



Low Pressure Manual Diaphragm Valves

Forged Body Type



Features

- Maximum flow & 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"	3/8", 1/2"	3/4"
Cv Value	0.3	0.7	0.7
Max. Working Pressure	10 bar (145 psig)		
Max. Working Temperature	PCTFE : -10° ~ 80°C / PFA, PI : -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

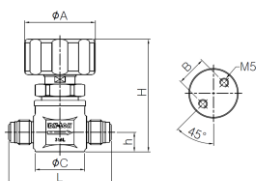
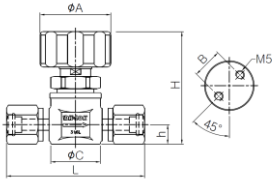
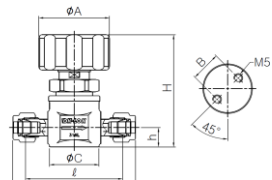
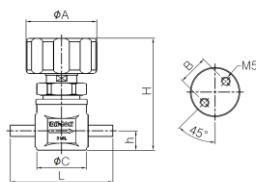
Level	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10μin	Ry ≤ 0.7 μm / Ra 5μin
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing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

Material of Construction

Description	Materials
Body	316L Stainless Steel
	316L Stainless Steel VAR
Seat	PCTFE, PFA, PI
Diaphragm	Ni-Co Alloy, Ni Alloy C22
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	ℓ
	U-VDF4-DM-	1/4" DCR Male	58	11	64	40	17	28	-
	U-VDF8(6)-DM-	1/2" DCR Male	76	16	77.3	40	28	38	-
	U-VDF12-DM-	3/4" DCR Male	122	22	83.3	40	28	38	-
	U-VDF4-DF-	1/4" DCR Female	78	11	64	40	17	28	-
	U-VDF8(6)-DF-	1/2" DCR Female	104.6	16	77.3	40	28	38	-
	U-VDF12-DF	3/4" DCR Female	122	22	83.3	40	28	38	-
	U-VDF4-DK-	1/4" DK-LOK	69.5	11	64	40	17	28	55
	U-VDF6-DK-	3/8" DK-LOK	82.5	16	77.3	40	28	38	68
	U-VDF8-DK-	1/2" DK-LOK	91	16	77.3	40	28	38	70
	U-VDF12-DK	3/4" DK-LOK	106	22	83.3	40	28	38	84
	U-VDF4-TW-	1/4" Tube Butt Weld	135	11	64	40	17	28	-
	U-VDF6-TW-	3/8" Tube Butt Weld	147	16	77.3	40	28	38	-
	U-VDF8-TW-	1/2" Tube Butt Weld	147	16	77.3	40	28	38	-
	U-VDF12-TW-	3/4" Tube Butt Weld	150	22	83.3	40	28	38	-

How to order

U	-	VDF		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
VDF	4 : 1/4"	DM : DCR Male	SL : 316L Stainless Steel	B : BA Grade	Blank : Standard X : Customization No.
	6 : 3/8"	DF : DCR Female	DL : 316L Stainless Steel VAR	P : EP Grade	
	8 : 1/2"	DK : DK-LOK			
	12 : 3/4"	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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