

MV3 SERIES METERING DIAPHRAGM VALVE

GENTEC® MV3 Series Metering Diaphragm Valve is developed for use with integrated gas systems (IGS).



Features

- Assembled and packaged for Ultra-high purity semiconductor applications
- Precision graduated knob
- Helium-leak tested
- Electropolished Flow Paths
- 1.125" C-Seal or 1.125" W-Seal

Materials

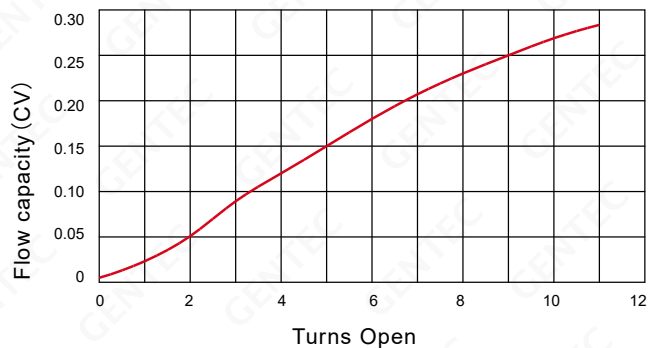
- Body: 316L VIM VAR, 316L VAR
- Diaphragm: Co-Ni Super Alloy

Specifications

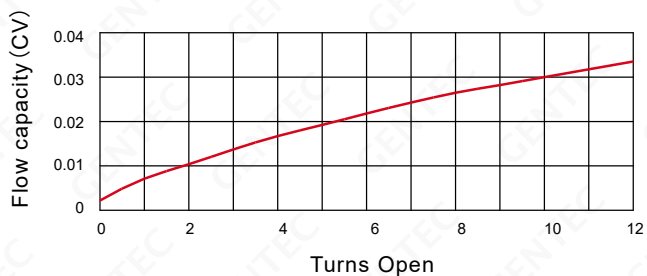
- MV30 Series Cv: 0.25
- MV31 Series Cv: 0.03
- Maximum leak Rate:
Inboard leakage: 2×10^{-9} atm cc/sec He
- Proof pressure: 150% of maximum rated pressure
- Burst pressure: 400% of maximum rated pressure
- Wetted Surface: Ra 5 μ m
- Wetted Components processed according to
GENTEC Ultra High Purity Process Specification (GC-S1)

Flow Chart

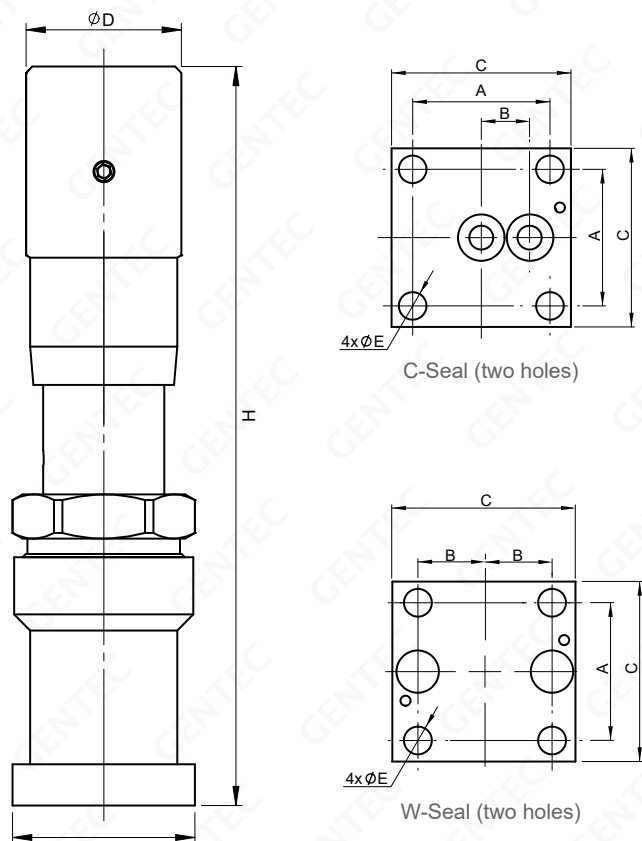
MV30
Cv vs. Turns Open



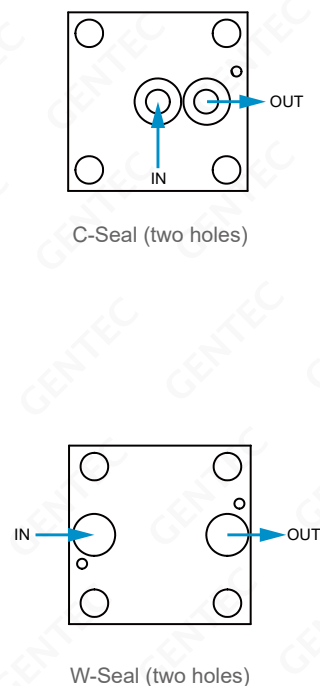
MV31
Cv vs. Turns Open



Dimension



Inlet and Outlet



Dimensions: in. (mm)

Sealing Type	Dimensions					
	A	B	C	D	E	H
W-Seal	0.86" (21.8)	0.39" (10.0)	1.13" (28.6)	0.96"(24.3)	0.17" (4.4)	4.57" (116) ~ 4.96" (126)
C-Seal	0.86" (21.8)	0.31" (7.75)	1.13" (28.6)	0.96"(24.3)	0.17" (4.4)	4.57" (116) ~ 4.96" (126)

Ordering Information

Ex: SLVV	- MV30	M -	11C2	- K	- S1
Body	Series Number	Knob Type	Connection Type	Seal Material	Process Standard
SLVV: 316L VIM VAR SLV: 316L VAR	MV30 MV31	M: Micrometer handle	11C2: 1.125" C-Seal, two holes 11W2: 1.125" W-Seal, two holes Other connection styles are available	K: PCTFE	S1: Ultra-high purity process