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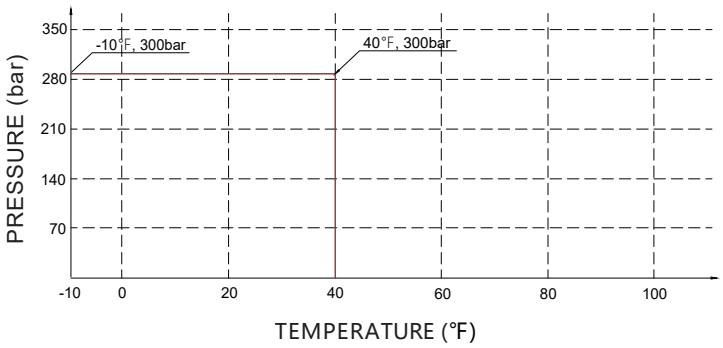
Diaphragm Valves
VDV31UA Series

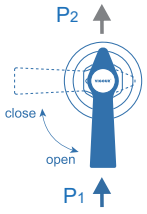
Product Feature

- Diaphragm valve
- Stainless steel 316L body for corrosive gases
- Inlet pressure max 300 bar
- Left or Right lever direction for Shutoff
- Wide range of inlets and outlets
- Metal-to-metal seal to atmosphere

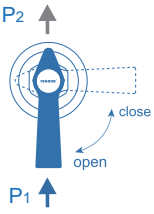
Temperature / Pressure Rating



Schematic Drawing



right lever for shutoff



left lever for shutoff

Technical Data

Max. Working Pressure:	4500 psig (300 bar)
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:	Cv=0.1
Orifice:	Φ2.7mm
Weight:	approx. 0.25kg

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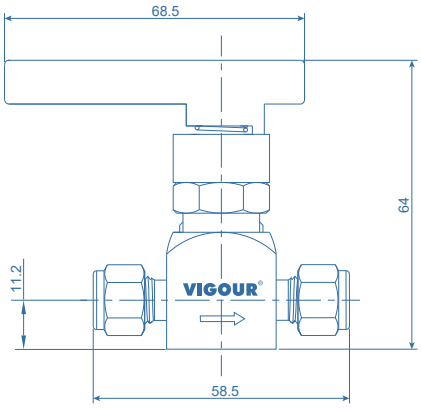
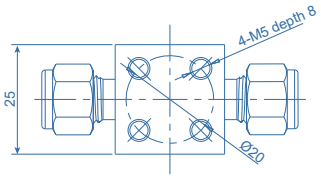
Diaphragm Valves
VDV31UA Series

Dimensions (mm)





Ordering Information

VDV31UAS - 04 - 04 - L

Materials
S: 316L

Inlets / Outlets
02: 1/8” tube fitting
04: 1/4” tube fitting
6M: 6mm tube fitting
8M: 8mm tube fitting

Lever
None: right lever for shutoff
L: left lever for shutoff

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Diaphragm Valves
VDV32UA Series

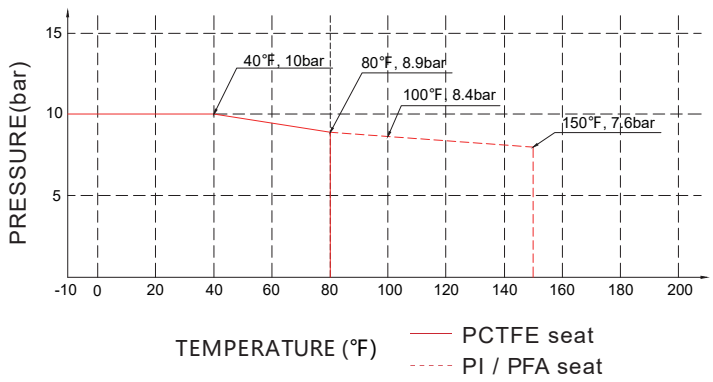
Product Feature

- Suitable for high purity, flammable or toxic fluid 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:	150 psig (10 bar)
Pneumatic Operating Pressure:	58~87psig (4-6bar)
Max. Working Temp.:	14°F ~ 176°F (-10°C ~ 80°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=0.3 3/8”1/2”Cv=0.65
Weight:	approx. 0.27kg (actuator not included)

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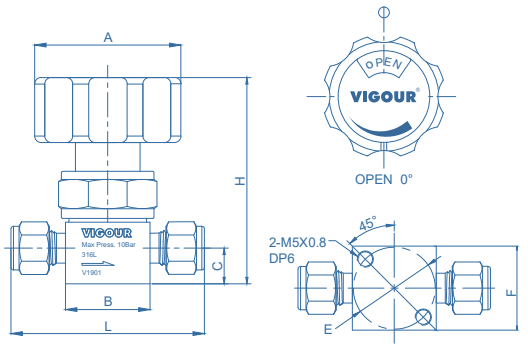
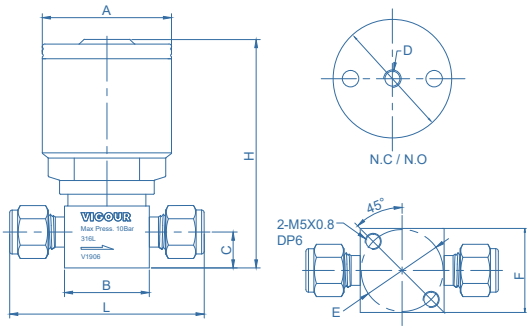
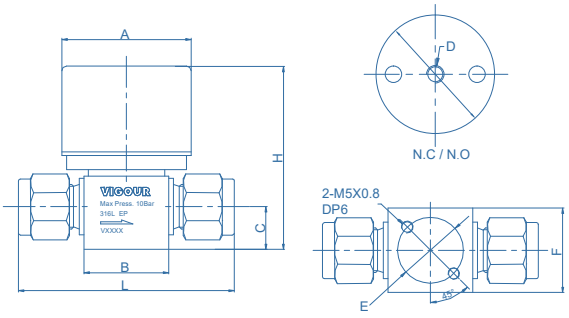
Dimensions (mm)



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



1/4 pneumatic actuator



3/8, 1/2 pneumatic actuator

manual actuator

End Comections	Orifice (mm)	Dimensions (mm)						
		A	B	C	E	F	L	H
1/4" Tube Fitting	4.4	Φ45	26	11	Φ25.4	26	60	64
3/8" Tube Fitting	7	Φ45	36	18.2	Φ28	36	78.8	78
1/2" Tube Fitting	7	Φ45	36	18.2	Φ28	36	83.6	78

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 / N.O	4.4	Φ39.6	26	11	M5x0.8	Φ25.4	26	60	70
3/8" Tube Fitting	N.C / N.O	7	Φ55	36	18.2	RC 1/8	Φ28	36	78.8	78
1/2" Tube Fitting	N.C / N.O	7	Φ55	36	18.2	RC 1/8	Φ28	36	83.6	78

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

Ordering information

VDV32UAS - M - 04 - 04 - PA

Materials
S: 316L

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

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

End Connection
04: 1/4" tube fitting
06: 3/8" tube fitting
08: 1/2" tube fitting

* Other connection standard,consult factory

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Diaphragm Valves
VDV33UA Series

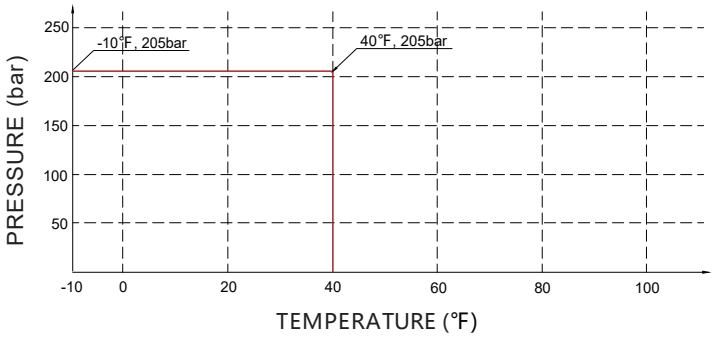
Product Feature

- 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, Ploymede/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)

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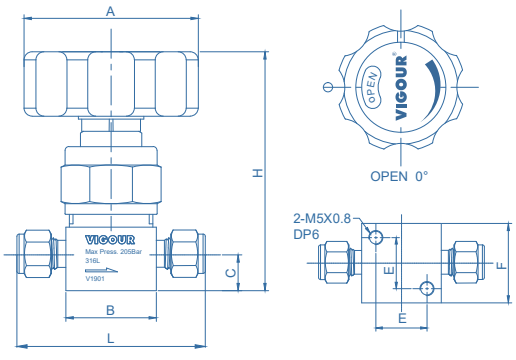
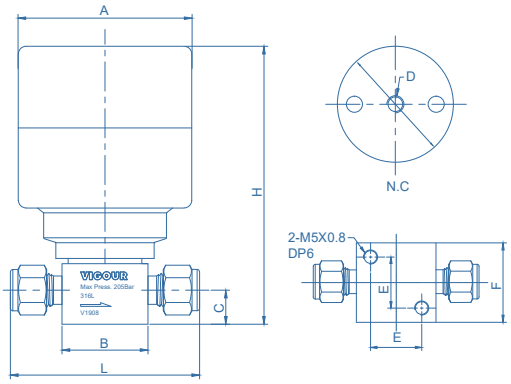
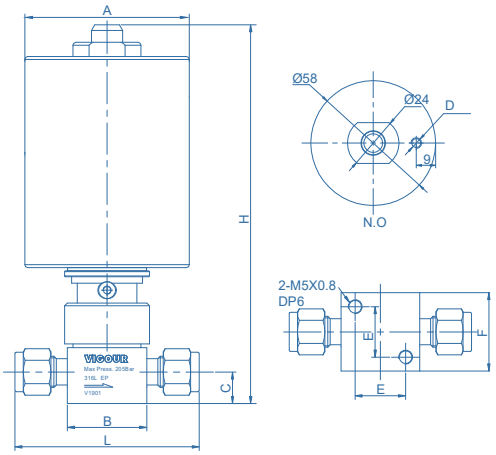
Dimensions (mm)



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

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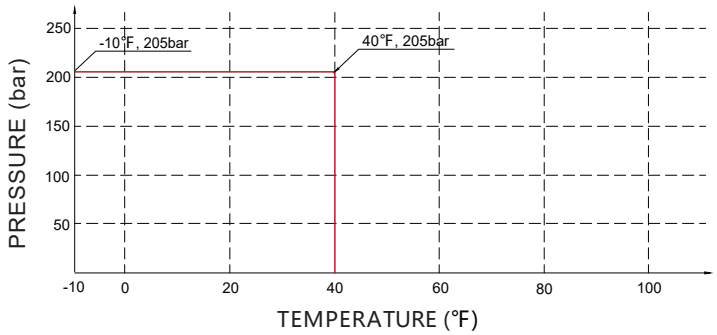
Diaphragm Valves
VDV31UB Series

Product Feature

- Quarter-turn ON/OFF, providing easy operation
- Handle shape provides visual indication of OPEN and CLOSE position
- Available on high and low-pressure models

Temperature / Pressure Rating



Technical Data

Max. Working Pressure:	3000 psig (206 bar)
Max. Working Temp.:	14°F ~ 104°F (-10°C ~ 40°C)
Materials	
Body:	316L secondary remelt
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:	Cv=0.1
Orifice:	Φ4.0mm
Weight:	approx. 0.25kg

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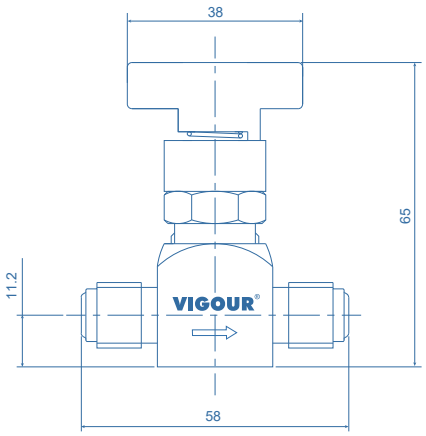
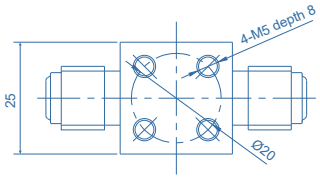
Diaphragm Valves
VDV31UB Series

Dimensions (mm)





Ordering Information

VDV31UBS - MV4 - MV4

Materials

S: 316L
SLV: 316L secondary remelt

End Connection

MV4: 1/4" VFS male

* Other connection standard,consult factory

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Diaphragm Valves
VDV32UB Series

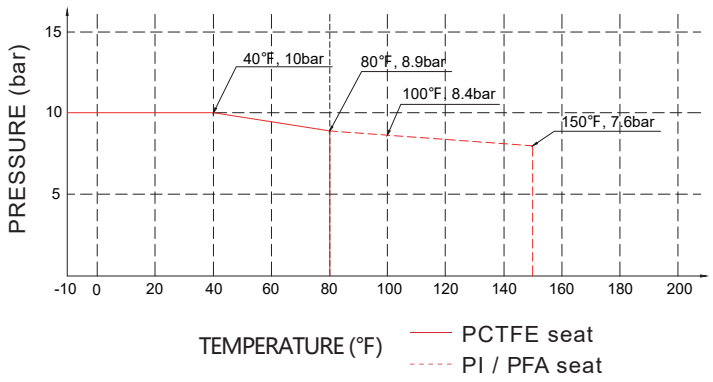
Product Feature

- Suitable for ultra pure, flammable or toxic fluid lines in semiconductor manufacturing equipment and facilities
- 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
- EP treatment is standard for all wetted sufaces
- Standard seat material is PCTFE, Polyimide/PFA is option

1/4 Type

1/4 Type

Temperature / Pressure Rating



1/2 Type

1/2 Type

Technical Data

Max. Working Pressure:	150 psig (10 bar)
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 (actuator not included)

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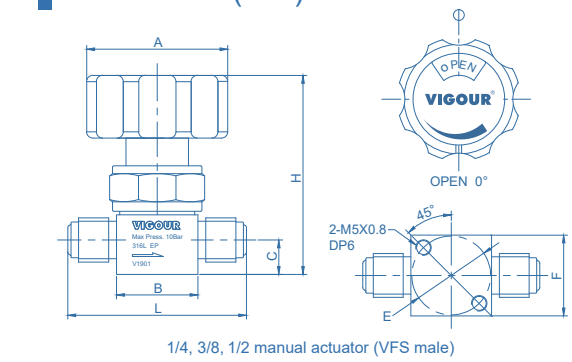
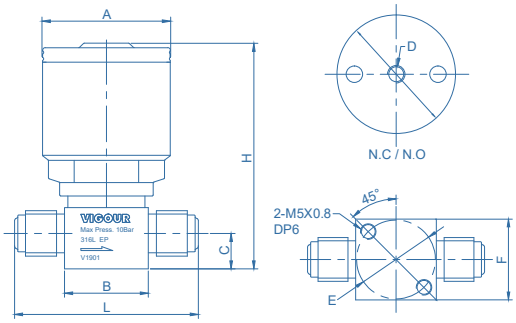
Diaphragm Valves
VDV32UB Series

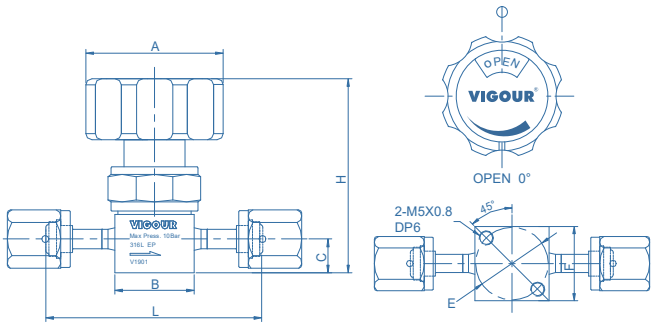
Dimensions (mm)



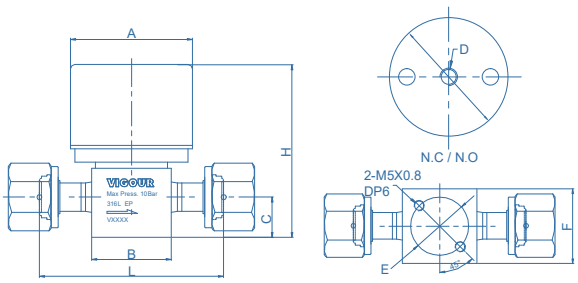
1/4, 3/8, 1/2 manual actuator (VFS male)



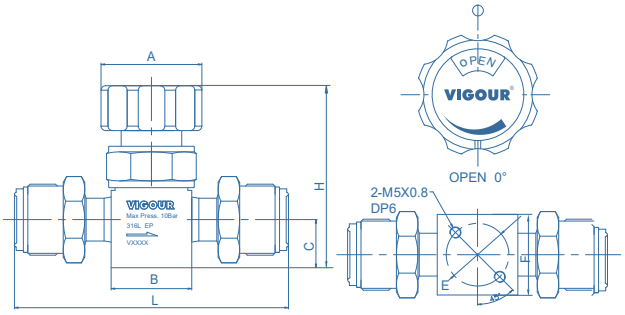
1/4 pneumatic actuator (VFS male)



1/4, 1/2, 3/4 manual actuator (VFS female)



1/2 pneumatic actuator (VFS female)



3/4 manual actuator (VFS male)

manual actuator

End Comections	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
3/4" VFS male	7	Φ45	36	21.5	Φ28	36	122.3	82
3/4" VFS female	7	Φ45	36	21.5	Φ28	36	106.3	82

pneumatic actuator, normally opened / normally closed

End Comections	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

VDV32UBS - 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, please visit the attached table P54: flow circuit diagram.

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
MV12: 3/4" VFS male

* Other connection standard,consult factory

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Diaphragm Valves
VDV33UB Series

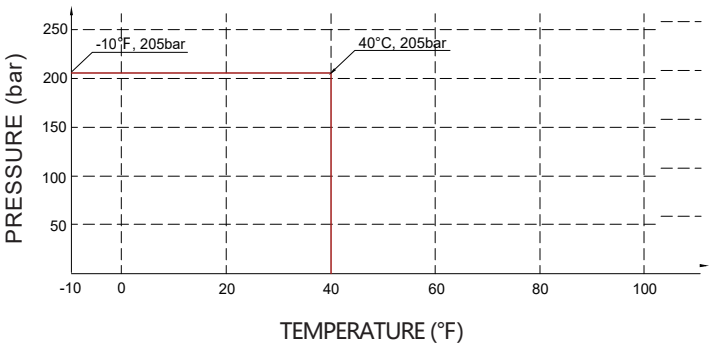
Product Feature

- Suitable for ultra pure, flammable or toxic fluid lines in semiconductor manufacturing equipment and facilities
- 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
- EP treatment is standard for all wetted sufaces
- Standard seat material is PCTFE, Polyimide/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)
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 (actuator not included)

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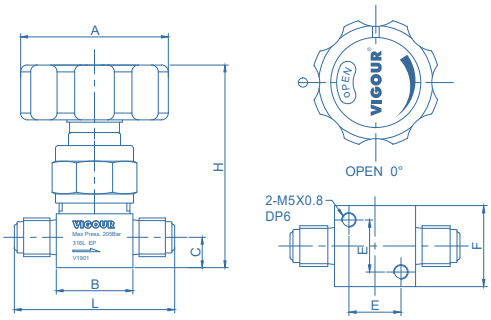
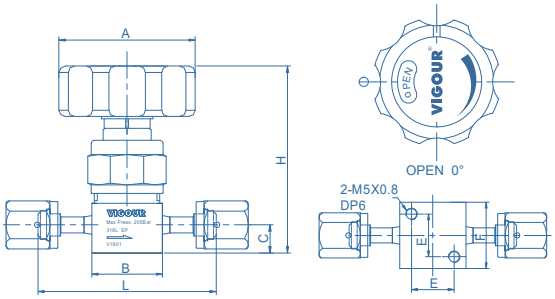
Diaphragm Valves
VDV33UB Series

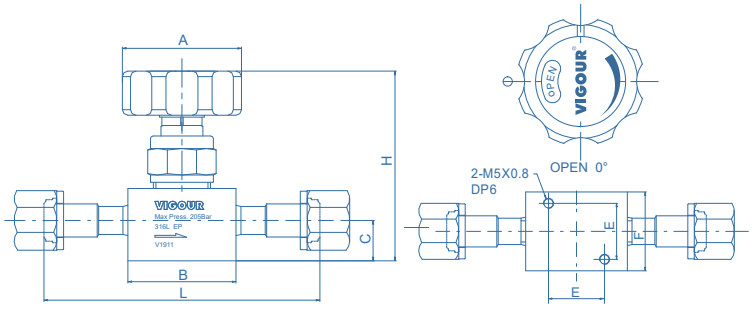
Dimensions (mm)



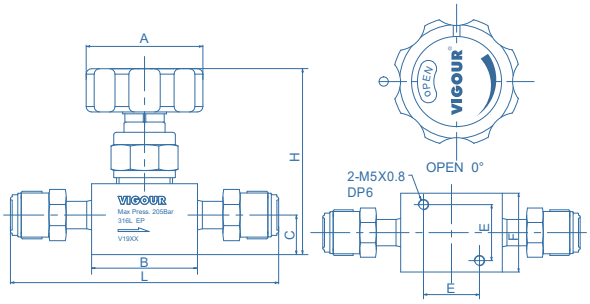
1/4 manual actuator (VFS male)



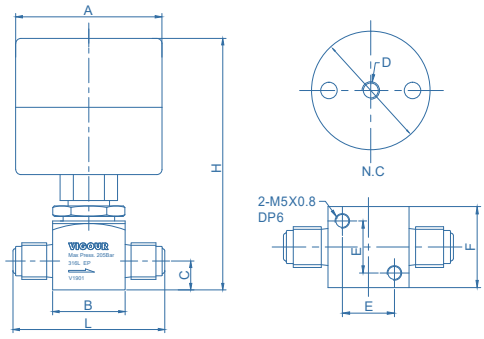
1/4 manual actuator (VFS female)



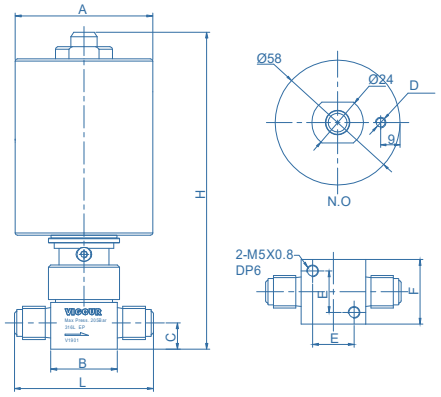
1/2 manual actuator (VFS female)



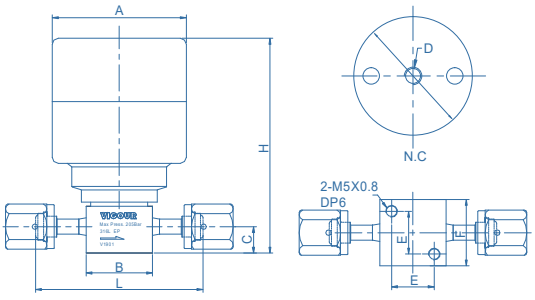
3/8, 1/2 manual actuator (VFS male)



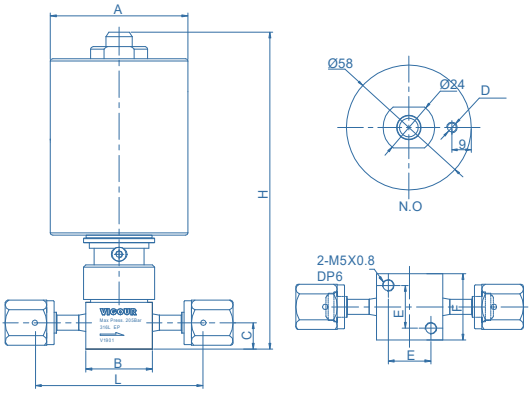
1/4 pneumatic actuator N.C (VFS male)



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



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



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

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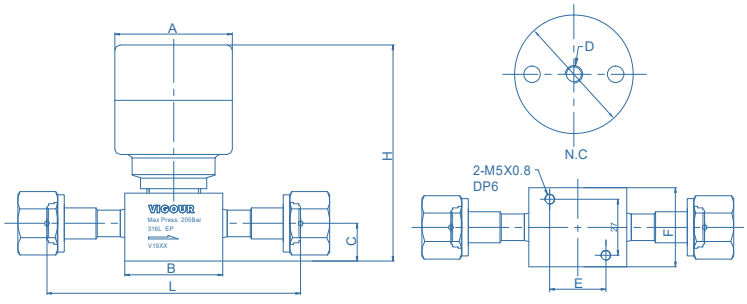
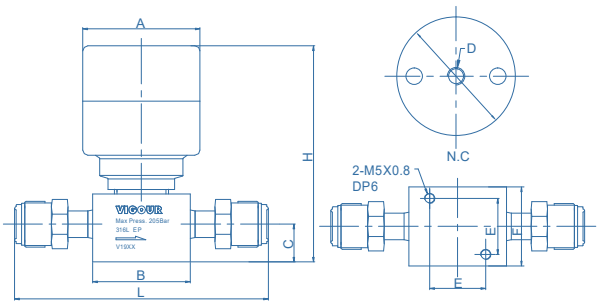
Diaphragm Valves
VDV33UB Series



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



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

manual actuator

End Comections	Orifice (mm)	Dimensions (mm)						
		A	B	C	E	F	L	H
1/4" VFS male	4.4	Φ54	28	11.1	18	28	58.6	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 Comections	Actuator	Orifice (mm)	Dimensions (mm)							
			A	B	C	D	E	F	L	H
1/4" VFS male	N.C	4.4	Φ56.5	28	11.1	M5x0.8	18	28	58.6	90.5
1/4" VFS male	N.O	4.4	Φ58	28	11.1	M5x0.8	18	28	58.6	134
1/4" VFS female	N.C	4.4	Φ56.5	28	11.1	M5x0.8	18	28	71.6	90.5
1/4" VFS female	N.O	4.4	Φ58	28	11.1	M5x0.8	18	28	71.6	134
3/8" VFS male	N.C	7	Φ56.5	47.1	18.2	M5x0.8	27	38	123.2	105
1/2" VFS male	N.C	7	Φ56.5	47.1	18.2	M5x0.8	27	38	123.2	105
1/2" VFS female	N.C	7	Φ56.5	47.1	18.2	M5x0.8	27	38	123.2	105

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, please visit the attached table P54: flow circuit diagram.

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

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Diaphragm Valves
VDV52UB Series

Product Feature

- Suitable for ultra pure, flammable or toxic fluid lines in semiconductor manufacturing equipment and facilities
- 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
- EP treatment is standard for all wetted sufaces
- Standard seat material is PCTFE, Polyimide/PFA is option

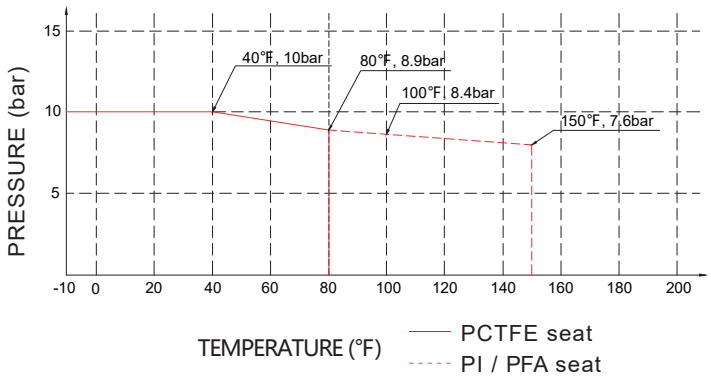
1/4 Type

1/4 Type

1/2 Type

1/2 Type

Temperature / Pressure Rating



Technical Data

Max. Working Pressure:	300 psig (20 bar)
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 (actuator not included)

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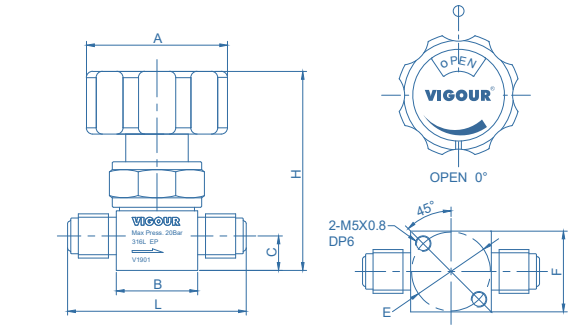
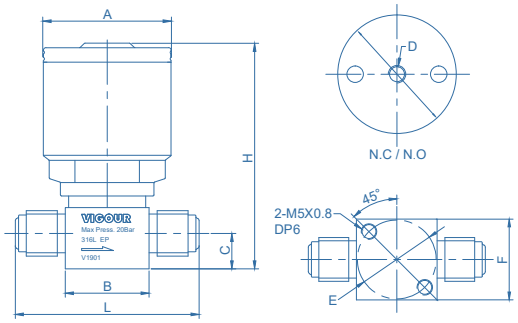
Diaphragm Valves
VDV52UB Series

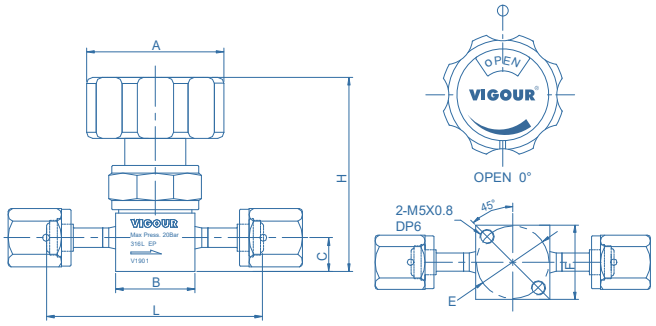
Dimensions (mm)



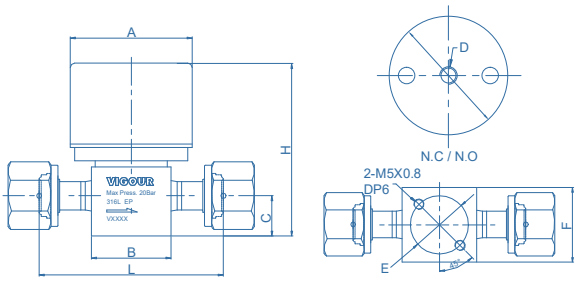
1/4, 3/8, 1/2 manual actuator (VFS male)



1/4 pneumatic actuator (VFS male)



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



1/2 pneumatic actuator (VFS female)

manual actuator

End Comections	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 Comections	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, please visit the attached table P54: flow circuit diagram.

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

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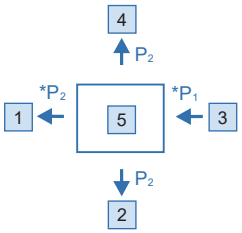
Diaphragm Valves
Flow Circuit Diagram

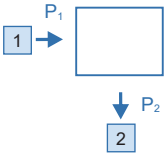
Ports Diagrammatic Drawing:



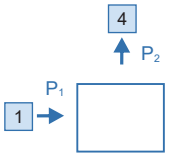
*P1: Inlet pressure
*P2: Outlet pressure

Two ports flow circuit diagram:

Standard model



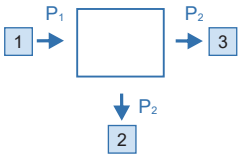
"A" Type



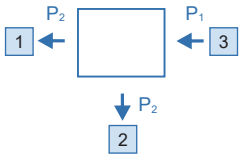
"B" Type

"K" Type
*Bottom interface

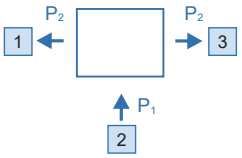
Three ports flow circuit diagram:



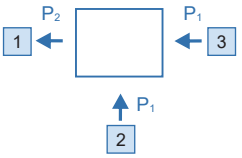
"C" Type



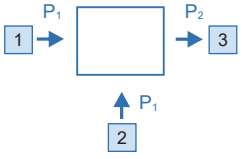
"D" Type



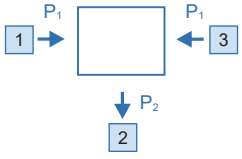
"E" Type



"F" Type

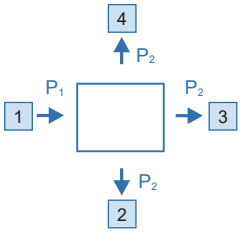


"G" Type

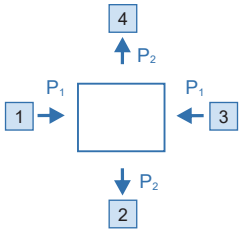


"H" Type

Four ports flow circuit diagram:



"I" Type



"J" Type

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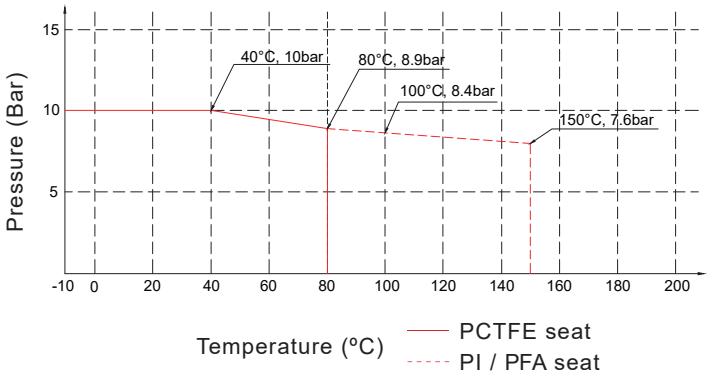
Diaphragm Valves
VDV22UB Series

Product Feature

- Suitable for ultra pure, flammable or toxic fluid lines in semiconductor manufacturing equipment and facilities
- 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
- EP treatment is standard for all wetted sufaces
- Standard seat material is PCTFE, Polyimide/PFA is option

Temperature / Pressure Rating



Technical Data

Max. Working Pressure:	150 psig (10 bar)
Pneumatic Operating Pressure:	58~87psig (4-6bar)
Max. Working Temp.:	14ºF ~ 176ºF (-10ºC ~ 80ºC)
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 1/2” Cv=0.65
Weight:	approx. 0.27kg (actuator not included)

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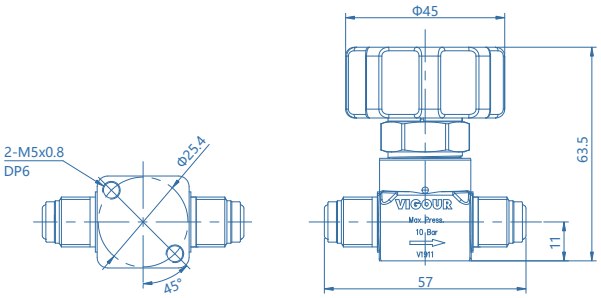
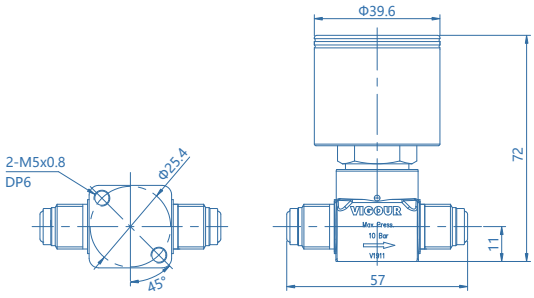
Diaphragm Valves
VDV22UB Series

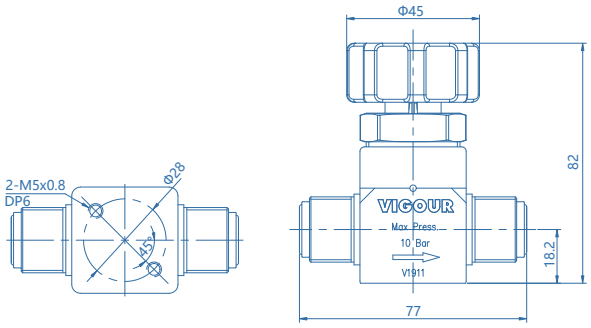
Dimensions (mm)



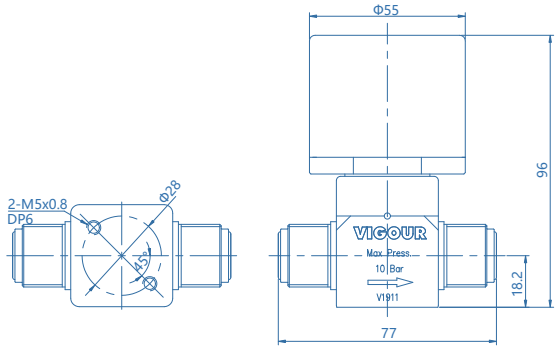
1/4 manual actuator (VFS fitting male)



1/4 pneumatic actuator (VFS fitting male)



1/2 manual actuator (VFS fitting male)



1/2 pneumatic actuator (VFS fitting male)

Ordering information

VDV22UBS - M - MV4 - MV4 - PA

Materials
- S: 316L
- SLV: 316L secondary remelt

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

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

End Connection
- MV4: 1/4" VFS fitting male
- MV8: 1/2" VFS fitting male

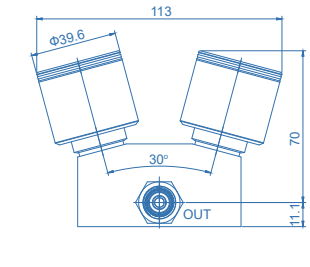
* Other connection standard,consult factory

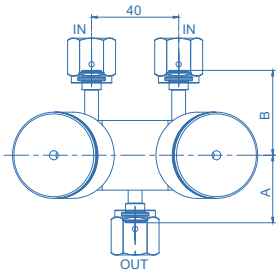
Low-pressure Diaphragm Valve Manifold
VDV36UB Series

Product Feature

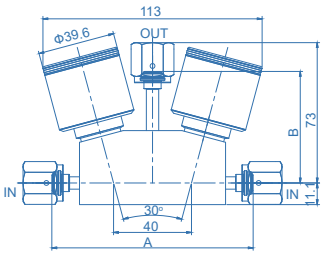
- Excellent degassing characteristics is achieved through minimized flow paths by combining 2 of VDV32、VDV33 diaphgram valves together in one valve body.
- Fewer welds over standard valve alignments
- Reduces space requirements
- Compact tubing arrangement
- Dead space free configuration

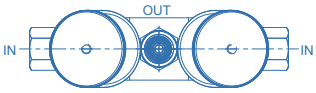
Dimensions (mm)





End Connections	Dimensions (mm)	
	A	B
VFS Female	31	39
VFS Male	46.3	46.3





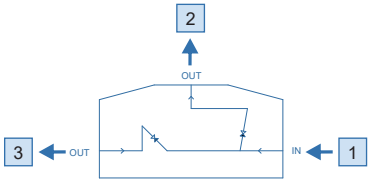
End Connections	Dimensions (mm)	
	A	B
VFS Female	103.4	57.3
VFS Male	139.6	70

Technical Data

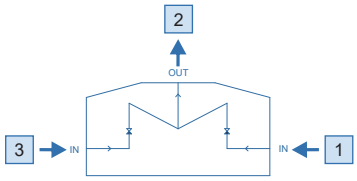
Max. Working Pressure:	150 psig (10 bar) 3000 psig (206bar) optional
Pneumatic Operating Pressure:	58~87psig (4-6bar)
Max. Working Temp.:	14°F ~ 104°F (-10°C ~ 40°C)
Surface finish:	10μin. Ra
Materials	
Body:	see ordering info
Diaphragm:	Elgiloy®
Seat packing:	PCTFE
Handle:	AL
Internal Leakage Allowance:	$1x10^{-9}$ mbar l/s He
External Leakage Allowance:	$1x10^{-9}$ mbar l/s He
Flow capacity:	Cv=0.3 (Low pressure) Cv=0.1 (High pressure)
Weight:	approx. 0.27kg (actuator not included)

Low-pressure Diaphragm Valve Manifold
VDV36UB Series

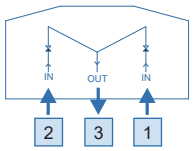
Ordering information



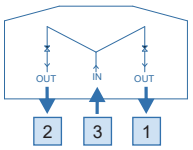
A Type



B Type



C Type



D Type

Inlet/Outlet Connecion

MV4: 1/4" VFS male	MV6: 1/2" VFS male 3/8" O.D.	MV8: 1/2" VFS male
FV4: 1/4" VFS female	FV6: 1/2" VFS female 3/8" O.D.	FV8: 1/2" VFS female
TW4: 1/4" tube weld	TW6: 3/8" tube weld	TW8: 1/2" tube weld

* Other connection standard, consult factory.

Port Selection

VDV36UB S - A - H - M - PC - 1 - 2 - 3

Materials
- S: 316L EP
- SLV: 316L secondary remelt

Flow Rate
- A: A Type
- B: B Type
- C: C Type
- D: D Type

Working Pressure
- None: 150 psig
- H: 3000 psig

Valve2 Actuator*
- M: manual actuator
- PO: pneumatic actuator,normally opened
- PC: pneumatic actuator,normally closed

* When the actuatos are the some there will be one symbol.

Valve1 Actuator
- M: manual actuator
- PO: pneumatic actuator,normally opened
- PC: pneumatic actuator,normally closed

Ordering Example

Example: VDV36UBS - A - M - PC - FV4 - FV4 - FV4

1 - 2 - 3

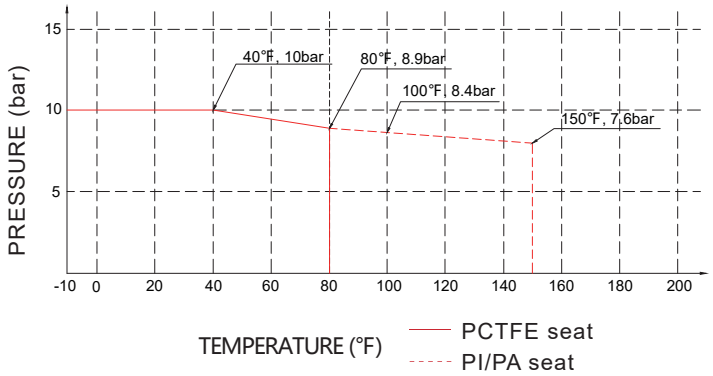
Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

Diaphragm Valves
VDV39 Series

Product Feature

- Suitable for ultra pure, flammable or toxic fluid lines in semiconductor manufacturing equipment and facilities
- 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
- EP treatment is standard for all wetted sufaces
- Standard seat material is PCTFE, Polyimide is option

Temperature / Pressure Rating



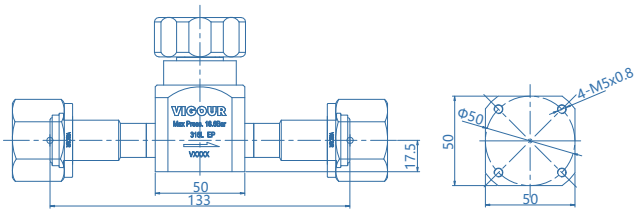
Technical Data

Max. Working Pressure:	270 psig (18.6 bar)
Max. Working Temp.:	14°F ~ 104°F (-10°C ~ 40°C)
Surface finish:	10μin. Ra
Materials	
Body:	see ordering info
Diaphragm:	Elgiloy® (316L optional)
Seat packing:	PCTFE (PFA / VESPEL optional)
Handle:	AL
Internal Leakage Allowance:	$1x10^{-9}$ mbar l/s He
External Leakage Allowance:	$1x10^{-9}$ mbar l/s He
Flow capacity:	Cv=2.8
Weight:	approx. 1.0kg (actuator not included)

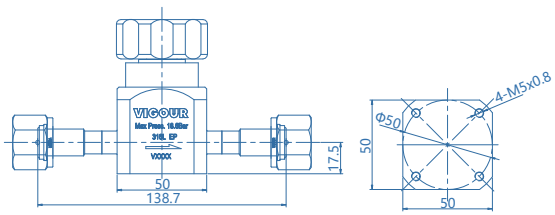
Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

Diaphragm Valves
VDV39 Series

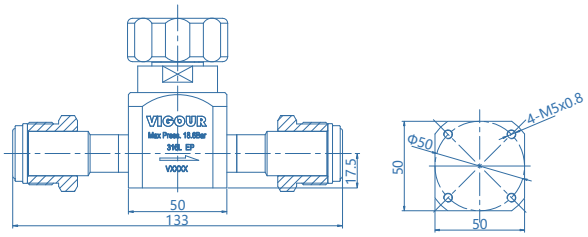
Dimensions (mm)



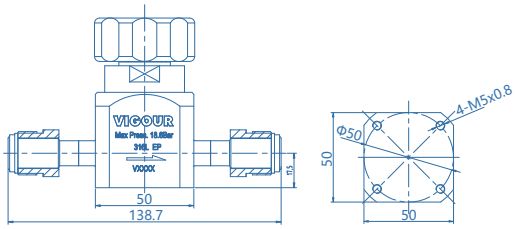
3/4 manual actuator (VFS female)



1/2 manual actuator (VFS female)



3/4 manual actuator (VFS male)



1/2 manual actuator (VFS male)

Ordering Information

VDV39S - M - MV8 - MV8 - PA

Materials
S: 316L
SLV: 316L secondary remelt

Actuator
M: manual actuator

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

End Connection
FV12: 3/4" VFS (F)
MV12: 3/4" VFS (M)
TW12: 3/4" tube weld
FV8: 1/2" VFS (F)
MV8: 1/2" VFS (M)
TW8: 1/2" tube weld

* Other connection standard,consult factory