

# 44-2300 Series

Regulators - Relief / Backpressure

#### **Specifications**

For other materials or modifications, please consult ICS.

#### 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 x 10<sup>-8</sup> 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

CTFE

Diaphragm

316 Stainless Steel or 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<sup>®</sup> is a registered trademark of Elgiloy Corp.



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

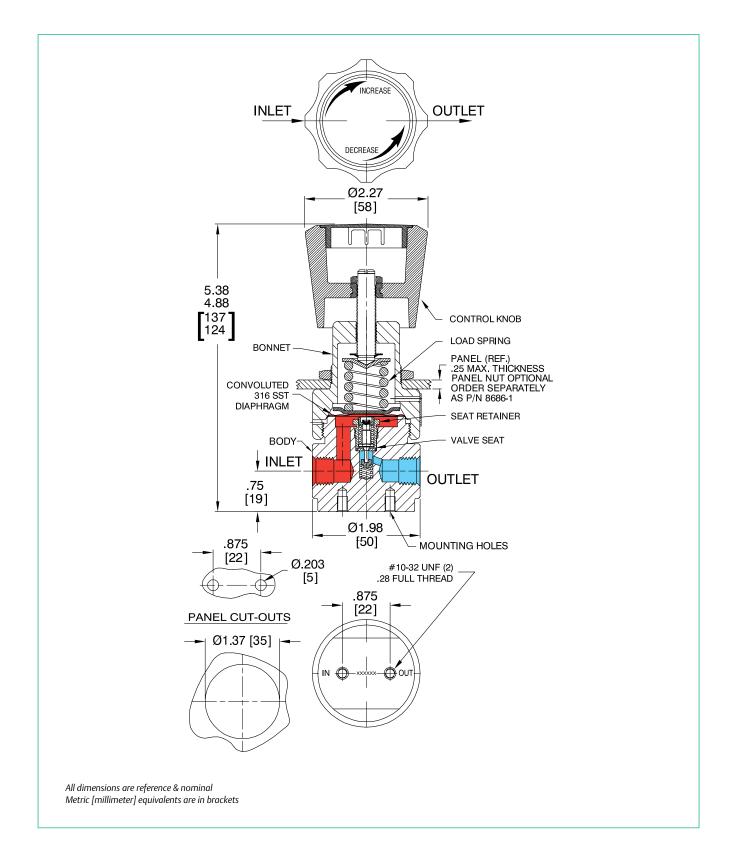
#### Features and Benefits

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

#### D44231774X012



## 44-2300 Series Regulator Drawing

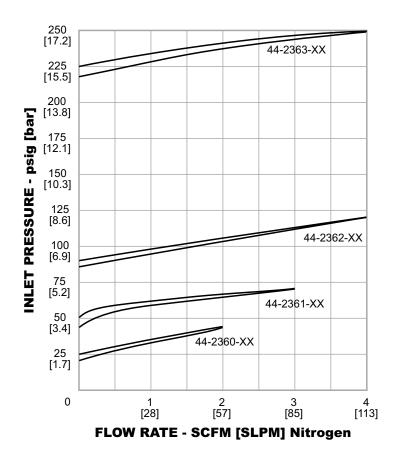


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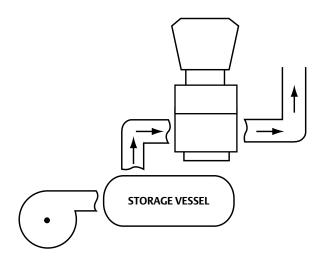


## 44-2300 Series Regulator Flow Chart

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





### 44-2300 Series Regulator Part Number Selector

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

#### Example for selecting a part number:

44-23	6				3	- 2	4
BASIC SERIES	BODY MATERIAL	DIAPHRAGM	SPRING	REMAINING PARTS	CONTROLLED PRESSURE RANGES	INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE
44-23	<b>1</b> – Brass	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	<b>0</b> – 0-25 psig 1.7 bar	<b>2</b> – NPTF	<b>4</b> – 1/4"
	<b>6</b> – 316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	<b>1</b> – 0-50 psig 3.4 bar		
	<b>9</b> – Monel	Elgiloy®	Elgiloy®	Monel	<b>2</b> – 0-100 psig 6.9 bar		
					<b>3</b> – 0-250 psig 17.2 bar		



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