

## Specifications

For other materials or modifications, please consult TESCO M.

### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

#### Maximum Inlet Pressure

3000 psig / 207 bar

#### Outlet Pressure Ranges

0-25, 0-50, 0-100 and 0-150 psig  
0-1.7, 0-3.4, 0-6.9 and 0-10.3 bar

#### Design Proof Pressure

150% maximum rated

#### Leakage

**Internal:** Bubble-tight

**External:** Design to meet  $< 2 \times 10^{-8}$  atm cc/sec He

#### Operating Temperature

-40°F to 140°F / -40°C to 60°C

#### Flow Capacity

$C_v = 0.05$

#### Maximum Operating Torque

30 inch-lbs / 3.4 N•m

### MEDIA CONTACT MATERIALS

#### Body

316 Stainless Steel

#### Bonnet

316 Stainless Steel

#### Diaphragm

316 Stainless Steel

#### Seat

PCTFE (1st stage), PFA (2nd stage)

#### Friction Sleeves

**Outer:** 316 Stainless Steel

**Inner:** PTFE

#### Remaining Parts

316 Stainless Steel

### OTHER

#### Connections

1/4" NPTF

#### Cleaning

CGA 4.1 and ASTM G93

#### Weight (without gauges)

3 lbs / 1.4 kg



TESCOM PS-3400 Series is a compact high purity two-stage cylinder regulator with tied diaphragms for low flows of toxic, flammable and pyrophoric gases. Diffusion-resistant metal diaphragm seal ensures gas purity and integrity.

### Application

- For toxic, corrosive and pyrophoric cylinder gases

### Features and Benefits

- Excellent decaying inlet characteristic: 0.06/100 psig or 0.004/6.9 bar inlet change
- Positive seal design
- Captured bonnet ports
- Both diaphragms are convoluted for greater accuracy and sensitivity
- Metal-to-metal diaphragm to body seal to minimize diffusion
- Diaphragm-to-valve link enhances seat sealing integrity

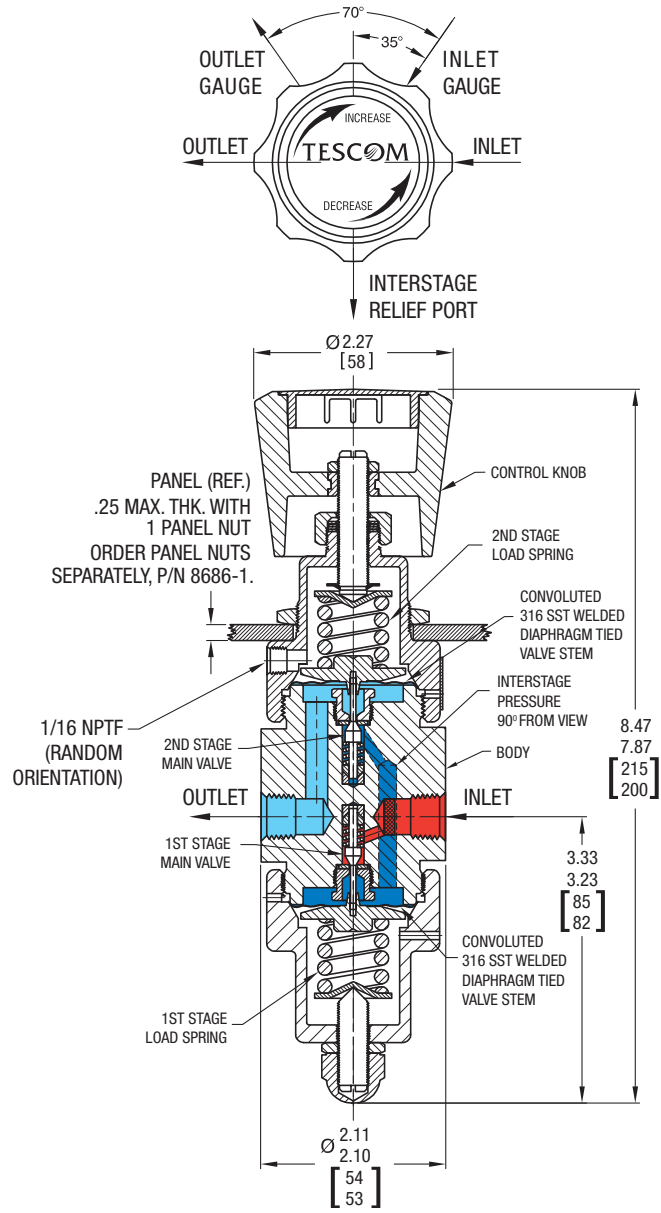
### NOTE:

When choosing a regulator and control pressure, decaying inlet characteristic must be considered when the supply pressure is expected to change. The decaying inlet characteristic of a pressure reducing regulator is commonly known as the increase in control pressure due to the decrease in supply pressure. It is important to make sure this effect does not cause the control pressure to exceed the pressure rating of the unit's outlet or that of the downstream system.

For more information on decaying inlet, please refer to the Technical Information section of the product catalog and/or contact the TESCO M customer support further assistance.

# PS-3400 SERIES

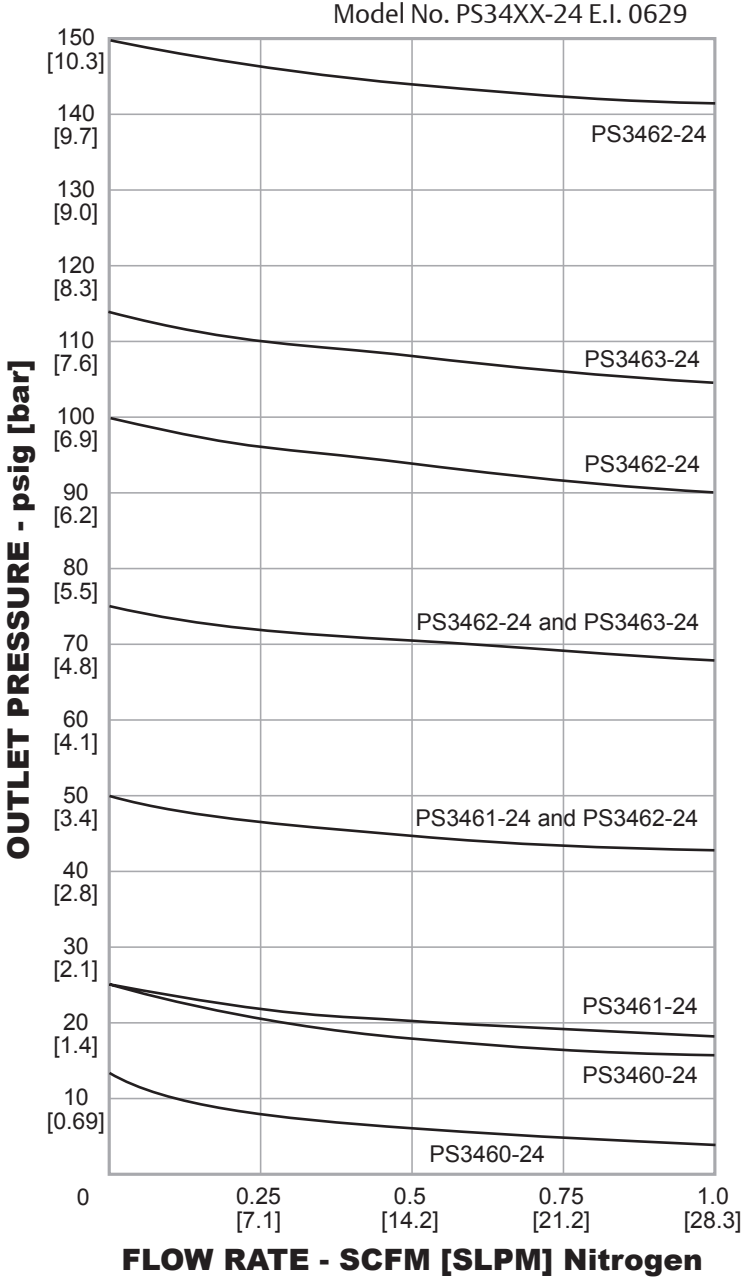
## PS-3400 Series Regulator Drawing



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

PS-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.



# PS-3400 SERIES

## PS-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:

PS34	6	0	2	4
BASIC SERIES	BODY MATERIAL	OUTLET PRESSURE RANGES	INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE
PS34	6 – 316 Stainless Steel	0 – 0-25 psig 0-1.7 bar 1 – 0-50 psig 0-3.4 bar 2 – 0-100 psig 0-6.9 bar 3 – 0-150 psig 0-10.3 bar	2 – NPTF	4 – 1/4"