



High Flow Manual Bellows Valves

Standard Type



Features

- Maximum flow & Compact designed inner capacity.
- Minimal contributions of moisture, Oxygen and Hydrocarbon, Minimal particle generation.
- DK-LOK's own electropolished.
- DI water cleaned, assembled, tested & packaged in the certified clean room.
- PCTFE seat material with remarkable chemical & thermal resistance.

Specification

Size	1/2"	3/4"
Cv Value	2.0	2.8
Max. Working Pressure	10 bar (145 psig)	
Max. Working Temperature	-10° ~ 80°C (-23~176°F)	
Internal Leakage Allowance – He Holding Time ≥ 15 sec	≤ 5x10 ⁻⁹ atm.cc/s	
External Leakage Allowance – He Holding Time ≥ 1 min	≤ 5x10 ⁻⁹ atm.cc/s	
Particle Inspection (EP Only) Pressure : 60~80psi N2 Gas Sample Volume : 1CFM 0.1 μm and Larger	No count	

Product Grade

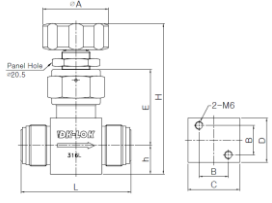
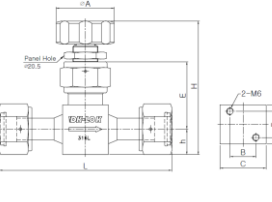
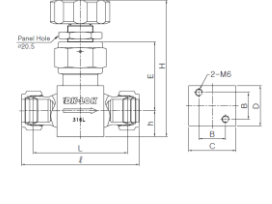
Level	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10μin	Ry ≤ 0.7 μm / Ra 5μin
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing Finish

Material of Construction

Description	Materials
Body	316L Stainless Steel
	316L Stainless Steel VAR
Seat	PCTFE
Bellows	316L Stainless Steel
Handle	Aluminum

- Wetted Components are listed in [blue](#)

Ordering Information and Dimensions

Model	Basic Ordering Number	End Connections	Dimensions (mm)								
			L	h	H	A	B	C	D	E	ℓ
	U-HFVBC8-DM-	1/2" DCR Male	76.2	12.7	113	52	22.6	40	34	65.3	-
	U-HFVBC12-DM-	3/4" DCR Male	85	22	116	52	22.6	40	34	58.4	-
	U-HFVBC8-DF-	1/2" DCR Female	102.6	12.7	113	52	22.6	40	34	65.3	-
	U-HFVBC12-DF-	3/4" DCR Female	149	22	116	52	22.6	40	34	58.4	-
	U-HFVBC8-DK-	1/2" DK-LOK	74	12.7	113	52	22.6	40	34	65.3	94
	U-HFVBC12-DK-	3/4" DK-LOK	80	22	116	52	22.6	40	34	58.4	100

How to order

U	-	HFVBC	-	8	-	DM	-	LN	-	SL	-	B	-	X
DK-LOK UHP Product		Valve Type		Size		End Connector Type		Option Type		Material		Inner Surface Level		User Option

Valve Type	Size	End Connector Type	Option Type	Material	Surface Level	User Option
HFVBC	8 : 1/2"	DM : DCR Male	Blank : No Lock Nut	SL : 316L Stainless Steel	B : BA Grade	Blank : Standard
	12 : 3/4"	DF : DCR Female	LN : Lock Nut	DL : 316L Stainless Steel VAR	P : EP Grade	X : Customization No.
		DK : DK-LOK				
		TW : Tube Butt Weld				

(Note) DCR : DK-Metal Face Seal

Safe Valve Selection

The selection of a valve for any application or system design must be considered to ensure safe performance. Valve function, valve rating, material compatibility, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. DK-Lok accepts no liability for any improper selection, installation, operation or maintenance.

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DK-LOK
Fittings & Valves
www.dklok.com

DK-LOK Corporation
Mailing Address
7, Golden root-ro 129beon-gil, Juchon-myeon,
Gimhae-si, Gyeongsangnam-do, South Korea 621-842

DK-Lok contact information
Tel. (82) 55-338-0114
Fax. (82) 55-901-0143
E-mail : sales@dklok.com

For International customers
Tel. (82) 55-338-0031/2
Fax. (82) 55-901-0142
E-mail : dklok@dklok.com