UHP Fittings & 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.
- D.I water cleaned, assembled, tested & packaged in a 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"			
Cv Value	0.3	0.7			
Orifice Size	4.5	7.0			
Max. Working Pressure	10 bar (145 psig)				
Max. Working Temperature	-10 ~ 80°C (-23~176°F)				
Actuator Pressure Rating	4~7 bar (58~101 psig)				
Internal Leakage Allowance - He Holding Time ≥ 30 sec	≤ 1x10 ⁻⁹ atm.cc/s				
External Leakage Allowance - He Holding Time ≥ 1 min	≤ 1x10 ⁻⁹ atm.cc/s				
Particle Inspection (EP Only) Pressure: 60~80 psi N2 Gas Sample Volume: 1CFM 0.1 0	No count				

Product Grade

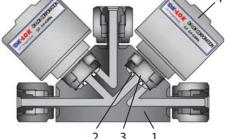
Level	AP	ВА	EP					
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10 μin	Ry ≤ 0.7 µm / Ra 5µin					
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm					
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length: 1.25mm					
Polishing	Machining Finish	Machining Finish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

Material of Construction

No.	Component	Materials
1	Dody	316L Stainless Steel
	Body	316L Stainless Steel VAR
2	Seat	PCTFE
3	Diaphragm	Ni-Co Alloy
4	Actuator	Aluminum



^{*} Wetted Components are listed in blue.





















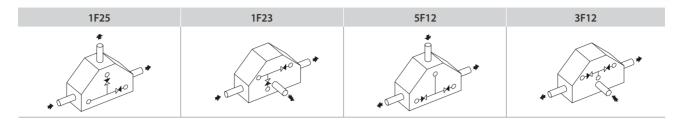








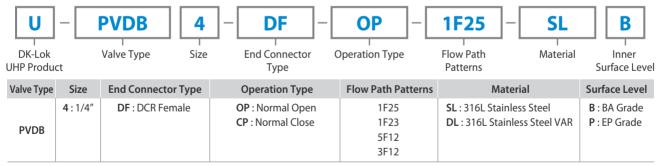
Flow Path Patterns



Ordering Information and Dimensions

Model	Basic Ordering Number	End Connections	Flow	Dimensions (mm)							
Wodel				Ł	h	Н	Α	В	L	D	C
B MSx0.8	U-PVDB4-DF-	1/4" DCR Female	1F25	21.8	11.0	73.1	53.8	123.4	64.0	15.0	40.0
B M5x0.8	U-PVDB4-DF-	1/4" DCR Female	1F23	21.8	11.0	73.1	34.8	123.4	64.0	15.0	40.0

How to Order



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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