

R02 SERIES REGULATORS

GENTEC® R02 Series Regulators are developed for use with integrated gas systems (IGS).



SLVV-R02-K-11C2-K-S1

Features

- Assembled and packaged for Ultra-high purity semiconductor applications
- Cobalt-based superalloy diaphragm
- Metal to metal diaphragm to body seal
- Helium-leak tested
- Electropolished Flow Paths
- 1.125" C-Seal or 1.125" W-Seal

Materials of Construction

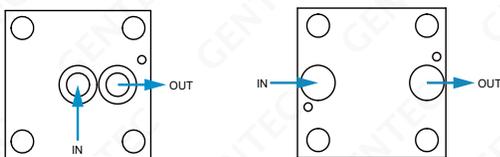
- Body: 316L VIM VAR, 316L VAR
- Seat: PCTFE*
- Other wetted parts: Hastelloy

Specification

- Maximum Inlet Pressure: 150 psi
- Maximum Outlet Pressure: 25, 50, 75, 100 psi
- Temperature: -40°C ~ 74°C (-40°F ~ 165°F)
- Cv : 0.04
- Inboard leakage: 1×10^{-9} atm.cc/sec He
- Across seat leakage: 4×10^{-8} atm.cc/sec He
- Proof pressure: 150% of maximum rated pressure
- Burst pressure: 400% of maximum rated pressure
- Internal Volume: 2.4 cc
- Wetted Surface: Ra 5 μ m
- Wetted Components processed according to GENTEC UltraHigh Purity Process Specification (GC-S1)

*: Standard material

Inlet and Outlet

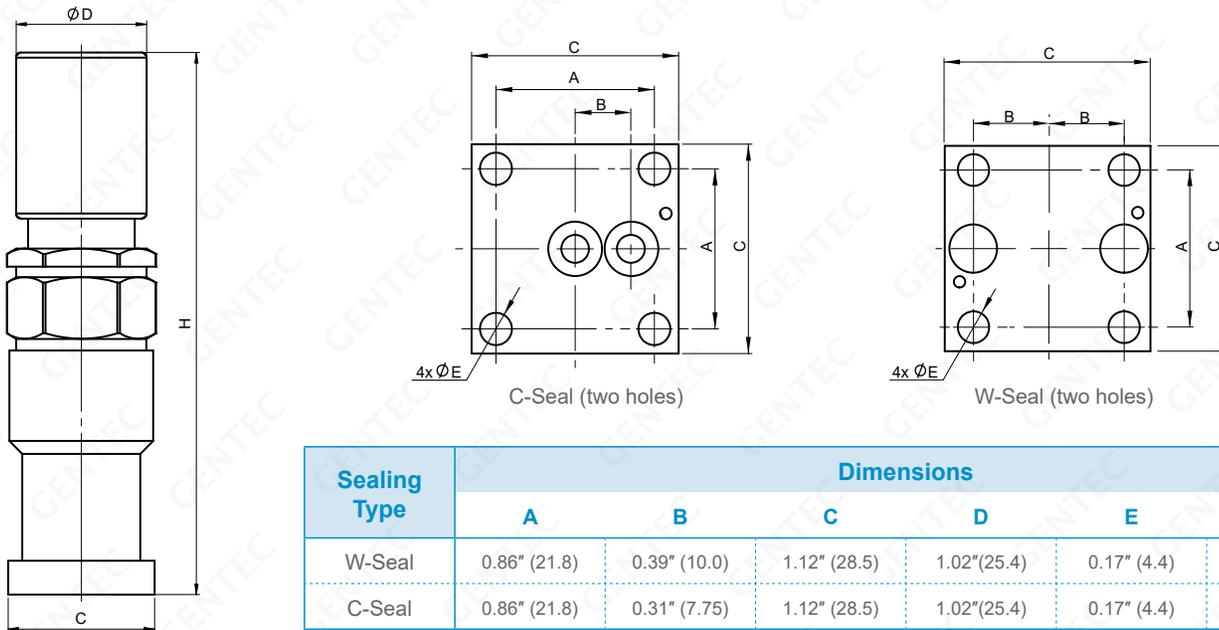


C-Seal (two holes)

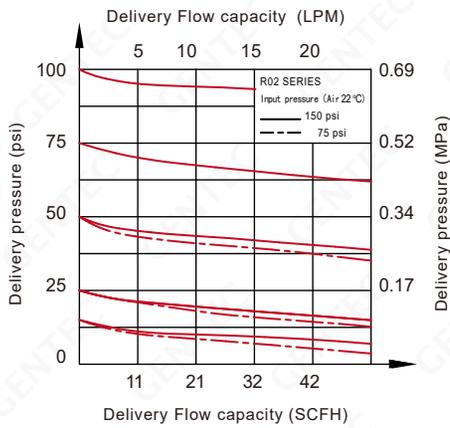
W-Seal (two holes)

Body Ports



Dimensions


Dimensions: in (mm)

Flow Data

Ordering Information

EX: SLVV	- R02	- K	- 11C2	- K	- S1
Body	Series Number	Outlet Pressure	Connection Type	Seal Material	Process Standard
SLVV: 316L VIM VAR SLV: 316L VAR	R02	I: 0~100 psi J: 0~75 psi K: 0~50 psi L: 0~25 psi	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