



High Pressure Pneumatic Diaphragm Valves

DK-LOK DP Series



Features

- Suitable for ultrahigh-purity applications.
- Dimensions follow Semi-spec.
- Max Working Pressure 3045 psig (210 bar).
- Elgiloy diaphragm material with strong durability as well as corrosion resistance for long cycle life.
- DI water cleaned, assembled, tested & packaged In the certified clean room.

Specification

Size	1/4"
Cv Value	0.2
Max. Working Pressure	3045 psig (210 bar)
Max. Working Temperature	PCTFE : -10 to 150°F (-23° ~ 65°C) / PI : 50 to 300°F (10° ~ 150°C)
Actuator Pressure	4.9 ~ 8.2 bar (70 ~ 120 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

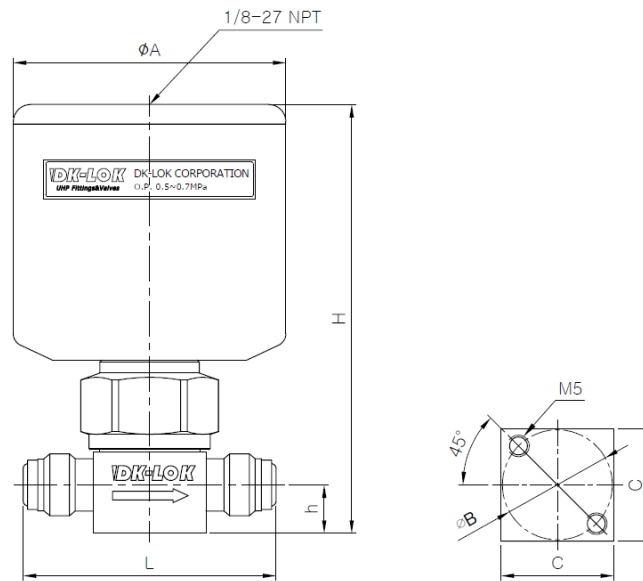
Level	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10μin	Ry ≤ 0.7 μm / Ra 5μin
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing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

Material of Construction

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

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

Ordering Information and Dimensions



End Connections	Dimensions (mm)					
Basic Ordering Number	L	h	H	A	B	C
1/4" DCR Male U-DHPVDC4-DM-	58.4	11.2	99	63	25.4	26
1/4" DCR Female U-DHPVDC4-DF-						
1/4" DK-LOK U-DHPVDC4-DK-	62.5	11.2	99	63	25.4	26
1/4" Tube Butt Weld U-DHPVDC4-TW-						
1/4" Tube Butt Weld U-DHPVDC4-TW-	44.2	11.2	99	63	25.4	26

※Air inlet 1/8-27 NPT

How to order

<div>U</div> <div>DK-LOK UHP Product</div>	-	<div>DHPVDC</div> <div>Valve Type</div>	-	<div>4</div> <div>Size</div>	-	<div>DM</div> <div>End Connector Type</div>	-	<div>C</div> <div>Operation Type</div>	-	<div>SL</div> <div>Material</div>	-	<div>B</div> <div>Inner Surface Level</div>	-	<div>X</div> <div>User Option</div>
Valve Type	Size	End Connector Type	Operation Type	Material		Surface Level	User Option							
DHPVDC	4 : 1/4"	DM : DCR Male	C : Normal Close	SL : 316L Stainless Steel		B : BA Grade	Blank : Standard							
		DL : 316L VAR Stainless Steel												
		TL : 316L VIM-VAR Stainless Steel												
		DF : DCR Female				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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