

NR31 SERIES

Regulators - Pressure Reducing

Handwritten: 1/2" [1.75]

SPECIFICATIONS

OPERATING PARAMETERS

Maximum Inlet Pressure

3500 psig / 241 bar

Outlet Pressure Ranges

0-25, 0-50, 0-100, 0-150, 0-250 psig

0-1.7, 0-3.4, 0-6.9, 0-10.3, 0-17.2 bar

Design Outlet Proof Pressure

150% of maximum rated pressure

Operating Temperature

-40°F to 165°F / -40°C to 74°C

Flow Capacity

$C_v = 0.05$

Leakage

Internal: Bubble-tight

External: Design to meet $\leq 2 \times 10^{-8}$ atm cc/sec He

Maximum Operating Torque

10 in-lbs / 1.0 N · m

Decaying Inlet Characteristic

0.04 change: 100 psig / 6.9 bar inlet

MEDIA CONTACT MATERIALS

Body

316 Stainless Steel, Brass or Monel

Bonnets

300 Series Stainless Steel or Brass

Diaphragms

316 Stainless Steel or Elgiloy

Seats

Teflon

Friction Sleeve (inner)

Teflon

Remaining Parts

316 Stainless Steel and Brass (for Brass models)

OTHER

Connections

1/4" NPTF inlet, outlet and gauge port

Weight (without gauges)

3 lbs / 1.4 kg



ADVANTAGES

- Provides a continuous, accurate outlet pressure regardless of inlet pressure fluctuations
- Offers a decaying inlet characteristic of 0.04 psig / 3 mbar per 100 psig / 6.9 bar change in inlet pressure
- Features a unique metal-to-metal diaphragm to body seal
- Diaphragms are convoluted for greater accuracy and sensitivity
- Available in 316 Stainless Steel, Brass or Monel
- NACE compliant designs are available

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