

# 44-2500 Series

## Regulators - Relief / Backpressure

D44251995X012

### Specifications

For other materials or modifications, please consult TESCOM.

#### 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**

-15°F to 165°F / -26°C to 74°C

**Flow Capacity**

$C_v = 0.30$

**Maximum Operating Torque**

30 in-lbs / 3.4 N•m

#### MEDIA CONTACT MATERIALS

**Body**

316 Stainless Steel or Brass

**Seat Retainer**

PEEK

**O-Ring**

Viton®, Kalrez®

**Diaphragm, Filter, Spring**

316 Stainless Steel

**Remaining Parts**

316 Stainless Steel or Brass

#### OTHER

**Cleaning**

CGA 4.1 and ASTM G93

**Weight (without gauges)**

2 lbs / 0.9 kg

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TESCOM 44-2500 Series is a compact, lightweight, single-stage regulator for specialty, flammable, and industrial gases for flows up to 30 SCFM / 850 SLPM. Diffusion-resistant metal diaphragm seal ensures gas purity and integrity.

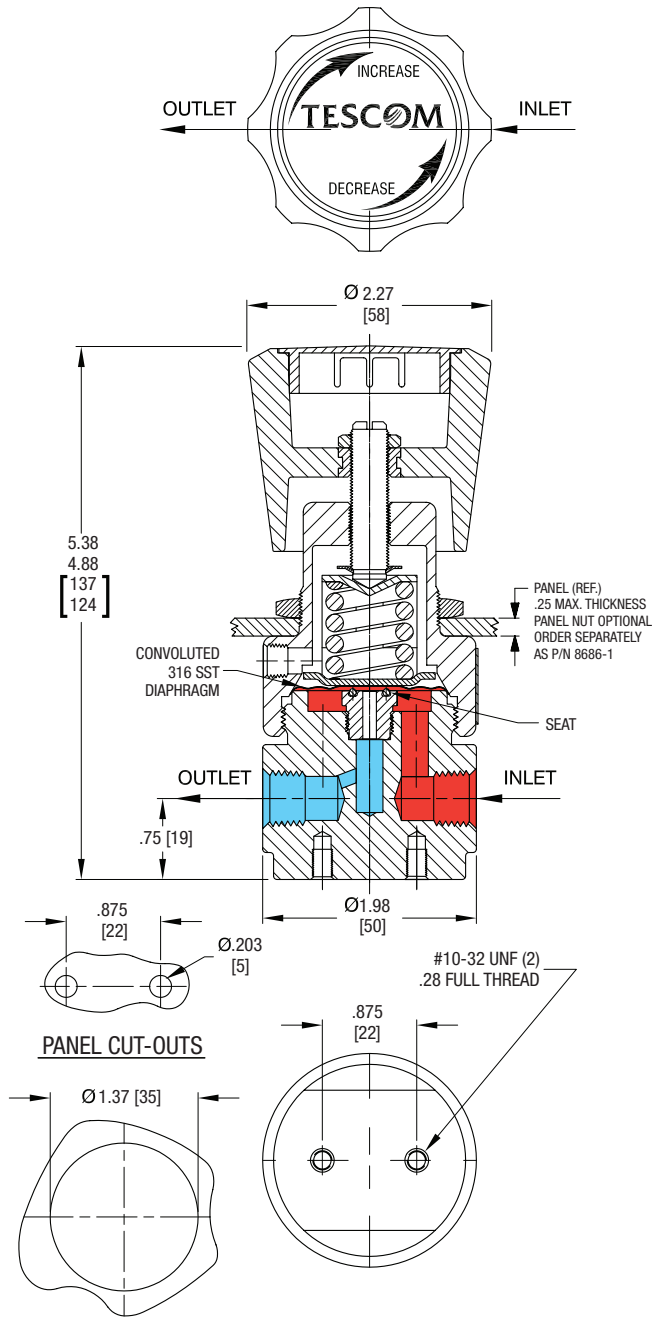
#### Application

- General purpose

#### Features and Benefits

- Reduces contamination and provides accurate regulation of non-corrosive and corrosive gases
- Convoluted metal-to-metal sealed diaphragm
- Close pressure differential between crack and reseal
- Economically priced
- Panel mounting is standard
- Bubble-tight shutoff at all reseating pressures
- Flow capacity  $C_v = 0.30$

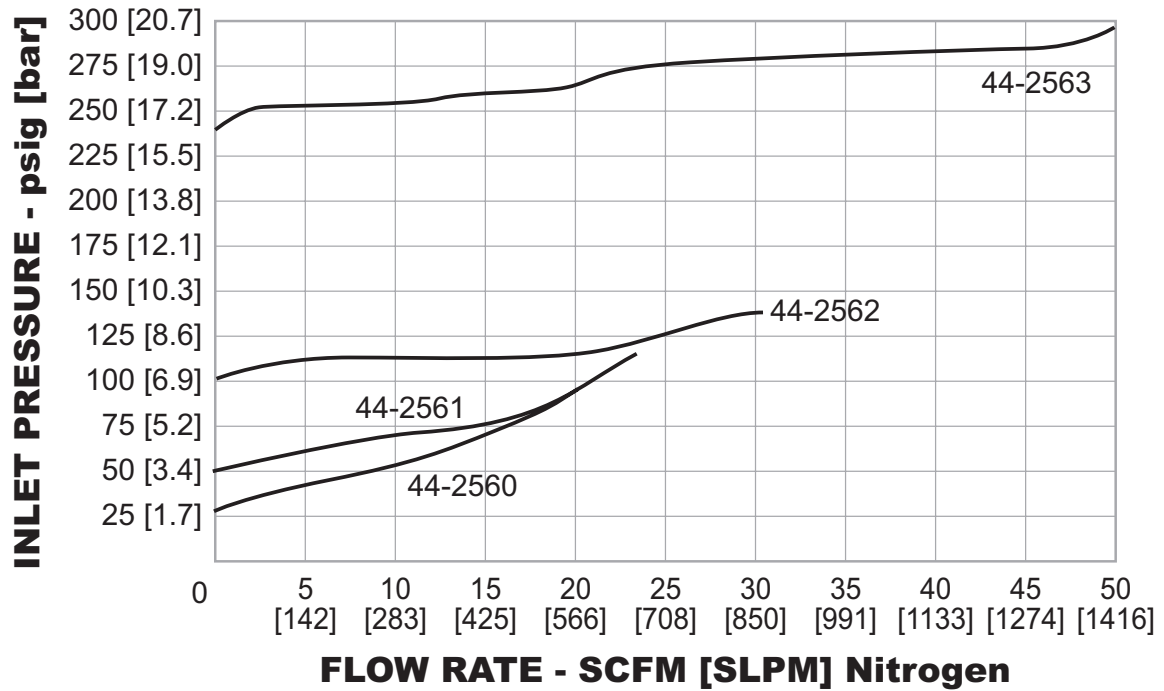
44-2500 Series Regulator Drawing



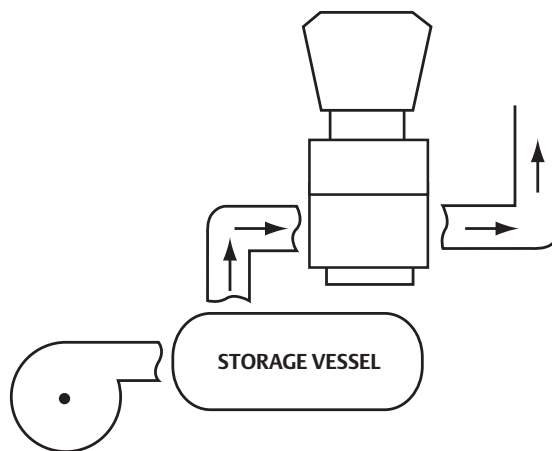
All dimensions are reference & nominal  
 Metric [millimeter] equivalents are in brackets

### 44-2500 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).




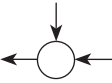
### 44-2500 Series Typical Application



## 44-2500 Series Regulator Part Number Selector

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

Example for selecting a part number:

44-25	6	2	T	2	4	A
BASIC SERIES	BODY MATERIAL	CONTROLLED PRESSURE RANGES	O-RING MATERIAL	INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE	GAUGE PORT OPTIONS
44-25	1 – Brass 6 – 316 Stainless Steel	0 – 0-25 psig 0-1.7 bar 1 – 0-50 psig 0-3.4 bar 2 – 0-100 psig 0-6.9 bar 3 – 0-250 psig 0-17.2 bar	T – Viton® K – Kalrez®	2 – NPTF	4 – 1/4"	A – No gauge ports  F – One inlet gauge at 90° 



**WARNING!** Do not attempt to select, install, use or maintain this product until you have read and fully understood the *TESCOM Safety, Installation and Operation Precautions*.

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