

# **Low Pressure Pneumatic 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
Actuator Pressure Ration	4 ~ 6 bar (58 ~ 87 psig)
Internal Leakage Allowance – He Holding Time ≥ 15 sec	≤ 1x10 <sup>-9</sup> atm.cc/s
External Leakage Allowance – He Holding Time ≥ 1 min	≤ 1x10 <sup>-9</sup> atm.cc/s
Particle Inspection (EP Only) Pressure: 60~80psi N2 Gas Sample Volume: 1CFM 0.1   m and Larger	No count

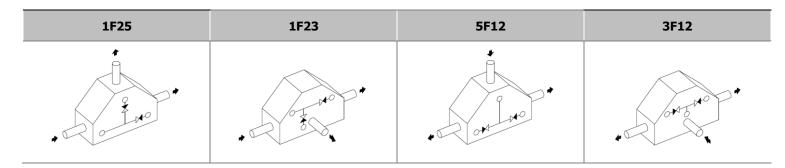
# **Product Grade**

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

### Material of Construction

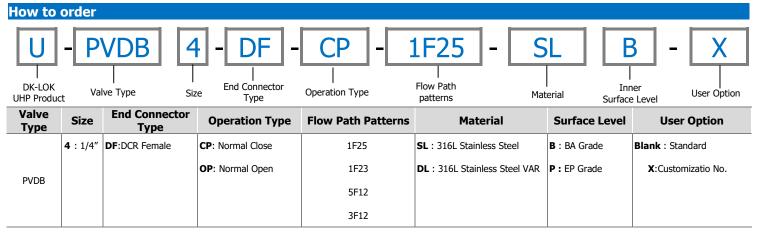
Description	Materials			
Dode	316L Stainless Steel			
Body	316L Stainless Steel VAR			
Seat	PCTFE, PFA, PI			
Diaphragm	Ni-Co Alloy, Ni Alloy C22			
Actuator	Aluminum			

#### Flow Path Patterns



### Ordering Information and Dimensions

Model	Basic	Fl	Dimensions (mm)								
	Ordering Number	End	Flow	ł	h	Н	A	В	L	D	С
	U-PVDB4-DF-	1/4" DCR Female	1F25	21.8	11	73.1	53.8	123.4	64	15	40
	U-PVDB4-DF-	1/4" DCR Female	1F23	21.8	11	73.1	34.8	123.4	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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