

## Product Feature

- Suitable for ultra-pure, flammable or toxic fluid lines in semiconductor manufacturing equipment and facilities
- Direct diaphragm construction with superior sealing performance, remarkable durability, compactness and particle free performance
- Valve open and closed position is easily visible at a glance
- Excellent gas displacement characteristics
- EP treatment is standard for all wetted surfaces
- Standard seat material is PCTFE, Polyimide is option



1/2" pneumatic actuator

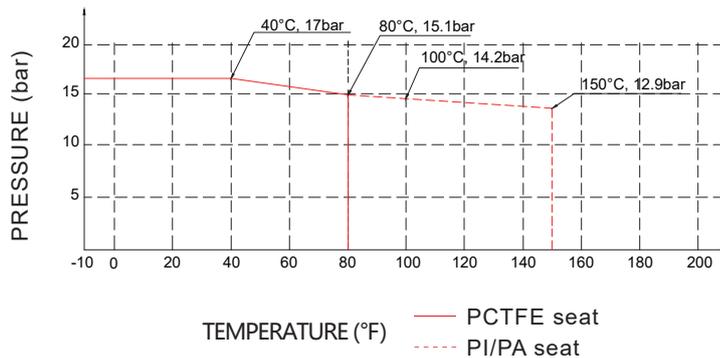


1/2" manual actuator



3/4" manual actuator (Lockable)

## Temperature / Pressure Rating

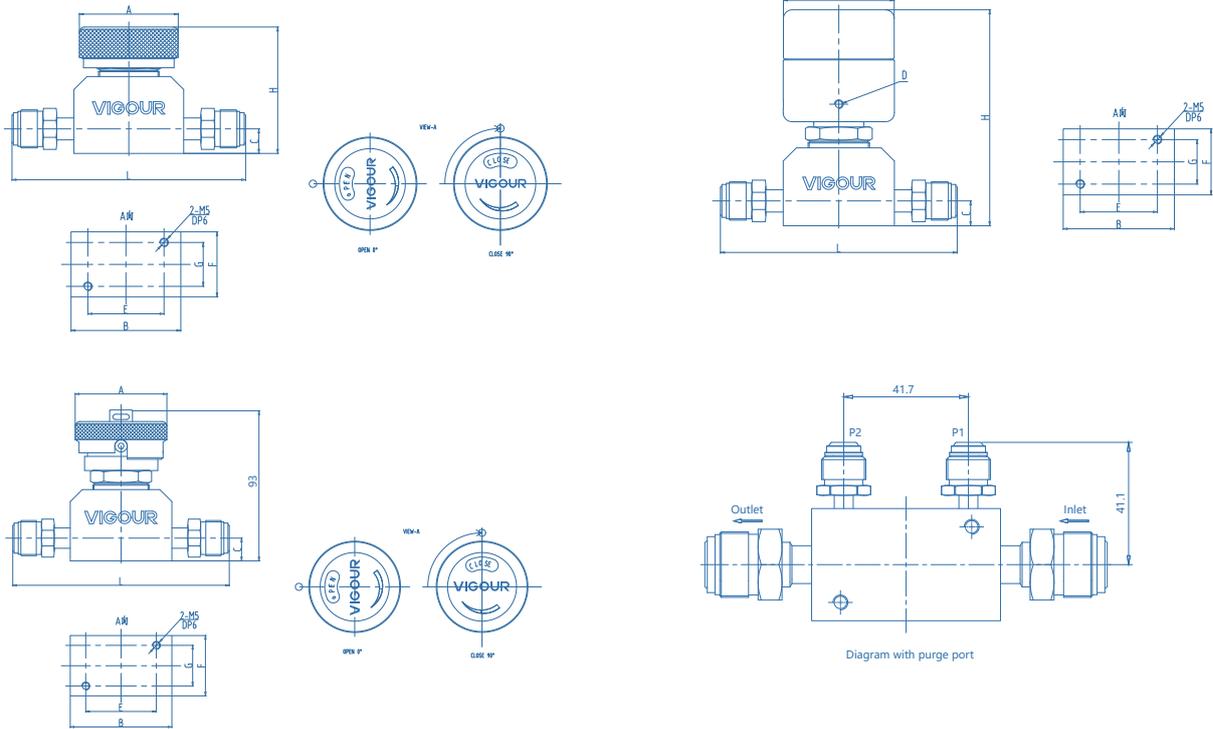


## Technical Data

|                             |  |
|-----------------------------|--|
| Max. Working Pressure:      | Manual 300 psig (20bar) / Pneumatic 250 psig (17bar) |
| Actuation Pressure:         | 80~100 psig (5.5~6.8bar)                             |
| Max. Working Temp.:         | -40°F ~ 159°F (-40°C ~ 71°C)                         |
| Surface finish:             | 10µin. Ra  |
| <b>Materials</b>            |  |
| Body:                       | see ordering info                                    |
| Diaphragm:                  | Elgiloy®   |
| Seat packing:               | PCTFE  |
| Handle:                     | AL   |
| Internal Leakage Allowance: | 1x10 <sup>-9</sup> mbar l/s He                       |
| External Leakage Allowance: | 1x10 <sup>-9</sup> mbar l/s He                       |
| Flow capacity:              | Cv=2.8   |
| Weight:                     | approx. 1.36kg (depending on connections or options) |



## Dimensions (mm)



manual actuator

| End Connections | Orifice (mm) | Dimensions (mm) |      |      |      |      |      |       |    |
|-----------------|--------------|-----------------|------|------|------|------|------|-------|----|
|                 |              | A               | B    | C    | E    | F    | G    | L     | H  |
| 1/2" VFS male   | 10.2         | Φ57             | 63.2 | 14.2 | 43.9 | 37.7 | 25.4 | 134.6 | 80 |
| 1/2" VFS female | 10.2         | Φ57             | 63.2 | 14.2 | 43.9 | 37.7 | 25.4 | 134.6 | 80 |
| 1/2" Tube Weld  | 10.2         | Φ57             | 63.2 | 14.2 | 43.9 | 37.7 | 25.4 | 216.0 | 80 |
| 3/4" VFS male   | 12.8         | Φ57             | 63.2 | 14.2 | 43.9 | 37.7 | 25.4 | 162.6 | 80 |
| 3/4" VFS female | 12.8         | Φ57             | 63.2 | 14.2 | 43.9 | 37.7 | 25.4 | 162.6 | 80 |
| 3/4" Tube Weld  | 12.8         | Φ57             | 63.2 | 14.2 | 43.9 | 37.7 | 25.4 | 216.0 | 80 |
| 3/8" Tube Weld  | 10.2         | Φ57             | 63.2 | 14.2 | 43.9 | 37.7 | 25.4 | 216.0 | 80 |

pneumatic actuator (normally closed)

| End Connections | Orifice (mm) | Dimensions (mm) |      |      |        |      |      |      |       |     |
|-----------------|--------------|-----------------|------|------|--------|------|------|------|-------|-----|
|                 |              | A               | B    | C    | D      | E    | F    | G    | L     | H   |
| 1/2" VFS male   | 10.2         | Φ63             | 63.2 | 14.2 | M5x0.8 | 43.9 | 37.7 | 25.4 | 134.6 | 125 |
| 1/2" VFS female | 10.2         | Φ63             | 63.2 | 14.2 | M5x0.8 | 43.9 | 37.7 | 25.4 | 134.6 | 125 |
| 1/2" Tube Weld  | 10.2         | Φ63             | 63.2 | 14.2 | M5x0.8 | 43.9 | 37.7 | 25.4 | 216.0 | 125 |
| 3/4" VFS male   | 12.8         | Φ63             | 63.2 | 14.2 | M5x0.8 | 43.9 | 37.7 | 25.4 | 162.6 | 125 |
| 3/4" VFS female | 12.8         | Φ63             | 63.2 | 14.2 | M5x0.8 | 43.9 | 37.7 | 25.4 | 162.6 | 125 |
| 3/4" Tube Weld  | 12.8         | Φ63             | 63.2 | 14.2 | M5x0.8 | 43.9 | 37.7 | 25.4 | 216.0 | 125 |
| 3/8" Tube Weld  | 10.2         | Φ63             | 63.2 | 14.2 | M5x0.8 | 43.9 | 37.7 | 25.4 | 216.0 | 125 |

## Ordering Information

**VDV37UBS - M - MV8 - MV8 - P1 - P2 - VS - LO - IS - P**

### Materials

S: 316L

### Actuator

M: manual actuator

PC: pneumatic actuator (normally closed)

### End Connection

TW6: 3/8" Tube weld

FV8: 1/2" VFS female

MV8: 1/2" VFS male

TW8: 1/2" Tube weld

FV12: 3/4" VFS female

MV12: 3/4" VFS male

TW12: 3/4" Tube weld

\* Other connection standard, consult factory

### Inlet Purge Connection

None: No inlet purge

P1: 1/4" inlet purge

### Outlet Purge Connection

None: No outlet purge

P2: 1/4" outlet purge

### Process Specification

None: VS001B

P: VS001A

\* For details, please refer to the appendix.

### Optional

None: Standard

IS: Switch Position Indicator

### Optional

None: Round Knob

LO: Round Knob

Pull, then turn to open

lock out / tag out

### Valve Seat Option

None: PCTFE (standard)

VS: Vespel®

