

High Pressure Pneumatic Diaphragm Valves

Standard Type



Features

- Maximum Pressure & 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.
- Elgiloy diaphragm material with strong durability as well as corrosion resistance for long cycle life.
- PCTFE seat material with remarkable chemical & thermal resistance.

Specification

Size	1/4"
Cv Value	0.1
Max. Working Pressure	206 bar (3,000 psig)
Max. Working Temperature	PCTFE : -10° ~ 80°C / PFA, PI : -10° ~ 150°C
Actuator Pressure Ration	5 ~ 7 bar (73 ~ 102 psig)
Internal Leakage Allowance – He Holding Time ≥ 15 sec	≤ 1x10 ⁻⁹ atm.cc/s
External Leakage Allowance – He Holding Time ≥ 1 min	≤ 1x10 ⁻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

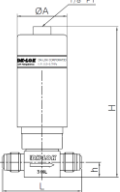

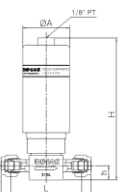
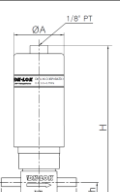
Level	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10μin	Ry ≤ 0.7 μm / Ra 5μin
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing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

Material of Construction

Description	Materials
Body	316L Stainless Steel
	316L Stainless Steel VAR
Seat	PCTFE, PFA, PI
Diaphragm	Ni-Co Alloy
Actuator	316 Stainless Steel

- 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-HPVDC4-DM-	1/4" DCR Male	57	11	109.2	36	25.4	26	
	U-HPVDC4-DF-	1/4" DCR Female	70.6	11	109.2	36	25.4	26	
	U-HPVDC4-DK-	1/4" DK-LOK	55	11	109.2	36	25.4	26	69.5
	U-HPVDC4-TW-	1/4" Tube Butt Weld	54	11	109.2	36	25.4	26	

How to order

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

Valve Type	Size	End Connector Type	Material	Surface Level	User Option
HPPVDC	4 : 1/4"	DM : DCR Male	SL : 316L Stainless Steel	B : BA Grade	Blank : Standard
		DF : DCR Female	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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