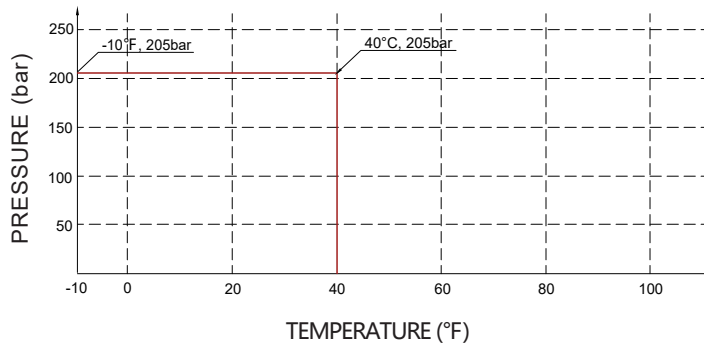


Product Feature

- 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:	3000 psig (200bar)
Pneumatic Operating Pressure:	58~87psig (4~6bar)
Max. Working Temp.:	14°F ~ 104°F (-10°C ~ 40°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=0.1 3/8" 1/2" Cv=0.5
Weight:	approx. 0.27kg (depending on connections or options)



1/4 Type



1/4 Type



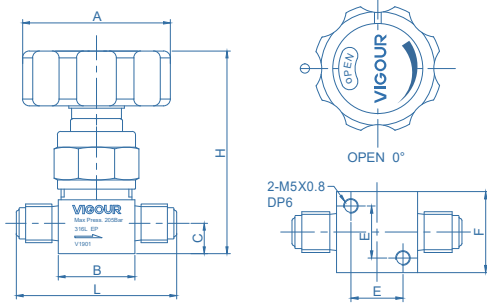
1/2 Type



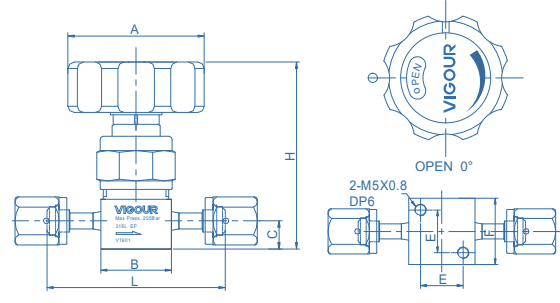
1/2 Type



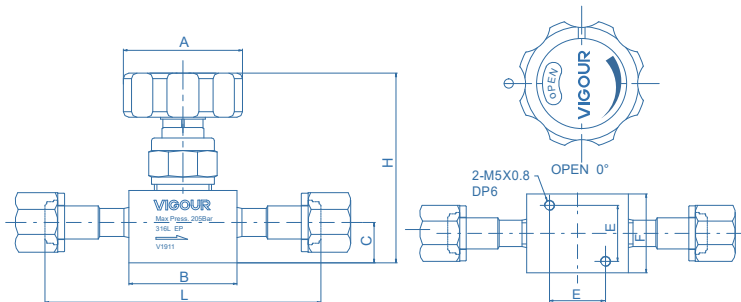
Dimensions (mm)



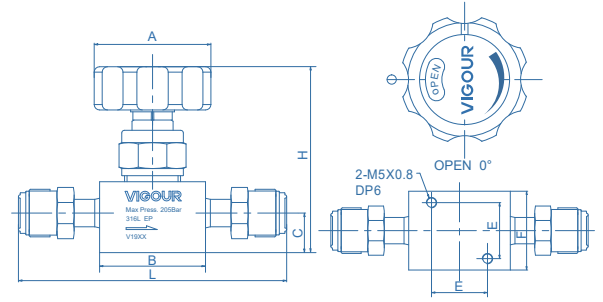
1/4 manual actuator (VFS male)



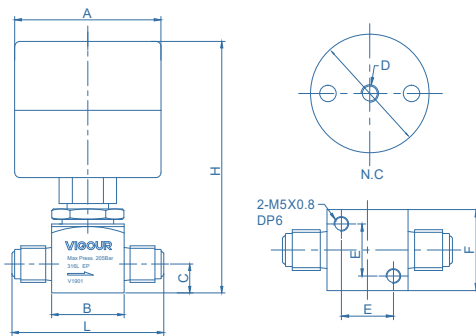
1/4 manual actuator (VFS female)



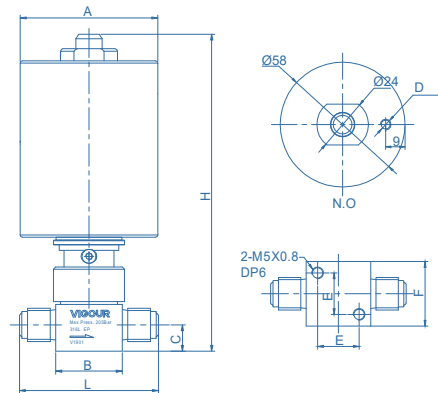
1/2 manual actuator (VFS female)



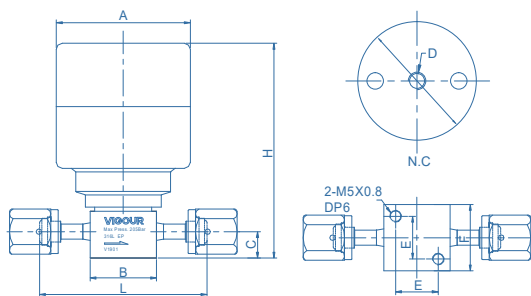
3/8, 1/2 manual actuator (VFS male)



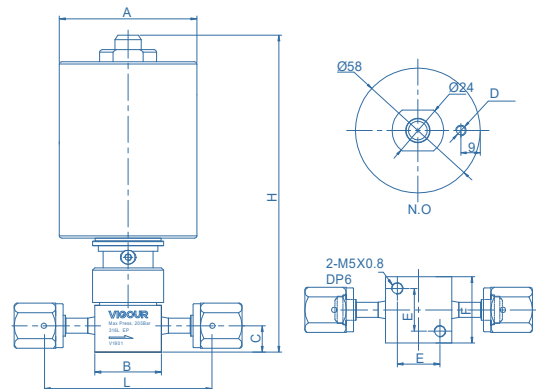
1/4 pneumatic actuator N.C (VFS male)



1/4 pneumatic actuator N.O (VFS male)



1/4 pneumatic actuator N.C (VFS female)



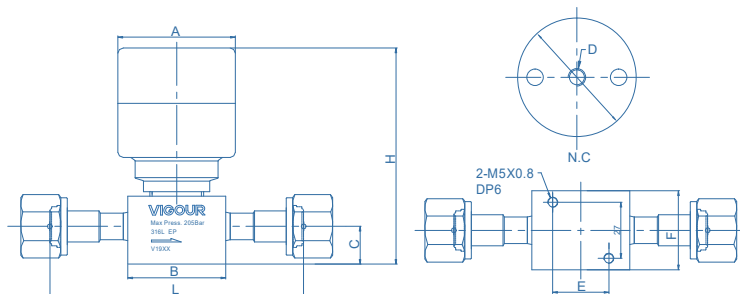
1/4 pneumatic actuator N.O (VFS female)



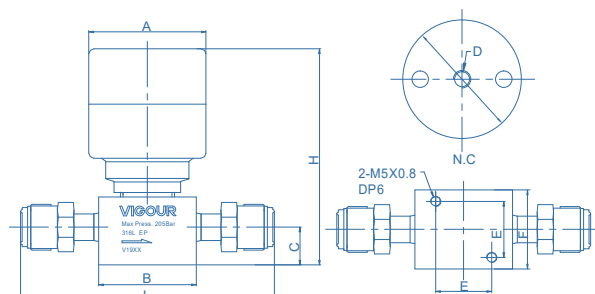
Diaphragm Valves

VDV33UB Series

VIGOUR



1/2 pneumatic actuator N.C (VFS female)



3/8, 1/2 pneumatic actuator N.C (VFS male)

manual actuator

End Conections	Orifice (mm)	Dimensions (mm)						
		A	B	C	E	F	L	H
1/4" VFS male	4.4	Φ54	28	11.1	18	28	58.7	74
1/4" VFS female	4.4	Φ54	28	11.1	18	28	71.6	74
3/8" VFS male	7	Φ54	47.1	18.2	27	38	123.2	86
1/2" VFS male	7	Φ54	47.1	18.2	27	38	123.2	86
1/2" VFS female	7	Φ54	47.1	18.2	27	38	123.2	86

pneumatic actuator, normally opened / normally closed

End Conections	Actuator	Orifice (mm)	Dimensions (mm)						
			A	B	C	D	E	F	H
1/4" VFS male	N.C	4.4	Φ56.5	28	11.1	M5x0.8	18	28	58.7
1/4" VFS male	N.O	4.4	Φ58	28	11.1	M5x0.8	18	28	58.7
1/4" VFS female	N.C	4.4	Φ56.5	28	11.1	M5x0.8	18	28	71.6
1/4" VFS female	N.O	4.4	Φ58	28	11.1	M5x0.8	18	28	71.6
3/8" VFS male	N.C	7	Φ56.5	47.1	18.2	M5x0.8	27	38	123.2
1/2" VFS male	N.C	7	Φ56.5	47.1	18.2	M5x0.8	27	38	123.2
1/2" VFS female	N.C	7	Φ56.5	47.1	18.2	M5x0.8	27	38	123.2

1/4", 3/8", 1/2" VFS fitting dimensions for reference, other connections please contact factory.

Ordering Information

VDV33UBS - 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

* Normally opened available with connetion size 1/4 thch.

Flow Circuit Diagram

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

Valve Seat Option

None: PCTFE (standard)
VS: Vespel®
PA: PFA

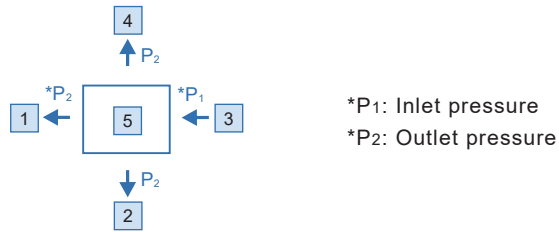
End Connection

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

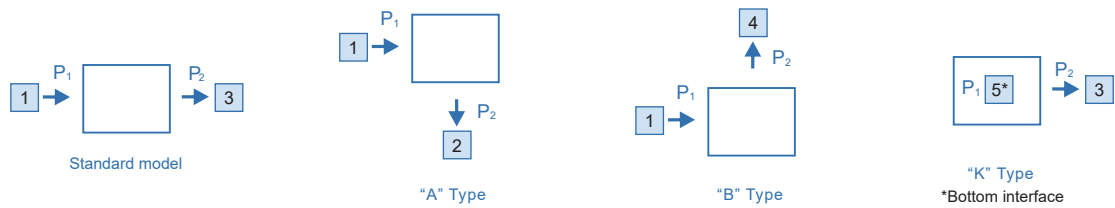
* Other connection standard, consult factory



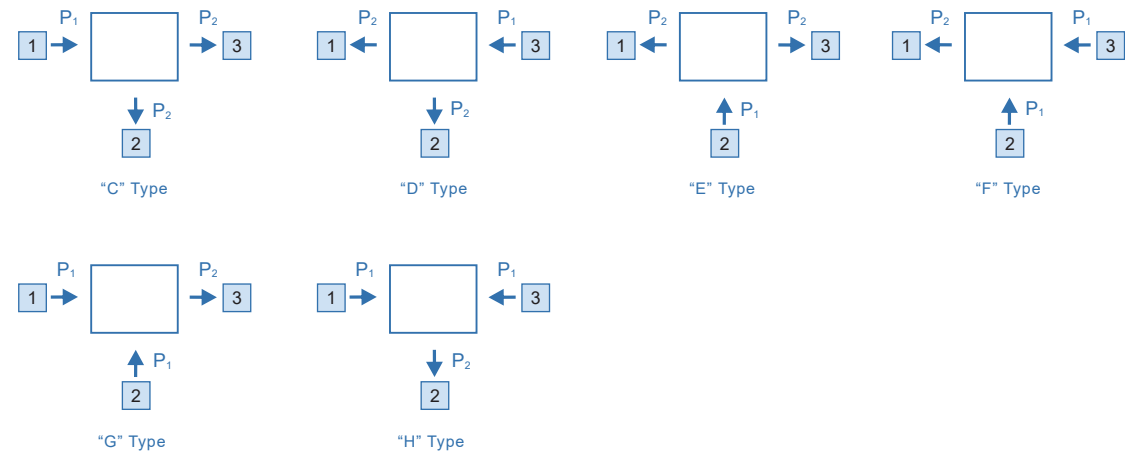
Ports Diagrammatic Drawing:



Two ports flow circuit diagram:



Three ports flow circuit diagram:



Four ports flow circuit diagram:

