

### Specifications

For other materials or modifications, please consult TESCO.

#### 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 Stainless Steel, or 316 Stainless Steel

##### Filter

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

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

##### Main Valve Seat

Polyimide (Vespel®)

##### Vent Valve Seat

PCTFE

##### O-Rings

Nitrile, Buna-N

##### Back-up Rings

PTFE

##### Remaining Parts

300 Series Stainless Steel

#### OTHER

##### Cleaning

CGA 4.1 and ASTM G93

##### Weight

4.8 lbs / 2.2 kg

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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

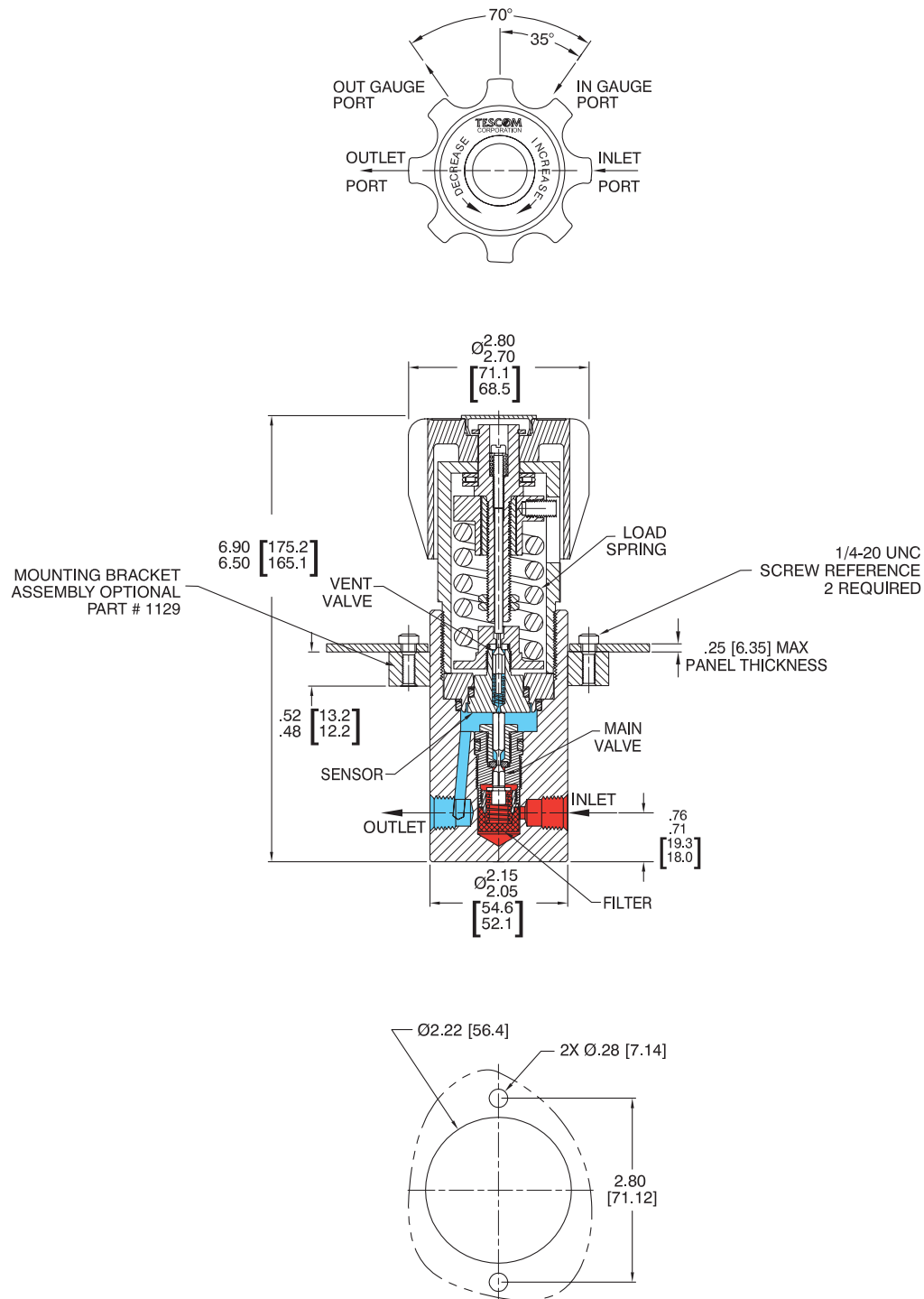
- Ground Support Equipment (GSE)
- Support pressure panels
- Aircraft charging carts
- R & D laboratories
- Calibration equipment

### 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

## 44-1100 Series Regulator Drawing

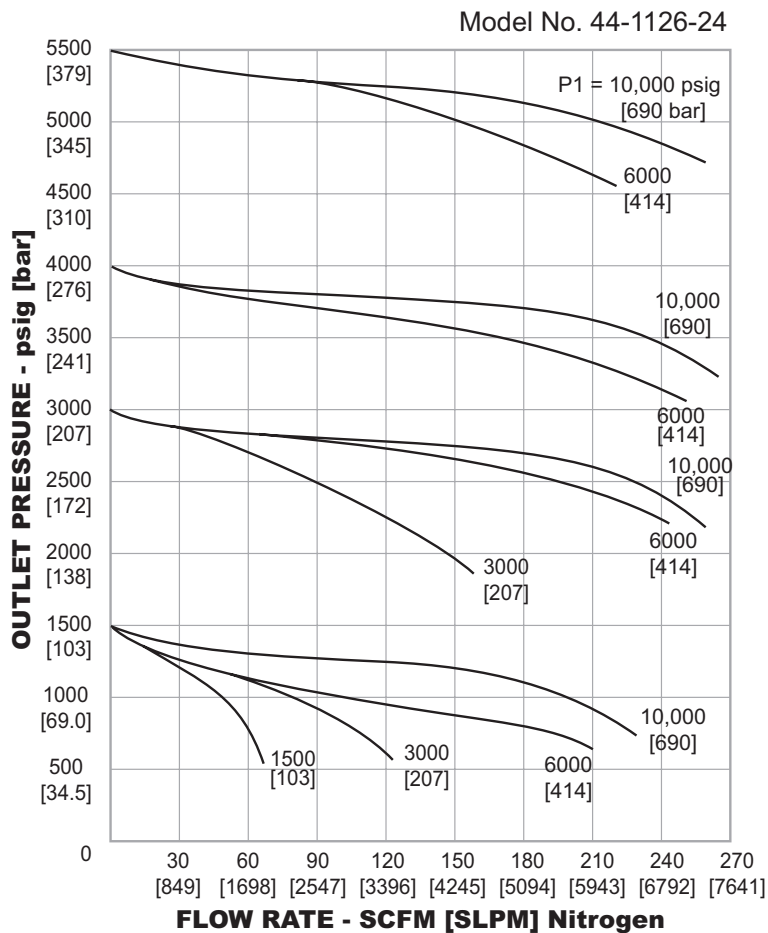
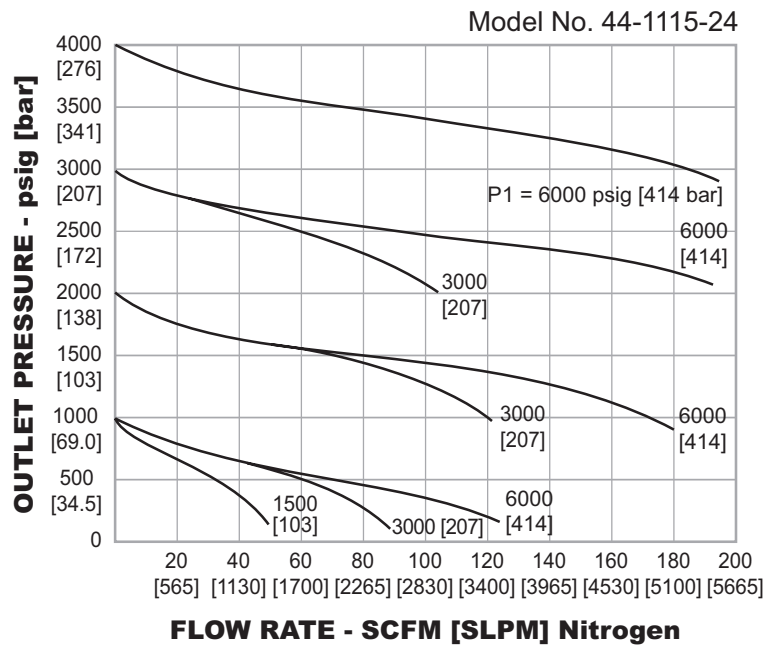


All dimensions are reference & nominal  
Metric [millimeter] equivalents are in brackets

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 TESCO catalog or on [www.tescom.com](http://www.tescom.com).



# 44-1100 Series Regulator Part Number Selector

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