Body Material **</b>		
						CI - Cast Iron DI - Ductile Iron WB - WCB C8 - CF8 CF - CF8M		

Note : \*\*Other Materials are available on request.

**VALVES**

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

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ISO 9001



ISO 14001

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