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 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

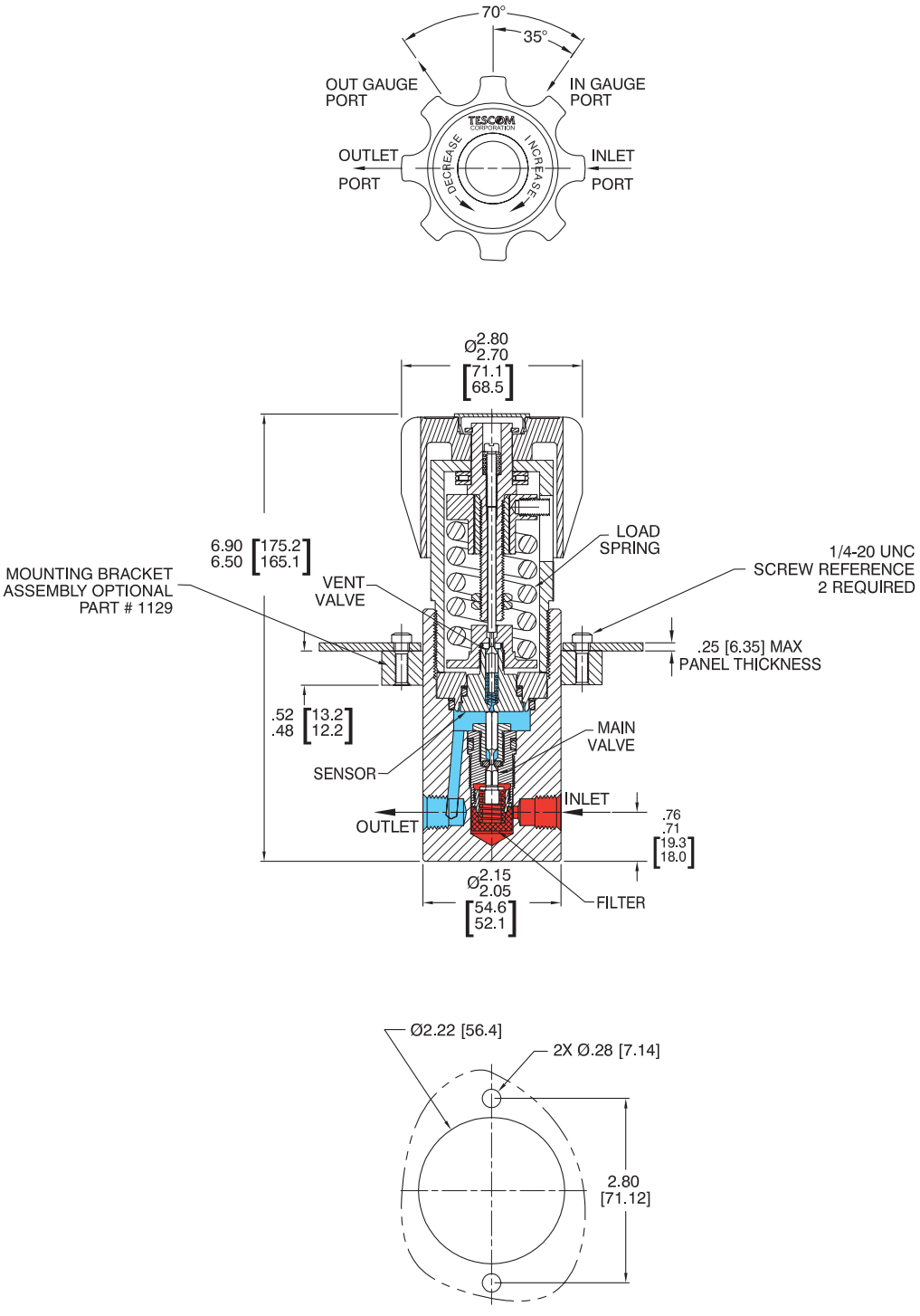
- Ground Support Equipment (GSE)
- Support pressure panels
- Aircraft charging carts
- R & D laboratories
- Calibration equipment

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

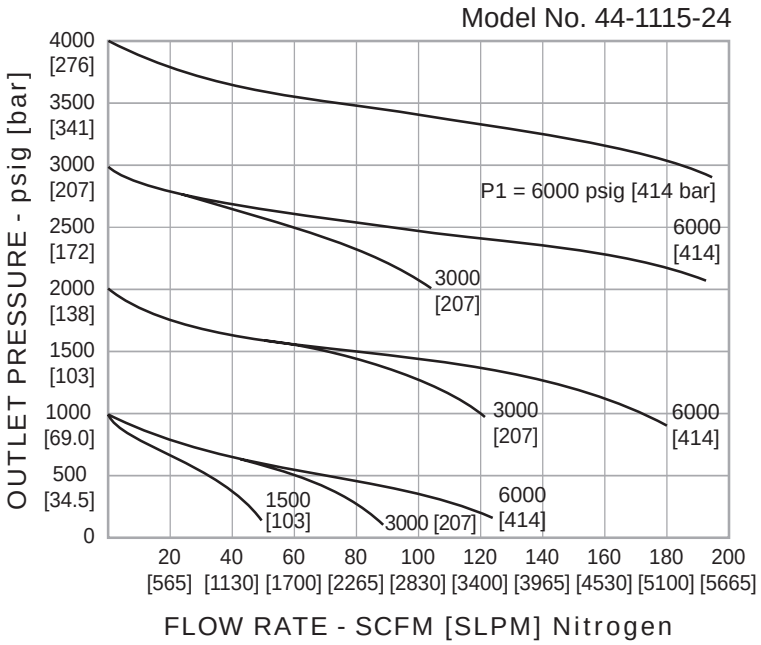


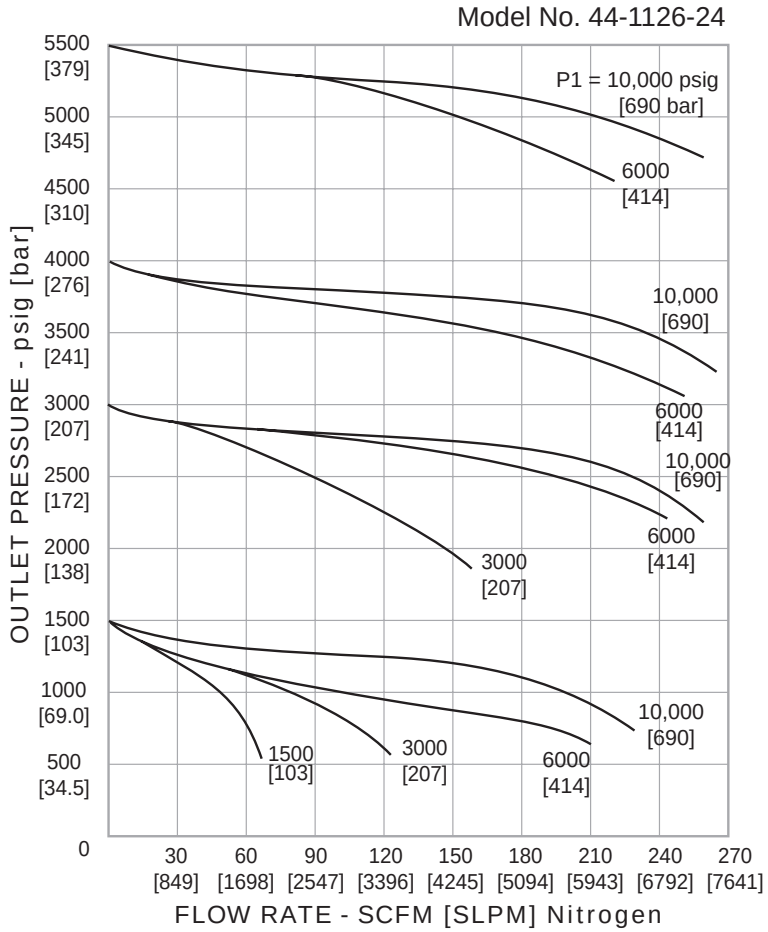
All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

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 TESCOM catalog or on 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_2 Service)