



No. HPFSVDC-1
DEC.2021

High Pressure/High Flow Manual Diaphragm Valves

Standard Spring Type



Features

- Minimal contributions of moisture, Oxygen and Hydrocarbon, Minimal particle generation.
- DK-LOK's own electropolished.
- D.I water cleaned, assembled, tested & packaged in a certified clean room.
- PCTFE seat material with remarkable chemical & thermal resistance.

Specification

Size	3/8"	1/2"
Cv Value	0.8	
Max. Working Pressure	206 bar (3000 psig)	
Max. Working Temperature	-10° ~ 80°C (-23~176°F)	
Internal Leakage Allowance – He Holding Time ≥ 15 sec	≤ 4x10 ⁻⁹ atm.cc/s	
External Leakage Allowance – He Holding Time ≥ 1 min	≤ 4x10 ⁻⁹ atm.cc/s	
Particle Inspection (EP Only) Pressure : 60~80psi N2 Gas Sample Volume : 1CFM 0.1 μm and Larger	No count	

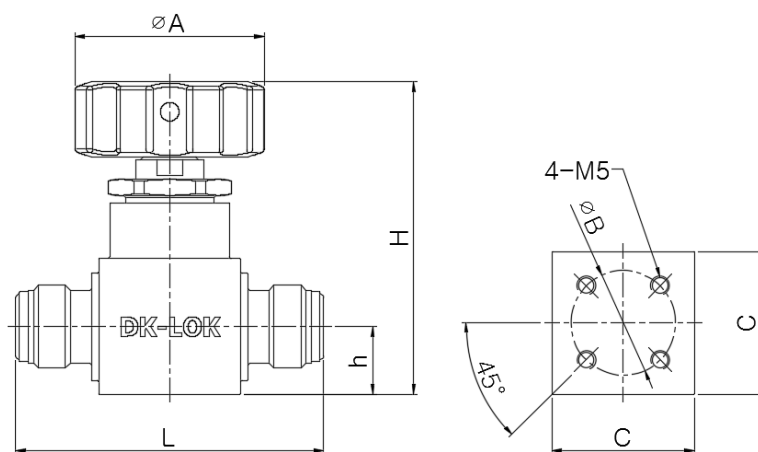
Product Grade

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
Button	
Seat	PCTFE
Spring	316L Stainless Steel
Diaphragm	Ni-Co Alloy
Handle	Aluminum

- Wetted Components are listed in [blue](#)



Ordering Information and Dimensions

Basic Ordering Number	End Connections	Dimensions (mm)					
		L	h	H	A	B	C
U-HPFSVDC8-DM-	1/2" DCR Male	82.5	18	83.5	52	28	38.1
U-HPFSVDC8-DF-	1/2" DCR Female	98.8	18	83.5	52	28	38.1
U-HPFSVDC6-DK-	3/8" DK-LOK	83.0	18	83.5	52	28	38.1
U-HPFSVDC8-DK-	1/2" DK-LOK	88.2	18	83.5	52	28	38.1
U-HPFSVDC6-TW-	3/8" Tube Butt Weld	90.9	18	83.5	52	28	38.1
U-HPFSVDC8-TW-	1/2" Tube Butt Weld	90.9	18	83.5	52	28	38.1

How to order

U	-	HPFSVDC		8	-	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
HPFSVDC	6 : 3/8"	DM : DCR Male	SL : 316L Stainless Steel	B : BA Grade	Blank : Standard
	8 : 1/2"	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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