

44-2200 Series

Regulators - Pressure Reducing

D44221731X012

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure
400, 3500 psig 27.6, 241 bar
Outlet Pressure Ranges
0-25, 0-50, 0-100, 0-250, 0-500 psig 0-1.7, 0-3.4, 0-6.9, 0-17.2, 0-34.5 bar
Design Proof Pressure
150% maximum rated
Leakage
Internal: Bubble-tight
External: Design to meet $\leq 2 \times 10^{-8}$ atm cc/sec He
Operating Temperature
-40°F to 165°F / -40°C to 74°C
Flow Capacity
3500 psig / 241 bar Inlet: $C_v = 0.06$
400 psig / 27.6 bar Inlet: $C_v = 0.15$
Maximum Operating Torque
30 in-lbs / 3.4 N•m
Decaying Inlet Characteristic
$C_v = 0.15$
1.2 psig / 100 psig 0.08 bar / 6.9 bar
$C_v = 0.06$
0.75 psig / 100 psig 0.05 bar / 6.9 bar

MEDIA CONTACT MATERIALS
Body
316L Stainless Steel, Brass, Hastelloy®* or Monel
Bonnet
300 Series Stainless Steel, Brass
Diaphragm
316 Stainless Steel, Elgiloy®
Seat
Teflon®
Remaining Parts
316 Stainless Steel, Brass, Hastelloy®* or Monel

OTHER
Cleaning
CGA 4.1 and ASTM G93
Internal Volume
6 cc
Weight (without gauges)
2 lbs / 0.9 kg

Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.
Hastelloy® is a registered trademark of Haynes International, Inc.
Elgiloy® is a registered trademark of Elgiloy Corp.

*Material to be Hastelloy® or equivalent per ASTM B 574



TESCOM 44-2200 Series is a compact, lightweight high purity single-stage regulator for specialty, flammable, and industrial gas flows of less than 5 SCFM / 141 SLPM. Its diffusion-resistant metal diaphragm seal ensures gas purity and integrity.

Applications

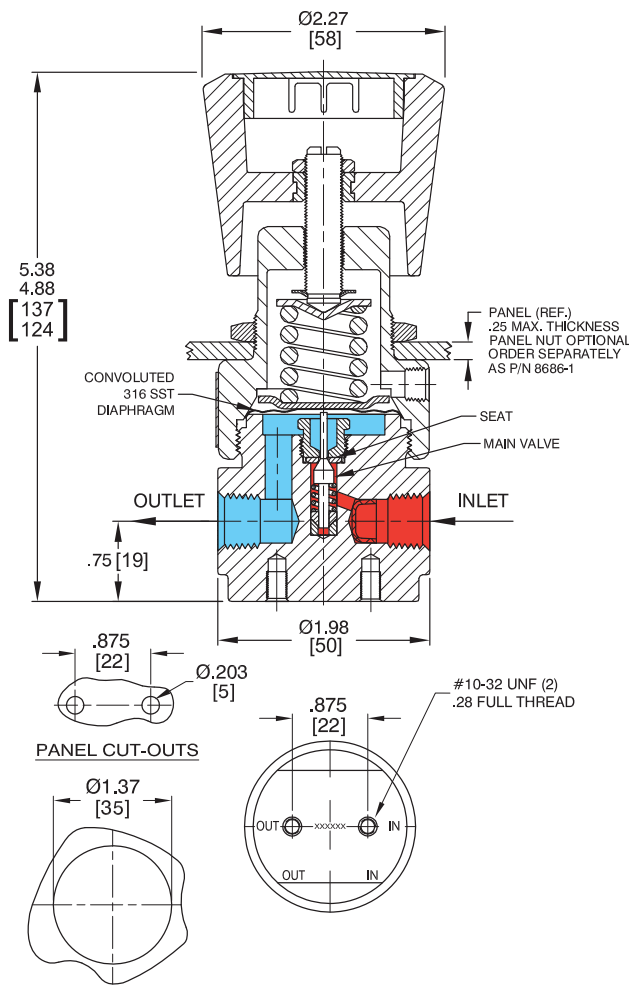
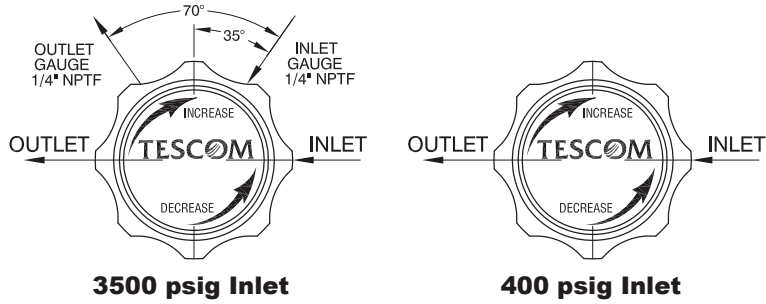
- Laboratory and point-of-use gas systems
- Sampling systems, zero, span and calibration analyzer gases
- Specialty and industrial gas cylinder regulator
- Chromatograph flame detector fuel supply

Features and Benefits

- Compact
- Designed to minimize contamination and provide accurate regulation of any corrosive, non-corrosive, or toxic gas
- Brass model provides added economy for control of non-corrosive media
- Metal-to-metal diaphragm to body seal ensures minimum inboard and outboard leakage
- Convoluted diaphragm delivers excellent accuracy and long service life
- Panel mounting is available
- 300 Series Stainless Steel or Brass bonnet
- NACE compliant designs are available

44-2200 Series Regulator Drawing

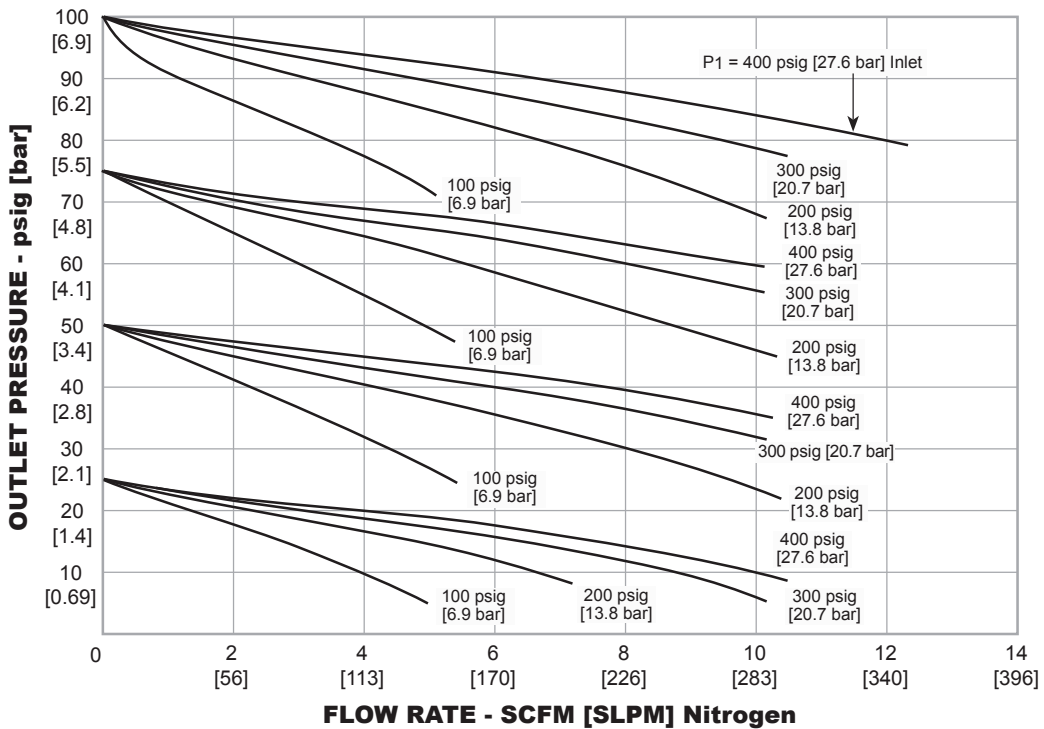
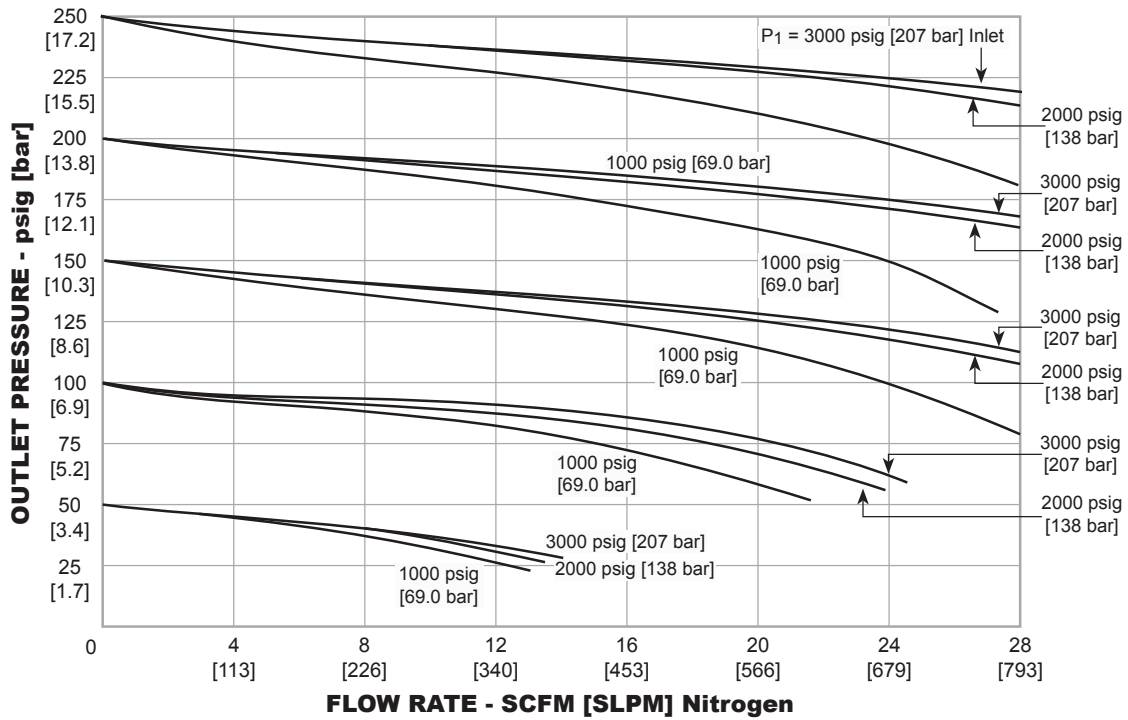
PORTING CONFIGURATION



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

44-2200 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.



44-2200 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:

44-22 6 0 - 2 4 1

BASIC SERIES	BODY MATERIAL	OUTLET PRESSURE RANGES	INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE	INLET PRESSURE	FLOW CAPACITY	MODIFICATIONS
44-22	1 – Brass	0 – 0-25 psig 0-1.7 bar	2 – NPTF	4 – 1/4"	1 – 3500 psig 241 bar	C _v = 0.06	-010 – Outlet gauge port at 90° -115 – High temperature (400°F / 205°C) -118 – Hydraulic service outlet gauge ports at 70°
	5 – Hastelloy®	1 – 0-50 psig 0-3.4 bar			2 – 400 psig 27.6 bar	C _v = 0.15	
	6 – 316L Stainless Steel	2 – 0-100 psig 0-6.9 bar			See porting configuration		
	9 – Monel	3 – 0-250 psig 0-17.2 bar					
		4 – 0-500 psig 0-34.5 bar					
		<i>(with 3500 psig / 241 bar inlet only)</i>					