



Instrumentation Check Valves

SERIES - YCV01



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YDB VALVES LLP

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

Innovations designed to improve operations and profitability

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

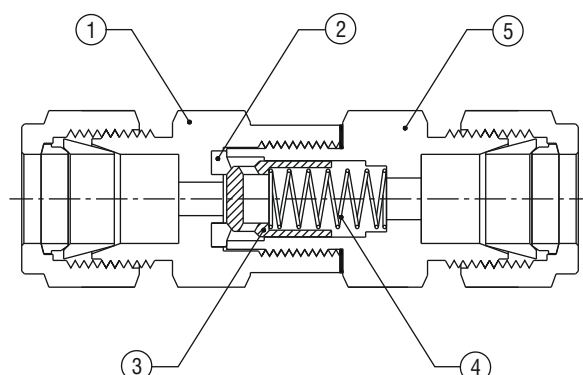
Pressure Rating : upto 3000 psig (205 bar) at CWP
 Temperature Rating : upto 198°C with Viton® O-Ring

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)

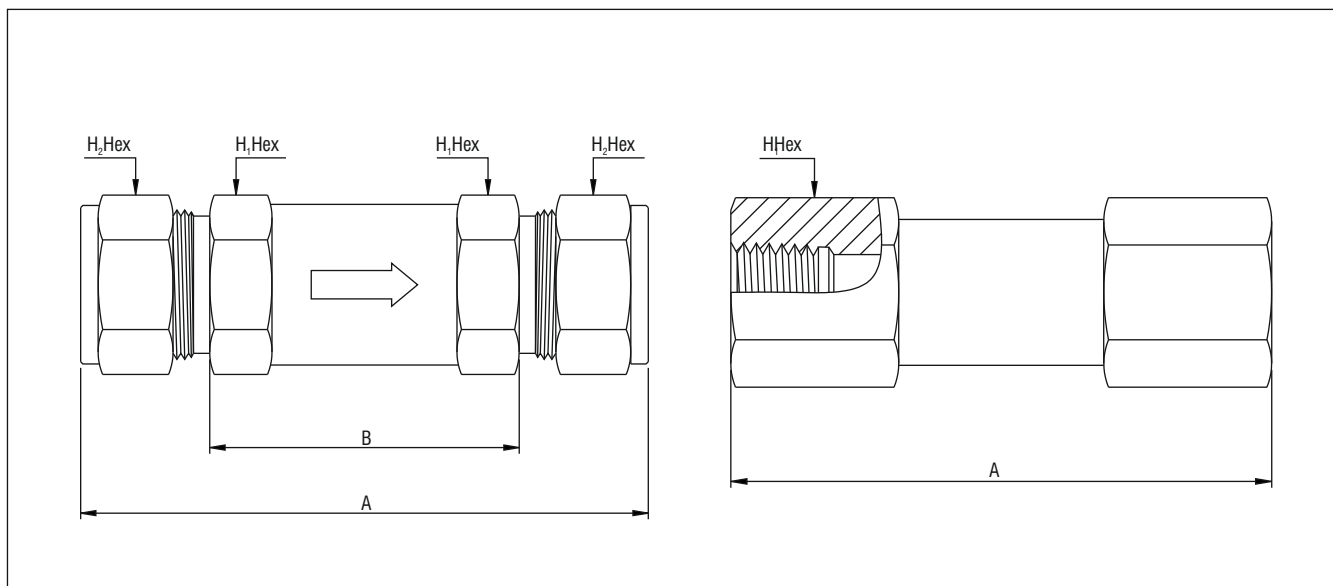
O-RINGS

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.

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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	$\frac{YCV01}{1}-\frac{TT}{2}-\frac{4}{3}-\frac{SS}{5}-\frac{V}{6}$	$\frac{YCV01}{1}-\frac{MM}{2}-\frac{4}{3}-\frac{N-SS}{4}-\frac{V}{5}-\frac{V}{6}$

VALVE SERIES CODE DESCRIPTION

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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®



YDB VALVES LLP

An ISO 9001:2015 Certified Manufacturing Co.

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