

Design and Applications



DK-Lok VBV Series Bleed Valves are designed to vent the signal line pressure to atmosphere before an instrument is removed and to assist in calibration of control devices.

These are for use on instrumentation devices such as gauge root valves and multi-valve manifolds. Optional barbed vent tube enables containment of fluid vented. The VBV Series are also ideal in bleeding hydraulic systems.

Installation and Operation

Position the vent tube so that system fluid is not directed to personnel operating. Slowly open the valve. This valve has no stem seal packing; small amounts of fluid will go through the stem thread when they are opened. Therefore suitable measures should be taken to protect personnel operating.

Materials of Construction			
	VALVE BODY MATERIALS		
Components	SS316 Stainless	Carbon Steel	
	GRADE / ASTM and JIS SPECIFICATION		
Stem	SS316 / A 276 S630 / A564		
Stem Tip			
Body*	SS316 / A 276	S20C-S45C / G4051	
Back Stop Screw	SS316 / A 276		
Vent Tube	SS316 / A 269		

Technical Data			
Material	Temperature Rating	Pressure Rating	
SS316	-65°F to 850°F (-54°C to 454°C)	10,000 psi (689 bar)	
Carbon Steel	-20°F to 450°F (-29°C to 232°C)	@ 100°F (38°C)	

^{*} Carbon Steel bodies are white galvanized for corrosion resistance.

Ordering Number and Table of Dimensions								
Basic	End Con	End Connection (Orifice Cv	Dimensions in. (mm)			
Ordering No.	Inlet	Outlet	in.(mm)	CV	L	L1	D	h Hex
VBV-M-2N-	1/8" Male NPT	0.0			1.34	0.94	0.75 (19.05)	5/8
VBV-M-4N-	1/4" Male NPT	O.D. 3/16" Tube Stub	0.125 (3.2)	0.25	(34.03)	(23.87)	0.69 (17.52)	(15.87)
VBV-M-6N-	3/8" Male NPT				1.47	1.03	0.75 (19.05)	7/8
VBV-M-8N-	1/2" Male NPT	Tube Stub			(37.33)	(26.16)	0.69 (17.52)	(22.22)

All dimensions shown are for reference only and are subject to change.

CNG Certifications			
Certificates	ECE R110	ANSI / AGA NGV 3.1-1995 CGA NGV 12.3-M95	ISO 15500
Certificate No	110R-000197	2010-REPORT-030 (01)	2010-REPORT-030 (01)
Classification	Class 0	CNG-VBV	CNG-VBV
Temperature	-40°C to 120°C (-40°F to 250°F)	-40°C to 121°C (-40°F to 250°F)	-40°C to 121°C (-40°F to 250°F)
Working Pressure	200 har @ 120°C	273 har @ 121℃	273 har @ 120°C

How to Order

To order, add the valve body material as a suffix to the basic ordering number. S: Stainless, C: Steel. Example: VBV-M-2N-S



Options

Bar handle: Optional bar handle allows wrench-less actuation

· Bar handle ordering number : BH

Barbed Vent Tube: Optional barbed vent tube enables containment of fluid vented.

• 3/16" OD barbed vent tube ordering number: HT To order, use the option ordering number as a suffix to the valve basic ordering number. Examples: VBV-M-2N-BH-S, VBV-M-2N-HT-S.

Factory Test

Every valve is tested with the nitrogen @ 68 bar (1,000 psi) for leakage at the seat to a maximum allowable leak rate of 0.1 scc/min.

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