

# 44-1800 Series

## Regulators - Pressure Reducing

D44181678X012

### Specifications

For other materials or modifications, please consult TESCOM.

#### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

**Maximum Inlet Pressure**

6000 psig / 414 bar

**Outlet Pressure Range**

0-2500 psig / 0-172 bar

**Design Proof Pressure**

150% maximum rated

**Leakage**

Bubble-tight

**Ambient Operating and Fluid Media Temperature**

-15°F to 165°F / -26°C to 74°C

**Flow Capacity**

**Non-venting:**  $C_v = 0.06$

**Venting:**  $C_v = 0.15$

**Maximum Operating Torque**

25 in-lbs / 2.8 N•m



TESCOM 44-1800 Series piston sensed pressure reducing regulator is available in Brass or 316 Stainless Steel construction with outlet pressures up to 2500 psig / 172 bar.

#### MEDIA CONTACT MATERIALS

**Body**

Brass or 316 Stainless Steel

**Bonnet**

Brass, 300 Series Stainless Steel

**Seat**

Teflon®

**O-Ring**

Viton-A®

**Back-up Ring**

Teflon®

**Remaining Parts**

**Brass Body:** Brass and 300 Series Stainless Steel

**Stainless Body:** 316 Stainless Steel

#### OTHER

**Cleaning**

CGA 4.1 and ASTM G93

**Connections**

1/4" NPTF inlet and outlet, inlet and outlet gauge ports

**Weight (without gauges)**

2 lbs / 0.9 kg

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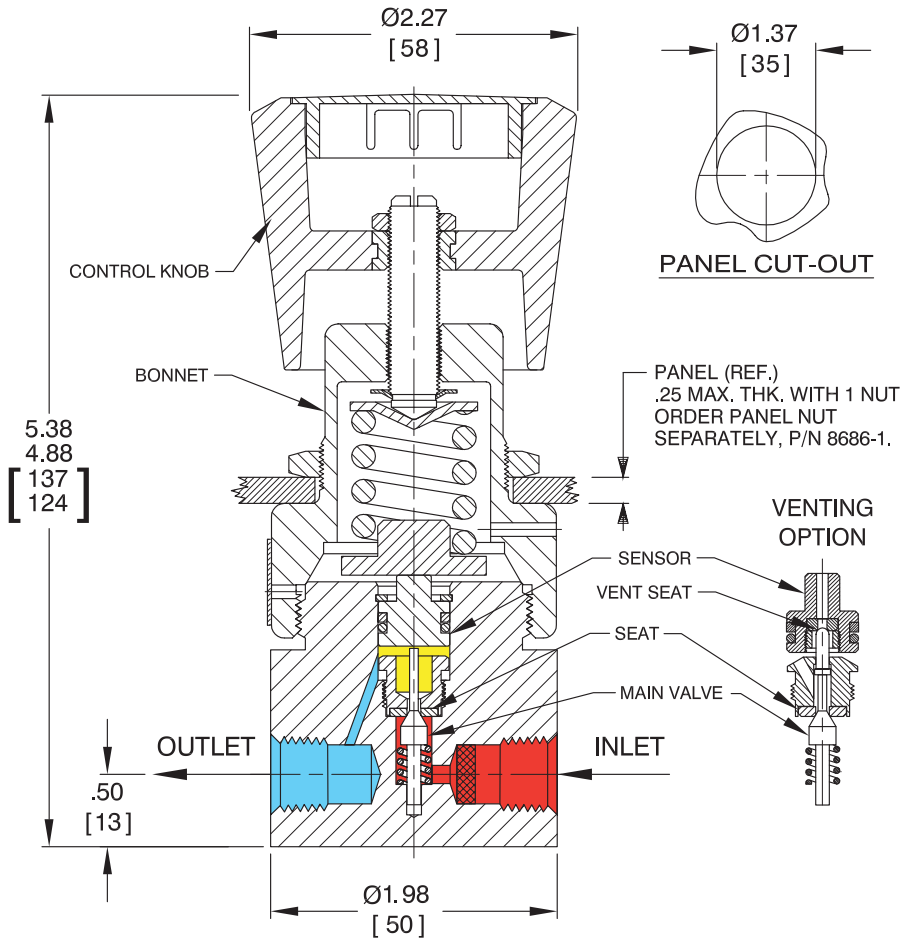
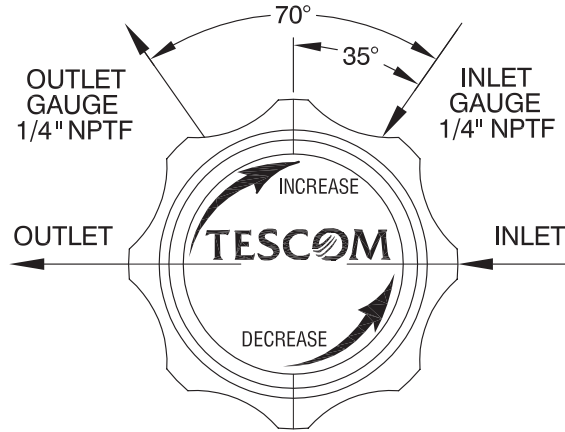
### Applications

- General purpose test stands
- Industrial equipment

### Features and Benefits

- Economical
- Compact design
- Piston sensed design is safe and reliable
- Adjustable stop limits maximum outlet pressure
- Choice of Stainless Steel or Brass construction
- Venting model is available
- Available with a variety of porting and material options

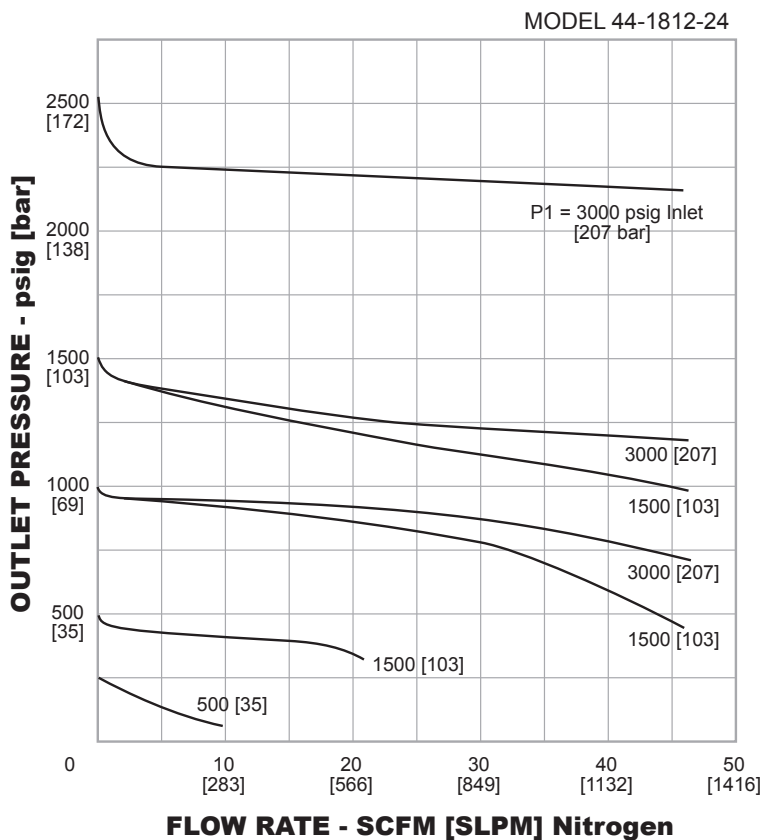
44-1800 Series Regulator Drawing



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

### 44-1800 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).



## 44-1800 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:

44-18	1	2	-	2	4	V
BASIC SERIES	BODY MATERIAL	OUTLET PRESSURE RANGES		INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE	VENTING (OPTIONAL)
44-18	1 – Brass 6 – 316 Stainless Steel 9 – Monel	1 – 0-1500 psig / 0-103 bar 2 – 0-2500 psig / 0-172 bar		2 – NPTF	4 – 1/4"	V – Venting



**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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