



No. MTV-1
OCT.2022

Low Pressure Diaphragm Metering Valves Standard Type



Features

- 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.
- Precise Micrometer Handle

Specification

Size	1/4"	
Cv Value	0.03	0.065
Max. Working Pressure	10 bar (145 psig)	
Max. Working Temperature	-10° ~ 150°C	
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

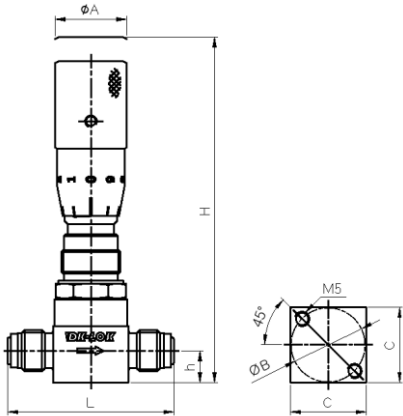
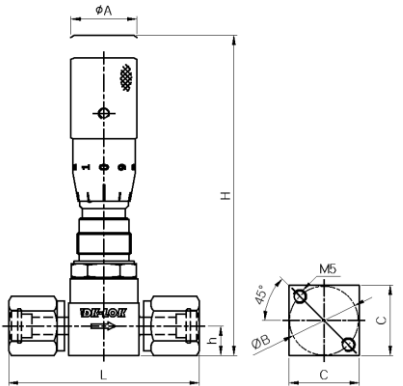
Level	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10μin	Ry ≤ 0.7 μm / Ra 5μin
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing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

Material of Construction

Description	Materials
Body	316L Stainless Steel
	316L Stainless Steel VAR
Diaphragm	Ni-Co Alloy
Handle	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-MTV4-DM-	1/4" DCR Male	57	11	118.4	24.4	25.4	26
	U-MTV4-DF-	1/4" DCR Female	70.6	11	118.4	24.4	25.4	26

How to order

U

DK-LOK
UHP Product

-

MTV

Valve Type

-

4

Size

-

DM

End Connector Type

-

C1

Option

-

SL

Material

-

B

Inner Surface Level

-

X

User Option

Valve Type	Size	End Connector Type	Option	Material	Surface Level	User Option
MTV	4 : 1/4"	DM : DCR Male DF : DCR Female	Blank : Without Cap C : With Cap Blank : 0.03 1 : 0.065	SL : 316L Stainless Steel DL : 316L Stainless Steel VAR	B : BA Grade P : EP Grade	Blank : Standard X : Customization No.

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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