

# PS-3400 Series

## Regulators - Pressure Reducing

DPS341793X012

### Specifications

For other materials or modifications, please consult TESCO.

#### 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

**Decaying Inlet Characteristic**

0.06 change / 100 psig inlet  
0.004 change / 6.9 bar inlet

#### MEDIA CONTACT MATERIALS

**Body**

316 Stainless Steel

**Bonnet**

316 Stainless Steel

**Diaphragm**

316 Stainless Steel

**Seat**

CTFE (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.

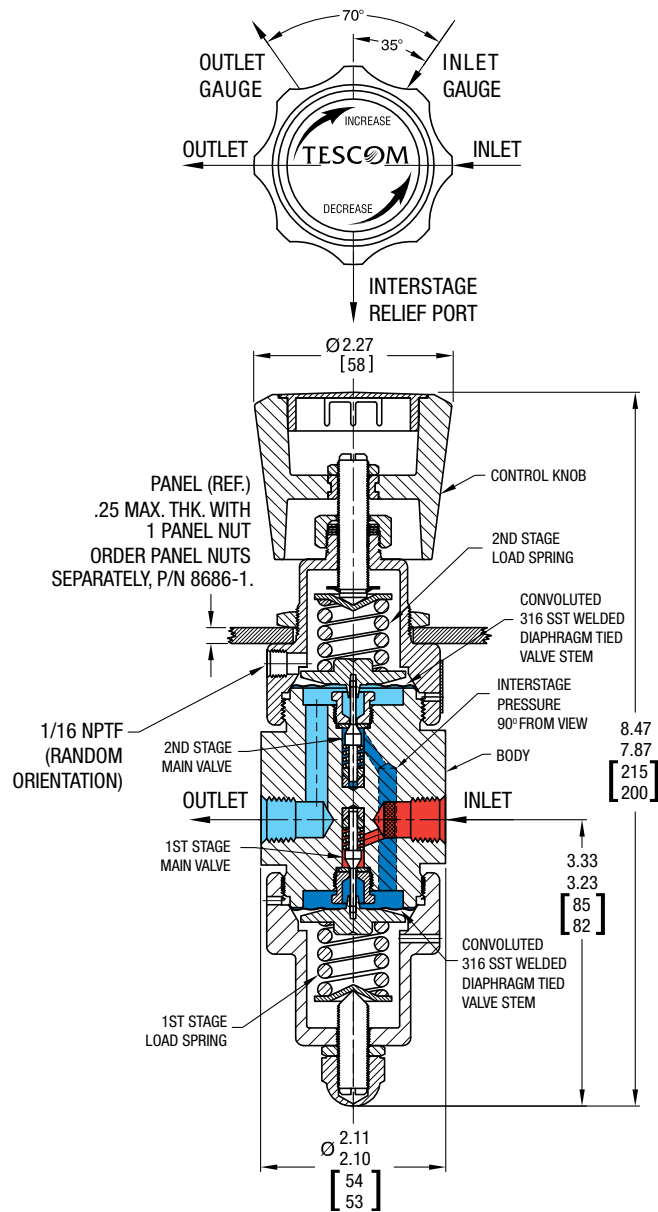
### Application

- 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

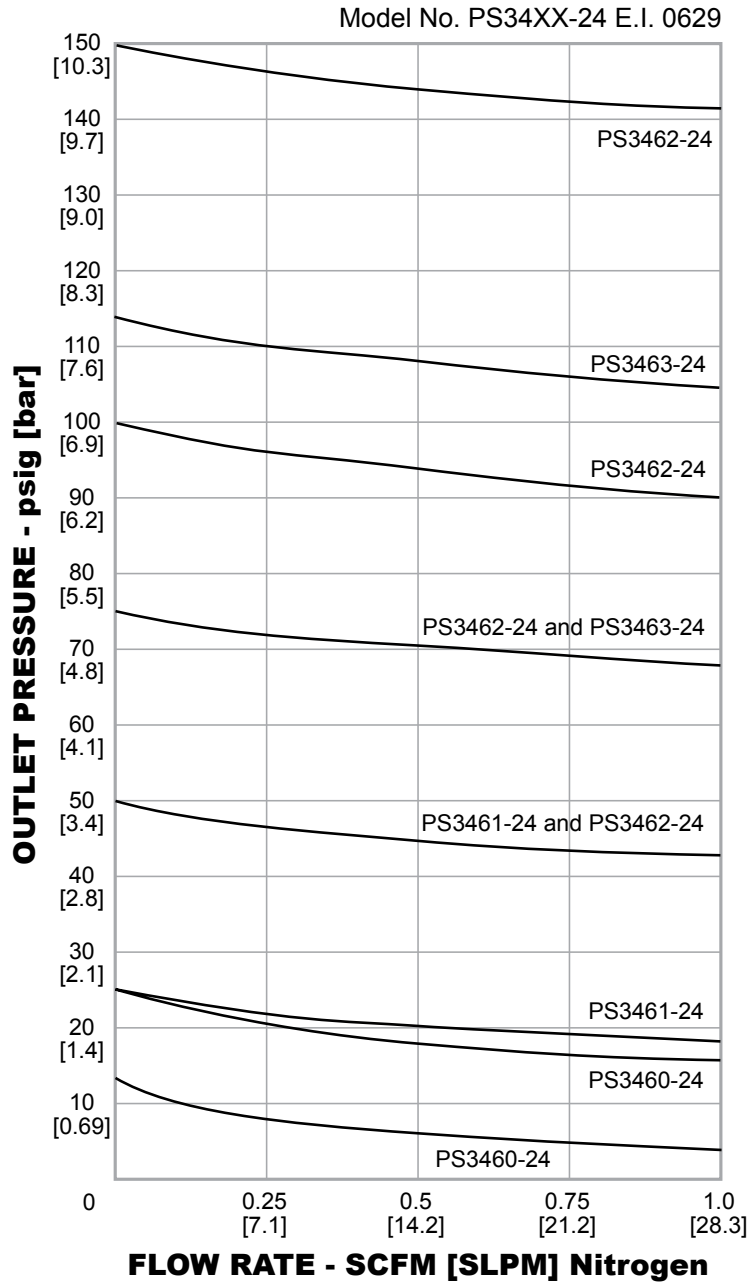
PS-3400 Series Regulator Drawing



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](http://www.tescom.com).



## 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"



**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*.

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