



Low Pressure Pneumatic Mini 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	10 bar (145 psig)
Max. Working Temperature	PCTFE : -10° ~ 80°C / PFA, PI : -10° ~ 150°C
Actuator Pressure Ration	4 ~ 6 bar (58 ~ 87 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

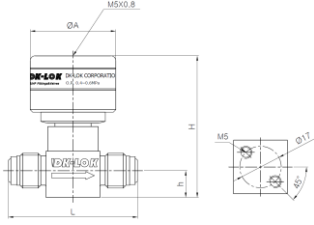
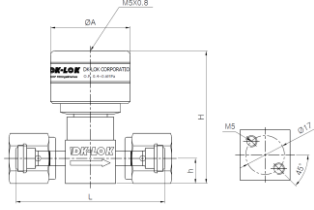
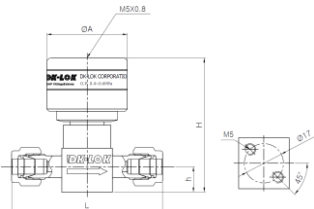
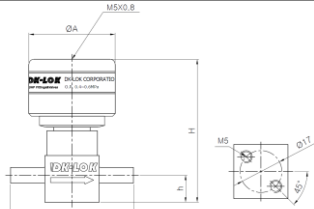
Level	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10μin	Ry ≤ 0.7 μm / Ra 5μin
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing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

Material of Construction

Description	Materials
Body	316L Stainless Steel
	316L Stainless Steel VAR
Seat	PCTFE, PFA, PI
Diaphragm	Ni-Co Alloy
Actuator	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
	U-MPVDC4-DM-	1/4" DCR Male	53	11	58	35	17	22
	U-MPVDC4-DF-	1/4" DCR Female	66	11	58	35	17	22
	U-MPVDC4-DK-	1/4" DK-LOK	65.5	11	58	35	17	22
	U-MPVDC4-TW-	1/4" Tube Butt Weld	50	11	58	35	17	22

How to order

U

DK-LOK
UHP Product

-

MPVDC

Valve Type

-

4

Size

-

DM

End Connector
Type

-

C

Operation Type

-

SL

Material

-

B

Inner
Surface Level

-

X

User Option

Valve Type	Size	End Connector Type	Operation Type	Material	Surface Level	User Option
MPVDC	4 : 1/4"	DM : DCR Male	C : Normal Close	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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