



Instrumentation Valves

- Needle Valves
- Manifold Valves
- Gauge Valves
- Ball Valves
- Check Valves
- Relief Valves

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.

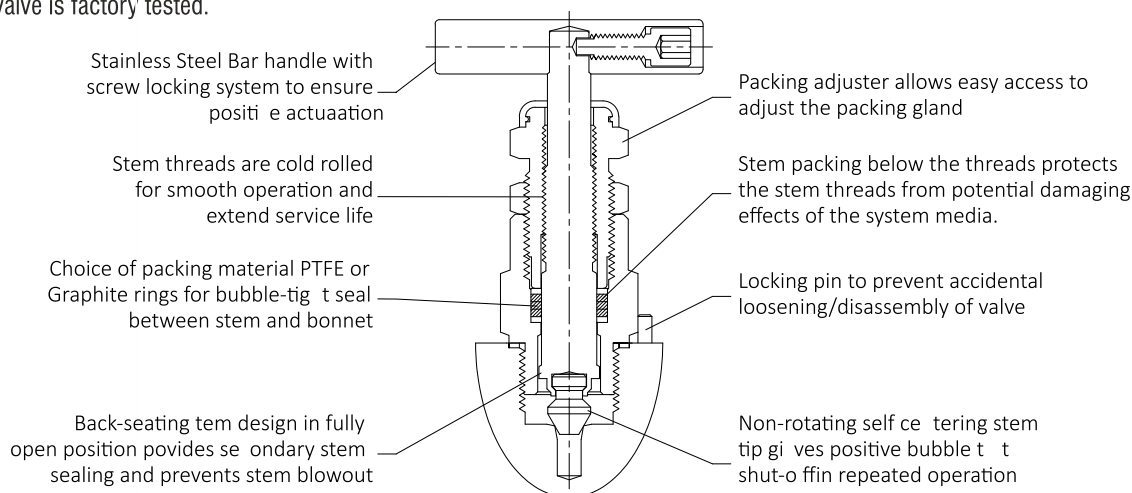
Our products are machined from the materials CF8M, SS316, SS316L, Duplex, Super Duplex, Monel, Inconel, etc.

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.

NEEDLE VALVES : SERIES - YNV01

FEATURES / BENEFITS

- Available in material SS316, Inconel, Monel, Duplex etc. all wetted parts in accordance with NACE MR01-75
- Heat Code Traceable to certified material test report
- Low operating torques
- Bar stock Body in Straight Pattern
- Anti Blow-out stem, Variety of stem tips
- PTFE packing standard
- Flow coefficient (Cv) From 0.35 to 1.8
- Orifice size : 0.156" (4.0 mm), 0.250" (6.4mm), 0.375" (9.5mm)
- Variety of end configuration includes YDB ODT Tube Fittings, Male / Female NPT, BSPT, BSPP pipe and tube socket weld connections
- Every valve is factory tested.



OPERATING PARAMETERS

Pressure Rating : upto 6000 psig (413 bar) at CWP
 Temperature Rating : -54°C to 232°C with standard PTFE packing
 upto 426°C with optional Graphite packing

TECHNICAL DATA :

The Temperature and Pressure rating for a standard valve with PTFE packing.

Temperature	Pressure	
	psig	bar
-54°C to 38°C	6000	408
-54°C to 93°C	5160	351
-54°C to 148°C	4660	317
-54°C to 204°C	4280	291
-54°C to 232°C	4130	289

MATERIAL OF CONSTRUCTIONS

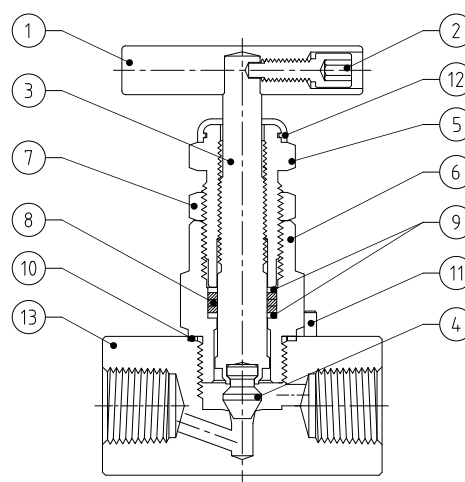
Sr No.	Description	Material
1.	Bar Handle	SS316
2.	Set Screw	SS316
3.	Stem	SS316
4.	Stem Tip	SS316
5.	Packing Bolt	SS316
6.	Lower Bonnet	SS316
7.	Lock Nut	SS316
8.	Packing	PTFE
9.	Packing Washer	SS316
10.	Washer	SS316
11.	Lock Pin	SS316
12.	Dust Cap	PVC
13.	Valve Body	SS316

APPLICATIONS

- General Plant Service
- Instrument Isolation
- Hydraulic and Pneumatic
- Pressure measurement devices
- Venting

TESTING

- Standard Test: Each valve is factory tested with nitrogen at 1000 psig (69 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.

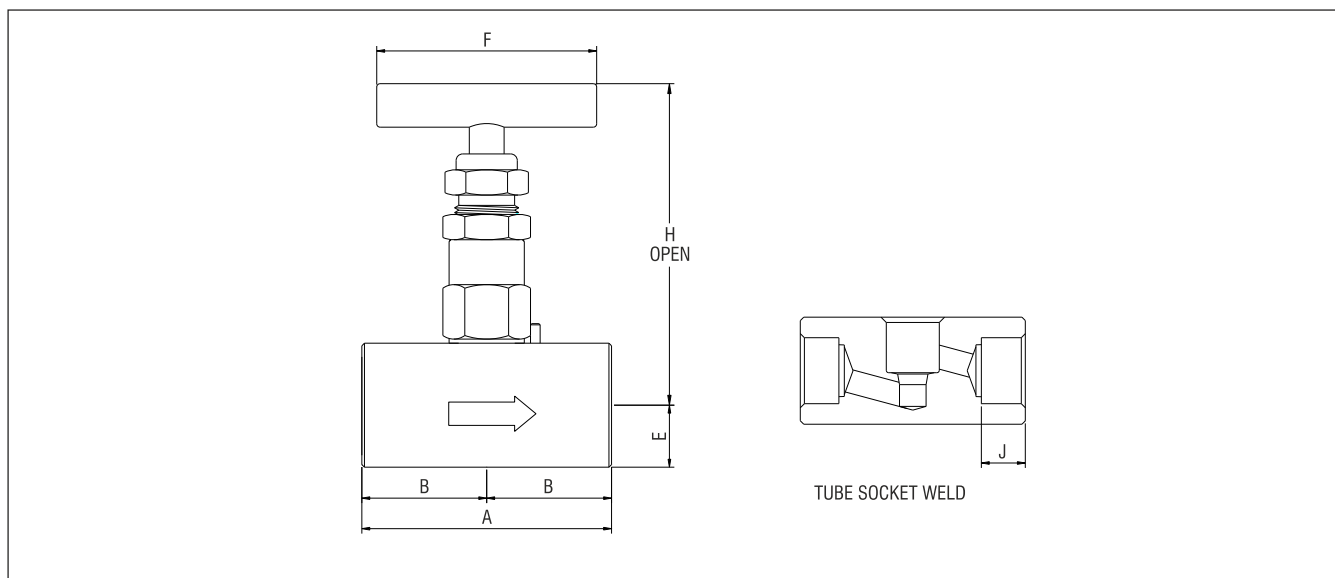


STEM TYPE :

YDB Needle Valves are available with choice of optional stem to provide greater flexibility.

- NON-ROTATING (NR) : It is Standard self centering non rotating stem tip typically used in high cycle application to extend the valve life.
- V-STEM (VS) : It is used for general purpose liquid and gases.
- SOFT SEAT (SS) : A soft seat stem requires a lower sealing torque, It is replaceable and suitable for temperature upto 120°C
- REGULATING STEM (RS) : It is used where some degree of flow control required.

NEEDLE VALVES : SERIES - YNV01



STANDARD CONFIGURATION DIMENSIONS

END CONNECTOR		DIMENSION (MM)						PART NO.
INLET	OUTLET	A	B	C	D	E	F	
1/4" ODT	1/4" ODT	73.0	36.5	25.4	4.3	73.0	54.0	YNV01-TT4
3/8" ODT	3/8" ODT	73.0	36.5	28.6	4.3	88.0	60.0	YNV01-TT6
1/2" ODT	1/2" ODT	77.8	38.9	28.6	6.4	88.0	60.0	YNV01-TT8
3/4" ODT	3/4" ODT	85.2	42.9	31.8	6.4	114.0	67.0	YNV01-TT12
6MM ODT	6MM ODT	73.0	36.5	25.4	4.3	73.0	54.0	YNV01-TT6M
8MM ODT	8MM ODT	73.0	36.5	25.4	4.3	73.0	54.0	YNV01-TT8M
10MM ODT	10MM ODT	73.0	36.5	28.6	6.4	88.0	60.0	YNV01-TT10M
12MM ODT	12MM ODT	77.8	38.9	28.6	6.4	88.0	60.0	YNV01-TT12M
1/8" FNPT	1/8" FNPT	57.2	28.6	25.4	4.3	73.0	52.0	YNV01-FF2N
1/4" FNPT	1/4" FNPT	57.2	28.6	25.4	4.3	73.0	54.0	YNV01-FF4N
3/8" FNPT	3/8" FNPT	57.2	28.6	28.6	6.4	88.0	60.0	YNV01-FF6N
1/2" FNPT	1/2" FNPT	66.6	33.3	31.8	6.4	88.0	67.0	YNV01-FF8N
3/4" FNPT	3/4" FNPT	69.8	34.9	35.0	9.5	114	67.0	YNV01-FF12N
1" FNPT	1" FNPT	82.6	41.3	45.0	9.5	122	73.0	YNV01-FF16N
1/4" MNPT	1/4" MNPT	57.2	28.6	25.4	4.3	73.0	54.0	YNV01-MM4N
1/4" MNPT	1/4" FNPT	60.2	30.1	25.4	4.3	73.0	54.0	YNV01-MF4N
1/2" MNPT	1/2" FNPT	69.8	34.9	31.8	6.4	88.0	60.0	YNV01-MF8N
3/4" MNPT	3/4" MNPT	76.2	38.1	35.0	9.5	114.0	67.0	YNV01-MF12N
1" MNPT	1" FNPT	85.8	42.9	45.0	9.5	122.0	73.0	YNV01-MF16N
1/4" TSW	1/4" TSW	57.2	28.6	25.4	4.3	73.0	54.0	YNV01-TSW4
3/8" TSW	3/8" TSW	57.2	28.6	28.6	6.4	88.0	60.0	YNV01-TSW6
1/2" TSW	1/2" TSW	66.6	33.3	28.6	6.4	88.0	60.0	YNV01-TSW8
3/4" TSW	3/4" TSW	69.8	34.9	31.8	9.5	114.0	67.0	YNV01-TSW12

Dimensions shown with YDB ODT Nut are finger tight

Dimensions are for reference only and subject to change

ORDERING INFORMATION

VALVE DESCRIPTION	ORDERING NUMBER FOR TUBE CONNECTIONS	ORDERING NUMBER FOR PIPE END CONNECTIONS
CHECK VALVES	YNV01 - TT 8-SS-E-V 1 2 3 4 5 6	YNV01 -FF 6 N-SS-F-V 1 2 3 4 5 6 7

1. VALVE SERIES CODE DESCRIPTION

BALL VALVES SERIES : YNV01

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
		22mm ODT	22M
		25mm ODT	25M

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

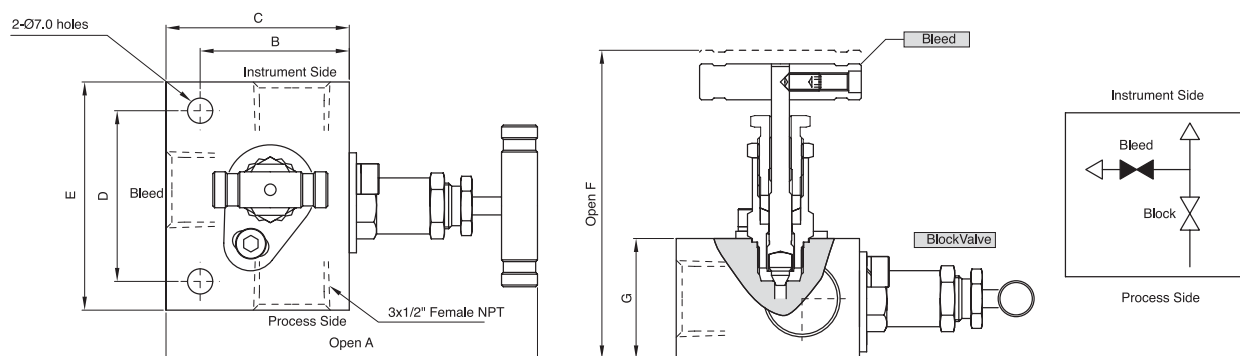
F - Peek
E - PTFE

7. SEAL MATERIAL

B - Buna-N
M - EPDM
V - Viton®

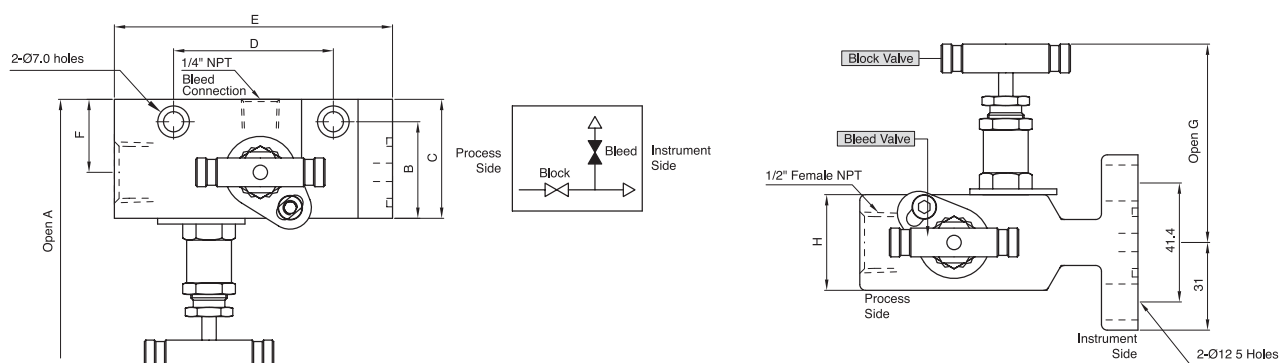
2-Valve Manifolds

Horizontal Style (Remote Mounting)



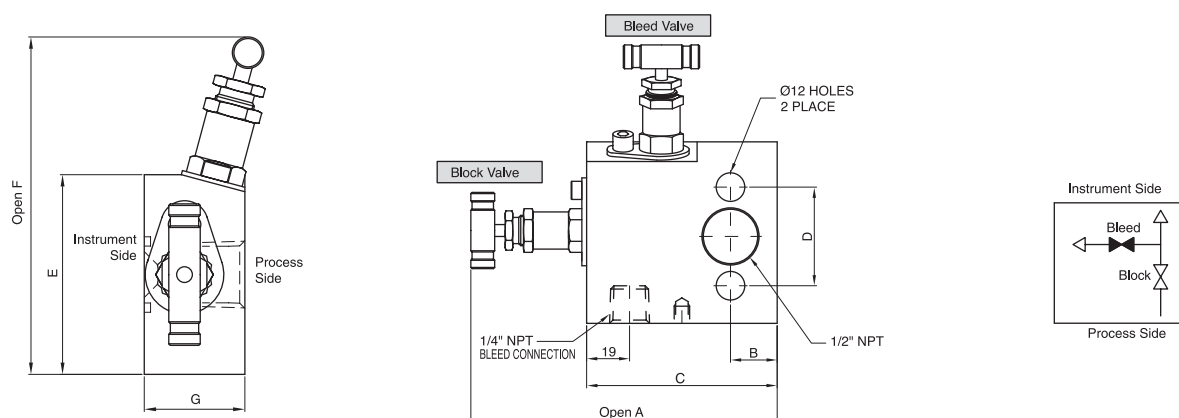
Part Number	End Connections			Weight Dimensions						
	Process	Instrument	Bleed	A	B	C	D	E	F	G
YM2V-F8N	1/2" Female NPT			103.5	41.5	51	47.5	63.5	85.9	33.5

Horizontal Single Flange Style (Direct Mounting)



Part Number	End Connections			Weight Dimensions						
	Process	Instrument	Bleed	A	B	C	D	E	F	G
YM2VF-F8N	1/2" Female NPT	Flange	1/4" Female NPT	103.5	41.5	51	47.5	63.5	85.9	33.5

Vertical Style (Direct Mounting)

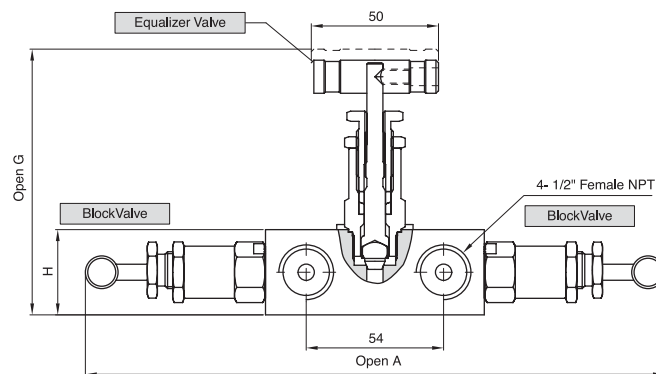
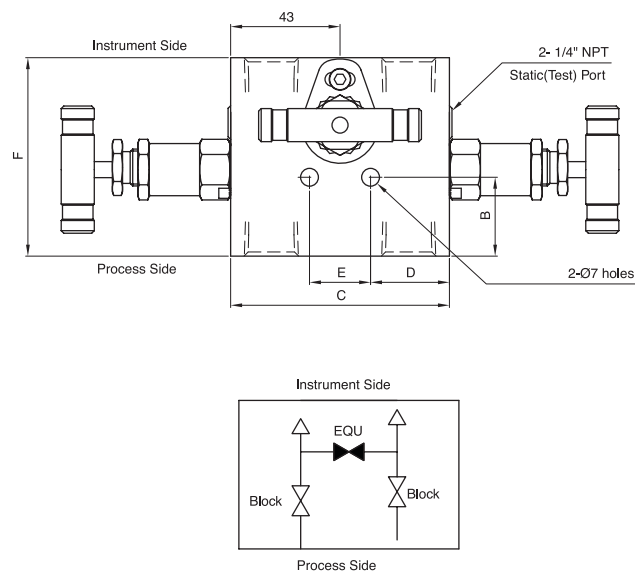


Part Number	End Connections			Weight Dimensions						
	Process	Instrument	Bleed	A	B	C	D	E	F	G
YM2VD-F8N	1/2" Female NPT	Flange	1/4" Female NPT	116.0	17.0	63.5	41.4	63.5	115.0	23.6

- All dimensions in millimeters unless specified as "inch". Dimension are for reference only and are subject to change.
- To order a manifold with optional Grafoil packing, add-G to the manifold ordering number.

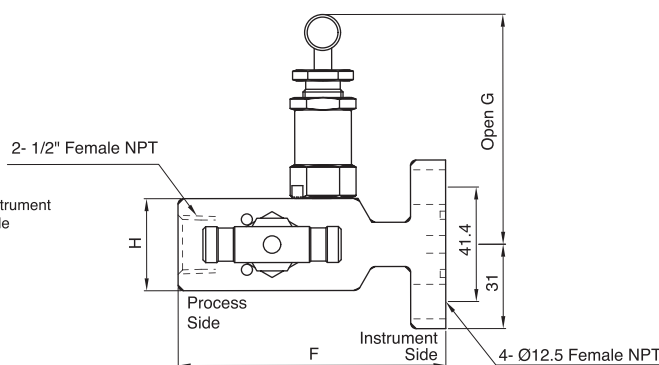
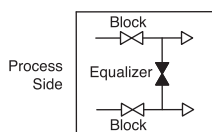
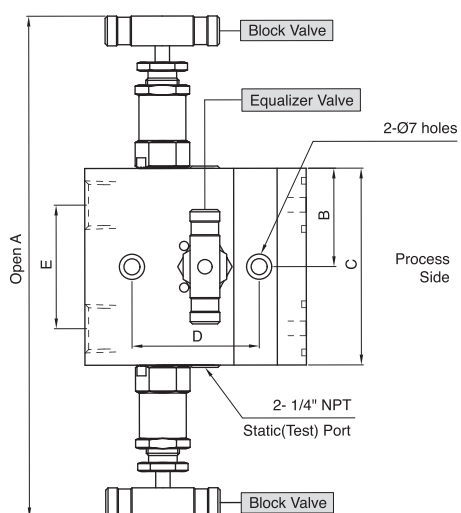
3-Valve Manifolds

Horizontal Style (Remote Mounting)



Part Number	End Connections		Weight Dimensions						
	Process	Instrument	A	B	C	D	E	F	G
YM3V-F8N	1/2" Female NPT		228.0	31.0	86.0	24.0	78.0	106.0	33.5

Horizontal Single Flange Style (Direct Mounting)

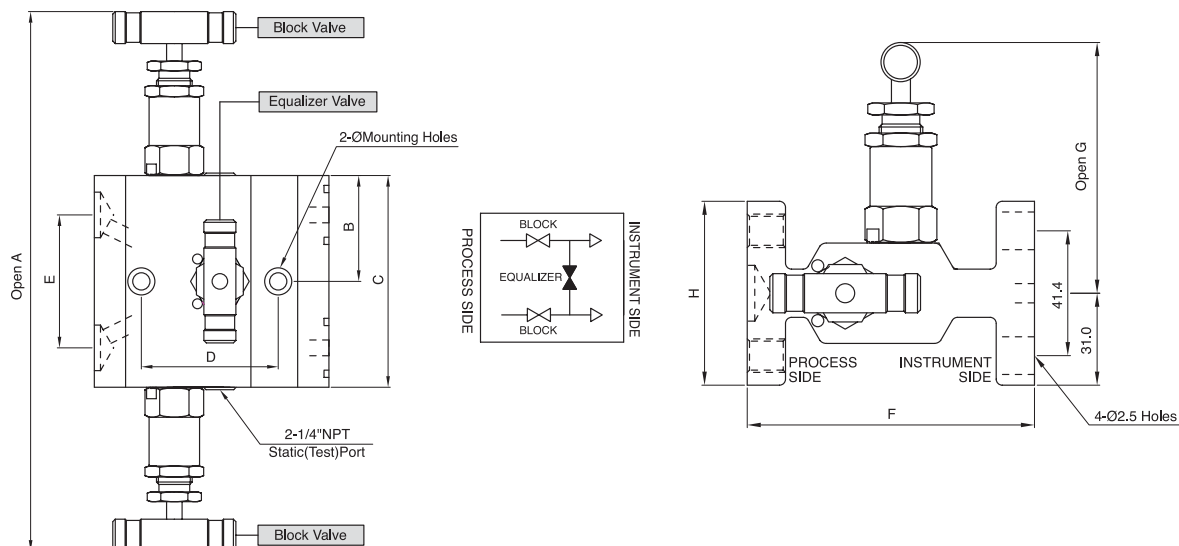


Part Number	End Connections		Weight Dimensions							
	Process	Instrument	A	B	C	D	E	F	G	H
YM3VF-F8N	1/2" Female NPT	Flange	228.0	43.0	86.0	55.6	54.0	97.0	87.7	31.8

- All dimensions in millimeters unless specified as "inch". Dimension are for reference only and are subject to change.
- To order a manifold with optional Grafoil packing, add-G to the manifold ordering number.

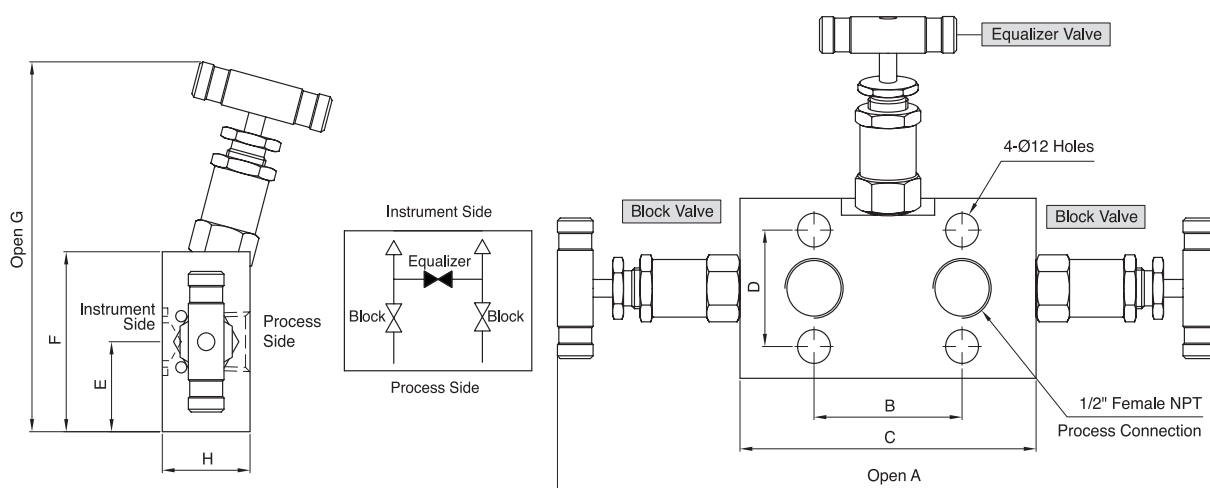
3-Valve Manifolds

Horizontal Dual Flange Style (Direct Mounting)



Part Number	End Connections		Weight Dimensions							
	Process	Instrument	A	B	C	D	E	F	G	H
YM3VDF	Flange	Flange	228.0	43.0	86.0	55.6	54.0	96.4	87.7	62.0

Vertical Style (Direct Mounting)

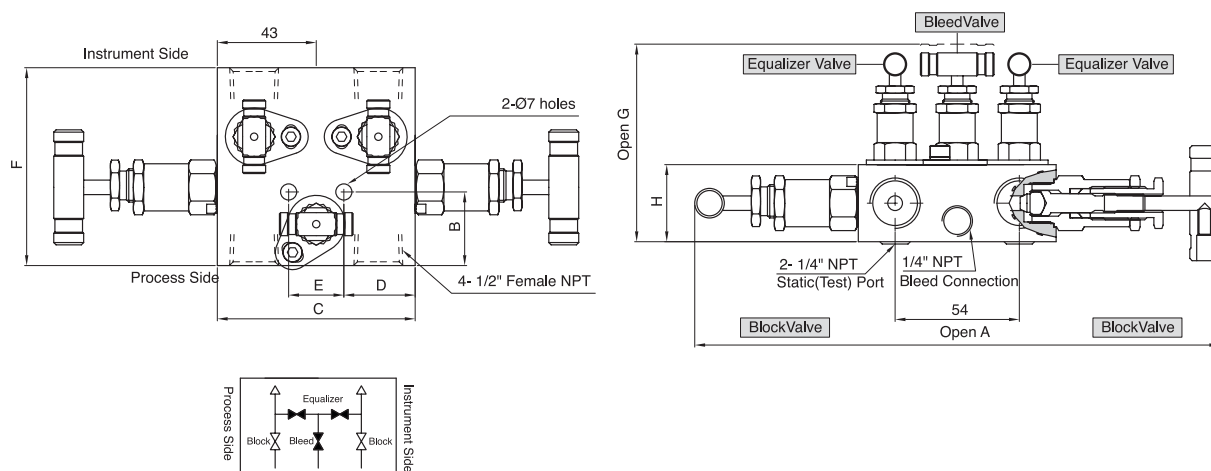


Part Number	End Connections		Weight Dimensions							
	Process	Instrument	A	B	C	D	E	F	G	H
YM3VD-F8N	1/2" Female NPT	Flange	250.0	54.0	108.0	41.4	32.0	64.0	136.0	32.0

- All dimensions in millimeters unless specified as "inch". Dimension are for reference only and are subject to change.
- To order a manifold with optional Grafoil packing, add-G to the manifold ordering number.

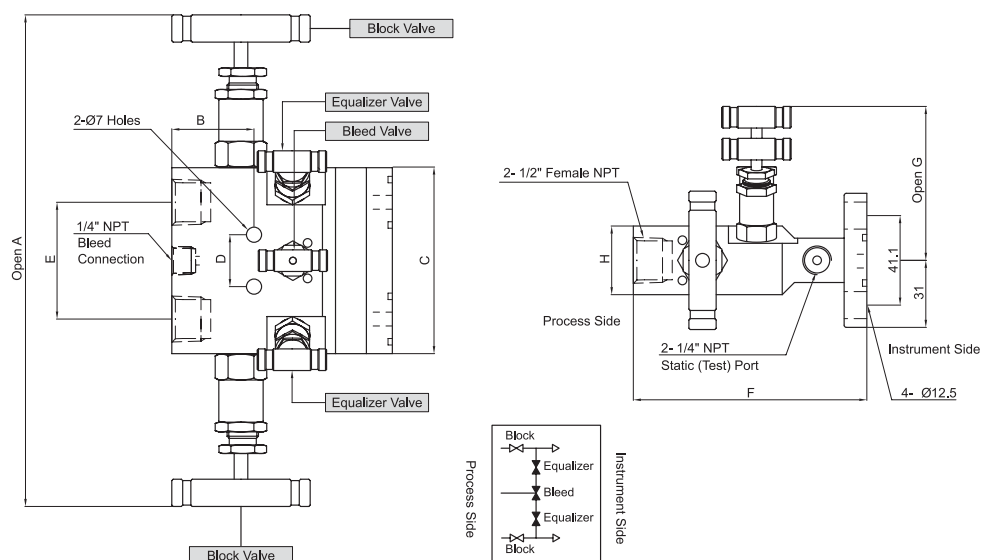
5-Valve Manifolds

Horizontal Style (Remote Mounting)



Part Number	End Connections			Weight Dimensions							
	Process	Instrument	Bleed	A	B	C	D	E	F	G	H
YM5V-F8N	1/2" Female NPT		1/4" Female NPT	228.0	32.0	86.0	31.0	24.0	86.0	85.9	33.5

Horizontal Single Flange Style (Direct Mounting)

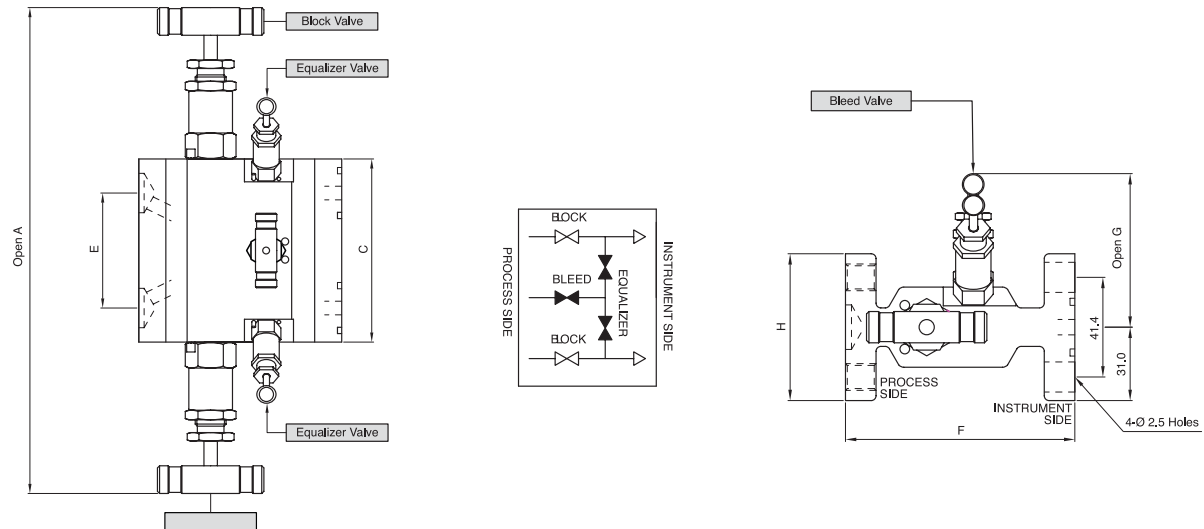


Part Number	End Connections			Weight Dimensions							
	Process	Instrument	Bleed	A	B	C	D	E	F	G	H
YM5VF-F8N	1/2" Female NPT	Flange	1/4" Female NPT	228.0	38.0	86.0	24.0	54.0	108.0	69.0	31.8

- All dimensions in millimeters unless specified as "inch". Dimension are for reference only and are subject to change.
- To order a manifold with optional Grafoil packing, add-G to the manifold ordering number.

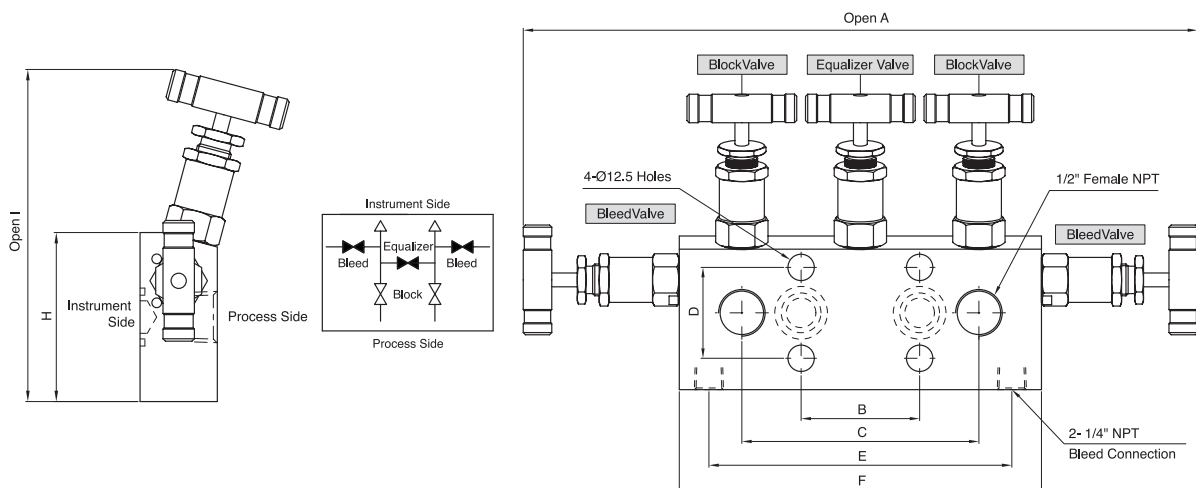
5-Valve Manifolds

Horizontal Dual Flange Style (Direct Mounting)



Part Number	End Connections			Weight Dimensions							
	Process	Instrument	Bleed	A	B	C	D	E	F	G	H
YM5VDF	Flange	Flange	1/4" Female NPT	228.0	32.0	86.0	24.0	54.0	96.4	69.0	61.0

Vertical Style (Direct Mounting)



Part Number	End Connections			Weight Dimensions								
	Process	Instrument	Bleed	A	B	C	D	E	F	G	H	I
YM5VF-F8N	1/2" Female NPT	Flange	1/4" Female NPT	312.0	54.0	102.0	41.4	138.0	158.0	148.0	76.2	32.0

- All dimensions in millimeters unless specified as "inch". Dimension are for reference only and are subject to change.
- To order a manifold with optional Grafoil packing, add-G to the manifold ordering number.

Instrumentation Gauge Valves

YGBV / YGBV2 Series

Features

- Stainless steel construction.
- 1/2 in. and 3/4 in. male to 1/2 in. female end connections.
- 1/2 in. female gauge ports standard.

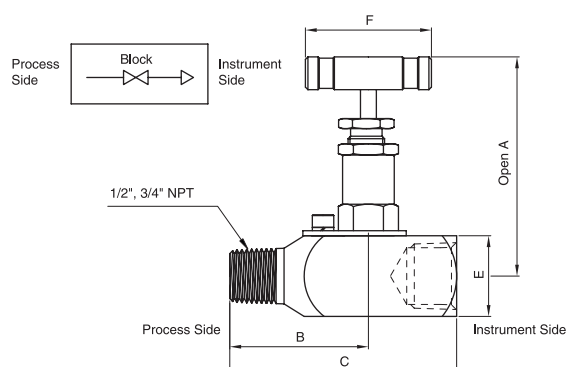
Specifications

Maximum Working	6000 psig (413 bar) @ 100 F (38 C)
Temperature	-65 to 450 F (-54 to 232 C) with PTFE
Body Material	316 Stainless Steel
Orifice	0.125" (3.2mm), 0.250" (6.4mm)

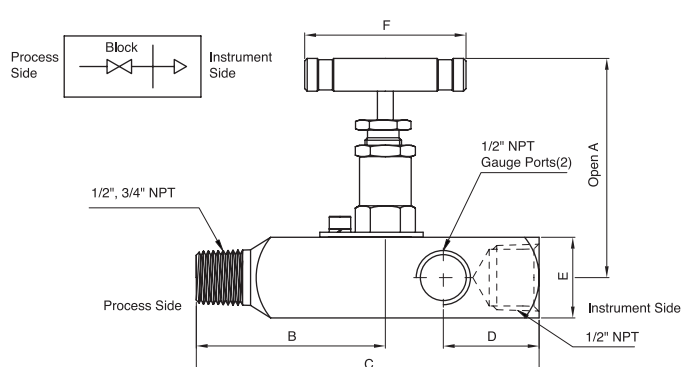
Gauge Valve

Gauge / Root Valve

YGBV (Gauge Valve)



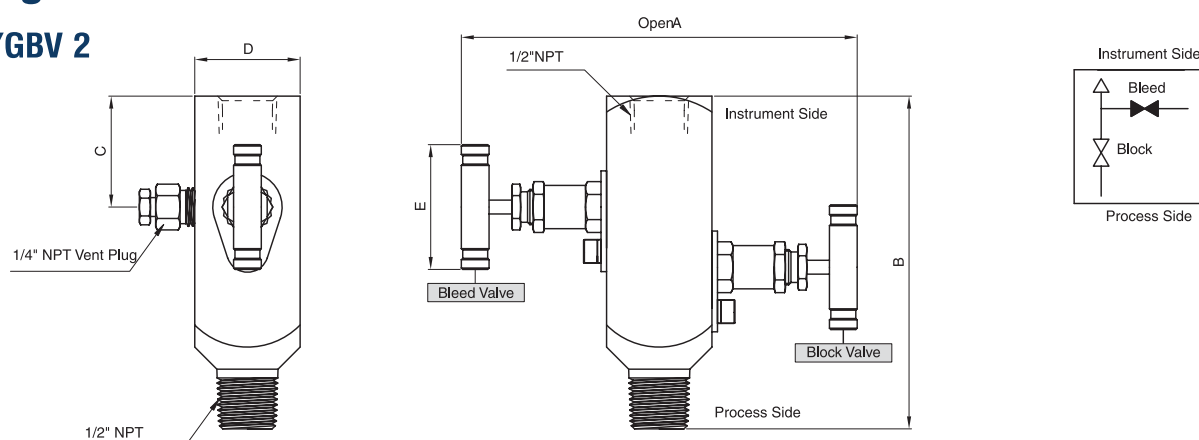
YGRV (Gauge Root Valve)



Part Number	End Connections		Weight Dimensions					
	Process	Instrument	A	B	C	D	E	F
YGBV-M8N-F8N	1/2" Male NPT	1/2" Female NPT	87.0	54.0	90.0	-	32.0	45.0
YGBV-M12N-F8N	3/8" Male NPT 1/2"	1/2" Female NPT						
YGBV-M8N-F8N	Male NPT	1/2" Female NPT	87.0	75.0	136.0	38.1	32.0	45.0
YGBV-M12N-F8N	3/4" Male NPT	1/2" Female NPT						

Gauge 2-Valve

YGBV 2



Part Number	End Connections		Dimensions (mm)				
	Process	Instrument	A	B	C	D	E
YGBV-M8N-F8N	1/2" Female NPT	1/2" Female NPT	142	120	40	38	45

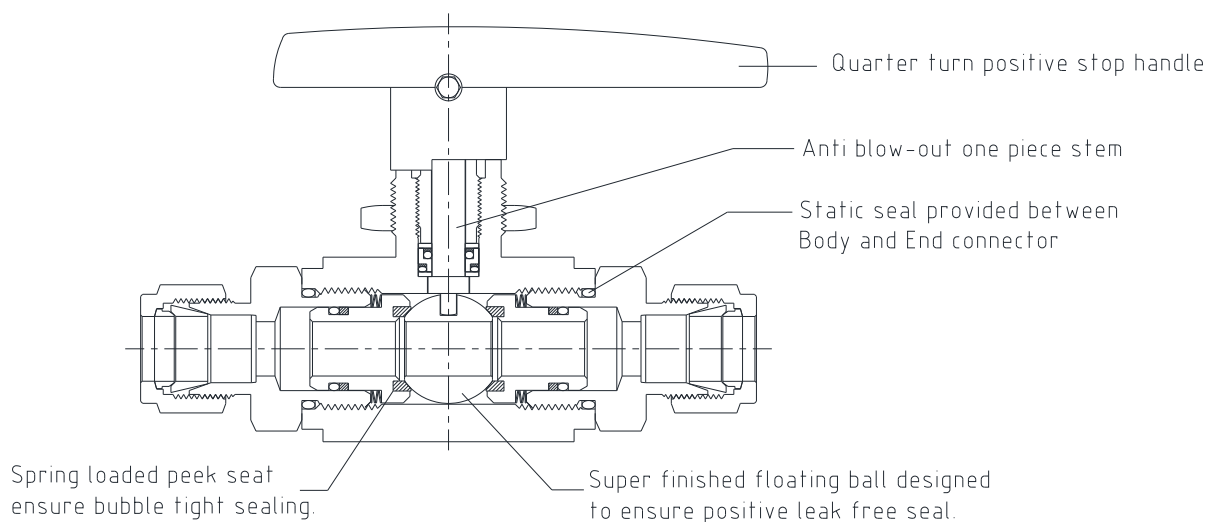
Testing

- Each Valve is tested with nitrogen at 1000 psig(69bar) to maximum allowable leak rate of 0.1 SCCM.
- Hydrostatic shell test is performed at 1.5 times of the working pressure. (option)

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

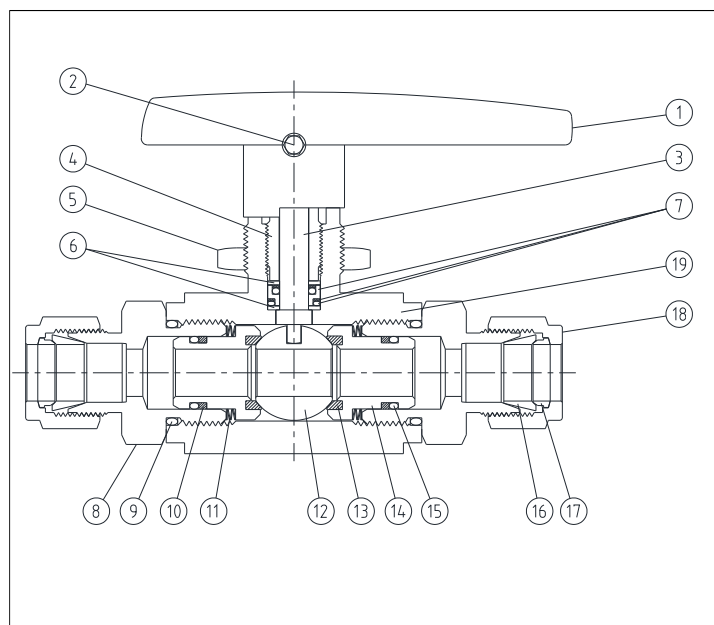
Temperature Rating : -50°C to 160°C

APPLICATIONS

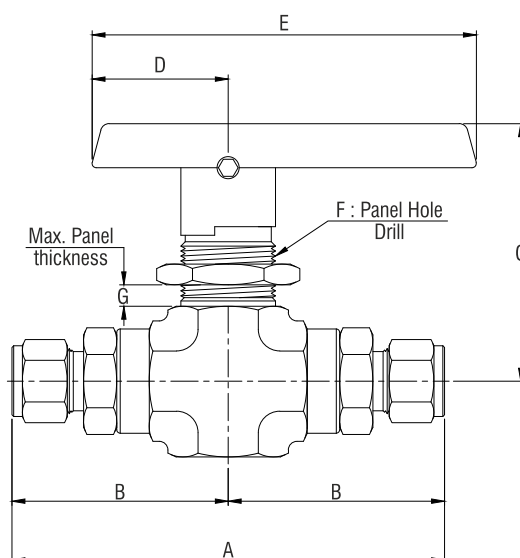
- Instrument Air Lines
- General Plant Service
- High Pressure Instrument Lines
- CNG

MATERIAL OF CONSTRUCTIONS

Sr. No.	DESCRIPTION	MATERIAL
1	HANDLE	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, 'O' RING	SS316
	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	Orifice	cv	DIMENSION (MM)							PART NO.
Inlet & Outlet			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	YBV01 - TT 8-SS-E-V 1 2 3 4 5 6	YBV01 -FF 6 N-SS-F-V 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®

CHECK VALVES : SERIES - YCV01

FEATURES / BENEFITS

- Available in SS316, all wetted parts in accordance with NACE MR01-75
- Heat Code Traceable to certified material test report
- Instant shut off in upstream condition
- The cracking pressure from 1 to 50 psig (0.07 to 3.4 bar)
- Variety of end configuration includes YDB ODT Tube Fittings, Male / Female NPT, BSPT and BSPP pipe connection
- Every valve is factory tested.

OPERATING PARAMETERS

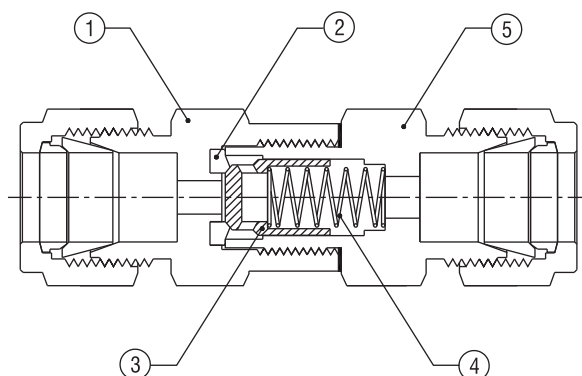
Pressure Rating : upto 3000 psig (205 bar) at CWP
 Temperature Rating : upto 198°C with Viton® O-Ring

APPLICATIONS :

- Gas
- Liquid
- Fluid handling

MATERIAL OF CONSTRUCTIONS

No.	Component	Material
1	Inlet Body	Stainless Steel 316
2	Seal Ring	Viton®
3	Poppet	Stainless Steel 316
4	Spring	Stainless Steel
5	Outlet Body	Stainless Steel 316



TECHNICAL DATA

Size	Maximum Flow Coefficient (Cv)	Nominal Cracking Pressure psig (bar)	Downstream Pressure at 70°F (20°C) psig (bar)
1/8"	0.10	1, 10, 25 (0.07, 0.69, 1.8)	1000 (68.9)
1/4"	0.47	1, 10, 25 (0.07, 0.69, 1.8)	1000 (68.9)
3/8"	1.47	1, 10, 25 (0.07, 0.69, 1.8)	200 (13.7)
1/2"	1.68	1, 10, 25 (0.07, 0.69, 1.8)	200 (13.7)
3/4", 1"	4.48	1, 10, 25 (0.07, 0.69, 1.8)	200 (13.7)

For cracking pressure of 25 psig (1.8 bar), downstream pressure is 3000 psig (206 bar)

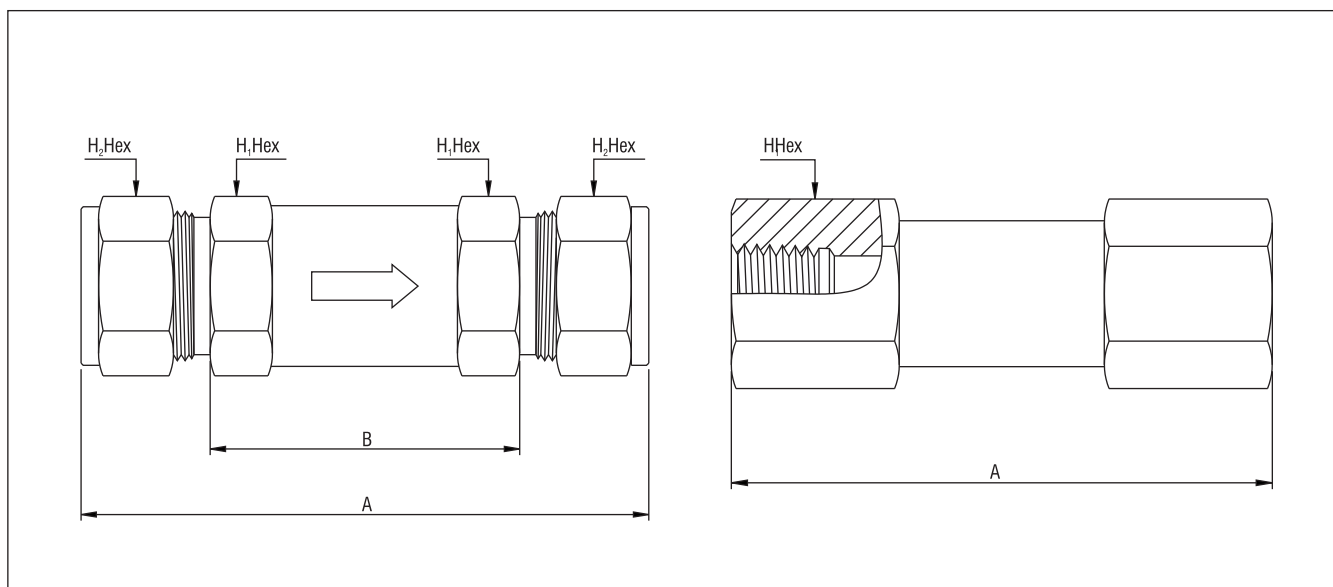
O-RINGS

O-Ring Material	Temperature Rating F(°C)
Buna - N	-10 to 250 (-23 to 121)
EPDM	-70 to 250 (-55 to 121)
Viton®(Fluorocarbon)	-10 to 350 (-23 to 191)

TESTING

- Standard Test : Each valve is factory tested with nitrogen gas at 1000 psig (69 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.

CHECK VALVES : SERIES - YCV01



STANDARD CONFIGURATION DIMENSIONS

END CONNECTOR		DIMENSION (MM)				PART NO.
INLET	OUTLET	A	B	H	G	
1/8" ODT		57.20	26.6	15.88	11.11	YCV01-TT2
1/4" ODT		62.20	26.6	15.88	14.28	YCV01-TT4
3/8" ODT		76.20	37.6	22.2	17.46	YCV01-TT6
1/2" ODT		86.60	42.9	25.4	22.22	YCV01-TT8
5/8" ODT		91.70	48.0	28.50	28.57	YCV01-TT10
3/4" ODT		99.80	56.1	31.80	38.10	YCV01-TT12
1" ODT		111.20	58.4	38.10	14.0	YCV01-TT16
6mm ODT		62.2	26.6	16.0	18.0	YCV01-TT6M
10mm ODT		76.2	37.6	22.0	22.0	YCV01-TT10M
12mm ODT		86.2	42.9	25.0	25.0	YCV01-TT12M
16mm ODT		91.7	48	28.0	-	YCV01-TT16M
1/8" Female NPT		50.00	-	15.88	-	YCV01-FF2N
1/4" Female NPT		57.10	-	19.05	-	YCV01-FF4N
3/8" Female NPT		73.90	-	22.2	-	YVC01-FF6N
1/2" Female NPT		90.60	-	27.00	-	YCV01-FF8N
3/4" Female NPT		104.00	-	31.80	-	YCV01-FF12N
1" Female NPT		123.00	-	41.27	-	YCV01-FF16
1/8" Male NPT		44.5	24.4	15.88	-	YCV01-MM2N
1/4" Male NPT		54.0	24.7	15.88	-	YCV01-MM4N
3/8" Male NPT		71.4	43.0	22.2	-	YCV01-MM6N
1/2" Male NPT		80.3	42.2	22.2	-	YCV01-MM8N
3/4" Male NPT		104.00	65.8	31.8	-	YCV01-MM12N
1" Male NPT		114.8	67.3	35.0	-	YCV01-MM16N

Dimensions are for reference only and subject to change without notice

ORDERING INFORMATION

VALVE DESCRIPTION	ORDERING NUMBER FOR TUBE CONNECTIONS	ORDERING NUMBER FOR PIPE END CONNECTIONS
CHECK VALVES	$\frac{YCV01}{1} - \frac{TT}{2} \frac{4}{3} - \frac{SS}{5} - \frac{V}{6}$	$\frac{YCV01}{1} - \frac{MM}{2} \frac{4}{3} \frac{N}{4} - \frac{SS}{5} - \frac{V}{6}$

VALVE SERIES CODE DESCRIPTION

CHECK VALVES SERIES : YCV01

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	12m 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

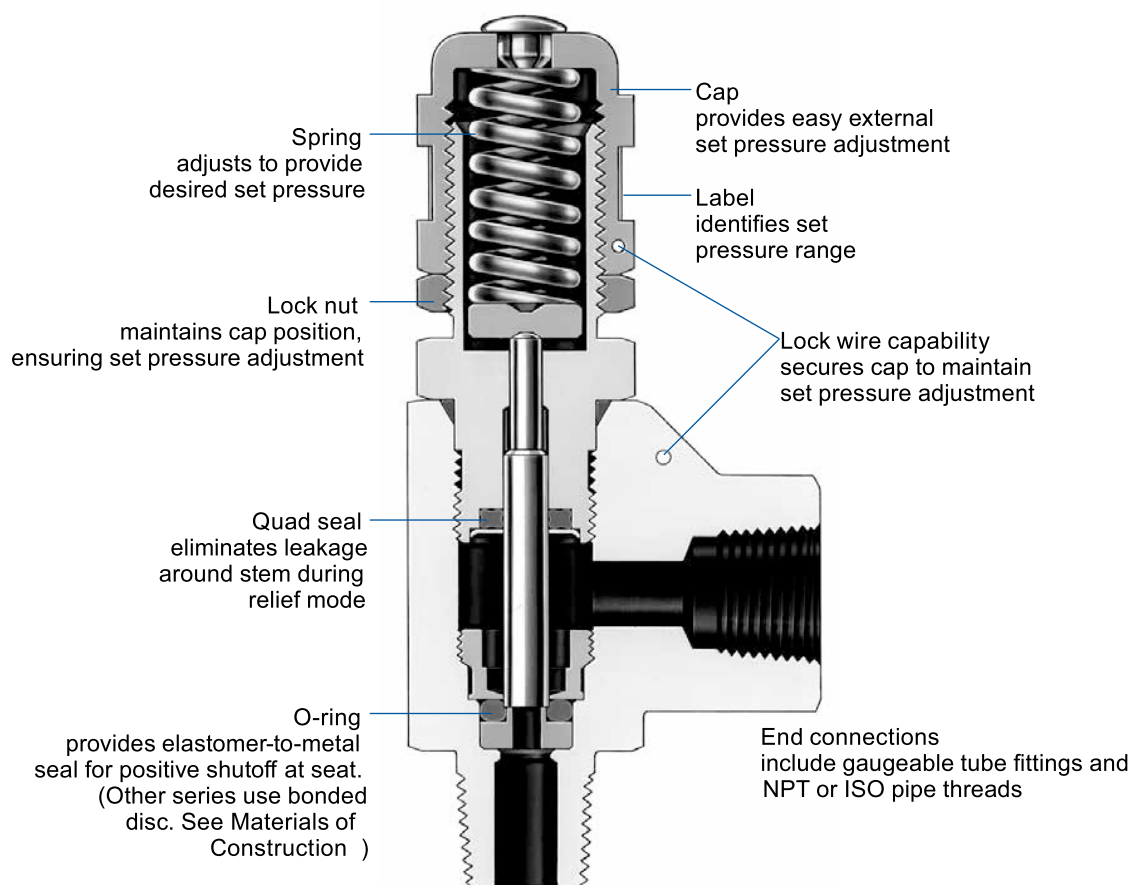
5. MATERIAL OF CONSTRUCTIONS

SS - SS316
CS - Carbon Steel

6. PACKING / SEAT MATERIAL

B - Buna-N
M - EPDM
V - Viton®

Proportional Relief Valves: YSRV01



Features

High-Pressure Valves

- Service up to 6000 psig (413 bar)
- Multiple springs for a selection of set pressure ranges
- Valves available factory-set to a specified set pressure
- 1/4 in. and 6 and 8 mm end connections
- 1/2 in. and 12 mm end connections

Applications

YSRV01 series relief valves are proportional relief valves that open gradually as the pressure increases. Consequently, they do not have a capacity rating at a given pressure rise (accumulation), and they are not certified to ASME or any other codes.

Some system applications require relief valves to meet specific safety codes. The system designer and user must determine when such codes apply and whether these relief valves conform to them.

Operation

R series relief valves OPEN when system pressure reaches the set pressure and CLOSE when system pressure falls below the set pressure.

For valves not actuated for a period of time, initial relief pressure may be higher than the set pressure.

Spring Kits

Spring kits include spring, label, 302 SS lock wire with seal, Select a spring kit basic ordering number and add the spring designator for the desired set pressure range.

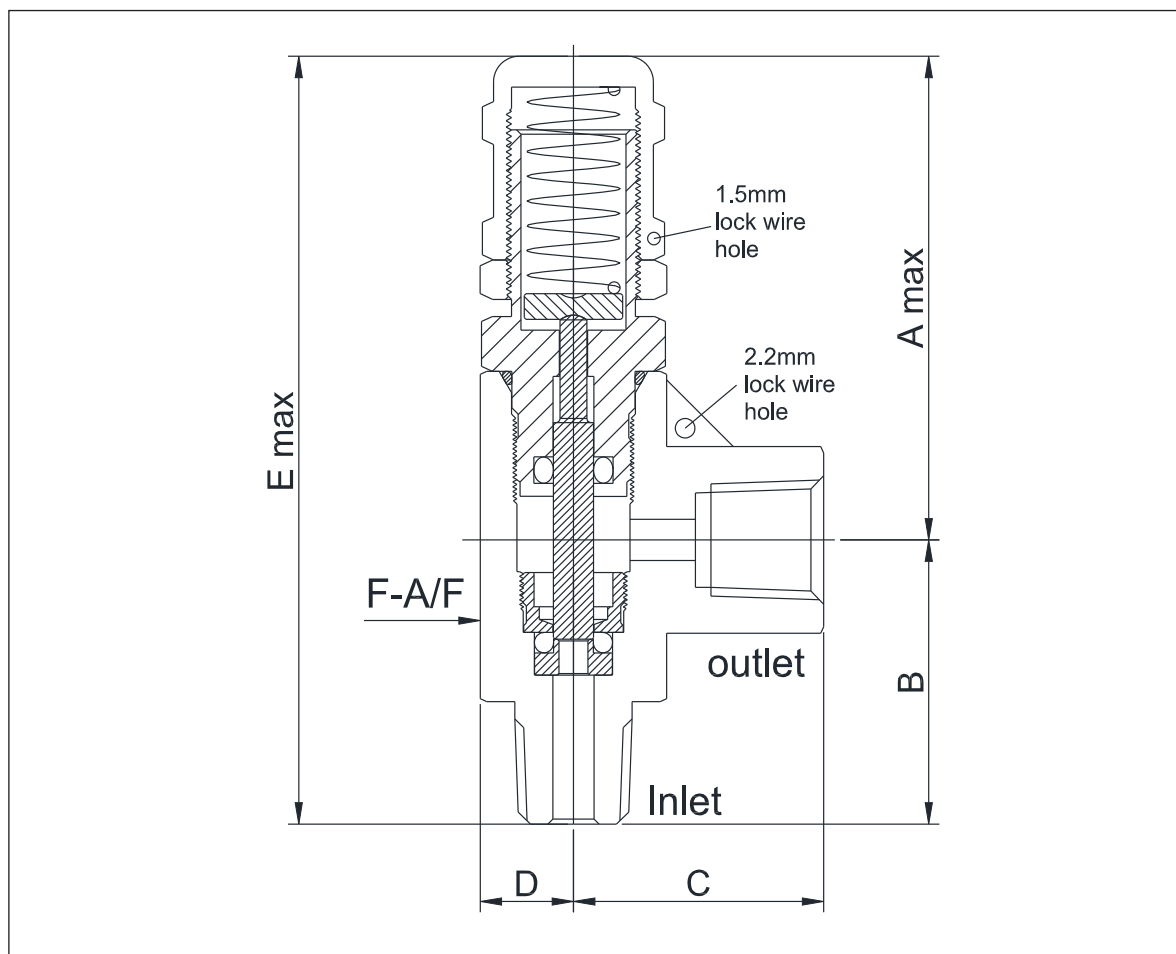
YSRV01-SPRK-F
YSRV01-SPRK-C

Set Pressure Range psig (bar)	Spring Designator	Spring Color
YSRV01 series spring kit		
50 to 350 (3.4 to 24.1)	A	Blue
350 to 750 (24.1 to 51.7)	B	Yellow
750 to 1500 (51.7 to 103)	C	Purple
1500 to 2250 (103 to 155)	D	Orange
2250 to 3000 (155 to 206)	E	Brown
3000 to 4000 (206 to 275)	F	White
4000 to 5000 (275 to 344)	G	Red
5000 to 6000 (344 to 413)	H	Green

Factory-Set Valves

YSRV01 series valves are available with springs factory-set to a specified set pressure. Valves are set, tested, locked, and tagged with the set pressure.

Instrumentation Relief Valve: YSRV01



END CONNECTOR		DIMENSION (MM)						PART NO.
INLET	OUTLET	A	B	C	D	E	F	
1/4" ODT	1/4" ODT	68.6	36.6	40.6	10.9	105.0	20.6	YSRV01-TT4
6mm ODT	6mm ODT	68.6	36.6	40.6	10.9	105.0	20.6	YSRV01-TT6M
8mm ODT	8mm ODT	68.6	36.6	40.6	10.9	105.0	20.6	YSRV01-TT8M
3/8" ODT	3/8" ODT	68.6	37.6	40.6	10.9	105.0	20.6	YSRV01-TT6
10mm ODT	10mm ODT	68.6	37.6	40.6	10.9	105.0	20.6	YSRV01-TT10M
1/4" MNPT	1/4" ODT	68.6	30.2	36.6	10.9	98.8	20.6	YSRV01-MT4
1/4" MNPT	1/4" FNPT	68.6	30.2	30.2	10.9	98.8	20.6	YSRV01-MF4N
1/4" MBSPT	1/4" FBSPT	68.6	30.2	30.2	10.9	98.8	20.6	YSRV01-MF4RT
12mm ODT	12mm ODT	104	46.5	46.5	12.7	150.0	22.2	YSRV01-TT12M
1/2" ODT	1/2" ODT	104	46.5	46.5	12.7	150.0	22.2	YSRV01-TT8
1/2" MNPT	1/2" ODT	104	36.3	46.5	12.7	140.0	22.2	YSRV01-MT8
1/2" MNPT	1/2" FNPT	104	36.3	36.3	16.0	140.0	28.0	YSRV01-MF8N
3/4" ODT	3/4" ODT	104	41.3	38.5	19.0	140.0	33.0	YSRV01-TT12
3/4" MNPT	3/4" FNPT	104	41.3	38.5	19.0	140.0	33.0	YSRV01-MF12N
1" ODT	1" ODT	104	46.5	44.0	22.0	150.0	44.0	YSRV01-TT16
1" MNPT	1" FNPT	104	46.5	44.0	22.0	150.0	44.0	YSRV01-MF16N



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