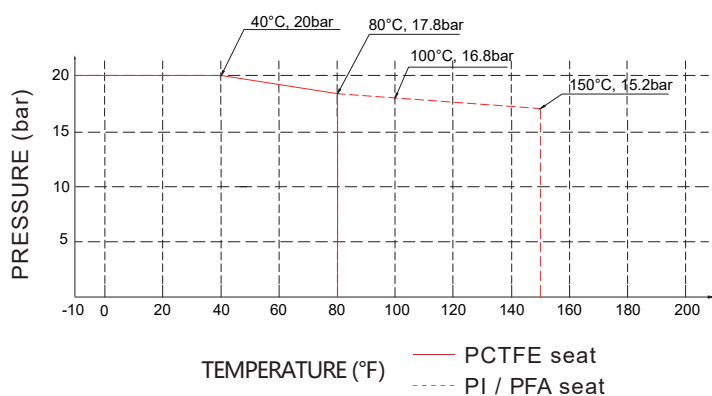


Product Feature

- 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 and dead-space-free performance
- The product is fabricated in compliance with the VS001A process specification
- 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/PFA is option

Temperature / Pressure Rating



Technical Data

Max. Working Pressure:	300 psig (20bar)
Pneumatic Operating Pressure:	58~87psig (4~6bar)
Max. Working Temp.:	14°F ~ 176°F (-10°C ~ 80°C)
Surface finish:	10μin. Ra
Materials	
Body:	see ordering info
Diaphragm:	Elgiloy®
Seat packing:	PCTFE
Handle:	AL
Internal Leakage Allowance:	1x10 ⁻⁹ mbar l/s He
External Leakage Allowance:	1x10 ⁻⁹ mbar l/s He
Flow capacity:	1/4" Cv=0.3 3/8" 1/2" Cv=0.65
Weight:	approx. 0.27kg (depending on connections or options)



1/4 Type



1/4 Type



1/2 Type



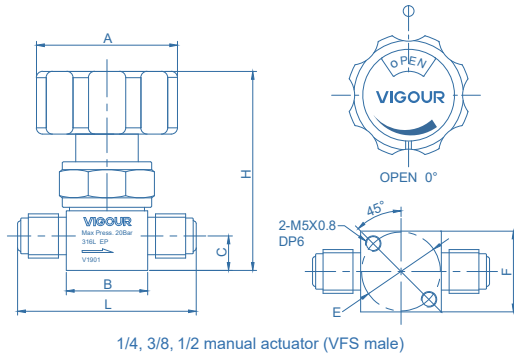
1/2 Type



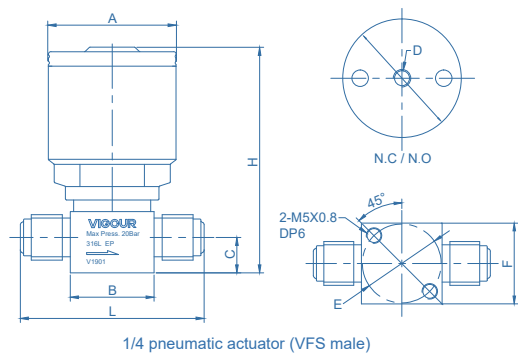
Diaphragm Valves VDV52UB Series

VIGOUR

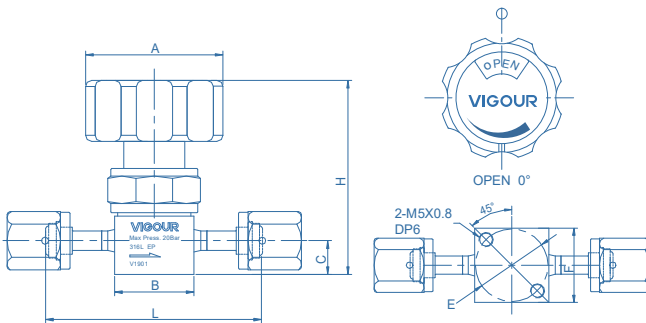
Dimensions (mm)



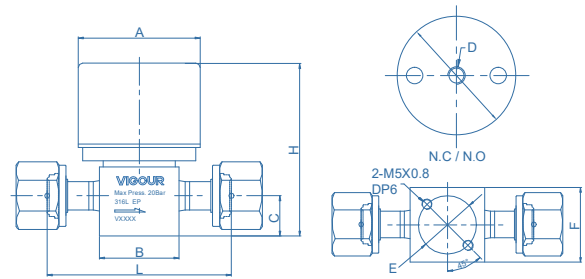
1/4, 3/8, 1/2 manual actuator (VFS male)



1/4 pneumatic actuator (VFS male)



1/4, 1/2 manual actuator (VFS female)



1/2 pneumatic actuator (VFS female)

manual actuator

End Connections	Orifice (mm)	Dimensions (mm)						
		A	B	C	E	F	L	H
1/4" VFS male	4.4	Φ45	26	11	Φ25.4	26	57	64
1/4" VFS female	4.4	Φ45	26	11	Φ25.4	26	71	64
3/8" VFS male	7	Φ45	36	18.2	Φ28	36	77	78
1/2" VFS male	7	Φ45	36	18.2	Φ28	36	77	78
1/2" VFS female	7	Φ45	36	18.2	Φ28	36	83	78

pneumatic actuator, normally opened / normally closed

End Conections	Actuator	Orifice (mm)	Dimensions (mm)							
			A	B	C	D	E	F	L	H
1/4" VFS male	N.C / N.O	4.4	Φ39.6	26	11	M5x0.8	Φ25.4	26	57	70
1/4" VFS female	N.C / N.O	4.4	Φ39.6	26	11	M5x0.8	Φ25.4	26	71	70
3/8" VFS male	N.C / N.O	7	Φ55	36	18.2	RC 1/8	Φ28	36	77	78
1/2" VFS male	N.C / N.O	7	Φ55	36	18.2	RC 1/8	Φ28	36	77	78
1/2" VFS female	N.C / N.O	7	Φ55	36	18.2	RC 1/8	Φ28	36	83	78

Ordering information

VDV52UB S - M - A - MV4 - MV4 - PA

Materials

S: 316L

SLV: 316L secondary remelt

Actuator

M: manual actuator

PO: pneumatic actuator, normally opened

PC: pneumatic actuator, normally closed

Flow Circuit Diagram

For details, refer to the flow circuit diagram on page 54.

Valve Seat Option

None: PCTFE(standard)

VS: Vespel®

PA: PFA

End Connection

MV4: 1/4" VFS male

FV4: 1/4" VFS female

TW4: 1/4" tube weld

MV6: 1/2" VFS male 3/8" O.D.

FV6: 1/2" VFS female 3/8" O.D.

TW6: 3/8" tube weld

MV8: 1/2" VFS male

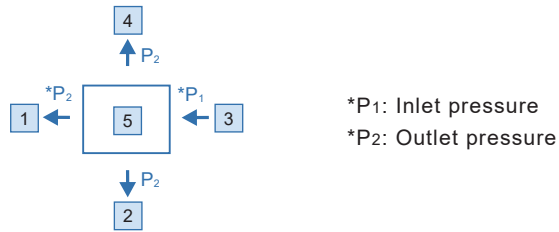
FV8: 1/2" VFS female

TW8: 1/2" tube weld

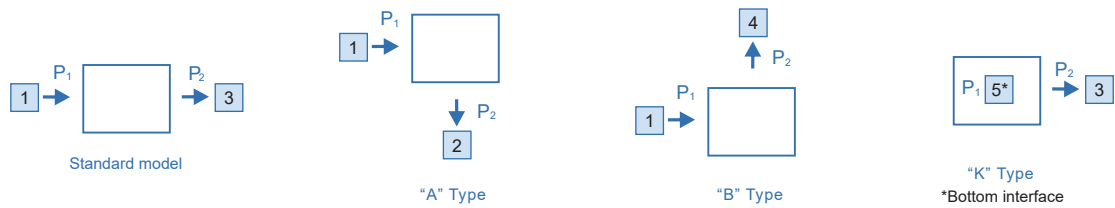
* Other connection standard, consult factory



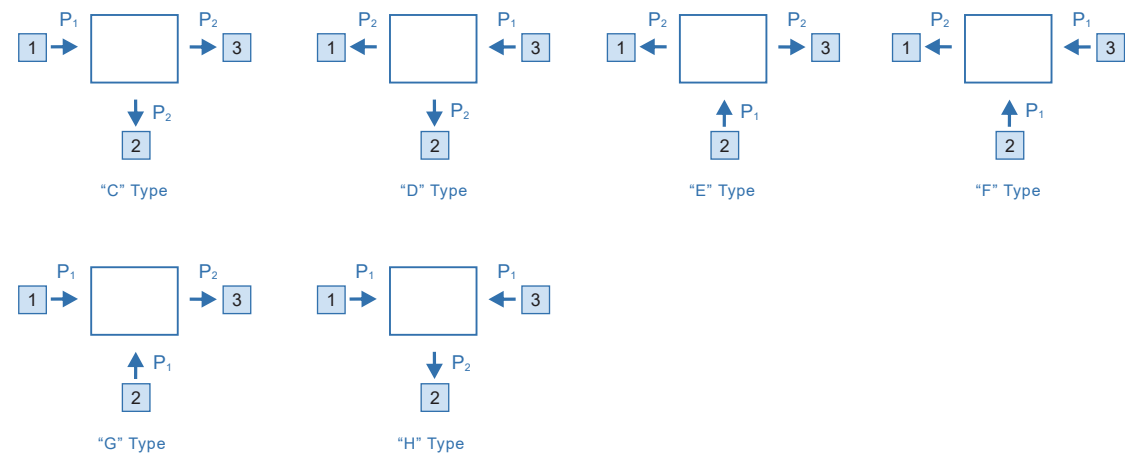
Ports Diagrammatic Drawing:



Two ports flow circuit diagram:



Three ports flow circuit diagram:



Four ports flow circuit diagram:

