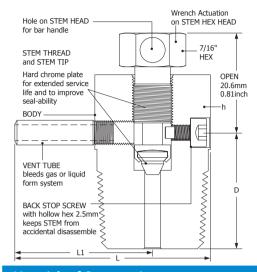
# **VBV Series Bleed Valves**

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			
SS316 Stainless	Carbon Steel		
GRADE / ASTM and JIS SPECIFICATION			
SS316 / A 276			
S630 / A564			
SS316 / A 276	S20C-S45C / G4051		
SS316 / A 276			
SS316 / A 269			
	SS316 Stainless GRADE / ASTM and SS316 S630 / SS316 / A 276 SS316		

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)

<sup>\*</sup> Carbon Steel bodies are white galvanized for corrosion resistance.

# **Ordering Number and Table of Dimensions**

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

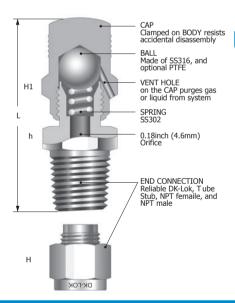
Operating personnel should take suitable measures to be protected from system fluids.

### **MATERIALS OF CONSTRUCTION**

Valve	Pressure Rating @ 100°F (38°C)		Temperat	ure Range
Material	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	33310/A4/901 A2/0	D1855/D10			
Ball	SS316/A276				
Spring	SS302/A313				



## Ordering Information and Table of Dimensions

<b>Basic Ordering</b>		End	L-cl	osed	h	Н	H1
Nu	umber	Connection	inch	mm	Hex	Hex	Hex
	F-2N-	1/8" Female NPT	1.50	38.1	9/16	-	
	F-4N-	1/4" Female NPT	1.69	42.9	3/4	-	
	F-6N-	3/8" Female NPT	1.75	44.5	7/8	-	
	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	-	5/8
	M-6N	3/8" Male NPT	1.78	45.2	11/16	-	
	M-8N	1/2" Male NPT	2.03	51.6	7/8	-	
VPV-	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		

## **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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