

# 44-1100 Series

## Regulators - Pressure Reducing

D44110552X012

### Specifications

For other materials or modifications, please consult TESCOM.

#### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

##### Maximum Inlet Pressure

**Stainless Steel:** 10,000 psig / 690 bar

**Brass:** 6000 psig / 414 bar

##### Outlet Pressure Ranges

0-500, 0-800, 10-1500, 15-2500, 25-4000, 50-6000 psig

0-34.5, 0-55.2, 0.69-103, 1.0-172, 1.7-276, 3.4-414 bar

##### Design Proof Pressure

150% maximum rated inlet

##### Leakage

Bubble-tight

##### Operating Temperature

-40°F to 165°F / -40°C to 75°C

##### Flow Capacity

$C_v = 0.06$

##### Maximum Operating Torque

35 in-lbs / 3.95 N•m



TESCOM 44-1100 Series high pressure, low flow venting regulator offers a piston sensed design, control pressures of 6000-10,000 psig / 414-690 bar, a low torque setting and large handknob. Multiple pressure range kits are available.

#### MEDIA CONTACT MATERIALS

##### Body

Brass, 303, or 316 Stainless Steel

##### Filter

**Brass Body:** 40 micron (nominal) - Bronze

**Stainless Steel Body:** 15 micron (nominal) - 316 Stainless Steel

##### Main Valve Seat

Vespe<sup>®</sup>

##### Vent Valve Seat

CTFE

##### O-Rings

Buna-N

##### Back-up Rings

Teflon<sup>®</sup>

##### Remaining Parts

300 Series Stainless Steel

#### OTHER

##### Cleaning

CGA 4.1 and ASTM G93

##### Weight

4.8 lbs / 2.2 kg

Vespe<sup>®</sup> and Teflon<sup>®</sup> are registered trademarks of E.I du Pont de Nemours and Company.

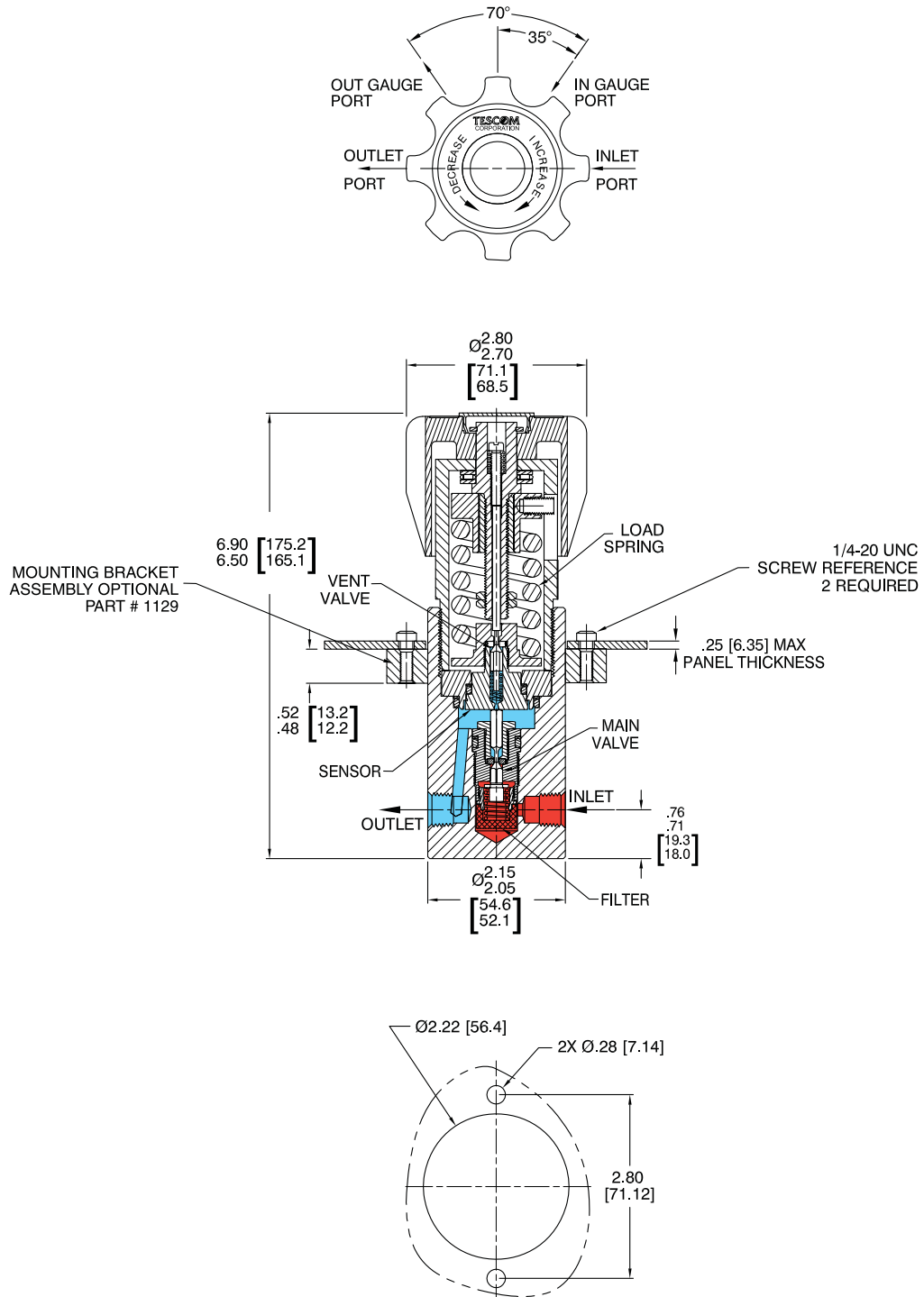
### Applications

- Ground Support Equipment (GSE)
- Support pressure panels
- Aircraft charging carts
- R & D laboratories
- Calibration equipment

### Features and Benefits

- Removable valve assembly module permits easy repair
- Excellent sensitivity through a wide range of pressure settings
- Piston style sensor offers extra safety and reliability
- Unbalanced stem assists positive shutoff
- Inlet and outlet gauge ports are standard
- Venting is standard
- Available in Brass or Stainless Steel
- Regulator vents to zero psig / bar in all pressure ranges
- Numerous modifications are available

44-1100 Series Regulator Drawing

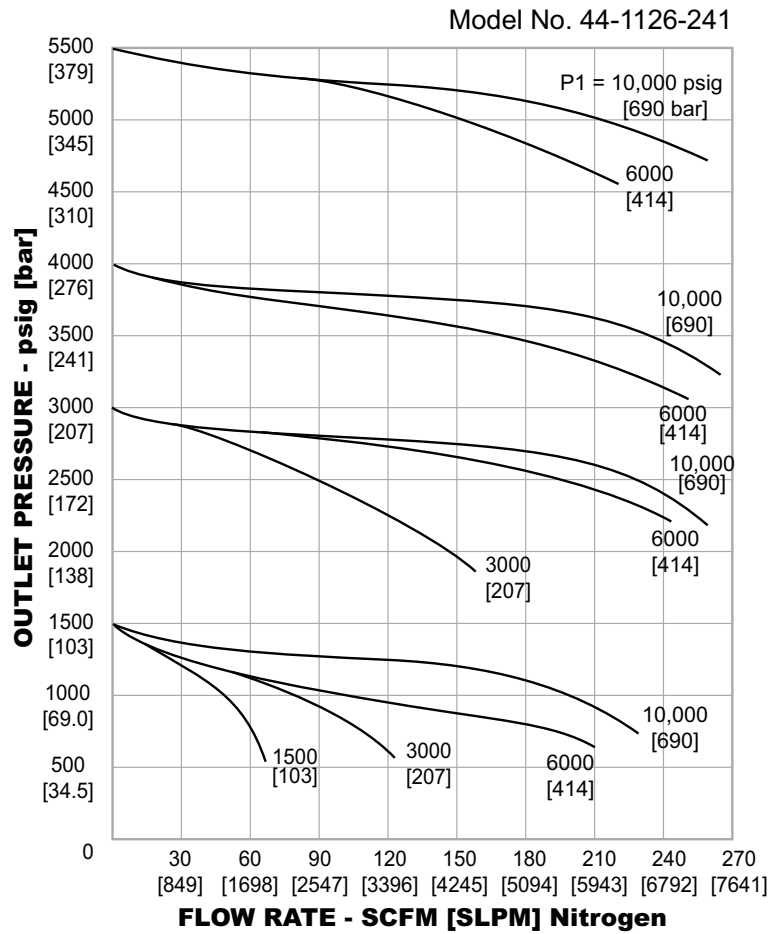
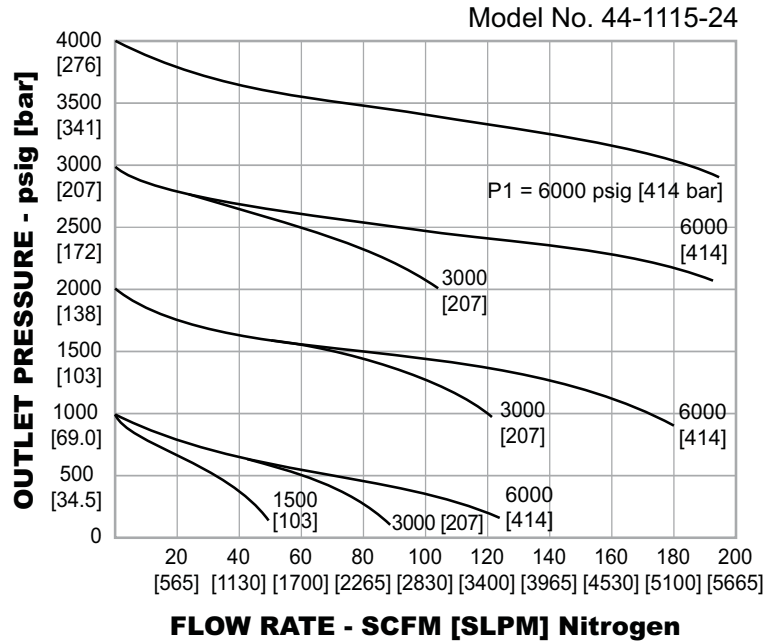


All dimensions are reference & nominal  
Metric [millimeter] equivalents are in brackets

PANEL CUT-OUT

### 44-1100 Series Regulator Flow Charts

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).



## 44-1100 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:

**44-11                    1                    1                    -                    2                    4                    [BLANK]**

BASIC SERIES	BODY MATERIAL	OUTLET PRESSURE RANGE	PORT TYPE	PORT SIZE	OPTIONS
<b>44-11</b>	<b>1</b> – Brass (6000 psig max. inlet) (414 bar max. inlet) <b>2</b> – 303 Stainless Steel (10,000 psig max. inlet) (690 bar max. inlet) <b>6</b> – 316 Stainless Steel (10,000 psig max. inlet) (690 bar max. inlet)	<b>1</b> – 0-500 psig 0-34.5 bar <b>2</b> – 0-800 psig 0-55.2 bar <b>3</b> – 10-1500 psig 0.69-103 bar <b>4</b> – 15-2500 psig 1.0-172 bar <b>5</b> – 25-4000 psig 1.7-276 bar <b>6</b> – 50-6000 psig 3.4-414 bar	<b>2</b> – NPTF	<b>4</b> – 1/4"	<b>[BLANK]</b> – None <b>- 001</b> – Non-Venting, Viton® O-Rings <b>- 002</b> – Non-Venting, Filter Removed <b>- 150</b> – Urethane O-Rings (CO <sub>2</sub> Service)