

# 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

#### 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

VespeI®

##### Vent Valve Seat

CTFE

##### O-Rings

Buna-N

##### Back-up Rings

Teflon®

##### Remaining Parts

300 Series Stainless Steel

#### OTHER

##### Cleaning

CGA 4.1 and ASTM G93

##### Weight

4.8 lbs / 2.2 kg

VespeI® and Teflon® are registered trademarks of E.I du Pont de Nemours and Company.



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.

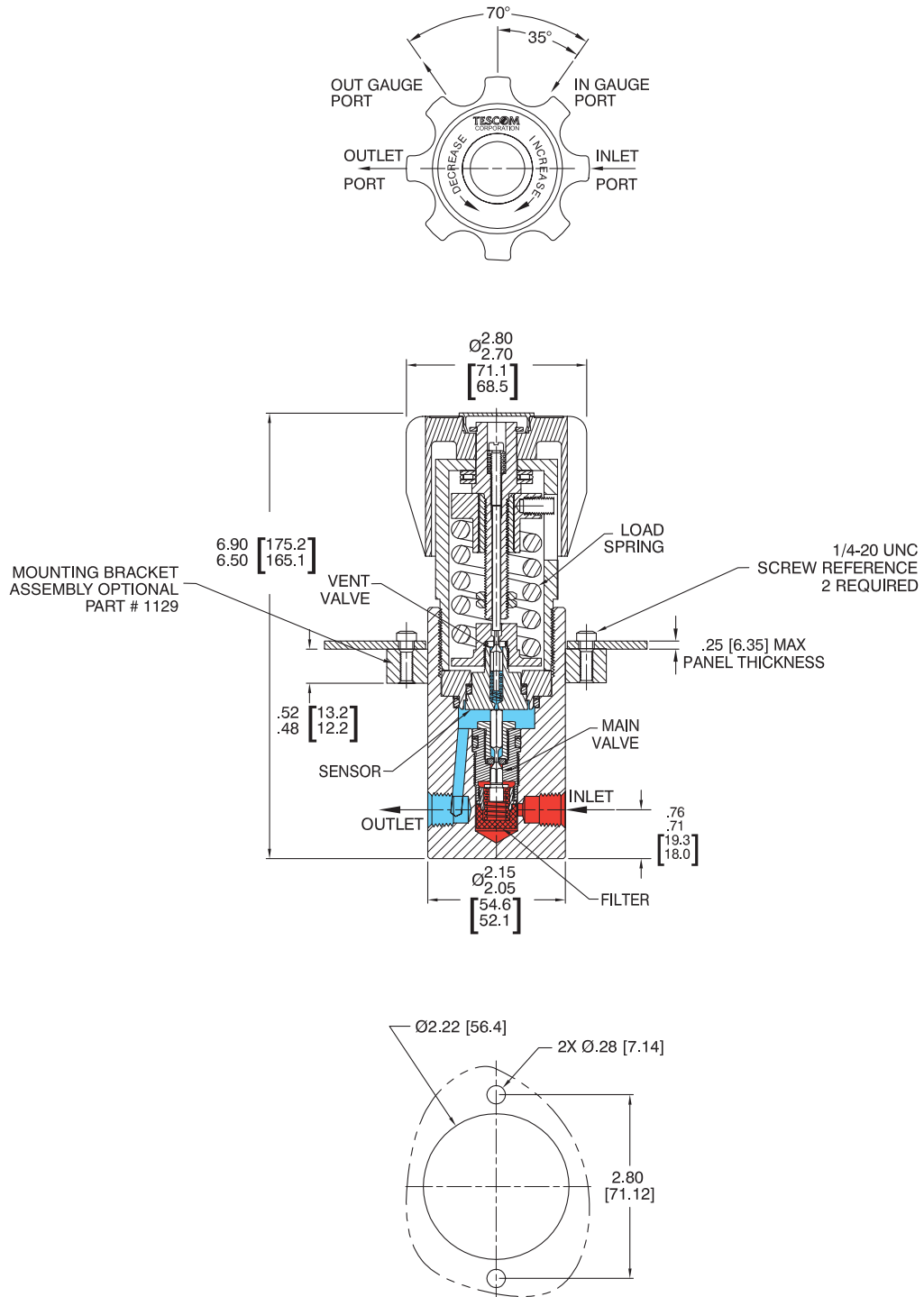
### Applications

- 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**

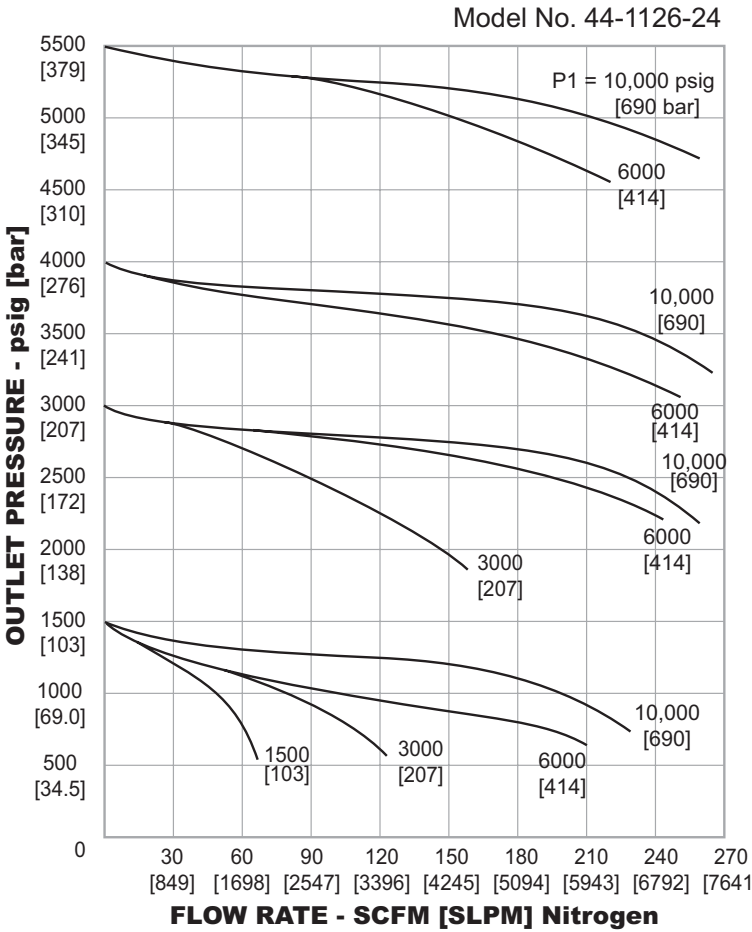
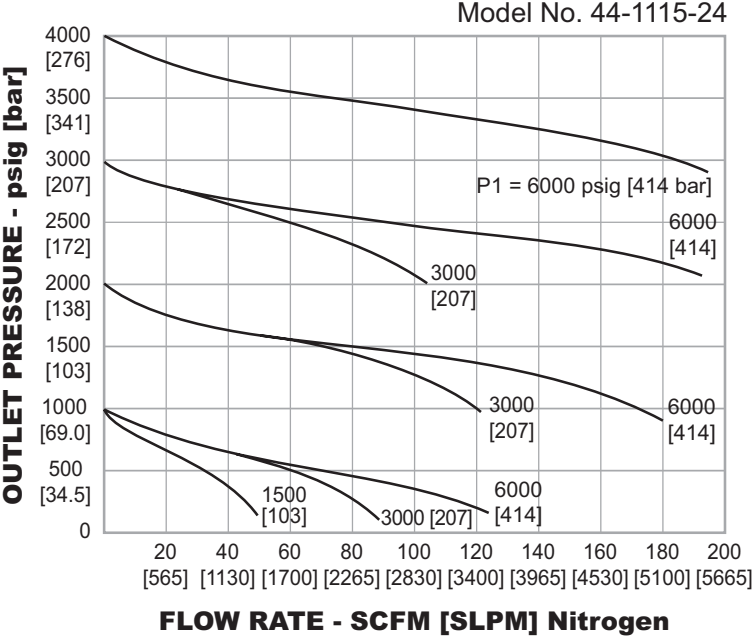


All dimensions are reference & nominal  
Metric [millimeter] equivalents are in brackets

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.



## 44-1100 Series Regulator Part Number Selector

**i Learn more about common options.**

For modifications, repair kits and accessories, contact factory.

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
44-11	<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)

**⚠ 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*.