Diaphragm Valves
VDV33UA Series

VIGOUR

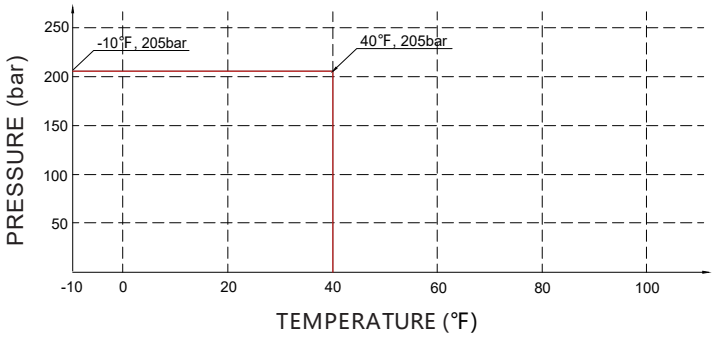
Product Feature

- Suitable for high purity, flammable or toxic gases
- Direct diaphragm construction with superior sealing prerformance, remarkable durability, compactness and particle and dead-space-free performance
- Valve open and closed opsition is easily visible at a glance
- Excellent gas displacement characteristics
- Standard seat material is PCTFE, Ployimede/PFA is option

1/4 Type

1/4 Type

Temperature / Pressure Rating



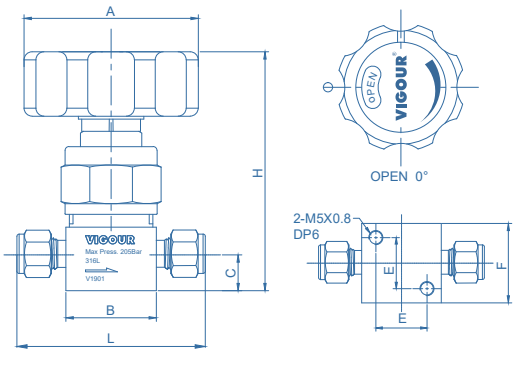
1/2 Type

1/2 Type

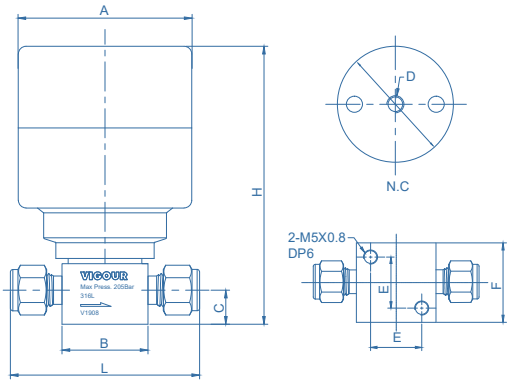
Technical Data

Max. Working Pressure:	3000 psig (206 bar)
Pneumatic Operating Pressure:	58~87psig (4-6bar)
Max. Working Temp.:	14°F ~ 104°F (-10°C ~ 40°C)
Materials	
Body:	316L
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 (actuator not included)

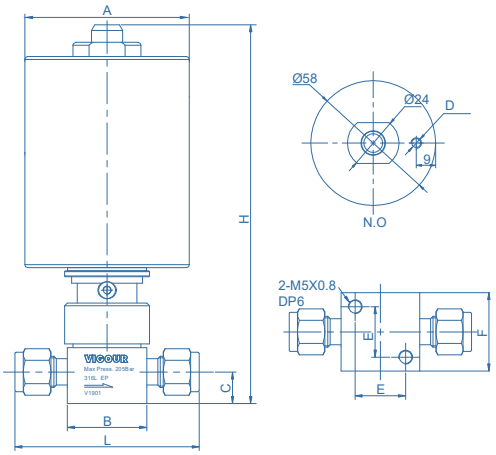
Dimensions (mm)



1/4, 3/8, 1/2 manual actuator



1/4, 3/8, 1/2 pneumatic actuator (N.C)



1/4 pneumatic actuator (N.O)

manual actuator

End Comections	Orifice (mm)	Dimensions (mm)						
		A	B	C	E	F	L	H
1/4" Tube Fitting	4.4	Φ54	28	11.1	18	28	65	74
3/8" Tube Fitting	7	Φ54	42	18.2	27	38	84.8	86
1/2" Tube Fitting	7	Φ54	42	18.2	27	38	89.6	86

pneumatic actuator, normally opened / normally closed

End Comections	Actuator	Orifice (mm)	Dimensions (mm)							
			A	B	C	D	E	F	L	H
1/4" Tube Fitting	N.C	4.4	Φ56.5	28	11.1	M5x0.8	18	28	65	90.5
1/4" Tube Fitting	N.O	4.4	Φ58	28	11.1	M5x0.8	18	28	65	134
3/8" Tube Fitting	N.C	7	Φ56.5	42	18.2	RC 1/8	27	38	84.8	105
1/2" Tube Fitting	N.C	7	Φ56.5	42	18.2	M5x0.8	27	38	89.6	105

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

Ordering Information

VDV33UAS - M - 04 - 04 - PA

Materials
S: 316L

Actuator
M: manual actuator
PO: pneumatic actuator,normally opened *
PC: pneumatic actuator,normally closed

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

Valve Seat Option
None: PCTFE (standard)
PA: PFA
VS: Vespel®

End Connection
F4: 1/4" NPT(F)
04: 1/4" tube fitting
06: 3/8" tube fitting
08: 1/2" tube fitting

* Other connection standard,consult factory