## **Specifications**

For other materials or modifications, please consult TESCOM.

#### **OPERATING PARAMETERS** *Pressure rating per criteria of ANSI/ASME B31.3*

Maximum Inlet Pressure 3500 psig / 241 bar

**Outlet Pressure Ranges** 0-25, 0-50, 0-100, 0-150, 0-250 psig 0-1.7, 0-3.4, 0-6.9, 0-10.3, 0-17.2 bar

**Design Outlet Proof Pressure** 150% of maximum rated pressure

**Operating Temperature** -40°F to 165°F / -40°C to 74°C

Flow Capacity

 $C_V = 0.05$ Leakage Internal: Bubble-tight External: Design to meet  $\leq 2 \times 10^{-8}$  atm cc/sec He

Maximum Operating Torque 10 in-lbs / 1.0 N•m

Decaying Inlet Characteristic 0.04 change: 100 psig / 6.9 bar inlet

#### MEDIA CONTACT MATERIALS

Body

316 Stainless Steel, Brass or Monel

Bonnets 300 Series Stainless Steel or Brass

**Diaphragms** 316 Stainless Steel or Elgiloy<sup>®</sup>

Seats Teflon®

Friction Sleeve (inner) Teflon<sup>®</sup>

Remaining Parts

316 Stainless Steel and Brass (for Brass models)

#### OTHER

Connections

1/4" NPTF inlet, outlet and gauge port

Cleaning

CGA 4.1 and ASTM G93

#### Weight (without gauges) 3 lbs / 1.4 kg

5 103 / 1.4 Kg

Elgiloy® is a registered trademark of Elgiloy Corp. Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.



TESCOM 44-3400 Series is a compact, lightweight high purity two-stage cylinder regulator for specialty, corrosive and pyrophoric gases less than 5 SCFM / 141 SLPM. Diffusion-resistant metal-to-metal diaphragm seal ensures gas purity and integrity.

# Application

• High pressure gas cylinders for specialty and industrial gases used with analyzers, lasers, and laboratory applications

## **Features and Benefits**

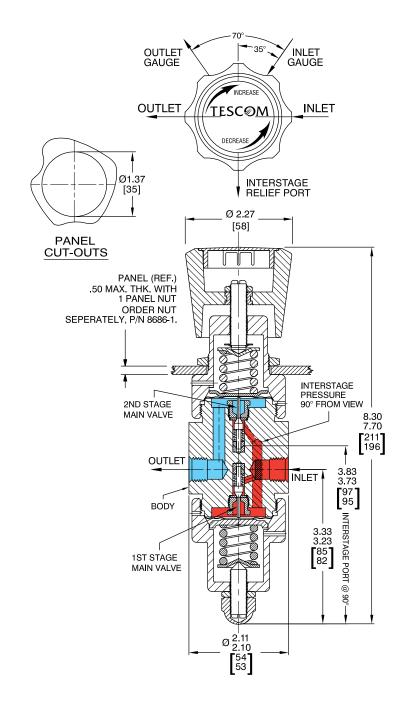
- Provides a continuous, accurate outlet pressure regardless of inlet pressure fluctuations
- Offers a decaying inlet characteristic of 0.04 psig / 3 mbar per 100 psig / 6.9 bar change in inlet pressure
- Features a unique metal-to-metal diaphragm to body seal
- Diaphragms are convoluted for greater accuracy and sensitivity
- Available in 316 Stainless Steel, Brass or Monel
- NACE compliant designs are available





**TESC**ØM

# 44-3400 Series Regulator Drawing



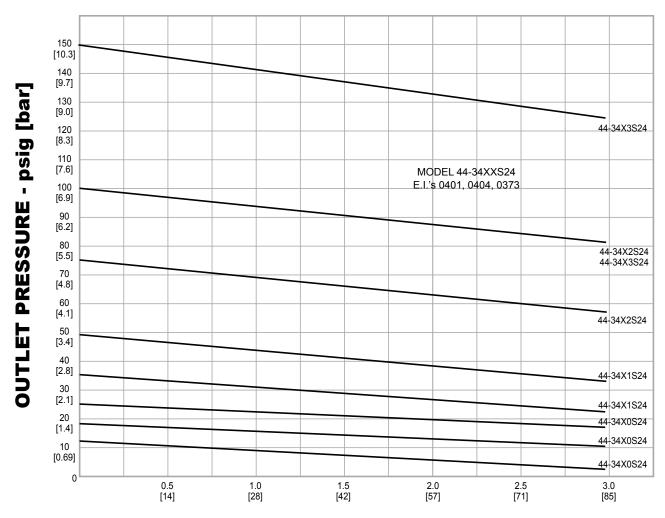
All dimensions are reference & nominal Metric [millimeter] equivalents are in brackets



# TESC@M<sup>®</sup>

# 44-3400 Series Regulator Flow Chart

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.



FLOW RATE - SCFM [SLPM] Nitrogen



# TESCØM

# 44-3400 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:

44-34	6 MATERIALS					2	S	2	4
BASIC SERIES									
	BODY	DIAPHRAGM	SPRING	FRICTION SLEEVE (OUTER)	REMAINING PARTS	OUTLET PRESSURE RANGES	SEAT	INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE
44-34	<ul> <li>1 – Brass</li> <li>6 – 316 Stainless Steel</li> <li>9 – Monel</li> </ul>	316 Stainless Steel 316 Stainless Steel Elgiloy®	316 Stainless Steel 316 Stainless Steel Elgiloy®	316 Stainless Steel 316 Stainless Steel Teflon®	316 Stainless Steel/Brass 316 Stainless Steel Monel	<ul> <li>0 - 0 to 25 psig 0 to 1.7 bar</li> <li>1 - 0 to 50 psig 0 to 3.4 bar</li> <li>2 - 0 to 100 psig 0 to 6.9 bar</li> <li>3 - 0 to 150 psig 0 to 10.3 bar</li> <li>4 - 0 to 250 psig 0 to 17.2 bar</li> </ul>	S – Teflon®	<b>2 –</b> NPTF	<b>4</b> – 1/4"



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.

D44341802X012 © 2012 Emerson Process Management Regulator Technologies, Inc. All rights reserved. 05/2012. Tescom, Emerson Process Management, and the Emerson Process Management design are marks of one of the Emerson Process Management group of companies. All other marks are the property of their respective owners.



