

## Specifications

For other materials or modifications, please consult TESCO. M.

### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

#### Controlled Pressure Ranges

0-25, 0-50, 0-100, 0-250 psig  
0-1.7, 0-3.4, 0-6.9, 0-17.2 bar

#### Design Proof Pressure

150% maximum rated

#### Leakage

**Internal:** Bubble-tight

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

#### Operating Temperature

-40°F to 140°F / -40°C to 60°C

#### Flow Capacity

$C_v = 0.08$

#### Maximum Operating Torque

30 in-lbs / 3.4 N•m

### MEDIA CONTACT MATERIALS

#### Body

316 Stainless Steel, Brass, or Monel

#### Bonnet

300 Series Stainless Steel, Brass

#### Seat

PCTFE

#### Diaphragm

316 Stainless Steel or Cobalt Chrome Nickel Alloy (Elgiloy®)

#### Remaining Parts

316 Stainless Steel, Monel (for Monel body)

### OTHER

#### Cleaning

CGA 4.1 and ASTM G93

#### Weight (without gauges)

2 lbs / 0.9 kg

Elgiloy® is a registered trademark of Elgiloy Corp.



TESCOM 44-2300 Series is a compact, lightweight, single-stage backpressure regulator for specialty, flammable, and industrial gas flows of less than 4 SCFM / 113 SLPM. Diffusion-resistant metal diaphragm seal ensures gas purity and integrity.

### Applications

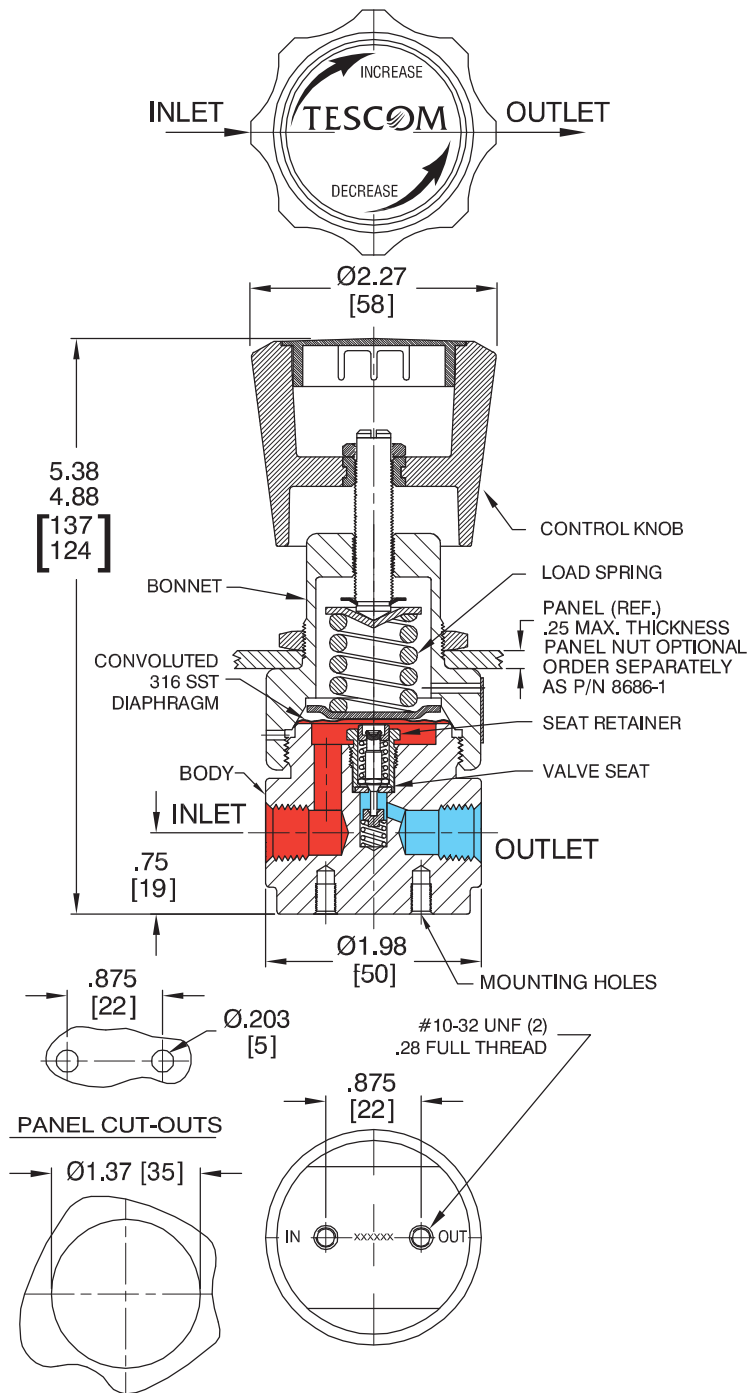
- Analytical systems
- Gas sampling
- Pilot plants
- OEM packages
- R & D laboratories

### Features and Benefits

- Reduces contamination and provides accurate regulation of corrosive or non-corrosive gases
- Convoluted metal-to-metal sealed diaphragm
- Close pressure differential between crack and reseal
- Compact and economical
- Dome loading is optional
- Panel mounting is available

# 44-2300 SERIES

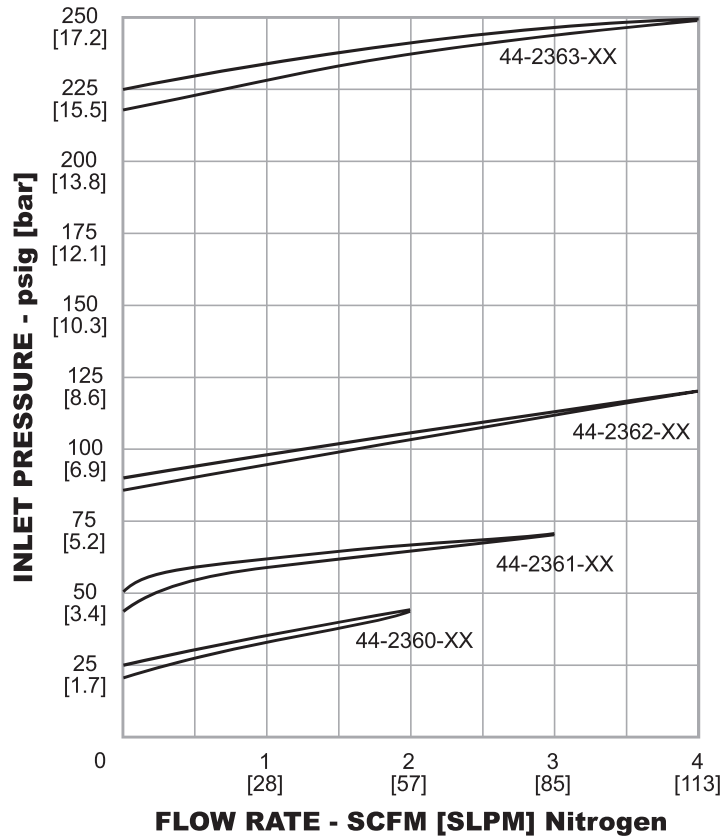
## 44-2300 Series Regulator Drawing



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

44-2300 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.



44-2300 Typical Application

