

Low Pressure Manual Diaphragm Valves

Weld Tee & Valve 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"	3/8", 1/2"	3/4"			
Cv Value	0.3	0.7	0.7			
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		
Rougnness	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: 0.25mm			
	Measuring Length: 12.5mm	Measuring Length : 4mm	Measuring Length: 1.25mm		
Polishing	Machining Finish	Machining Finish	Electro Polishing Finish		

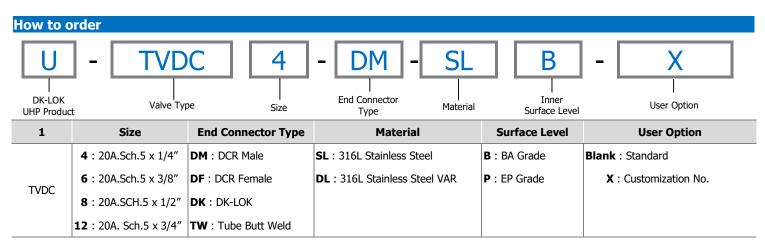
Material of Construction

Description	Materials				
P. J.	316L Stainless Steel				
Body	316L Stainless Steel VAR				
Seat	PCTFE, PFA, PI				
Diaphragm	Ni-Co Alloy, Ni Alloy C22				
Handle	Aluminum				

• Wetted Components are listed in blue

Ordering Information and Dimensions

Model	Basic Ordering	lering End	Dimensions (mm)						
	Number Connections	ł	h	Н	A	В	С	L	
PPE OR TUBE	U-TVDC4-DM-	1/4" DCR Male	98.5	11	63.7	40	25.4	26	115.5
	U-TVDC8(6)-DM-	1/2" DCR Male	122.6	16	76.8	40	28	37	125.1
	U-TVDC12-DM-	3/4" DCR Male	158.9	22	82.8	40	28	37	172.5
PPE OR TUBE	U-TVDC4-DF-	1/4" DCR Female	105.9	11	63.7	40	25.4	26	122.9
	U-TVDC8(6)-DF-	1/2" DCR Female	114.5	16	76.8	40	28	37	131.5
	U-TVDC12-DF-	3/4" DCR Female	141.8	22	82.8	40	28	37	155.4
PIPE ON TURE	U-TVDC4-DK-	1/4" DK-LOK	105	11	63.7	40	25.4	26	114.7
	U-TVDC6-DK-	3/8" DK-LOK	118.5	16	76.8	40	28	37	135.5
	U-TVDC8-DK-	1/2" DK-LOK	118.5	16	76.8	40	28	37	135.5
	U-TVDC12-DK-	3/4" DK-LOK	115	22	82.8	40	28	37	168.6
PIPE OR TUBE	U-TVDC4-TW-	1/4" Tube Butt Weld	97.2	11	63.7	40	25.4	26	114.2
	U-TVDC6-TW-	3/8" Tube Butt Weld	126	16	76.8	40	28	37	143
	U-TVDC8-TW-	1/2" Tube Butt Weld	126	16	76.8	40	28	37	143
	U-TVDC12-TW-	3/4" Tube Butt Weld	155	22	82.8	40	28	37	168.6



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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VDK-LOK Corporation

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