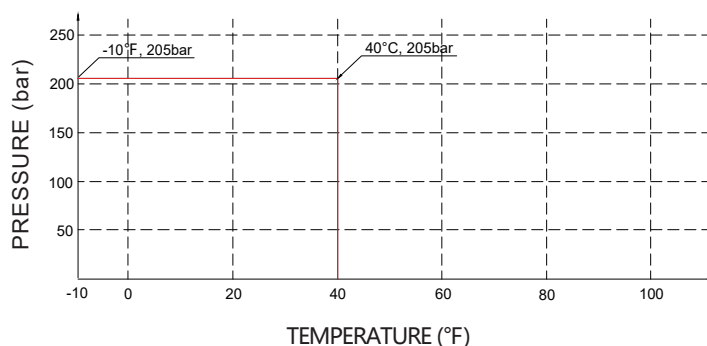


Product Feature

- 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



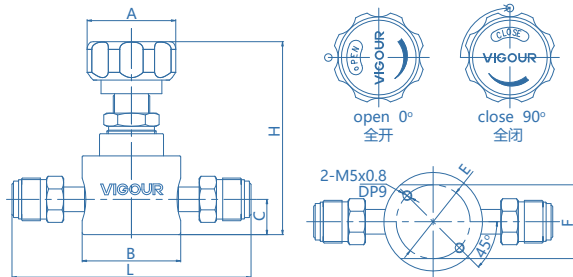
3/4" manual actuator (Lockable)

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)



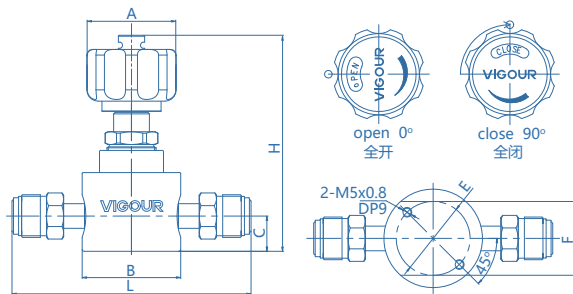
Dimensions (mm)



manual actuator (90 bar) VFS female

manual actuator (90 bar)

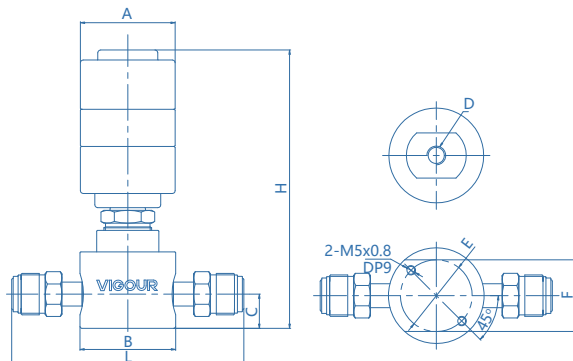
End Conections	Orifice (mm)	Dimensions (mm)						
		A	B	C	E	F	L	H
1/4" VFS male	4.4	Φ47.5	50.8	18.2	Φ38.1	38	101.6	100
1/4" VFS female	4.4	Φ47.5	50.8	18.2	Φ38.1	38	101.6	100
1/2" VFS male	7	Φ47.5	50.8	18.2	Φ38.1	38	123.2	100
1/2" VFS female	7	Φ47.5	50.8	18.2	Φ38.1	38	123.2	100
3/4" VFS male	7	Φ47.5	50.8	18.2	Φ38.1	38	177.8	100
3/4" VFS female	7	Φ47.5	50.8	18.2	Φ38.1	38	177.8	100
3/8" Tube weld	7	Φ47.5	50.8	18.2	Φ38.1	38	69.8	100
1/2" Tube weld	7	Φ47.5	50.8	18.2	Φ38.1	38	90.8	100
3/4" Tube weld	7	Φ47.5	50.8	18.2	Φ38.1	38	165.2	100



manual actuator (90 bar) VFS female Position Lock

manual actuator (90 bar) Position Lock

End Conections	Orifice (mm)	Dimensions (mm)						
		A	B	C	E	F	L	H
1/4" VFS male	4.4	Φ47.5	50.8	18.2	Φ38.1	38	101.6	100
1/4" VFS female	4.4	Φ47.5	50.8	18.2	Φ38.1	38	101.6	100
1/2" VFS male	7	Φ47.5	50.8	18.2	Φ38.1	38	123.2	100
1/2" VFS female	7	Φ47.5	50.8	18.2	Φ38.1	38	123.2	100
3/4" VFS male	7	Φ47.5	50.8	18.2	Φ38.1	38	177.8	100
3/4" VFS female	7	Φ47.5	50.8	18.2	Φ38.1	38	177.8	100
3/8" Tube weld	7	Φ47.5	50.8	18.2	Φ38.1	38	69.8	100
1/2" Tube weld	7	Φ47.5	50.8	18.2	Φ38.1	38	90.8	100
3/4" Tube weld	7	Φ47.5	50.8	18.2	Φ38.1	38	165.2	100



pneumatic actuator (90 bar) VFS female

pneumatic actuator (normally closed 90 bar)

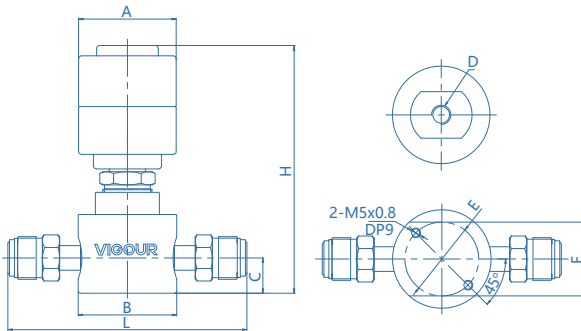
End Conections	Orifice (mm)	Dimensions (mm)						
		A	B	C	D	E	F	L
1/4" VFS male	4.4	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	101.6
1/4" VFS female	4.4	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	101.6
1/2" VFS male	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	123.2
1/2" VFS female	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	123.2
3/4" VFS male	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	177.8
3/4" VFS female	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	177.8
3/8" Tube weld	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	69.8
1/2" Tube weld	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	90.8
3/4" Tube weld	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	165.2



Diaphragm Valve VDV38UB Series

VIGOUR

Dimensions (mm)



pneumatic actuator (206 bar) VFS female

pneumatic actuator (normally closed 206 bar)

End Cornections	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
3/8" Tube weld	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	69.8	125
1/2" Tube weld	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	90.8	125
3/4" Tube weld	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	165.2	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

MV8: 1/2" VFS male

FV8: 1/2" VFS female

TW6: 3/8" tube weld

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®

Work Pressure

H: 3000 psig *

M: 1300 psig

*The pressure for the 3/4" connection is 2400 psig

Process Specification

None: VS001B

P: VS001A

* For details, please refer to the appendix

Optional

None: Circular handle

W: Round handwheel with sight window

LO: Round Knob Pull, then turn to open lock out / tag out

L: Right-angle handle

*Option W: 1300 psig max only

*Option LO: 1300 psig max only

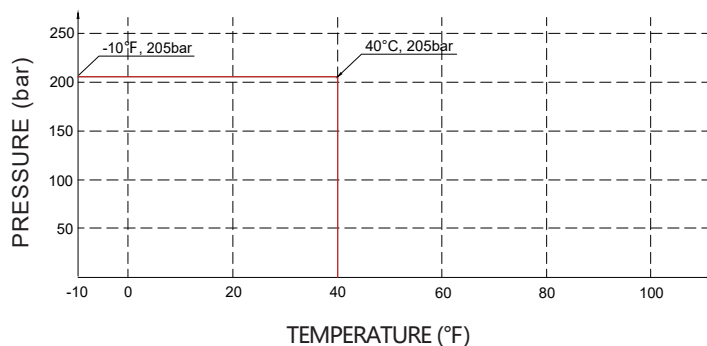
*Option L: 3000 psig max only



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

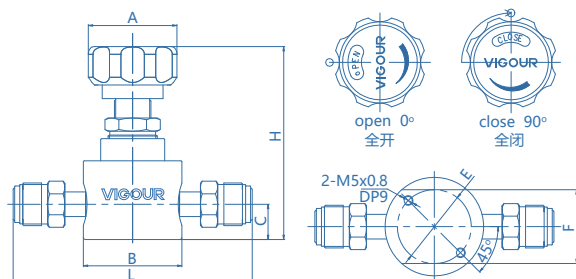
Max. Working Pressure:	3000 psig (200bar) / 1300 psig (90bar)
Actuation Pressure:	70~110 psig (5~8bar)
Max. Working Temp.:	-40°F ~ 150°F (-40°C ~ 65°C)
Surface finish:	7µin. Ra
Materials	
Body:	see ordering info
Diaphragm:	Elgiloy®
Seat packing:	PCTFE
Handle:	AL
Internal Leakage Allowance:	<1x10 ⁻⁹ mbar·l/s 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)



Diaphragm Valve VDV38UC Series

VIGOUR

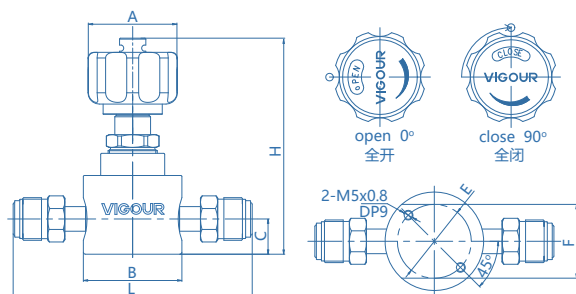
Dimensions (mm)



manual actuator (90 bar) VFS female

manual actuator (90 bar)

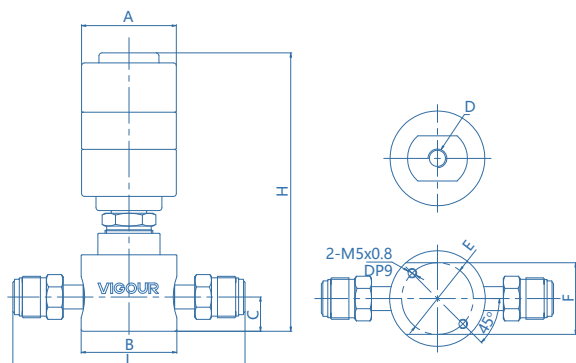
End Conections	Orifice (mm)	Dimensions (mm)						
		A	B	C	E	F	L	H
1/4" VFS male	4.4	Φ47.5	50.8	18.2	Φ38.1	38	101.6	100
1/4" VFS female	4.4	Φ47.5	50.8	18.2	Φ38.1	38	101.6	100
1/2" VFS male	7	Φ47.5	50.8	18.2	Φ38.1	38	123.2	100
1/2" VFS female	7	Φ47.5	50.8	18.2	Φ38.1	38	123.2	100
3/4" VFS male	7	Φ47.5	50.8	18.2	Φ38.1	38	177.8	100
3/4" VFS female	7	Φ47.5	50.8	18.2	Φ38.1	38	177.8	100
3/8" Tube weld	7	Φ47.5	50.8	18.2	Φ38.1	38	69.8	100
1/2" Tube weld	7	Φ47.5	50.8	18.2	Φ38.1	38	90.8	100
3/4" Tube weld	7	Φ47.5	50.8	18.2	Φ38.1	38	165.2	100



manual actuator (90 bar) VFS female Position Lock

manual actuator (90 bar) Position Lock

End Conections	Orifice (mm)	Dimensions (mm)						
		A	B	C	E	F	L	H
1/4" VFS male	4.4	Φ47.5	50.8	18.2	Φ38.1	38	101.6	100
1/4" VFS female	4.4	Φ47.5	50.8	18.2	Φ38.1	38	101.6	100
1/2" VFS male	7	Φ47.5	50.8	18.2	Φ38.1	38	123.2	100
1/2" VFS female	7	Φ47.5	50.8	18.2	Φ38.1	38	123.2	100
3/4" VFS male	7	Φ47.5	50.8	18.2	Φ38.1	38	177.8	100
3/4" VFS female	7	Φ47.5	50.8	18.2	Φ38.1	38	177.8	100
3/8" Tube weld	7	Φ47.5	50.8	18.2	Φ38.1	38	69.8	100
1/2" Tube weld	7	Φ47.5	50.8	18.2	Φ38.1	38	90.8	100
3/4" Tube weld	7	Φ47.5	50.8	18.2	Φ38.1	38	165.2	100



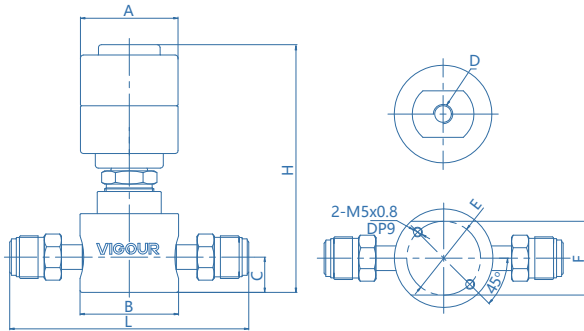
pneumatic actuator (90 bar) VFS female

pneumatic actuator (normally closed 90 bar)

End Conections	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
3/8" Tube weld	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	69.8	148
1/2" Tube weld	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	90.8	148
3/4" Tube weld	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	165.2	148



Dimensions (mm)



pneumatic actuator (206 bar) VFS female

pneumatic actuator (normally closed 206 bar)

End Conections	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
3/8" Tube weld	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	69.8	125
1/2" Tube weld	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	90.8	125
3/4" Tube weld	7	Φ50.3	50.8	18.2	M5x0.8	Φ38.1	38	165.2	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

FV4: 1/4" VFS female

MV8: 1/2" VFS male

FV8: 1/2" VFS female

TW6: 3/8" tube weld

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: Vespel®

Work Pressure

H: 3000 psig *

M: 1300 psig

*The pressure for the 3/4" connection is 2400 psig

Process Specification

P: VS001A

* For details, please refer to the appendix

Optional

None: Circular handle

W: Round handwheel with sight window

LO: Round Knob Pull, then turn to open lock out / tag out

L: Right-angle handle

*Option W: 1300 psig max only

*Option LO: 1300 psig max only

*Option L: 3000 psig max only

