

## High Pressure Manual Diaphragm Valves

### DK-LOK DS Series



#### Features

- Packless, all-metal containment.
- Dimensions follow Semi-spec.
- Max Working Pressure 3500 psig (241 bar).
- Temperatures from -100 to 250°F (-73 to 121°C).
- DK-LOK DS series diaphragm valve require approximately one and one-half turns to operate from fully open to closed.
- DI water cleaned, assembled, tested & packaged In the certified clean room.

#### Specification

Size	1/4"
Cv Value	0.3
Max. Working Pressure	3500 psig (241 bar)
Differential Back Pressure	1500 psig (103 bar)
Max. Working Temperature	PCTFE : -100 to 250°F (-73 ~ 121°C)
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 μm and Larger	No count

#### Product Grade

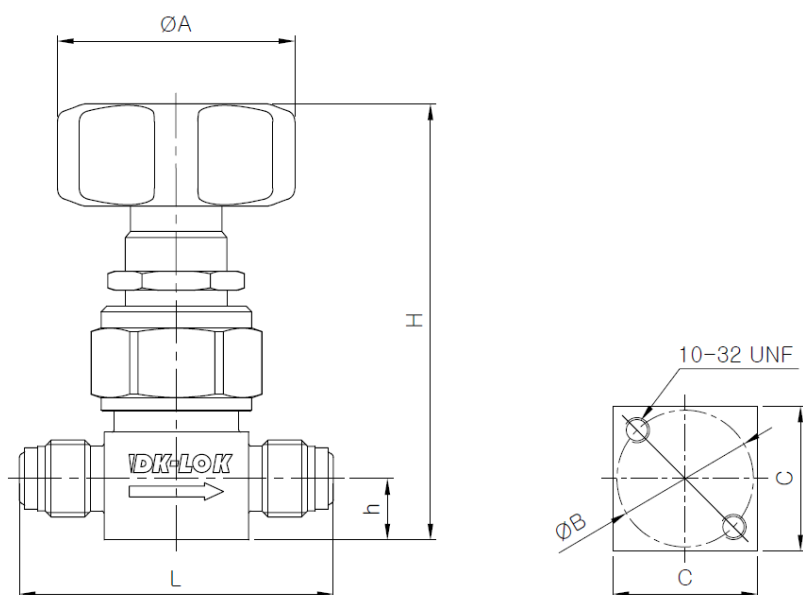
Level	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10μin	Ry ≤ 0.7 μm / Ra 5μin
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing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

#### Material of Construction

Description	Materials
Body	316L Stainless Steel
Holder	
Seat	PCTFE, PTFE, PI
Spring	316L Stainless Steel
Diaphragm	Ni-Co Alloy
Handle	Aluminum

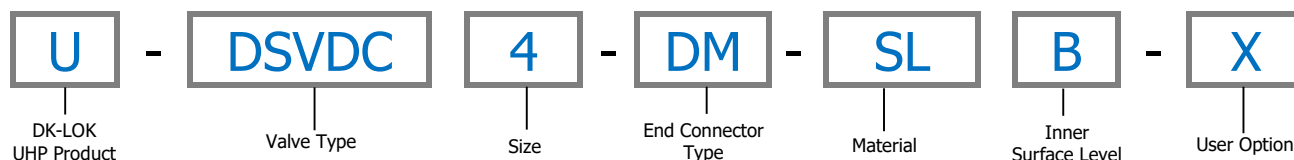
- Wetted Components are listed in [blue](#)

## Ordering Information and Dimensions



End Connections	Dimensions (mm)					
Basic Ordering Number	L	h	H	A	B	C
1/4" DCR Male U-DSVDC4-DM-	58.4	11.4	79.2	47	25.4	26.9
1/4" DCR Female U-DSVDC4-DF-						
1/4" DK-LOK U-DSVDC4-DK-	62.5	11.4	79.2	47	25.4	26.9
1/4" Tube Butt Weld U-DSVDC4-TW-						
	44.2	11.4	79.2	47	25.4	26.9

## How to order



Valve Type	Size	End Connector Type	Material	Surface Level	User Option
DSVDC	4 : 1/4"	<b>DM</b> : DCR Male	<b>SL</b> : 316L Stainless Steel	<b>B</b> : BA Grade	<b>Blank</b> : Standard
		<b>DF</b> : DCR Female	<b>DL</b> : 316L VAR Stainless Steel	<b>P</b> : EP Grade	<b>X</b> : Customization No.
		<b>DK</b> : DK-LOK			
		<b>TW</b> : 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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