



No.HPFSPVDC-1
DEC.2021

High Pressure/High Flow Pneumatic Diaphragm Valves

Standard Spring 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.
- 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)	
Actuator Pressure Rating	5 ~ 7 bar (72.5 ~ 101.5 psig)	
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	

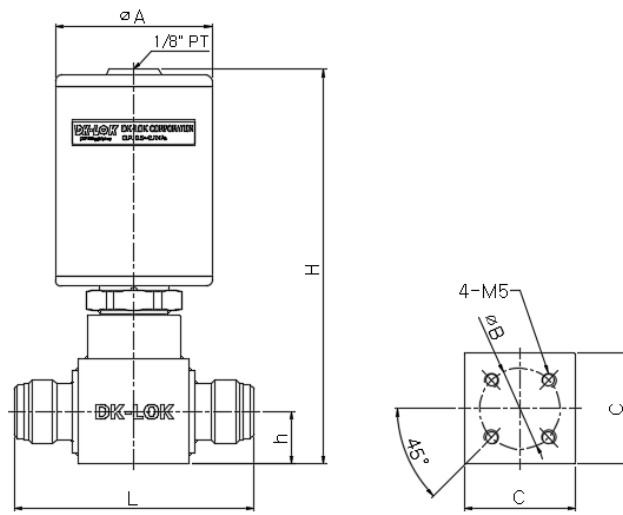
Product Grade

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
Actuator	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-HPFSPVDC8-DM-	1/2" DCR Male	82.5	18	136	54	28	38.1
U-HPFSPVDC8-DF-	1/2" DCR Female	98.8	18	136	54	28	38.1
U-HPFSPVDC6-DK-	3/8" DK-LOK	83.0	18	136	54	28	38.1
U-HPFSPVDC8-DK-	1/2" DK-LOK	88.2	18	136	54	28	38.1
U-HPFSPVDC6-TW-	3/8" Tube Butt Weld	90.9	18	136	54	28	38.1
U-HPFSPVDC8-TW-	1/2" Tube Butt Weld	90.9	18	136	54	28	38.1

How to order

U	-	HPFSPVDC	-	8	-	DM	-	C	-	SL	-	B	-	X
DK-LOK UHP Product		Valve Type		Size		End Connector Type		Operation Type		Material		Inner Surface Level		User Option

Valve Type	Size	End Connector Type	Operation Type	Material	Surface Level	User Option
HPFSPVDC	6 : 3/8"	DM : DCR Male	C : Normal Close	SL : 316L Stainless Steel	B : BA Grade	Black : Standard
	8 : 1/2"	DF : DCR Female	O : Normal Open	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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DK-LOK[®]
Fittings & Valves
www.dklok.com

DK-LOK Corporation
Mailing Address
7, Golden root-ro 129beon-gil, Juchon-myeon,
Gimhae-si, Gyeongsangnam-do, South Korea 621-842

DK-Lok contact information
Tel. (82) 55-338-0114
Fax. (82) 55-901-0143
E-mail : sales@dklok.com

For International customers
Tel. (82) 55-338-0031/2
Fax. (82) 55-901-0142
E-mail : dklok@dklok.com