

Low Pressure Manual Block 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.
- 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"
Cv Value	0.3
Max. Working Pressure	10 bar (145 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 m and Larger	No count

Product Grade

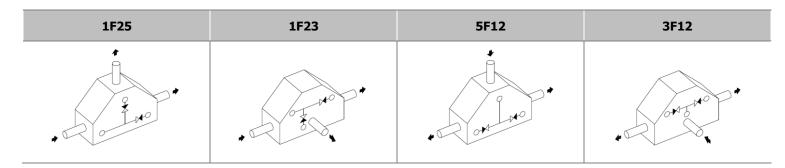
Level	АР	ВА	EP		
Inner Surface Roughness	Ry ≤ 25 μm	Ry \leq 3.0 μ m / Ra 10 μ in	Ry ≤ 0.7 μm / Ra 5μin		
	Cut off Length: 2.5mm	Cut off Length: 0.8mm	Cut off Length: 0.25mm		
	Measuring Length: 12.5mm	Measuring Length : 4mm	Measuring Length: 1.25mm		
Polishing	Machining Finish	Machining Finish	Electro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

Material of Construction

Description	Materials				
Dade	316L Stainless Steel				
Body	316L Stainless Steel VAR				
Seat	PCTFE, PFA, PI				
Diaphragm	Ni-Co Alloy				
Handle	Aluminum				

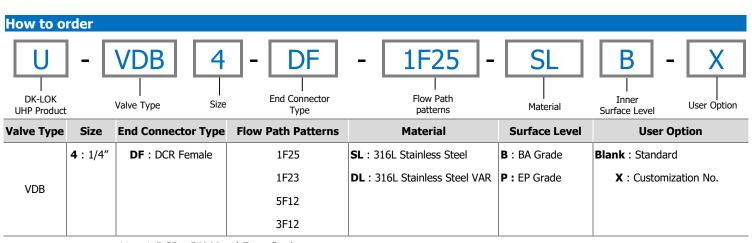
[•] Wetted Components are listed in blue

Flow Path Patterns



Ordering Information and Dimensions

Model	Basic	End	Flow	Dimensions (mm)							
	Ordering Number			ł	h	Н	A	В	L	D	С
	U-VDB4-DF-	1/4" DCR Female	1F25	21.8	11	70	53.8	117.6	64	15	40
B C A A A A A A A A A A A A A A A A A A	U-VDB4-DF-	1/4" DCR Female	1F23	21.8	11	70	34.8	117.6	64	15	40



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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