## **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®

## Seats

Teflon®

#### Friction Sleeve (inner)

Teflon®

## **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

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

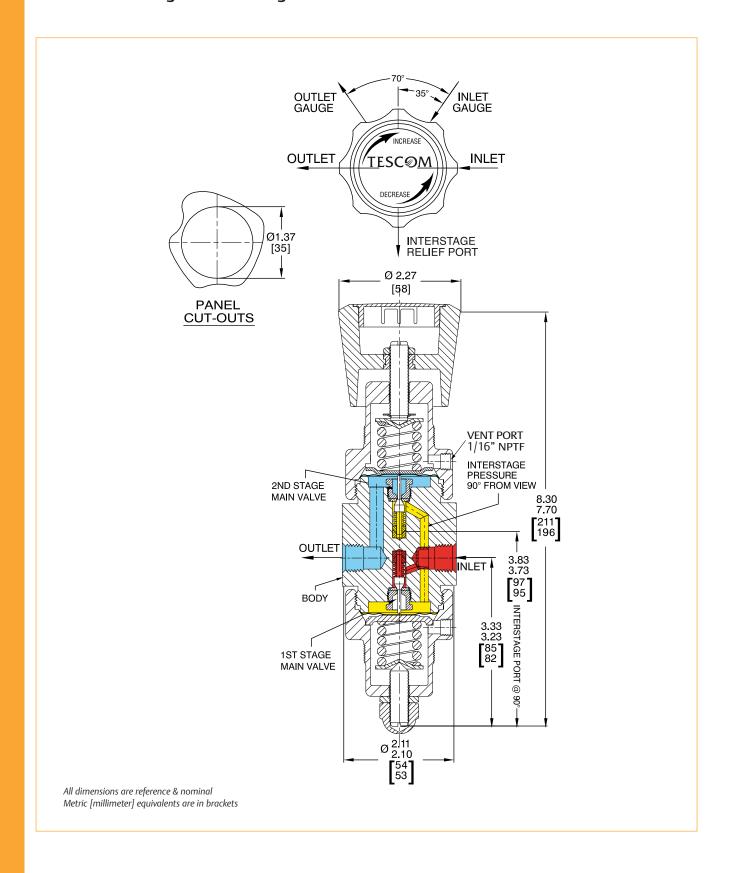






# **TESCOM**

# 44-3400 Series Regulator Drawing

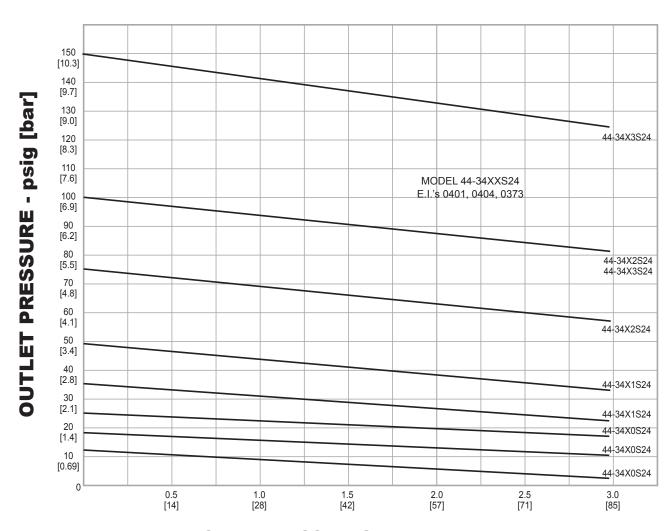






# 44-3400 Series Regulator Flow Chart

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





## 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 2 S 2 4

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

 $\triangle$ 

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.

