

## 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



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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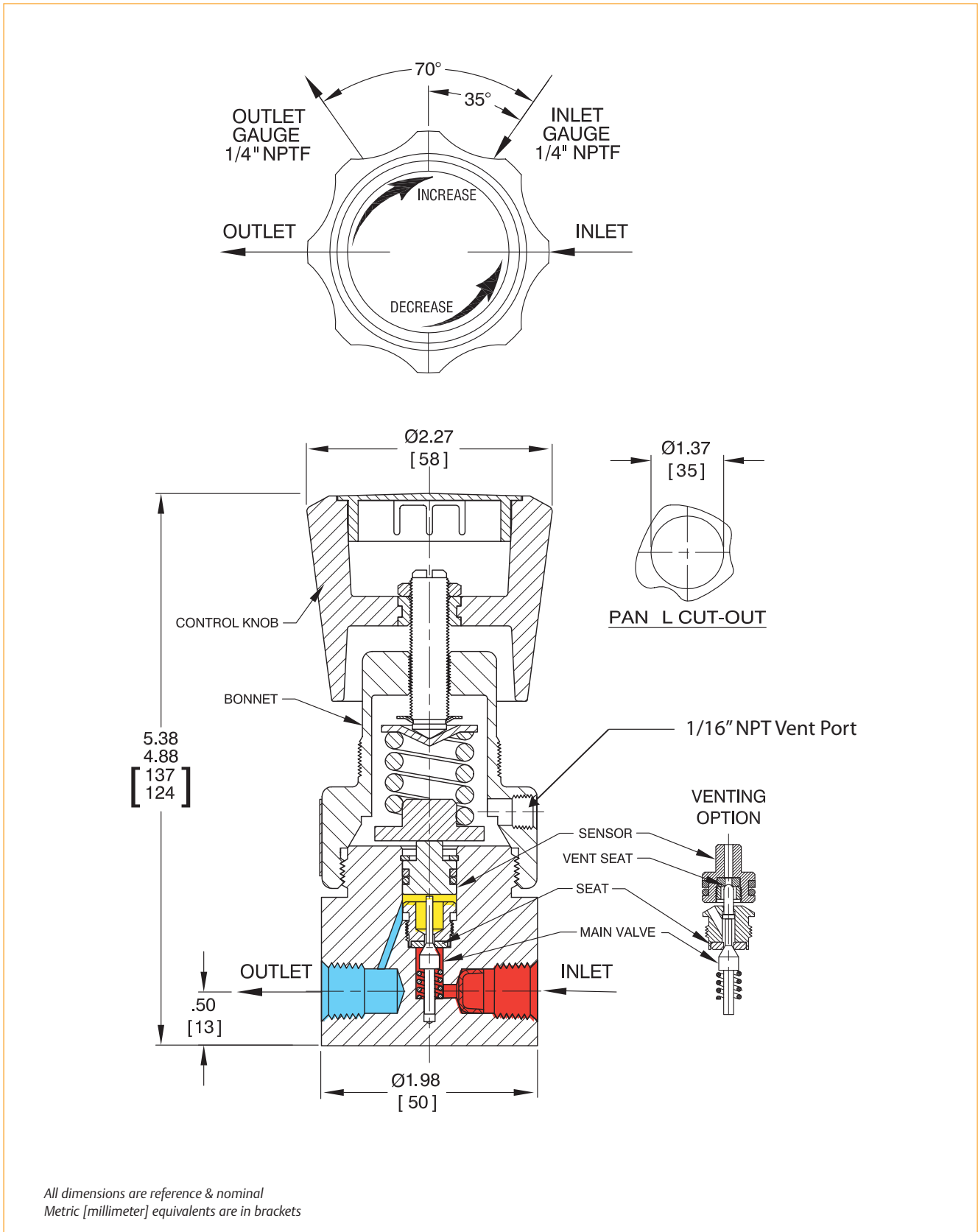
### Applications

- General purpose test stands
- Industrial equipment

### Features and Benefits

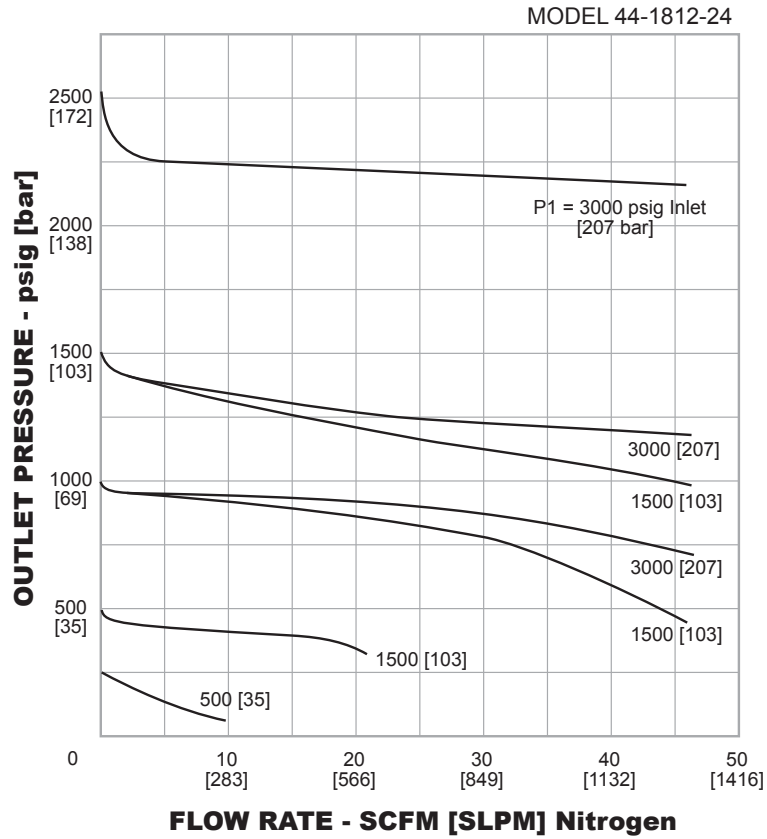
- Economical
- Compact design
- Piston sensed design is safe and reliable
- Adjustable stop limits maximum outlet pressure
- Choice of Stainless Steel or Brass construction
- Venting model is available
- Available with a variety of porting and material options

## 44-1800 Series Regulator Drawing



## 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 ICS 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 ICS Safety, Installation and Operation Precautions.