



High Pressure Manual 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"	1/2"
Cv Value	0.1	0.25
Max. Working Pressure	206 bar (3,000 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

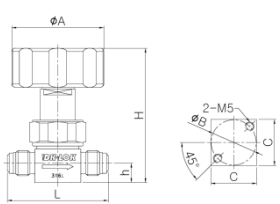
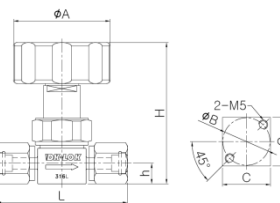
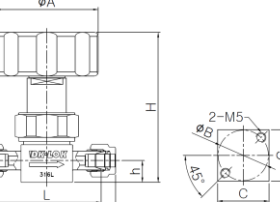
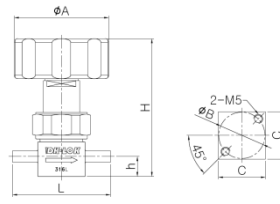
Level	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10μin	Ry ≤ 0.7 μm / Ra 5μin
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing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

Material of Construction

Description	Materials
Body	316L Stainless Steel
	316L Stainless Steel VAR
Seat	PCTFE, PFA, PI
Diaphragm	Ni-Co Alloy
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-HPVDC4-DM-	1/4" DCR Male	57	11	75	52	25.4	26	-
	U-HPVDC8-DM-	1/2" DCR Male	76.2	16	102.5	52	28	37	-
	U-HPVDC4-DF-	1/4" DCR Female	70.6	11	75	52	25.4	26	-
	U-HPVDC8-DF-	1/2" DCR Female	83	16	102.5	52	28	37	-
	U-HPVDC4-DK-	1/4" DK-LOK	55	11	75	52	25.4	26	69.5
	U-HPVDC6-DK-	3/8" DK-LOK	68	16	102.5	52	28	37	28.5
	U-HPVDC8-DK-	1/2" DK-LOK	70	16	102.5	52	28	37	91
	U-HPVDC4-TW-	1/4" Tube Butt Weld	54	11	75	52	25.4	26	-
	U-HPVDC6-TW-	3/8" Tube Butt Weld	69	16	102.5	52	28	37	-
	U-HPVDC8-TW-	1/2" Tube Butt Weld	69	16	102.5	52	28	37	-

How to order

U	-	HPVDC	-	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
HPVDC	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			
		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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