

R31B SERIES

High Purity Low Flow Regulator

Specialty Gas Equipment



GENTEC® R31B Series Brass Regulator is a Diaphragm-Sensed Dual-Stage High Purity regulator designed for analytical applications where a consistent outlet pressure and flow are desired.

Product Features

- Dual-Stage Configuration
- Metal-to-Metal Seal
- Body Port Size: 1/4" NPT(F)
- 2" Pressure Gauge

» R31BMK-DQK-C350-11-D

Materials

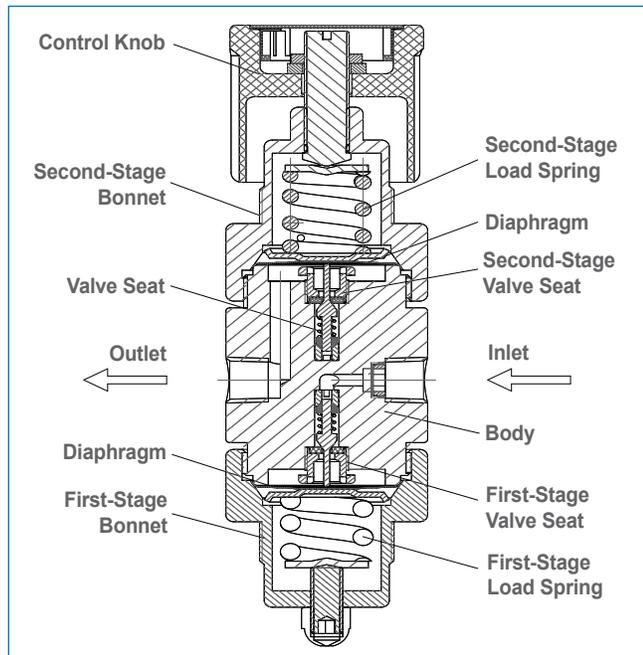
- | | |
|------------------|------------------------------|
| • Body | Nickel-Plated Brass Barstock |
| • Bonnet | Nickel-Plated Brass Barstock |
| • Seat | PCTFE |
| • Diaphragm | 316L |
| • Adjusting Knob | ABS Plastic |

Applications

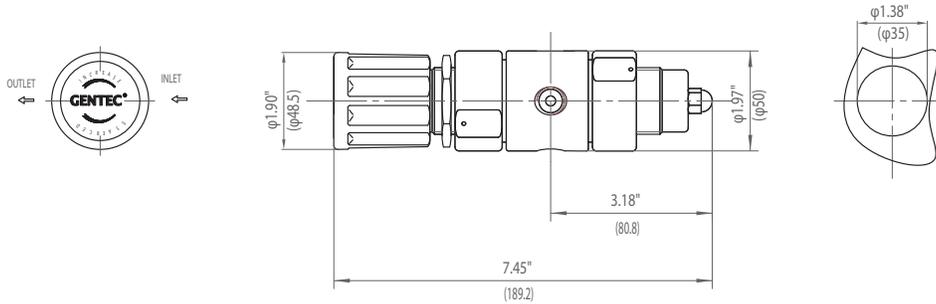
- Cylinders
- Research Laboratories
- Gas Chromatography
- Process Analyzers
- Petrochemical Industry
- Power Plant

Specifications

- Maximum inlet pressure: 3000 psig
- Maximum outlet pressure: 250 psig
- Safety test pressure: 1.5 x Maximum inlet pressure
- Temperature range: -40°F~165°F (-40°C~ 74°C)
- Inboard leakage: 2×10^{-8} atm.cc/sec He
- Outboard leakage: 2×10^{-8} atm.cc/sec He inlet pressure: 1500 psig
- Maximum Cv: 0.06
- Weight: 4.03 lb

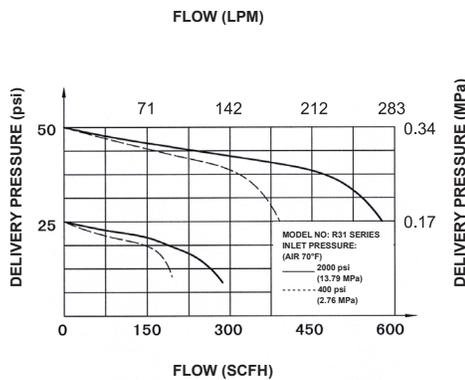
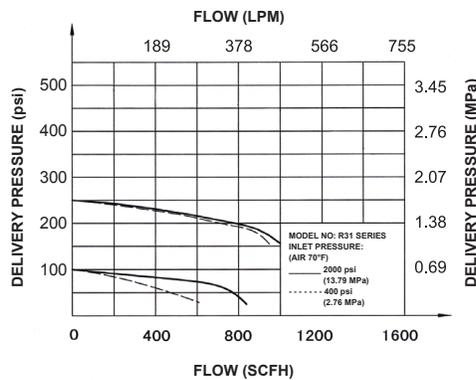


Dimensions

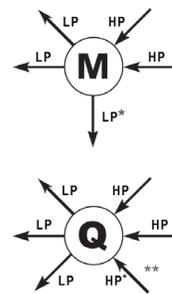


Front Panel Mount
Max. Thickness: 1/4" (7mm)

Flow Data



Body Ports



** For R31 Series, this high pressure "Q" port configuration is plugged. This port can be used for purging purpose only.

* For the "M" port configuration of R31 Series, this port is plugged and cannot be used for relief valve installation.

Ordering Information

| EX:R31B | M | K - | D | Q | K - | C350 - | 11 - | D |
|---------|------------|----------|----------------------|---|-------------------------|--|---|---|
| Series | Body Ports | Seat | Inlet Pressure Range | Outlet Pressure Ranges | Gauge | Inlet Connections | Outlet Connections | Options |
| • R31B | M Q | K: PCTFE | D: 3000 psig | G: 0-250 psig I: 0-100 psig K: 0-50 psig L: 0-25 psig Q: 30" Hg Vac-30 psig S: 30" Hg Vac-100 psig T: 30" Hg Vac-200 psig | K: Gauge W: No Gauge | 00: 1/4" NPT(F) C346: CGA346 C320: CGA320 C350: CGA350 C510: CGA510 C540: CGA540 C580: CGA580 C590: CGA590 C326: CGA326 Other connections available | 00: 1/4" NPT(F) 01: 1/4" NPT(M) 10: 1/8" GENLOK 11: 1/4" GENLOK 12: 3/8" GENLOK 14B: 1/4" Hose Barb Other connections available | Blank: None D: Diaphragm Valve N: Needle Valve P: Panel Mount R: Relief Valve |