

DV01 SERIES PNEUMATIC DIAPHRAGM VALVES

GENTEC® DV01 Series Pneumatic Diaphragm Valves are developed for use with integrated gas systems (IGS).



N.O. Normally Open



N.C. Normally Closed

Features

- Assembled and packaged for Ultra-high purity semiconductor applications
- Compact Design
- Pneumatic Actuator: NC or NO
- Cobalt-based superalloy diaphragm
- 100% Helium-leak tested
- 1.125" C-Seal or 1.125" W-Seal

Materials

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

Specifications

- Flow capacity: Cv=0.2
- Maximum leak Rate:
 - Inboard leakage: 3X10⁻¹¹ atm cc/sec He
 - Across seat leakage: 1X10⁻⁹ atm cc/sec He

Operating Conditions

- Maximum Operating Pressure: 150 psi
- Minimum Operating Pressure: vacuum
- Temperature: -10°C~80°C (14°F~176°F)

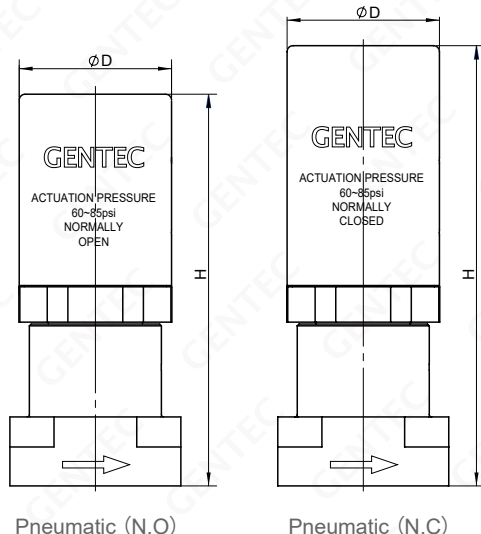
Actuator Specifications

- Operating pressure: 60~85 psi
- Inlet Connection: M5 (F)
- Normally: closed, open

Wetted Surface

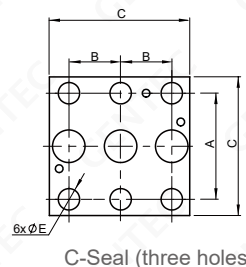
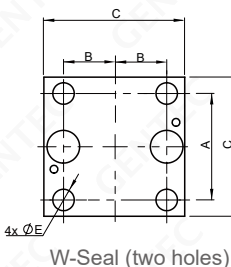
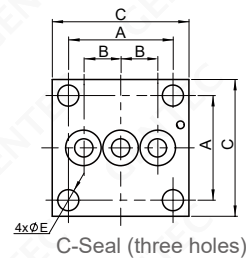
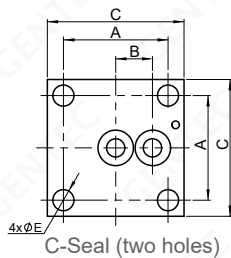
- Ra: 5 µin
- Wetted Components processed according to GENTEC Ultra High Purity Process Specification (GC-S1)

Dimensions



Pneumatic (N.O)

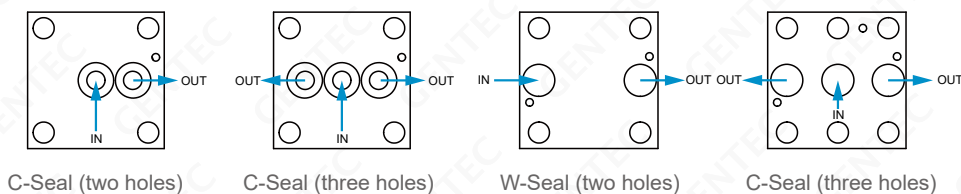
Pneumatic (N.C)



unit: mm (in.)

Actuation	Dimensions mm(in.)					
	A	B	C	D	E	H
Pneumatic (N.C) (C-Seal)	21.8 (0.86")	7.75 (0.31")	28.5 (1.12")	25.4 (1")	4.4 (0.17")	73.4 (2.89")
Pneumatic (N.O) (C-Seal)	21.8 (0.86")	7.75 (0.31")	28.5 (1.12")	25.4 (1")	4.4 (0.17")	68.1 (2.68")
Pneumatic (N.C) (W-Seal)	21.8 (0.86")	10.0 (0.39")	28.5 (1.12")	25.4 (1")	4.4 (0.17")	73.4 (2.89")
Pneumatic (N.O) (W-Seal)	21.8 (0.86")	10.0 (0.39")	28.5 (1.12")	25.4 (1")	4.4 (0.17")	68.1 (2.68")

Inlet and Outlet



C-Seal (two holes)

C-Seal (three holes)

W-Seal (two holes)

C-Seal (three holes)

Ordering Information

Ex: SLVV	- DV01	P -	- 11C2	- NO	- S1
Body	Series Number	Actuation	Connection Type	Options	Process Standard
SLVV: 316L VIM VAR SLV: 316L VAR	DV01	P: Pneumatic	11C2: 1.125" C-Seal, two holes 11C3: 1.125" C-Seal, three holes 11W2: 1.125" W-Seal, two holes 11W3: 1.125" W-Seal, three holes Other connection styles are available	Blank: Normally closed (Standard) NO: Normally open	S1: Ultra-high purity process