

# Instrumentation Ball Valves

SERIES - YBV01



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

## YDB VALVES LLP

- Competitive Price
- Better Product Flexibility
- Consistency & Optimum Service

*Innovations designed to improve operations and profitability*



## Our Company

YDB VALVES LLP, a pioneer manufacturing company having good experience in the designing and manufacturing of a new concept instrumentation Valves: Manifolds, Monoflanges, SBB & DBB Valves both in needle and ball types, Floating and Trunnion design Ball Valves, strictly produced in according to the most stringent quality standards of safety and efficiency.

We have a fully well-equipped modern in-house manufacturing facility using CNC lathes, VMC, etc. with highly motivated team and up to date technology assisting us to achieve reliable products at competitive price with better product flexibility, consistency and optimum service.

Our experience in the understanding of applications requirements, combined with our high flexibility, allows us to develop customized solutions designed for customers' specific needs.

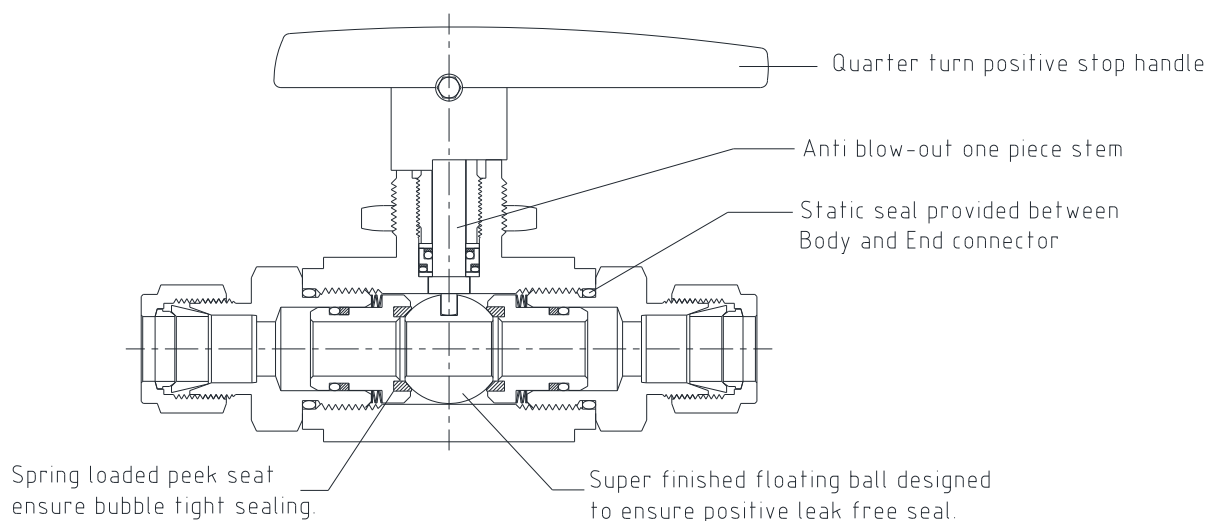
Our products are machined from the materials CF8M, SS316, SS316L, Duplex, Super Duplex, Monel, Inconel, etc.

Moreover, our valves production can be completed with complementary accessories, something that makes YDB VALVES a favourite and reliable partner for those companies that supply 'packages' of various matching goods. Our products are widely use in the Chemical, Petrochemical, Oil & Gas, Off-Shore, On-Shore, Power Generation, Naval industries, etc., used as components of plants and machineries with a high technological value.

# BALL VALVES : SERIES - YBV01

## FEATURES / BENEFITS

- Available in SS316
- Heat Code Traceable to certified material test report
- Three piece body design, Panel mountable
- Low torque operation, Bi-directional Flow
- PTFE or PEEK Ball seat
- Variety of end configurations includes YDB ODT  
Tube Fittings, Male/Female NPT, BSPT pipe connection
- Every valve is factory tested



## OPERATING PARAMETERS

Pressure Rating : upto 2500 psig (170 bar) at CWP with PTFE seat  
: upto 6000 psig (413 bar) at CWP with Peek seat

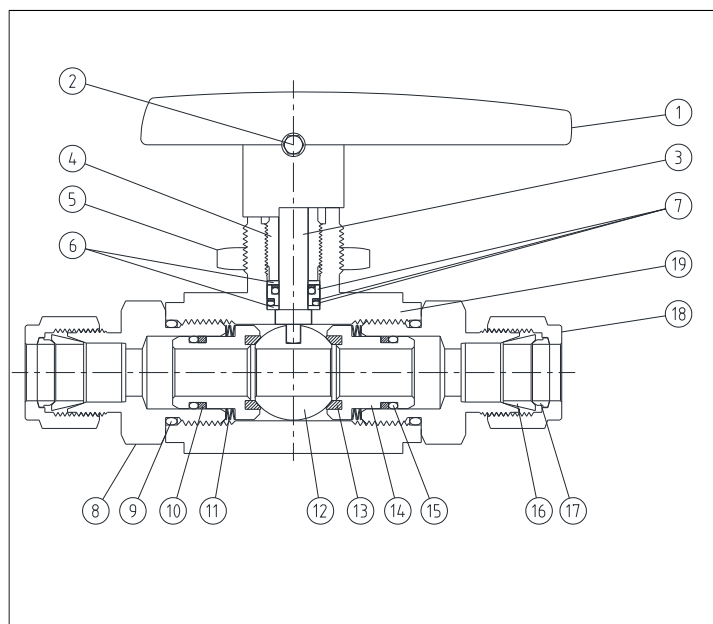
Temperature Rating : -50°C to 160°C

## APPLICATIONS

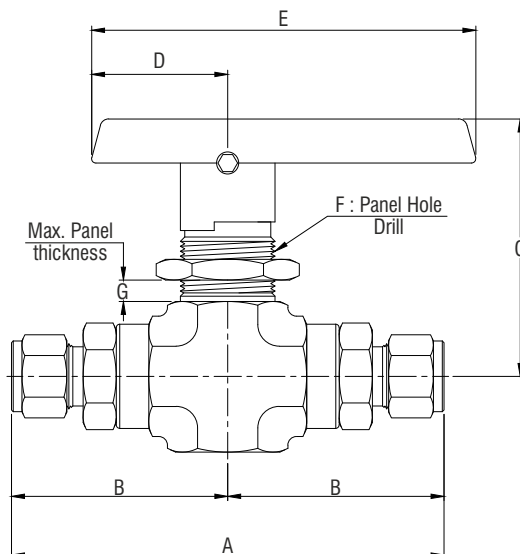
- Instrument Air Lines
- General Plant Service
- High Pressure Instrument Lines
- CNG

## MATERIAL OF CONSTRUCTIONS

Sr. No.	DESCRIPTION	MATERIAL
1	HANDLE	PHENOLIC NYLON
2	HANDLE LOCK SCREW	STAINLESS STEEL
3	VALVE STEM	SS316
4	PACKING NUT	SS316
5	PANEL NUT	SS316
6	STEM WASHER	SS316
7	STEM SEALING WITH,	SS316
	'O' RING	VITON
	BACKUP WASHER	PTFE
8	END CONNECTOR	SS316
9	CONNECTOR 'O' RING	VITON
10	SEAT RETAINER BACKUP RING	PTFE
11	SPRING	STAINLESS STEEL
12	BALL	SS316
13	VALVE SEAT	PEEK
14	SEAT RETAINER	SS316
15	RETAINER 'O' RING	VITON
16	FRONT FERRULE	SS316
17	BACK FERRULE	SS316
18	FERRULE NUT	SS316
19	VALVE BODY	SS316



## BALL VALVES : SERIES - YBV01



### STANDARD CONFIGURATION DIMENSIONS

END CONNECTOR Inlet & Outlet	Orifice	cv	DIMENSION (MM)							PART NO.
			A	B	C	D	E	F	G	
1/8" ODT	2.4	0.21	69.0	34.5	25.0	19.1	47.8	14.7	3.3	YBV01-TT2
1/8" Female NPT	4.2	0.93	54.4	27.2	25.0	19.1	47.8	14.7	3.3	YBV01-FF2N
1/8" Male NPT	4.2	0.93	60.0	30.0	25.0	19.1	47.8	14.7	3.3	YBV01-MM2N
1/4" Male NPT	4.2	0.93	68.6	34.3	25.0	19.1	47.8	14.7	3.3	YBV01-MM4
3mm ODT	2.2	0.18	68.8	34.8	25.0	19.1	47.8	14.7	3.3	YBV01-TT3M
1/4" ODT	4.7	1.04	88.4	44.2	41.5	25.4	63.5	19.6	6.4	YBV01-TT4
1/4" Female NPT	6.4	2.34	76.8	38.4	41.5	25.4	63.5	19.6	6.4	YBV01-FF4
1/4" Male NPT	6.4	2.34	82.2	41.1	41.5	25.4	63.5	19.6	6.4	YBV01-MM4
3/8" ODT	6.4	2.34	91.4	45.7	41.5	25.4	63.5	19.6	6.4	YBV01-TT6
6mm ODT	4.7	1.04	89.0	44.5	41.5	25.4	63.5	19.6	6.4	YBV01-TT6M
8mm ODT	6.4	2.34	90.4	45.2	41.5	25.4	63.5	19.6	6.4	YBV01-TT8M
10mm ODT	6.4	2.34	92.0	46.0	41.5	25.4	63.5	19.6	6.4	YBV01-TT10M
3/8" Female NPT	10.3	6.42	99.0	49.5	66.5	38.1	101.6	22.9	9.7	YBV01-FF6
1/2" Female NPT	10.3	6.42	109.2	54.6	66.5	38.1	101.6	22.9	9.7	YBV01-FF8
1/2" ODT	10.3	6.42	118.8	59.4	66.5	38.1	101.6	22.9	9.7	YBV01-TT8
1/2" Male NPT	10.3	6.42	112.8	56.4	66.5	38.1	101.6	22.9	9.7	YBV01-MM8
3/4" ODT	10.3	6.42	118.4	59.2	66.5	38.1	101.6	22.9	9.7	YBV01-TT12
12mm ODT	9.5	5.57	118.4	59.2	66.5	38.1	101.6	22.9	9.7	YBV01-TT2M
16mm ODT	10.3	6.42	118.4	59.2	66.5	38.1	101.6	22.9	9.7	YBV01-TT6M

### TESTING :

- Standard Test : Each valve is factory tested with nitrogen at 2000 psig (138 bar) for leakage at the seat and packing.
- Optional Hydrostatic test : This test is performed with de-ionised water at 1.5 time the working pressure.

Dimensions are for reference only and subject to change

# ORDERING INFORMATION

VALVE DESCRIPTION	ORDERING NUMBER FOR TUBE CONNECTIONS	ORDERING NUMBER FOR PIPE END CONNECTIONS
BALL VALVES	<u>YBV01</u> - <u>TT</u> <u>8</u> - <u>SS</u> - <u>E</u> - <u>V</u> 1 2 3 4 5 6	<u>YBV01</u> - <u>FF</u> <u>6</u> <u>N</u> - <u>SS</u> - <u>F</u> - <u>V</u> 1 2 3 4 5 6 7

## 1. VALVE SERIES CODE DESCRIPTION

BALL VALVES SERIES : YBV01

## 2. END CONNECTION TYPE CODE DESCRIPTION

TT - YDB ODT Tube Fittings  
MM - Male pipe thread  
FF - Female pipe thread  
MT - Male pipe thread to YDB ODT Tube Fittings  
MF - Male pipe thread to Female pipe thread

## 3. END CONNECTION SIZE CODE DESCRIPTION

### TUBE OD SIZE

FRACTIONAL		METRIC	
SIZE	CODE	SIZE	CODE
1/4" ODT	4	6mm ODT	6M
3/8" ODT	6	8mm ODT	8M
1/2" ODT	8	10mm ODT	10M
3/4" ODT	12	12mm ODT	12M
1" ODT	16	16mm ODT	16M

### PIPE THREAD SIZE

SIZE	CODE	SIZE	CODE
1/8"	2	1/2"	8
1/4"	4	3/4"	12
3/8"	6	1"	16

## 4. PIPE THREAD TYPE CODE DESCRIPTION

N - Male / Female NPT  
RT - Male / Female BSPT  
RG - Female BSP  
SE - SAE Straight Thread

## 5. MATERIAL OF CONSTRUCTIONS

SS - SS316  
CS - Carbon Steel

## 6. VALVE / SEAT MATERIAL

F - Peek  
E - PTFE

## 7. SEAL MATERIAL

B - Buna-N  
M - EPDM  
V - Viton®



# YDB VALVES LLP

An ISO 9001:2015 Certified Manufacturing Co.

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