

Product Feature

- Compact check valve
- O-ring Materials: VITON® standard, EPDM optional
- working pressure: Max. 300bar
- Opening pressure: 0.02 / 0.06bar
- 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. 300 bar

Opening pressure: 0.02 / 0.06bar

Parent material: see ordering info

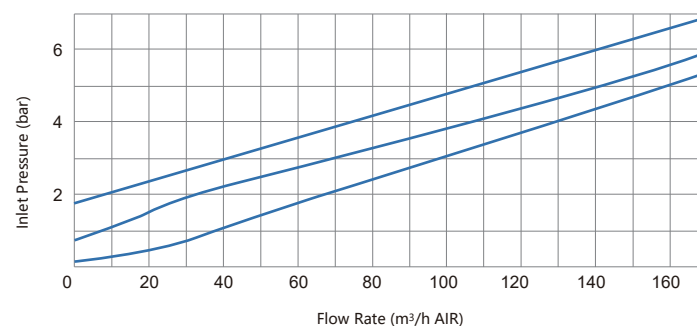
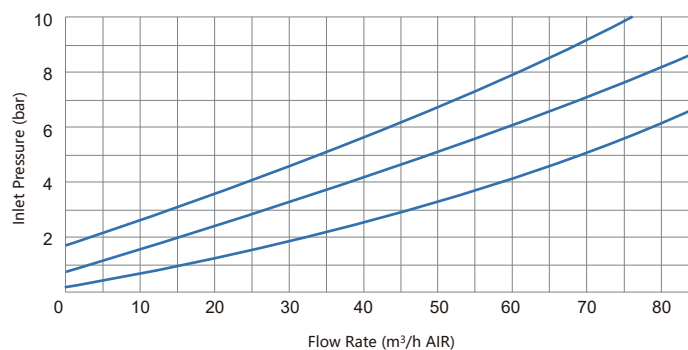
Inlet/outlet connection: see ordering info

O-ring: Viton® (standard)
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)

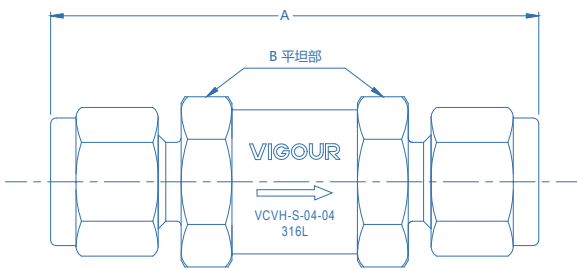
Flow Chart



Check Valves

VCVH Series

Dimensions (mm)



End connection		Below 37°C (100°F) pressure rating psig (bar)	Order number	Dimensions in. (mm)	
Type	Size			A	B
Tube Fitting	1/8"	4350 (300)	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"	4350 (300)	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

VCVH - S - 04 - 04 - E - 1

Materials

S: 316L

Inlet / Outlet Connection

02: 1/8" Tube Fitting
04: 1/4" Tube Fitting
06: 3/8" Tube Fitting
08: 1/2" Tube Fitting
12: 3/4" Tube Fitting
16: 1" Tube Fitting
F4: 1/4"NPT(F)
F6: 3/8"NPT(F)
F8: 1/2"NPT(F)

Opening pressure

1: 0.06bar (1psig)
1/3: 0.02bar (1/3 psig)

O-ring

None: Viton®
E: EPDM