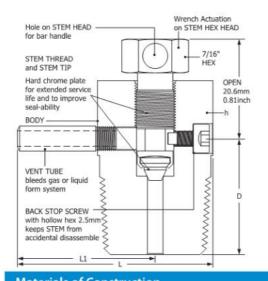
Valves



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 Stem Tip S630 / A564 S20C-S45C / G4051 Body* SS316 / A 276 Back Stop Screw SS316 / A 276

Vent Tube	SS316 / A 269
* Carbon Steel bodies are w	hite 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 bai @ 100°F (38°C)	
Carbon Steel	-20°F to 450°F (-29°C to 232°C)		

Ordering N	Number and Ta	ble of Dim	ensions					
Basic	End Conn	ection	Orifice	c.		Dimensi	ons in. (mm)	
Ordering No.	Inlet	Outlet	in.(mm)	Cv	L	L1	D	h
VBV-M-2N-	1/8" Male NPT	0.0			1.34	0.94	0.75 (19.05)	
		O.D.			to the second	100000000000000000000000000000000000000		200

h Hex 5/8 (15.87)VBV-M-4N-1/4" Male NPT 0.125 (34.03)(23.87)0.69 (17.52) 3/16" 0.25 VBV-M-6N-3/8" Male NPT (3.2)1.47 1.03 0.75 (19.05) 7/8 Tube Stub VRV-M-8N-1/2" Male NPT (37.33)(26.16)(22.22)0.69 (17.52)

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 contain-

ment 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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Design

DK-Lok VPV Series Purge Valves are designed for manually bleeding, venting, or draining system fluids. The cap is clamped to the valve body for safety in use.

The 0.063 inch (1.6 mm) diameter vent hole is constructed on the cap.

Operation and Installation Instruction

DK-Lok VPV series purge valve requires a quarter turn of cap with a wrench from finger-tight for a leak-tight seal on the first make-up.

To ensure seal to the rated pressure, snug with a wrench.

Always open the valve slowly.

These valves have no seal on cap. Therefore media may flow through the cap thread when the valves are opened.

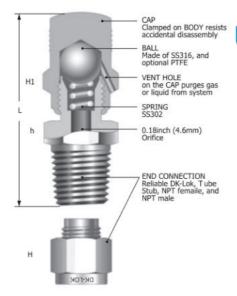
Operating personnel should take suitable measures to be protected from system fluids.

MATERIALS OF CONSTRUCTION

Valve Material	Pressure @ 100°F		Temperat	ure Range
	psig	bar	°F	°C
SS316	4000	275	-65 ~ 600	-54 ~ 315
Brass	3000	206	-65 ~ 400	-54 ~ 204

Materials of Construction

	VALVE BODY MATERIALS		
Components	SS316	Brass	
	Grade / ASTM Specification		
Cap	SS316/A479 or A276	Brass/B16	
Body	55316/A4/9 0F A2/6		
Ball	SS316/A276		
Spring	SS302/A313		



Ordering Information and Table of Dimensions

Basic Ordering Number		End	L-cl	osed	h	Н	H1
		Connection	inch mm		Hex	Hex	Hex
F	F-2N-	1/8" Female NPT	1.50	38.1	9/16		5/8
	F-4N-	1/4" Female NPT	1.69	42.9	3/4	-	
	F-6N-	3/8" Female NPT	1.75	44.5	7/8	983	
	F-8N-	1/2" Female NPT	1.92	48.8	1-1/16	-	
	M-2N	1/8" Male NPT	1.56	39.6	1/2	-	
	M-4N	1/4" Male NPT	1.75	44.5	9/16	-	
VPV-	M-6N	3/8" Male NPT	1.78	45.2	11/16	(=)	
	M-8N	1/2" Male NPT	2.03	51.6	7/8	-	
	D-2T-	1/8" DK-Lok	1.78	45.2	1/2	7/16	
	D-4T-	1/4" DK-Lok	1.88	47.8	1/2	9/16	
	D-6T-	3/8" DK-Lok	1.97	50.0	5/8	11/16	
	D-8T-	1/2" DK-Lok	2.13	54.1	13/16	7/8	
	D-6M-	6mm DK-Lok	1.88	47.8	14mm	9/16	
	D-8M-	8mm DK-Lok	1.94	49.3	15mm	5/8	
	T-4T-	6mm Tube Stub	1.81	46.0	1/2	-	
	T-6T-	3/8" Tube Stub	1.88	47.8	1/2		
	T-8T-	1/2" Tube Stub	2.09	53.1	9/16		

^{*} Several types of pipe thread can be applicable such as Male/Female NPT (N) thread, PT(R) and PF(G), etc.

Options and How to order

Optional PTFE ball is available. Valve with Teflon ball does not require wrench but only finger-tight for leak-tight shut-off.

- · Removable cap for PTEE ball replacement
- Pressure rating: 200 psig @ 100 °F (13.7 bar @ 37 °C)
- Maximum Temperature: 350 °F (176 °C)

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

To order PTFE ball valve, add PE to the basic ordering number. Example: VPV-M-4N-PE-B

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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.

The valve with PTFE ball is tested at 0.69 bar (10 psi) for leakage at the seat to a maximum allowance leak rate of 0.1 scc/min.



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