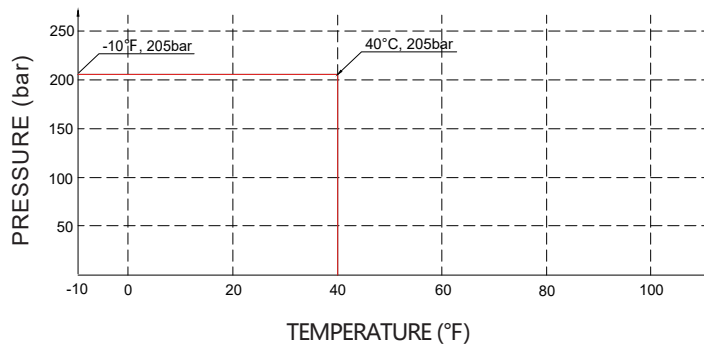


Product Feature

- 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 free performance
- 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 is option

Temperature / Pressure Rating



1/2" pneumatic actuator



1/2" manual actuator



1/2" Right-angle handle



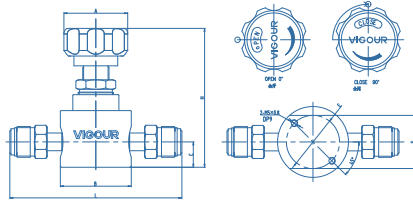
3/4" manual actuator (Lockable)

Technical Data

Max. Working Pressure:	3000 psig (200bar) / 1300 psig (90bar)
Actuation Pressure:	70~110 psig (5~8bar)
Max. Working Temp.:	-40°F ~ 150°F (-40°C ~ 65°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:	manual actuator Cv=1.0 pneumatic actuator Cv=1.0 (90bar) / Cv=0.7 (206 bar)
Weight:	approx. 1.36kg (depending on connections or options)

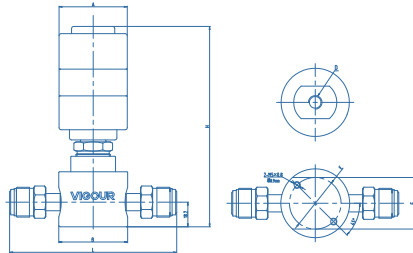


Dimensions (mm)



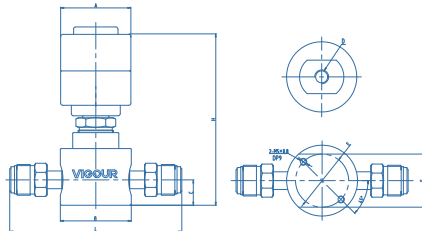
manual actuator (90 bar)

End Connections	Orifice (mm)	Dimensions (mm)							
		A	B	C	E	F	L	H	
1/4" VFS male	4.4	Φ47.8	50.8	18.2	Φ38.1	38	101.6	100	
1/4" VFS female	4.4	Φ47.8	50.8	18.2	Φ38.1	38	101.6	100	
1/2" VFS male	7	Φ47.8	50.8	18.2	Φ38.1	38	123.2	100	
1/2" VFS female	7	Φ47.8	50.8	18.2	Φ38.1	38	123.2	100	
3/4" VFS male	7	Φ47.8	50.8	18.2	Φ38.1	38	177.8	100	
3/4" VFS female	7	Φ47.8	50.8	18.2	Φ38.1	38	177.8	100	



pneumatic actuator (normally closed 90 bar)

End Connections	Orifice (mm)	Dimensions (mm)							
		A	B	C	D	E	F	L	H
1/4" VFS male	4.4	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	101.6	148
1/4" VFS female	4.4	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	101.6	148
1/2" VFS male	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	123.2	148
1/2" VFS female	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	123.2	148
3/4" VFS male	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	177.8	148
3/4" VFS female	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	177.8	148



pneumatic actuator (normally closed 206 bar)

End Connections	Orifice (mm)	Dimensions (mm)							
		A	B	C	D	E	F	L	H
1/4" VFS male	4.4	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	101.6	125
1/4" VFS female	4.4	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	101.6	125
1/2" VFS male	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	123.2	125
1/2" VFS female	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	123.2	125
3/4" VFS male	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	177.8	125
3/4" VFS female	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	177.8	125

Ordering Information

VDV38UBS - M - MV8 - MV8 - VS - H - L - P

Materials

S: 316L

Actuator

M: manual actuator

PC: pneumatic actuator (normally closed)

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

FV12: 3/4" VFS female

TW12: 3/4" tube weld

* Other connection standard, consult factory

Valve Seat Option

None: PCTFE (standard)

VS: VespeI®

Process Specification

None: VS001B

P: VS001A

* For details, please refer to the appendix..

Optional

None: Circular handle

LO: Round Knob

Pull, then turn to open

lock out / tag out

L: Right-angle handle

Work Pressure

H: 3000 psig *

M: 1300 psig

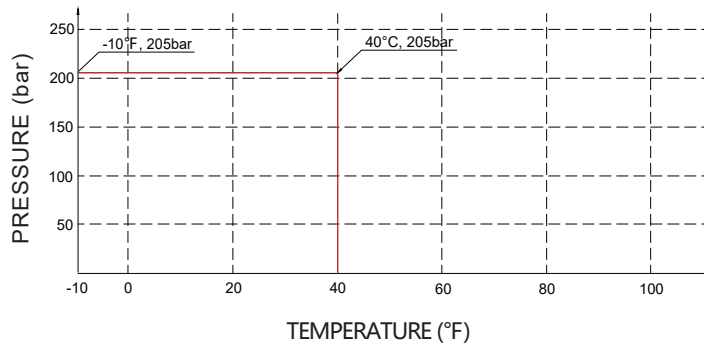
*The pressure for the 3/4" connection is 1650 psig.



Product Feature

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- Direct diaphragm construction with superior sealing performance, remarkable durability, compactness and particle free performance
- 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 is option

Temperature / Pressure Rating



1/2" pneumatic actuator



1/2" manual actuator



1/2" Right-angle handle



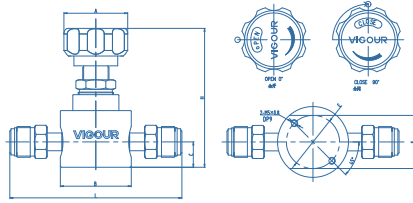
3/4" manual actuator (Lockable)

Technical Data

Max. Working Pressure:	3000 psig (200bar) / 1300 psig (90bar)
Actuation Pressure:	70~110 psig (5~8bar)
Max. Working Temp.:	-40°F ~ 150°F (-40°C ~ 65°C)
Surface finish:	7µin. 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:	manual actuator Cv=1.0 pneumatic actuator Cv=1.0 (90bar) / Cv=0.7 (206 bar)
Weight:	approx. 1.36kg (depending on connections or options)

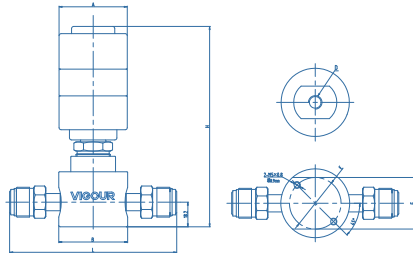


Dimensions (mm)



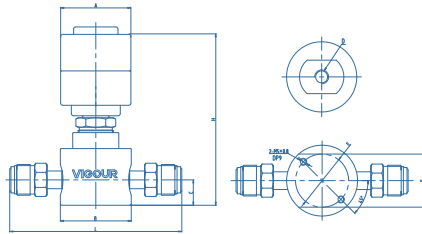
manual actuator (90 bar)

End Connections	Orifice (mm)	Dimensions (mm)							
		A	B	C	E	F	L	H	
1/4" VFS male	4.4	Φ47.8	50.8	18.2	Φ38.1	38	101.6	100	
1/4" VFS female	4.4	Φ47.8	50.8	18.2	Φ38.1	38	101.6	100	
1/2" VFS male	7	Φ47.8	50.8	18.2	Φ38.1	38	123.2	100	
1/2" VFS female	7	Φ47.8	50.8	18.2	Φ38.1	38	123.2	100	
3/4" VFS male	7	Φ47.8	50.8	18.2	Φ38.1	38	177.8	100	
3/4" VFS female	7	Φ47.8	50.8	18.2	Φ38.1	38	177.8	100	



pneumatic actuator (normally closed 90 bar)

End Connections	Orifice (mm)	Dimensions (mm)							
		A	B	C	D	E	F	L	H
1/4" VFS male	4.4	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	101.6	148
1/4" VFS female	4.4	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	101.6	148
1/2" VFS male	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	123.2	148
1/2" VFS female	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	123.2	148
3/4" VFS male	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	177.8	148
3/4" VFS female	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	177.8	148



pneumatic actuator (normally closed 206 bar)

End Connections	Orifice (mm)	Dimensions (mm)							
		A	B	C	D	E	F	L	H
1/4" VFS male	4.4	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	101.6	125
1/4" VFS female	4.4	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	101.6	125
1/2" VFS male	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	123.2	125
1/2" VFS female	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	123.2	125
3/4" VFS male	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	177.8	125
3/4" VFS female	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	177.8	125

Ordering Information

VDV38UCSLV - M - MV8 - MV8 - VS - H - L - P

Materials

SLV: 316L secondary remelt

Actuator

M: manual actuator
PC: pneumatic actuator (normally closed)

End Connection

MV4: 1/4" VFS male	MV8: 1/2" VFS male
FV4: 1/4" VFS female	FV8: 1/2" VFS female
TW4: 1/4" tube weld	TW8: 1/2" tube weld
MV6: 1/2" VFS male 3/8" O.D.	MV12: 3/4" VFS male
FV6: 1/2" VFS female 3/8" O.D.	FV12: 3/4" VFS female
TW6: 3/8" tube weld	TW12: 3/4" tube weld

* Other connection standard, consult factory

Valve Seat Option

None: PCTFE (standard)
VS: VespeI®

Process Specification

P: VS001A

* For details, please refer to the appendix..

Optional

None: Circular handle
LO: Round Knob
Pull, then turn to open
lock out / tag out
L: Right-angle handle

Work Pressure

H: 3000 psig *
M: 1300 psig

*The pressure for the 3/4" connection is 1650 psig.

