

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

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

* Carbon Steel bodies are white galvanized for corrosion resistance.

Technical Data

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

Ordering Number and Table of Dimensions

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

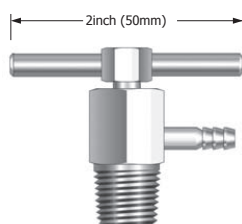
All dimensions shown are for reference only and are subject to change.

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 bar @ 120°C	273 bar @ 121°C	273 bar @ 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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<p>Quality System Approvals</p>	<p>DK-Lok Tube Fitting Certification Listing</p>	<p>DK-Lok Valve Certification Listing</p>	<p>DK-LOK Corporation www.dklok.com</p>
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