

### 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

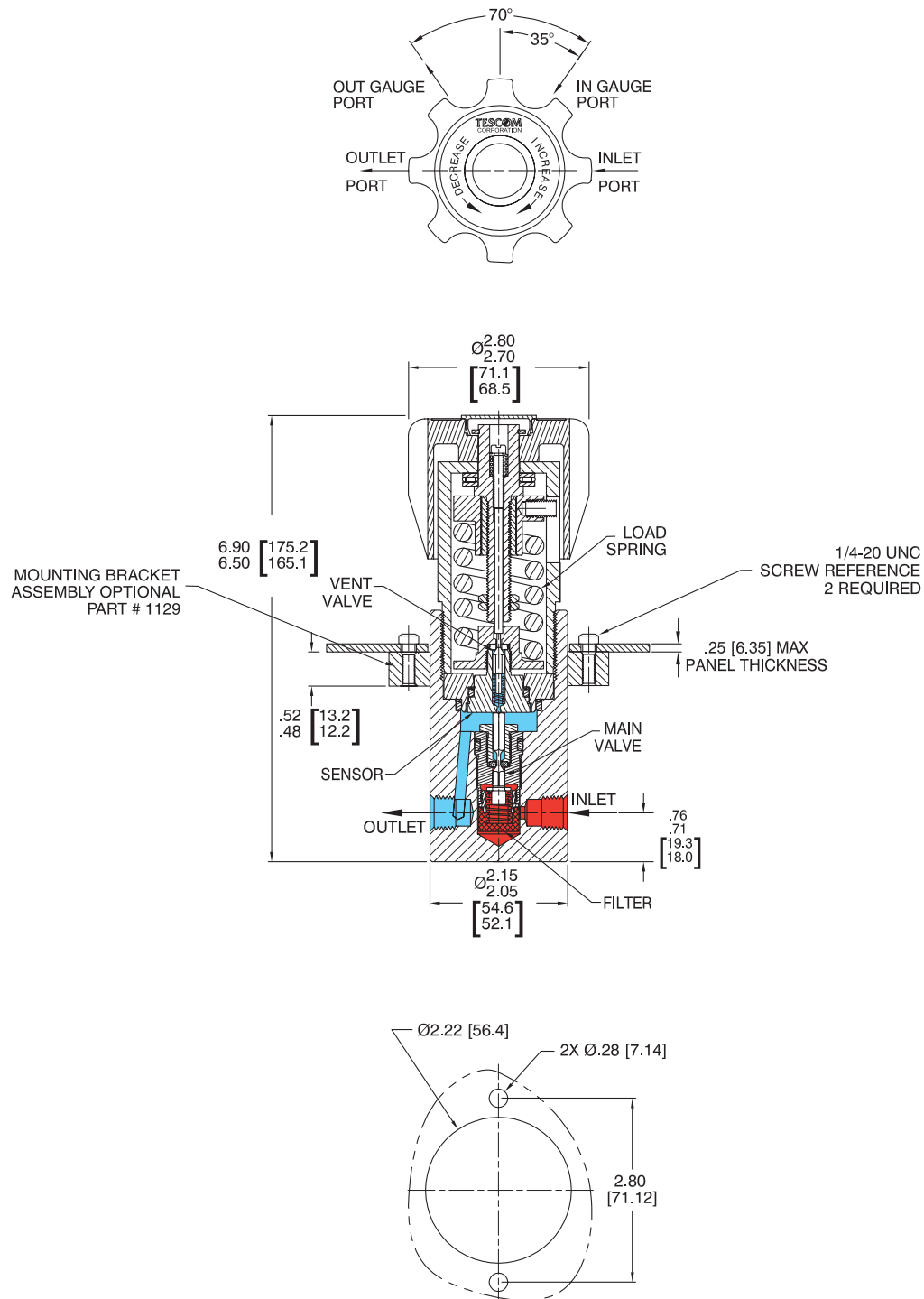
- Ground Support Equipment (GSE)
- Support pressure panels
- Aircraft charging carts
- R & D laboratories
- Calibration equipment

### 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

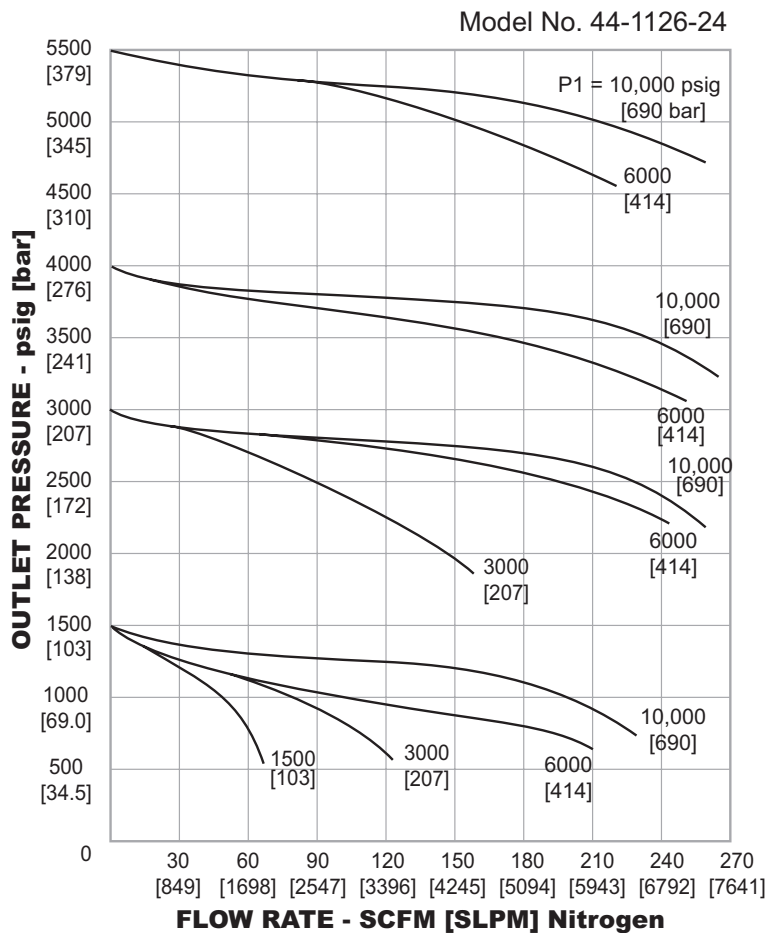
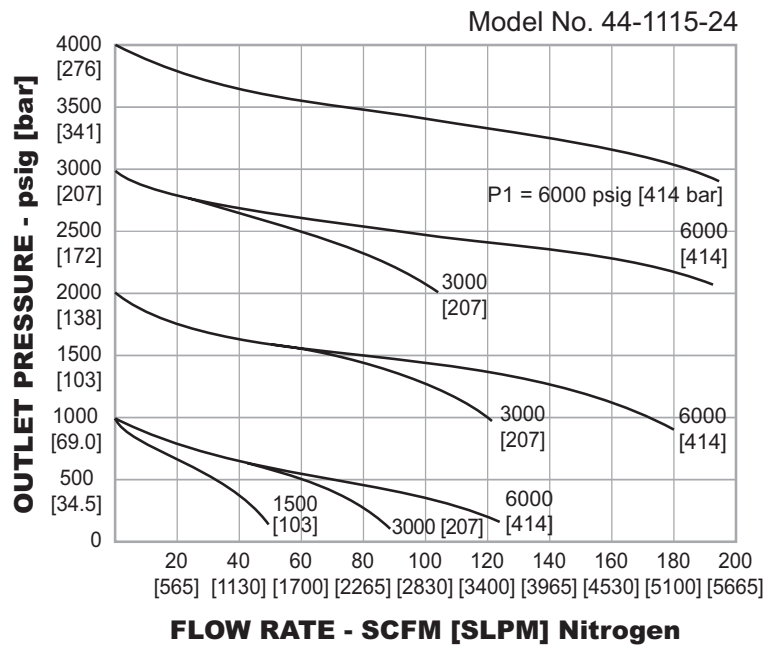


All dimensions are reference & nominal  
Metric [millimeter] equivalents are in brackets

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