



Low Pressure Pneumatic Bellows Valves Standard Type



Features

- 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	1/4"	3/8", 1/2"
Cv Value	0.36	1.1
Max. Working Pressure	10 bar (145 psig)	
Max. Working Temperature	-10° ~ 80°C (-23~176°F)	
Actuator Pressure Rating	4 ~ 6 bar (58 ~ 87 psig)	
Internal Leakage Allowance – He Holding Time ≥ 15 sec	≤ 4x10 ⁻⁹ atm.cc/s	
External Leakage Allowance – He Holding Time ≥ 1 min	≤ 4x10 ⁻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

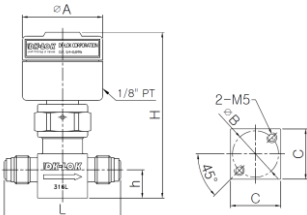
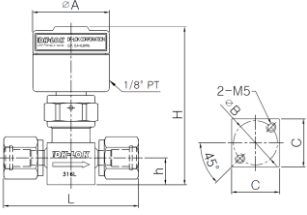
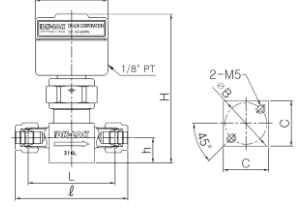
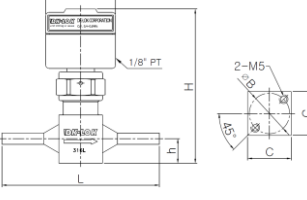
Level	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10μin	Ry ≤ 0.7 μm / Ra 5μin
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing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

Material of Construction

Description	Materials
Body	316L Stainless Steel
	316L Stainless Steel VAR
Seat	PCTFE
Bellows	316L Stainless Steel
Actuator	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	ℓ
	U-PVBC4-DM-	1/4" DCR Male	58	14	82.5	40	23	25	-
	U-PVBC8(6)-DM-	1/2" DCR Male	60	16	89	40	23	25	-
	U-PVBC4-DF-	1/4" DCR Female	70.5	14	82.5	40	23	25	-
	U-PVBC8(6)-DF-	1/2" DCR Female	90	14	89	40	23	25	-
	U-PVBC4-DK-	1/4" DK-LOK	48	14	82.5	40	23	25	62.5
	U-PVBC6-DK-	3/8" DK-LOK	63	14	89	40	23	25	77.5
	U-PVBC8-DK-	1/2" DK-LOK	63	14	89	40	23	25	84
	U-PVBC4-TW-	1/4" Tube Butt Weld	150	14	89	40	23	25	-
	U-PVBC6-TW-	3/8" Tube Butt Weld	150	14	89	40	23	25	-
	U-PVBC8-TW-	1/2" Tube Butt Weld	150	14	89	40	23	25	-

How to order

U	-	PVBC	-	4	-	DM	-	C	-	SL	-	B	-	X
DK-LOK UHP Product		Valve Type		Size		End Connector Type		Operation Type		Material		Inner Surface Level		User Option

Valve Type	Size	End Connector Type	Operation Type	Material	Surface Level	User Option
PVBC	4 : 1/4"	DM : DCR Male	C : Normal Close	SL : 316L Stainless Steel	B : BA Grade	Blank : Standard
	6 : 3/8"	DF : DCR Female	O : Normal Open	DL : 316L Stainless Steel VAR	P : EP Grade	X : Customization No.
	8 : 1/2"	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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