



No. DVDC-1
MAY.2022

Low Pressure Manual Diaphragm Valves

DK-LOK DP Series



Features

- Suitable for ultrahigh-purity applications.
- Dimensions follow Semi-spec.
- Quick, quarter-turn actuation.
- Max Working Pressure 250 psig (17.2 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	0.27
Max. Working Pressure	250 psig (17.2 bar)
Max. Working Temperature	PCTFE : -10 to 150°F (-23° ~ 65°C) / PI : 50 to 300°F (10° ~ 150°C)
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

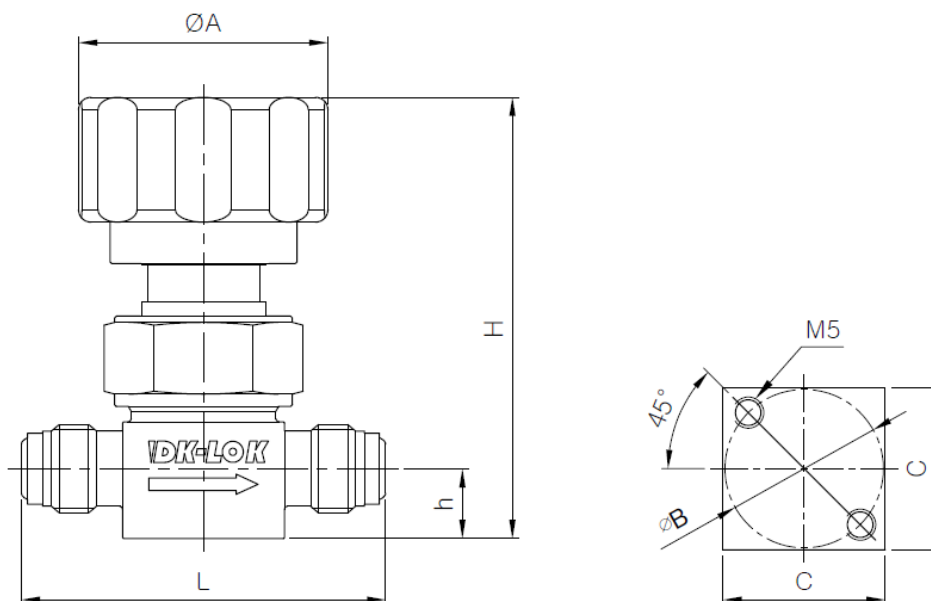
Level	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10μin	Ry ≤ 0.7 μm / Ra 5μin
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing 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
Handle	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-DVDC4-DM-	58.4	11.2	69.5	40	25.4	26
1/4" DCR Female U-DVDC4-DF-						
1/4" DK-LOK U-DVDC4-DK-	62.5	11.2	69.5	40	25.4	26
1/4" Tube Butt Weld U-DVDC4-TW-						
	44.2	11.2	69.5	40	25.4	26

How to order

U	-	DVDC	-	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
DVDC	4 : 1/4"	DM : DCR Male	SL : 316L Stainless Steel	B : BA Grade	Blank : Standard
		DF : DCR Female	DL : 316L VAR Stainless Steel	P : EP Grade	X : Customization No.
		DK : DK-LOK	TL : 316L VIM-VAR Stainless Steel		
		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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