## TESCOM

## 44-4600 Series Regulators - Pressure Reducing

#### D44461776X012

### **Specifications**

For other materials or modifications, please consult TESCOM.

### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Inlet Pressure Range Atmospheric to 400 psig / 27.6 bar

**Outlet Pressure Range** 50 mm Hg absolute - 15 psig / 1.0 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 165°F / -40°C to 74°C

Flow Capacity  $C_V = 0.24$ 

Maximum Operating Torque (handknob) 30 in-lbs / 3.4 N•m

#### MEDIA CONTACT MATERIALS

Body 316 Stainless Steel

Diaphragm 316 Stainless Steel

Seat

Teflon<sup>®</sup>

Spring (main valve) Elgiloy®

Spring (bias) 316 Stainless Steel

Remaining Parts 316 Stainless Steel

#### OTHER

Cleaning CGA 4.1 and ASTM G93 Weight (without gauges) 2.75 lbs / 1.2 kg

Teflon® is a registered trademark of E.I. du Pont Nemours and Company. Elgiloy® is a registered trademark of Elgiloy Corp.



TESCOM 44-4600 Series is an extremely sensitive, high purity, single-stage regulator for specialty, flammable and industrial gases for low pressure and sub-atmospheric pressure control. Diffusion-resistant metal diaphragm seal ensures gas purity and leak integrity.

#### Applications

- Analytical systems
- Sample systems
- Process systems
- Pilot plants
- Calibration

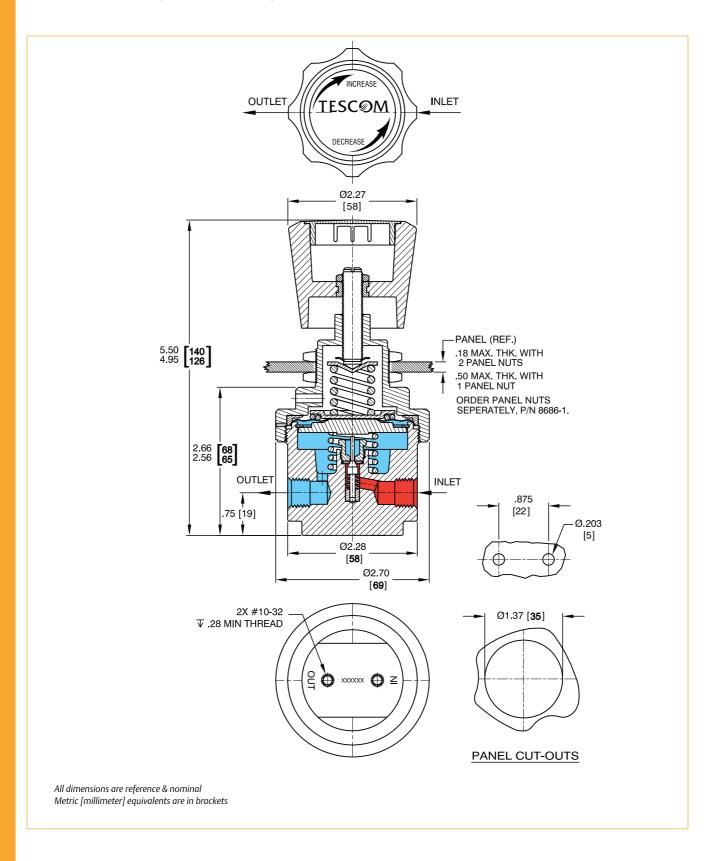
### **Features and Benefits**

- Optional 3500 psig / 241 bar maximum inlet
- Metal-to-metal sealed diaphragm
- Adjustable stop limits maximum outlet pressure
- 316 Stainless Steel construction
- Available in dome or air load



**TESCØM** 

### 44-4600 Series Regulator Drawing

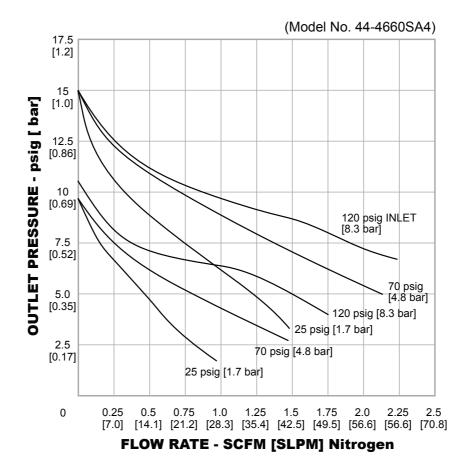




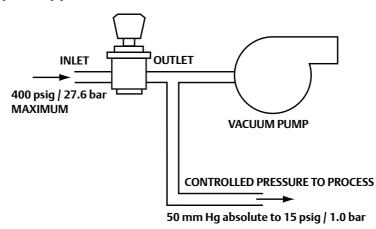
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### 44-4600 Series Regulator Flow Chart

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.



44-4600 Series Typical Application





# TESCOM

## 44-4600 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:

44-46	6	0	S	2	4	- See Number Below
BASIC SERIES	BODY MATERIAL	OUTLET PRESSURE RANGE <sup>1</sup>	SOFT GOODS	INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE	MODIFICATIONS
44-46	<b>6</b> – 316 Stainless Steel	<b>0 –</b> 50 mm Hg absolute - 15 psig / 1.0 bar 1. 28" Hg = 50 mm Hg absolute	s- Teflon®	<b>2</b> – NPTF	<b>4</b> - 1/4"	-001 – One 1/4" gauge port at 90° -002 – Two 1/4" gauge ports at 60° (Spring) -019 – 3500 psig / 241 bar maximum inlet pressure C <sub>V</sub> = 0.06

