



High Flow Pneumatic Bellows 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.
- PCTFE seat material with remarkable chemical & thermal resistance.

Specification

| | | |
|--|-------------------------------|------|
| Size | 1/2" | 3/4" |
| Cv Value | 2.0 | 2.8 |
| Max. Working Pressure | 10 bar (145 psig) | |
| Max. Working Temperature | -10° ~ 80°C (-23~176°F) | |
| Actuator Pressure Rating | 3.4~5 bar(51~73psig) | |
| Internal Leakage Allowance – He Holding Time ≥ 15 sec | ≤ 5x10 ⁻⁹ atm.cc/s | |
| External Leakage Allowance – He Holding Time ≥ 1 min | ≤ 5x10 ⁻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

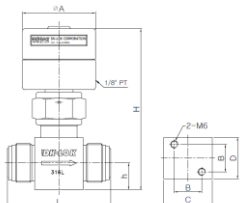
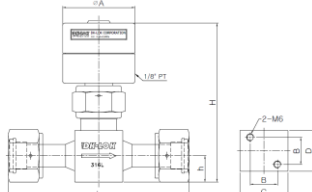
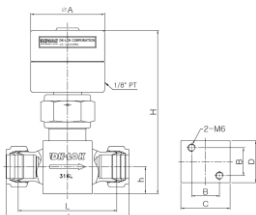
| Level | AP | BA | EP |
|-------------------------|---------------------------|------------------------|---------------------------|
| Inner Surface Roughness | Ry ≤ 25 μm | Ry ≤ 3.0 μm / Ra 10μin | Ry ≤ 0.7 μm / Ra 5μin |
| | Cut off Length : 2.5mm | Cut off Length : 0.8mm | Cut off Length : 0.25mm |
| | 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 Stainless Steel VAR |
| Seat | PCTFE |
| Bellows | 316L Stainless Steel |
| Actuator | Aluminum |

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

Ordering Information and Dimensions

| Model | Basic Ordering Number | End Connections | Dimensions (mm) | | | | | | | |
|---|-----------------------|-----------------|-----------------|------|-------|----|------|----|----|-----|
| | | | L | h | H | A | B | C | D | ℓ |
|  | U-HFPVBC8-DM- | 1/2" DCR Male | 76.2 | 12.7 | 132 | 60 | 22.6 | 40 | 34 | - |
| | U-HFPVBC12-DM- | 3/4" DCR Male | 85 | 22 | 134.5 | 60 | 22.6 | 40 | 34 | - |
|  | U-HFPVBC8-DF- | 1/2" DCR Female | 102.6 | 12.7 | 132 | 60 | 22.6 | 40 | 34 | - |
| | U-HFPVBC12-DF- | 3/4" DCR Female | 149 | 22 | 134.5 | 60 | 22.6 | 40 | 34 | - |
|  | U-HFPVBC8-DK- | 1/2" DK-LOK | 74 | 12.7 | 132 | 60 | 22.6 | 40 | 34 | 94 |
| | U-HFPVBC12-DK- | 3/4" DK-LOK | 80 | 22 | 134.5 | 60 | 22.6 | 40 | 34 | 100 |

How to order

| | | | | | | | | | | | | | | |
|-----------------------|---|---------------|---|----------|---|--------------------|---|----------------|---|-----------|---|---------------------|---|-------------|
| U | - | HFPVBC | - | 8 | - | DM | - | C | - | SL | - | B | - | X |
| DK-LOK UHP Product | | Valve Type | | Size | | End Connector Type | | Operation Type | | Material | | Inner Surface Level | | User Option |

| Valve Type | Size | End Connector Type | Operation Type | Material | Surface Level | User Option |
|------------|-----------------------|---|-------------------------------------|--|------------------------------|---|
| HFPVBC | 8 : 1/2" 12 : 3/4" | DM : DCR Male DF : DCR Female DK : DK-LOK | C : Normal Close O : Normal Open | SL : 316L Stainless Steel DL : 316L Stainless Steel VAR | B : BA Grade P : EP Grade | Blank : Standard X : Customization No. |

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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