

## 44-2900 Series

Regulators - Relief / Backpressure

D44291996X012

**Specifications***For other materials or modifications, please consult TESCOM.***OPERATING PARAMETERS***Pressure rating per criteria of ANSI/ASME B31.3***Controlled Pressure Ranges**0-12, 0-25, 0-50, 0-100, 0-150 psig  
0-0.83, 0-1.7, 0-3.4, 0-6.9, 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**

-15°F to 165°F / -26°C to 74°C

**Flow Capacity** $C_v = 0.3$ **MEDIA CONTACT MATERIALS****Body**

316 Stainless Steel

**Seat Retainer**

PEEK

**O-Ring**

Viton®, Kalrez®

**Diaphragm, Spring**

316 Stainless Steel

**Remaining Parts**

316 Stainless Steel

**OTHER****Cleaning**

CGA 4.1 and ASTM G93

**Weight**

3 lbs / 1.4 kg

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TESCOM 44-2900 Series backpressure regulator is designed to be compact, extremely sensitive and for industrial gases with flows up to 20 SCFM / 566 SLPM. The convoluted Stainless Steel diaphragm provides excellent sensitivity and repeatability; metal-to-metal diaphragm seal minimizes the potential for leakage.

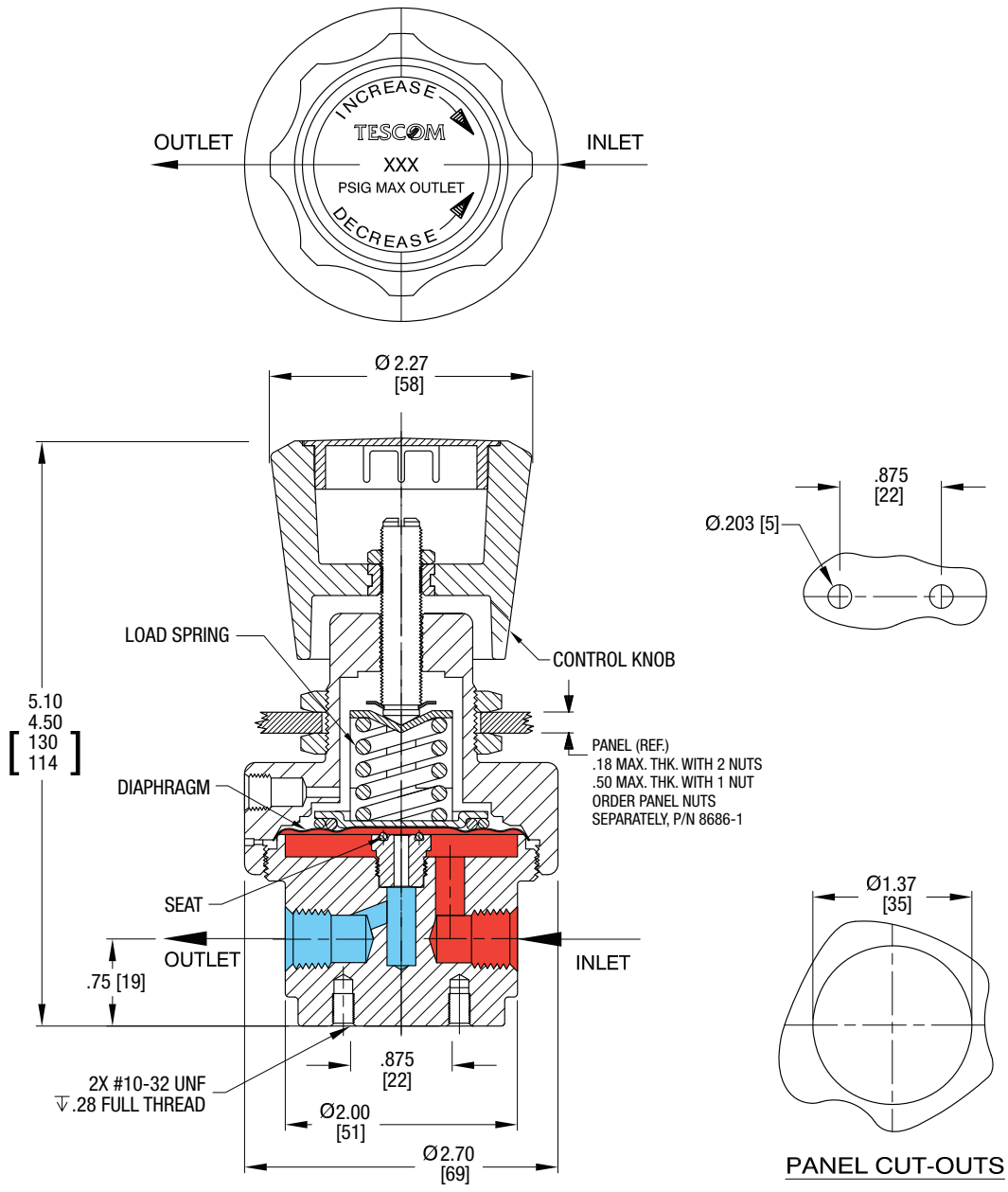
**Applications**

- R&D laboratories
- Process systems
- Pilot plants

**Features and Benefits**

- 316 Stainless Steel diaphragm provides metal-to-metal sealing integrity and good sensitivity
- Large sensing seat area ratio provides a low crack to reseat pressure differential and excellent repeatability
- Bubble-tight shutoff at all reseating pressures
- Flow capacity  $C_v = 0.3$
- Panel mounting is standard
- Suitable for non-corrosive and corrosive gases

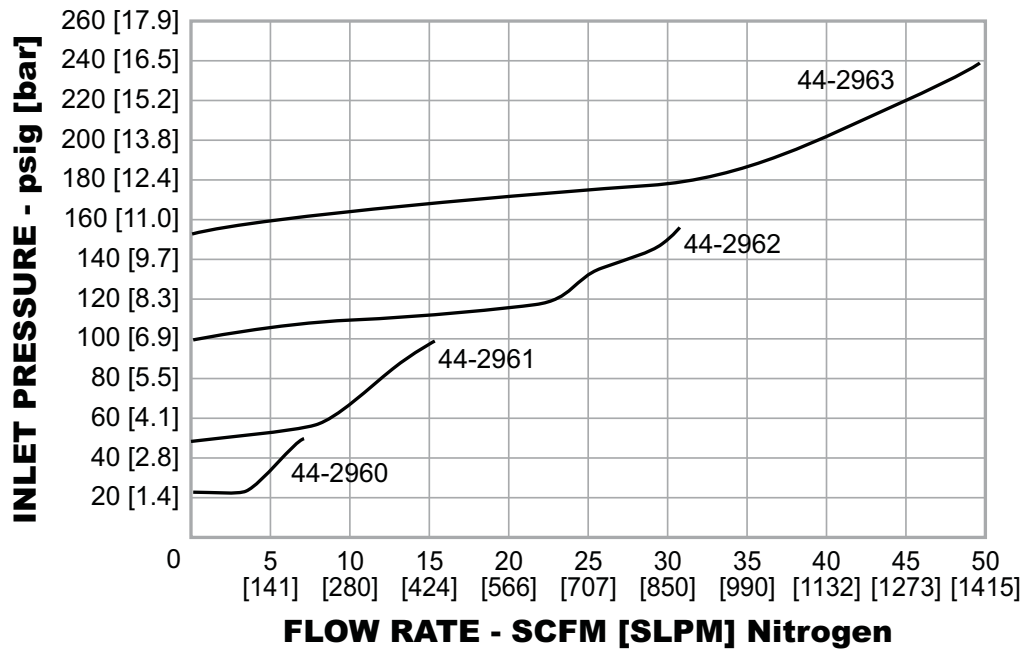
44-2900 Series Regulator Drawing



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

### 44-2900 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).



## 44-2900 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:

44-29	6	2	V	2	4	A
BASIC SERIES	BODY MATERIAL	CONTROLLED PRESSURE RANGES	O-RING MATERIAL	INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE	GAUGE PORT OPTIONS
44-29	6 – 316 Stainless Steel	0 – 0-25 psig 0-1.7 bar  1 – 0-50 psig 0-3.4 bar  2 – 0-100 psig 0-6.9bar  3 – 0-150 psig 0-10.3 bar  L – 0-12 psig 0-0.83 bar	T – Viton®  K – Kalrez®	2 –NPTF	4 – 1/4"	A – No gauge ports   F – 1 inlet gauge at 90° 