

High Flow Manual Diaphragm Valves

Standard 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.
- PCTFE seat material with remarkable chemical & thermal resistance.

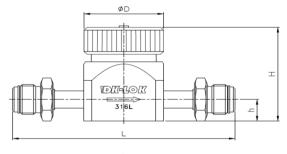
ecification						
Size	1/2"	3/4"	1"			
Cv Value	2.8	3.5	3.5			
Max. Working Pressure	18.6 bar (270 psig)					
Max. Working Temperature	-10° ~ 80°C (-23~176°F)					
Internal Leakage Allowance – He Holding Time ≥ 15 sec	≤ 1x10 ⁻⁹ atm.cc/s					
External Leakage Allowance – He Holding Time ≥ 1 min	≤ 1x10 ⁻⁹ atm.cc/s					
Particle Inspection (EP Only) Pressure: 60~80psi N2 Gas Sample Volume: 1CFM 0.1 µm and Larger		No count				

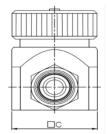
duct Grade				
Level	AP	ВА	EP	
Inner Surface Roughness	$Ry \leq 25 \mu m$	Ry \leq 3.0 μ m / Ra 10 μ in	Ry \leq 0.7 μ m / Ra 5 μ in	
	Cut off Length: 2.5mm	Cut off Length: 0.8mm	Cut off Length: 0.25mm	
	Measuring Length: 12.5mm	Measuring Length: 4mm	Measuring Length: 1.25mm	
Polishing	Machining Finish	Machining Finish	Electro Polishing Finish	

Material of Construction				
Description	Materials			
Pody	316L Stainless Steel			
Body	316L Stainless Steel VAR			
Seat	PCTFE			
Diaphragm	316L Stainless Steel			
Handle	Aluminum			

• Wetted Components are listed in blue

Ordering Information and Dimensions







Basic Ordering Number	Charles End Comment to the	Dimensions (mm)						
	Size	End Connections	L	h	Н	В	С	D
U-HFVDC8-DM-	1/2"	DCR Male	138.7	16	69.5	50	50	50
U-HFVDC12-DM-	3/4"		157	17.5	74	50	50	50
U-HFVDC16-DM-	1"		166	17.5	74	50	50	50
U-HFVDC8-DF-	1/2"	DCR Female	138.7	16	69.5	50	50	50
U-HFVDC12-DF-	3/4"		157	17.5	74	50	50	50
U-HFVDC16-DF-	1"		166	17.5	74	50	50	50
U-HFVDC8-TW-	1/2"	Tube Butt Weld	150	16	69.5	50	50	50
U-HFVDC12-TW-	3/4"		150	17.5	74	50	50	50
U-HFVDC16-TW-	1"		150	17.5	74	50	50	50

How to order 8 В **End Connector** Inner DK-LOK Purge Port Valve Type Size **User Option** Material Surface Level **UHP Product** Type Option Valve Size **Purge Port Option Material Surface Level End Connector Type User Option** Type SL: 316L Stainless Steel 8:1/2" DM: DCR Male Blank: No Purge Port B: BA Grade Blank: Standard P0 : Inlet Purge Port 1/4" DCR Male **12**: 3/4" DF: DCR Female DL: 316L Stainless Steel VAR P: EP Grade X: Customization No. : Inlet Purge Port 1/4" DCR 16:1''TW: Tube Butt Weld Female P2 : Outlet Purge Port 1/4" DCR **HFVDC** Male : Outlet Purge Port 1/4" DCR Р3 Female P4 : In/Out Purge Port 1/4" DCR Male P5 : In/Out Purge Port 1/4" DCR Female

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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