

## Product Feature

- Compact check valve
- O-ring Materials: VITON® standard, EPDM optional
- working pressure: Max. 413 bar
- Opening pressure: 0.02 / 0.06 bar
- Inlet/outlet connection: NPT thread / NPT tube fitting

## Typical Applications

- Designed for instrument panels and systems
- Hydrogen energy
- High-flow applications

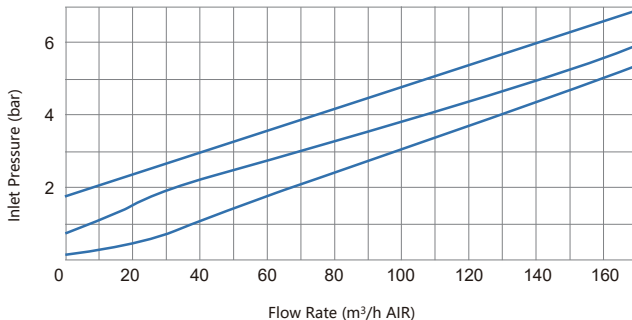
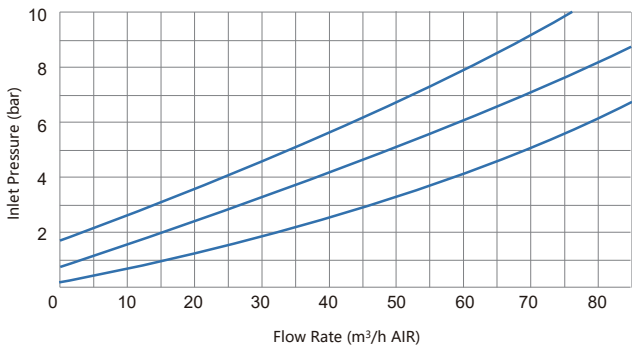
## Technical Data

|                          |                                      |
|--------------------------|--------------------------------------|
| Working pressure:        | Max. 413 bar                         |
| Opening pressure:        | 0.02 / 0.06bar                       |
| Parent material:         | see ordering info                    |
| Inlet/outlet connection: | see ordering info                    |
| O-ring:                  | Viton® (standard)<br>EPDM (optional) |
| Leakage rate:            | Bubble-tight                         |



| Minimum open reset pressure |                 | Reset pressure |
|-----------------------------|-----------------|----------------|
| psi(bar)                    |                 |                |
| 1/3 (0.03)                  | 3 (0.21) under  | 6 (0.42) under |
| 1 (0.07)                    | 4 (0.28) under  | 5 (0.35)       |
| 5 (0.35)                    | 3~9 (0.21~0.63) | 2 (0.14)       |
| 10 (0.69)                   | 7~15 (0.49~1.1) | 3 (0.21)       |
| 25 (1.8)                    | 20~30 (1.4~2.1) | 17 (1.21)      |

## Flow Chart



The rating is based on fluorocarbon FKM seals.

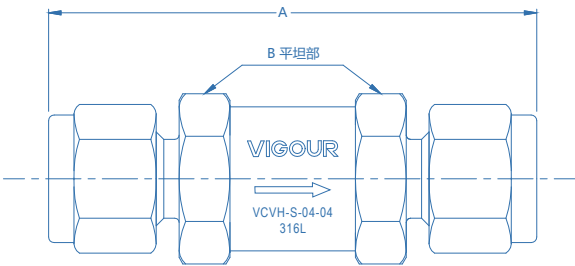
| Material              | 316 SS                    |             |
|-----------------------|---------------------------|-------------|
| Series                | 04 / 08                   | 12 / 16     |
| Temperature, °C(°F)   | Work pressure, psig (bar) |             |
| -28 (-20) to 37 (100) | 6000 (413)*               | 5000 (344)* |
| 93 (200)              | 5160 (355)                | 4290 (295)  |
| 121 (250)             | 4910 (338)                | 4080 (281)  |
| 148 (300)             | 4660 (321)                | 3875 (266)  |
| 204 (400)             | 4280 (294)                | 3560 (245)  |

\*For detailed information on the pressure ratings of valves with compression tube fitting end connections, refer to the VIGOUR Compression Tube Data.

\*The pressure rating may be limited by the end connection.



Dimensions (mm)



| End connection |      | Below 37°C (100°F)<br>pressure rating psig (bar) | Order number | Dimensions in. (mm) |        |
|----------------|------|--------------------------------------------------|--------------|---------------------|--------|
| Type           | Size |                                                  |              | A                   | B      |
| Tube Fitting   | 1/8" | 6000 (413)                                       | VCVH-S-02-02 | 2.27 (57.7)         | 11/16  |
|                | 1/4" |                                                  | VCVH-S-04-04 | 2.43 (61.7)         |        |
|                | 3/8" |                                                  | VCVH-S-06-06 | 2.75 (69.9)         | 1      |
|                | 1/2" |                                                  | VCVH-S-08-08 | 2.96 (75.2)         |        |
|                | 3/4" | 1000 (70)                                        | VCVH-S-12-12 | 3.52 (89.4)         | 1-5/8  |
|                | 1"   |                                                  | VCVH-S-16-16 | 3.88 (98.6)         |        |
| NPT (F)        | 1/4" | 6000 (413)                                       | VCVH-S-F4-F4 | 2.13 (54.1)         | 11/16  |
|                | 3/8" |                                                  | VCVH-S-F6-F6 | 2.55 (64.8)         | 1      |
|                | 1/2" |                                                  | VCVH-S-F8-F8 | 3.03 (77.0)         | 1-1/16 |

Ordering Information

