

## 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

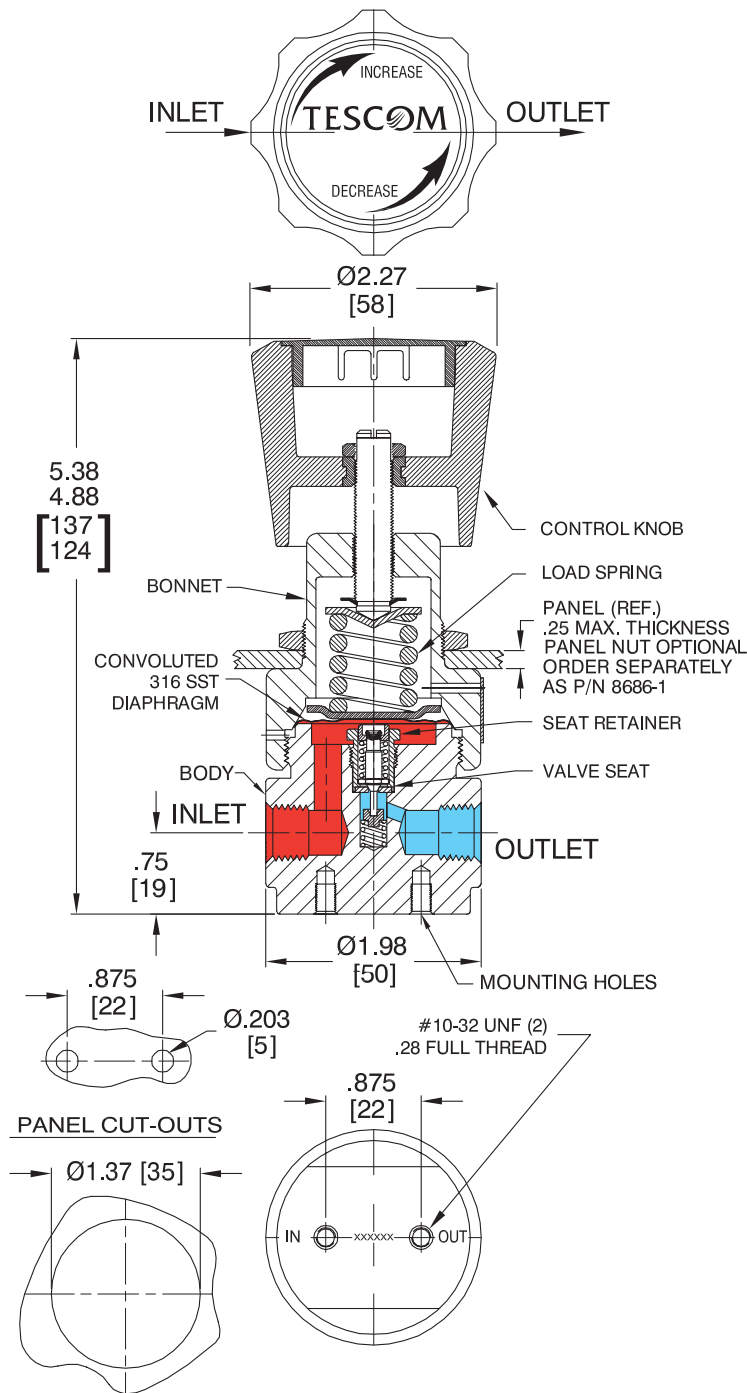
- Analytical systems
- Gas sampling
- Pilot plants
- OEM packages
- R & D laboratories

### Features and Benefits

- Reduces contamination and provides accurate regulation of corrosive or non-corrosive gases
- Convolute 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

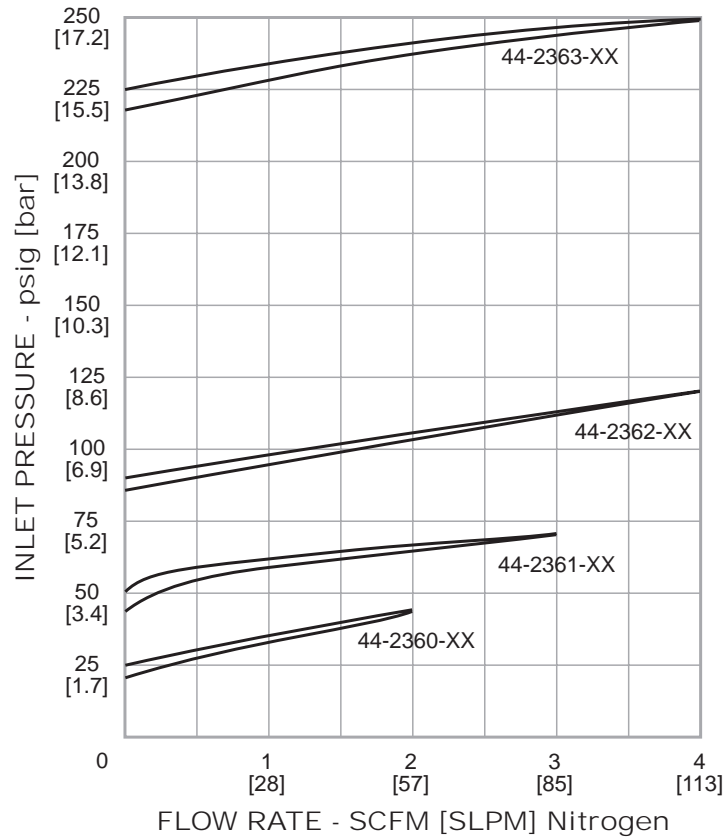
## 44-2300 Series Regulator Drawing



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](http://www.tescom.com).



### 44-2300 Typical Application

