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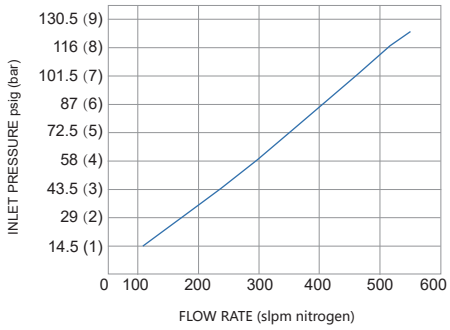
Bellows Valves
VUBV Series

Product Feature

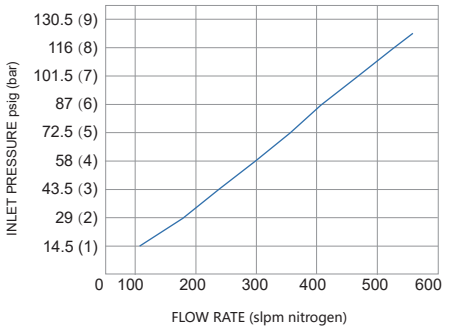
- 316L stainless steel construction
- Tube fitting, tube welding, and VFS fitting joints
- Easy to clean to keep operation clean
- Excellent gas displacement characteristics
- EP treatment is standard for all wetted sufaces
- Standard seat material is PCTFE, Polyimide is option
- All-metal seal to atmosphere

Flowchart

Maunal Actuator



Pneumatic Actuator



Technical Data

Manual Pressure:	Vacuum 500 psig (35bar)
Pneumatic Pressure:	Vacuum 125 psig (8.6bar)
Operating Pressure:	45~120 psig (3.2~8.2bar)
Surface finish:	10μin. Ra Standard (7μin. Ra / 5μin. Ra optional)
Working Temp.:	-40°F ~ 200°F (-40°C ~ 93°C)
Materials	
Body:	316L
Bellows:	A269 / A240 stainless steel
Seat packing:	PCTFE
Handle:	AL
Internal Leakage Allowance:	$4x10^{-9}$ mbar l/s He
External Leakage Allowance:	$4x10^{-9}$ mbar l/s He
Flow capacity:	Cv=0.3
Weight:	approx. 1.54kg (actuator not included)

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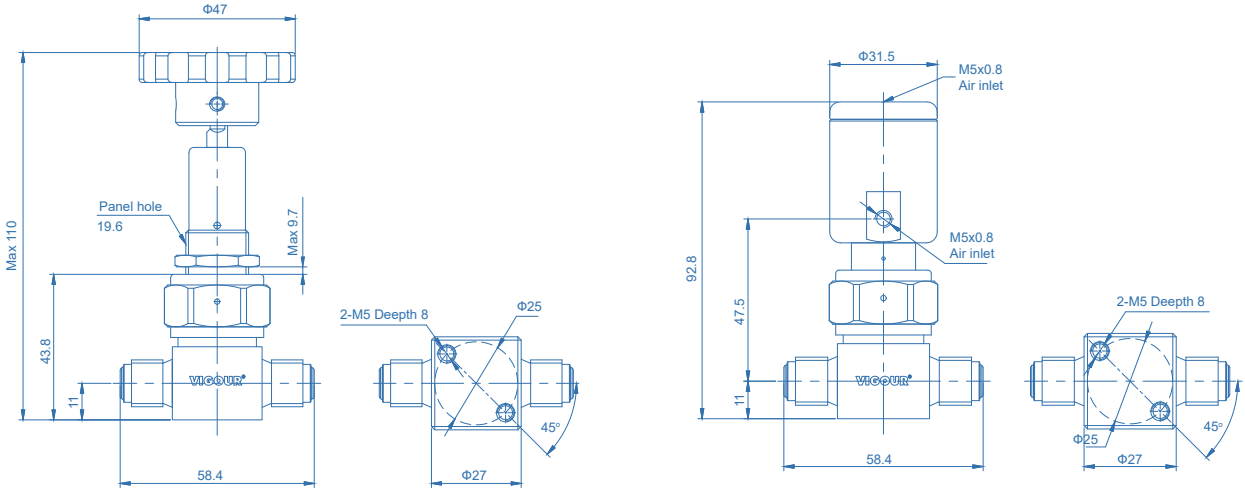
Bellows Valves
VUBV Series

Dimensions (mm)



Ordering Information

VUBV S - M - MV4 - MV4 - VS

Materials

S: 316L

Actuator

M: manual actuator
PC: pneumatic actuator,normally closed

Valve Seat Option

None: PCTFE (standard)
VS: Vespel®

End Connection

04: 1/4” tube fitting
TW4: 1/4” tube weld
FV4: 1/4” VFS female
MV4: 1/4” VFS male

* Other connection standard,consult factory

* Tube fitting wetted surface Ra. 20μm machine finished, TW4、 FV4、 MV4 wetted surface Ra. 8μm machine finished and electropolishad

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Metering Valves
VMV Series

Product Features

- Low pressure metering valves
- Body materials: 316
- Panel installation is possible
- Vernier handles Options
- Straight and Angle flow patterns
- Working pressure: Max. 2000psig (137bar)
- Straight-pattern flow coefficients (Cv) from 0.004 to 0.16

Technical Data

Series	Pressure-Temperature Ratings		Orifice in. (mm)	Shutoff Service	Stem Taper (Included Angle)
	Temperature ℃	Working Pressure bar			
A type	-23℃ to +204℃ (FKM O-rings)	137	0.032 (0.81)	No	1°
B type	-23℃ to +148℃ (Buna N, O-rings)	68.9 ①	0.056 (1.42)	No	3°
C type			0.128 (3.25)	Yes②	6°

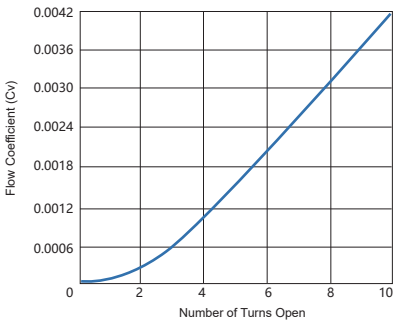
① Downstream pressure 500 psig (34.4 bar) max when valve requires adjustment at pressure due to strength limitations of the fine-pitch threads and high operating torque.

② Stainless steel L series valves are not recommended for shutoff in vacuum or gas service, or for repetitive shutoff in liquid service.

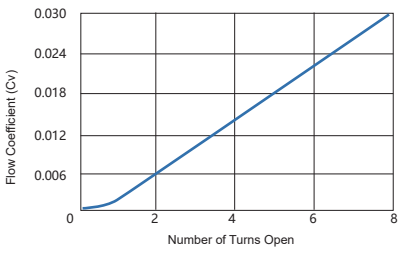
Flow Coefficient at Turns Open

Flow Data at 70℉ (20℃)

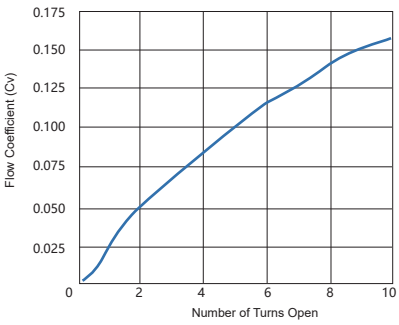
A type Metering Valves



B type Metering Valves



C type Metering Valves



Max. Flow Cv=0.004	
Pressure Drop to Atmosphere bar	Air Flow std L/min
0.68	1.1
3.4	2.8
6.8	5.6

Max. Flow Cv=0.03	
Pressure Drop to Atmosphere bar	Air Flow std L/min
0.68	9.3
3.4	25.4
6.8	42.4

Max. Flow Cv=0.16	
Pressure Drop to Atmosphere bar	Air Flow std L/min
0.68	56.6
3.4	181
6.8	323

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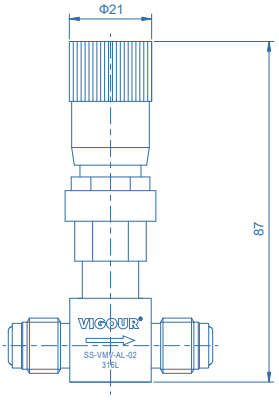
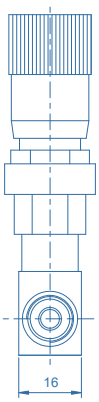
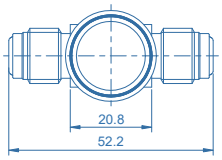
Dimensions







End Connections		Ordering Number	Dimensions, in. (mm)					
Inlet/Outlet	Size		L	H	H1	H2	E	G
A type (Straight Pattern)								
Tube Fittings	1/16 in.	SS-VMV-A-01	1.56 (39.6)	2.34 (59.4)	0.92 (23.4)	/	0.38 (9.6)	0.45 (11.4)
	1/8 in.	SS-VMV-A-02	1.90 (48.3)					
	1/4 in.	SS-VMV-A-04	2.04 (51.8)					
	3mm	SS-VMV-A-3M	1.90 (48.3)					
	6mm	SS-VMV-A-6M	2.04 (51.8)					
VFS Male	1/4 in.	SS-VMV-A-MV4	2.06 (52.3)					
A type (Angle Pattern)								
Tube Fittings	1/16 in.	SS-VMV-AL-01	0.81 (20.6)	3.22 (81.8)	0.92 (23.4)	0.88 (22.4)	0.38 (9.6)	0.45 (11.4)
	1/8 in.	SS-VMV-AL-02	0.98 (24.9)	3.22 (81.8)		0.98 (24.9)		
	1/4 in.	SS-VMV-AL-04	1.02 (25.9)	3.36 (85.3)		1.02 (25.9)		
	3mm	SS-VMV-AL-3M	0.98 (24.9)	3.32 (84.3)		0.99 (25.1)		
Male NPT / Tube Fittings	1/8 in.	SS-VMV-AL-M2-02	0.98 (24.9)	3.07 (78.0)		0.98 (24.9)		
B type (Straight Pattern)								
Tube Fittings	1/8 in.	SS-VMV-B-02	2.02 (51.3)	2.78 (70.6)	1.56 (39.6)	/	0.50 (12.7)	0.58 (14.7)
	1/4 in.	SS-VMV-B-04	2.20 (55.9)					
	3mm	SS-VMV-B-3M	2.02 (51.3)					
	6mm	SS-VMV-B-6M	2.20 (55.9)					
Male NPT	1/8 in.	SS-VMV-B-M2	1.50 (38.1)					
	1/4 in.	SS-VMV-B-M4	1.96 (49.8)					
Female NPT	1/8 in.	SS-VMV-B-F2	1.94 (49.3)					
VFS Male	1/4 in.	SS-VMV-B-MV4	2.06 (52.3)					
B type (Angle Pattern)								
Tube Fittings	1/8 in.	SS-VMV-BL-02	1.01 (25.7)	3.30 (83.8)	1.07 (27.2)	1.01 (25.7)	0.50 (12.7)	0.58 (14.7)
	1/4 in.	SS-VMV-BL-04	1.10 (27.9)	3.39 (86.1)		1.10 (27.9)		
	3mm	SS-VMV-BL-3M	1.01 (25.7)	3.30 (83.8)		1.01 (25.7)		
	6mm	SS-VMV-BL-6M	1.10 (27.9)	3.39 (86.1)		1.10 (27.9)		
Male NPT	1/8 in.	SS-VMV-BL-M2	0.75 (19.1)	3.04 (77.2)		0.75 (19.1)		
	1/4 in.	SS-VMV-BL-M4	0.98 (24.9)	3.27 (83.1)		1.02 (25.9)		
Male NPT / Tube Fittings	1/8 in.	SS-VMV-BL-M2-02	1.01 (25.7)	3.04 (77.2)		0.75 (19.1)		
Female NPT	1/8 in.	SS-VMV-BL-F2	0.97 (24.6)	3.26 (82.8)		0.97 (24.6)		