

R01 SERIES REGULATOR

GENTEC® R01 Series Regulator is developed for use with integrated gas systems (IGS).



SLVV-R01-K-11C2-K-S1

Features

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

Materials of Construction

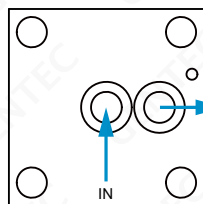
- Body: 316L VIM VAR, 316L VAR
- Seat: PCTFE*, PFA
- Other wetted parts: Hastelloy

Specification

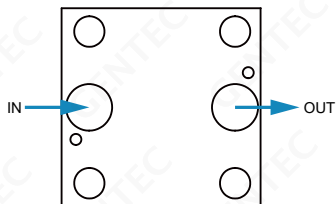
- Maximum Inlet Pressure: 150 psi
- Maximum Outlet Pressure: 25, 50, 75, 100 psi
- Temperature: -40°C ~ 74°C (-40°F ~ 165°F)
- Cv:
 - R01Series: 0.06
 - R01A Series: 0.1
- Inboard leakage: 1×10^{-9} atm.cc/sec He
- Across seat leakage: 4×10^{-8} atm.cc/sec He
- Proof pressure: 150% of maximum rated pressure
- Burst pressure: 400% of maximum rated pressure
- Internal Volume: 2.4 cc
- Wetted Surface: Ra 5 μ in
- Wetted Components processed according to GENTEC UltraHigh Purity Process Specification (GC-S1)

*: Standard material

Inlet and Outlet



C-Seal (two holes)

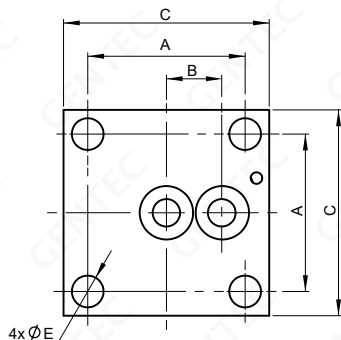
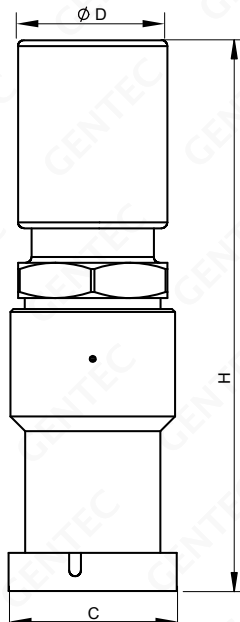


W-Seal (two holes)

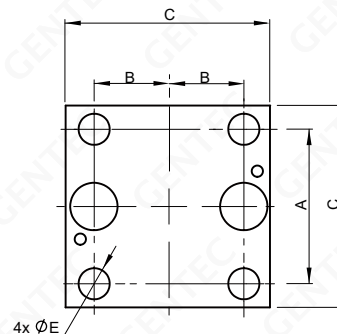
Body Ports



Dimensions



C-Seal (two holes)

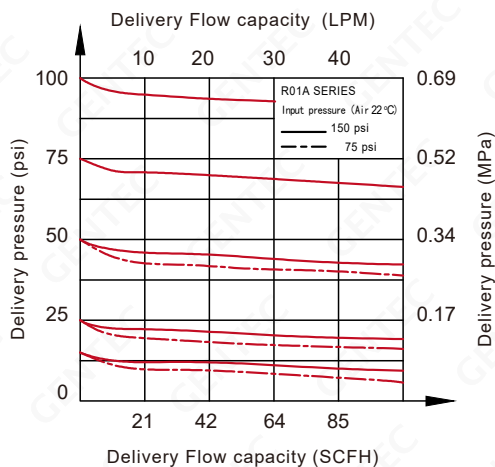
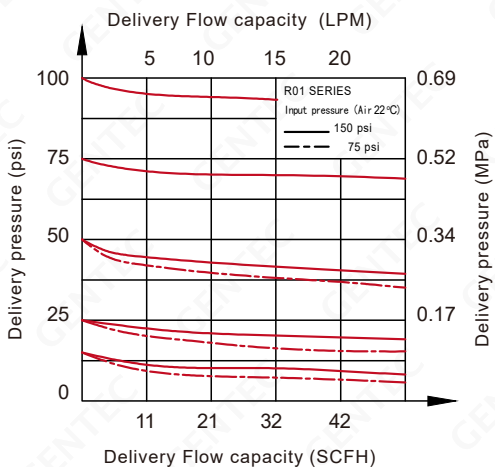


W-Seal (two holes)

Sealing Type	Dimensions mm(in.)					
	A	B	C	D	E	H
W-Seal	21.8 (0.86")	10.0 (0.39")	28.5 (1.12")	26.0 (1.02")	4.4 (0.17")	93.7 (3.69")
C-Seal	21.8 (0.86")	7.75 (0.31")	28.5 (1.12")	26.0 (1.02")	4.4 (0.17")	93.7 (3.69")

unit: mm (in.)

Flow Data



Ordering Information

EX: SLVV	- R01	- K	- 11C2	- K	- S1
Body	Series Number	Outlet Pressure	Connection Type	Seal Material	Process Standard
SLVV: 316L VIM VAR SLV: 316L VAR	R01 R01A	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 T: PFA	S1: Ultra-high purity process