

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

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
Cleaning	CGA 4.1 and ASTM G93
Weight (without gauges)	3 lbs / 1.4 kg

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TESCOM 44-3400 Series is a compact, lightweight high purity two-stage cylinder regulator for specialty, corrosive and pyrophoric gases less than 5 SCFM / 141 SLPM. Diffusion-resistant metal-to-metal diaphragm seal ensures gas purity and integrity.

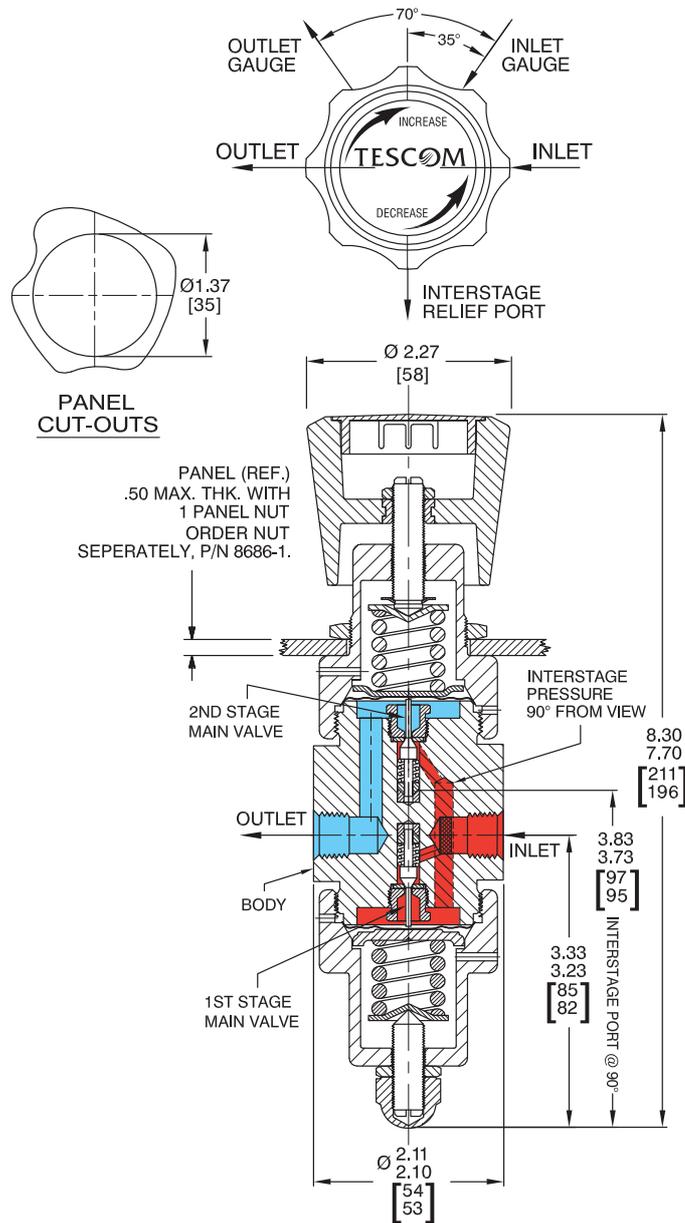
Application

- High pressure gas cylinders for specialty and industrial gases used with analyzers, lasers, and laboratory applications

Features and Benefits

- 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

44-3400 Series Regulator Drawing



All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

44-3400 Series Regulator Flow Chart

For more information on how to read flow curves, please refer to the Flow Curves and Calculations document (debul2007x012) in the TESCOM catalog or on www.tescom.com.

