



High Pressure Manual Diaphragm Valves

DK-LOK DP Series

No. DHVDC-1
MAY.2022



Features

- Suitable for ultrahigh-purity applications.
- Dimensions follow Semi-spec.
- Quick, quarter-turn actuation.
- Max Working Pressure 3045 psig (210 bar).
- Elgiloy diaphragm material with strong durability as well as corrosion resistance for long cycle life.
- DI water cleaned, assembled, tested & packaged In the certified clean room.

Specification

| | |
|--|---|
| Size | 1/4" |
| Cv Value | 0.2 |
| Max. Working Pressure | 3045 psig (210 bar) |
| Max. Working Temperature | PCTFE : -10 to 150°F (-23° ~ 65°C) / PI : 50 to 300°F (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 μm and Larger | No count |

Product Grade

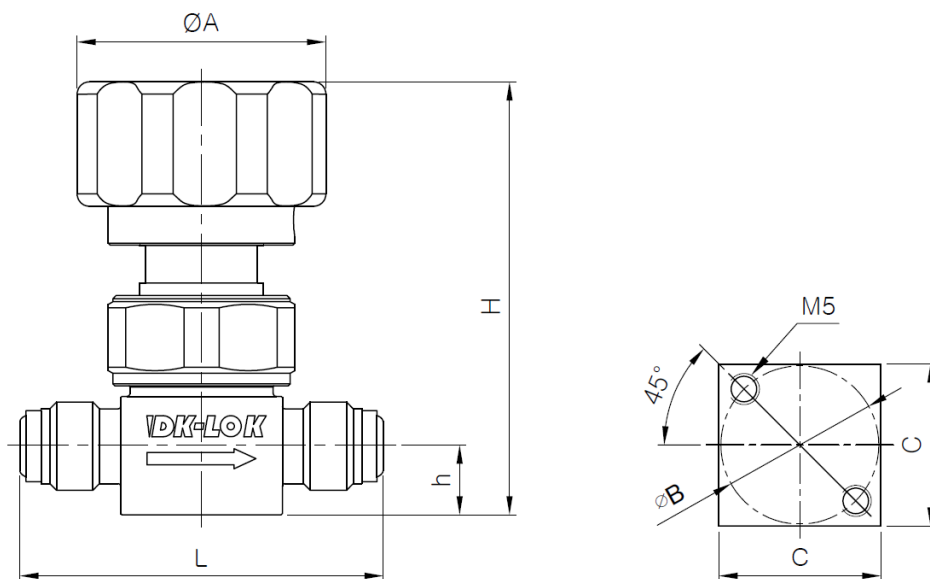
| Level | AP | BA | EP |
|-------------------------|---------------------------|------------------------|---------------------------|
| Inner Surface Roughness | Ry ≤ 25 μm | Ry ≤ 3.0 μm / Ra 10μin | Ry ≤ 0.7 μm / Ra 5μin |
| | Cut off Length : 2.5mm | Cut off Length : 0.8mm | Cut off Length : 0.25mm |
| | 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 |
| | 316L VAR Stainless Steel / 316L VIM-VAR Stainless Steel |
| Seat | PCTFE , PI |
| Diaphragm | Ni-Co Alloy |
| Handle | Aluminum |

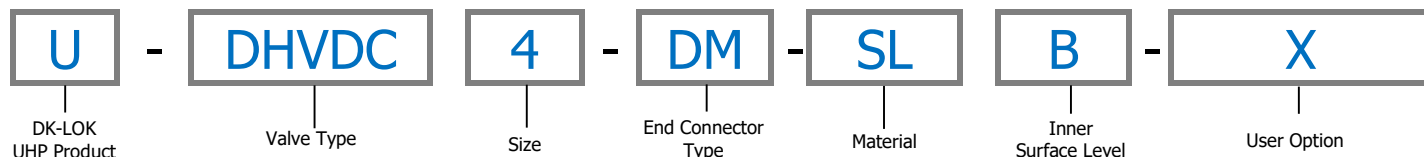
- Wetted Components are listed in [blue](#)

Ordering Information and Dimensions



| End Connections | Dimensions (mm) | | | | | |
|-----------------------|-----------------|------|----|----|------|----|
| Basic Ordering Number | L | h | H | A | B | C |
| 1/4" DCR Male | 58.4 | 11.2 | 71 | 40 | 25.4 | 26 |
| U-DHVDC4-DM- | | | | | | |
| 1/4" DCR Female | 70.6 | 11.2 | 71 | 40 | 25.4 | 26 |
| U-DHVDC4-DF- | | | | | | |
| 1/4" DK-LOK | 62.5 | 11.2 | 71 | 40 | 25.4 | 26 |
| U-DHVDC4-DK- | | | | | | |
| 1/4" Tube Butt Weld | 44.2 | 11.2 | 71 | 40 | 25.4 | 26 |
| U-DHVDC4-TW- | | | | | | |

How to order



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