

# 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.

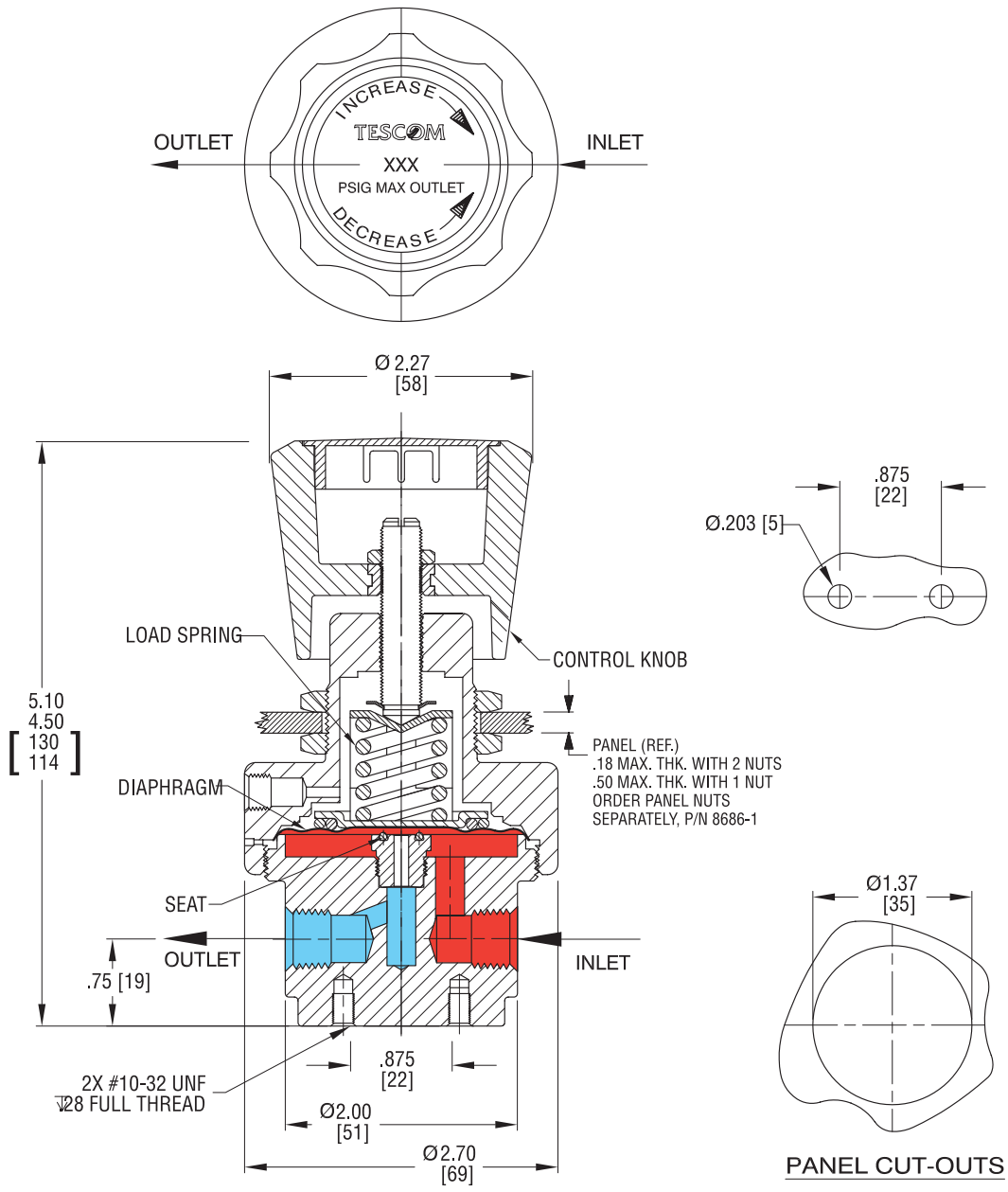
### Applications

- 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 reseal 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

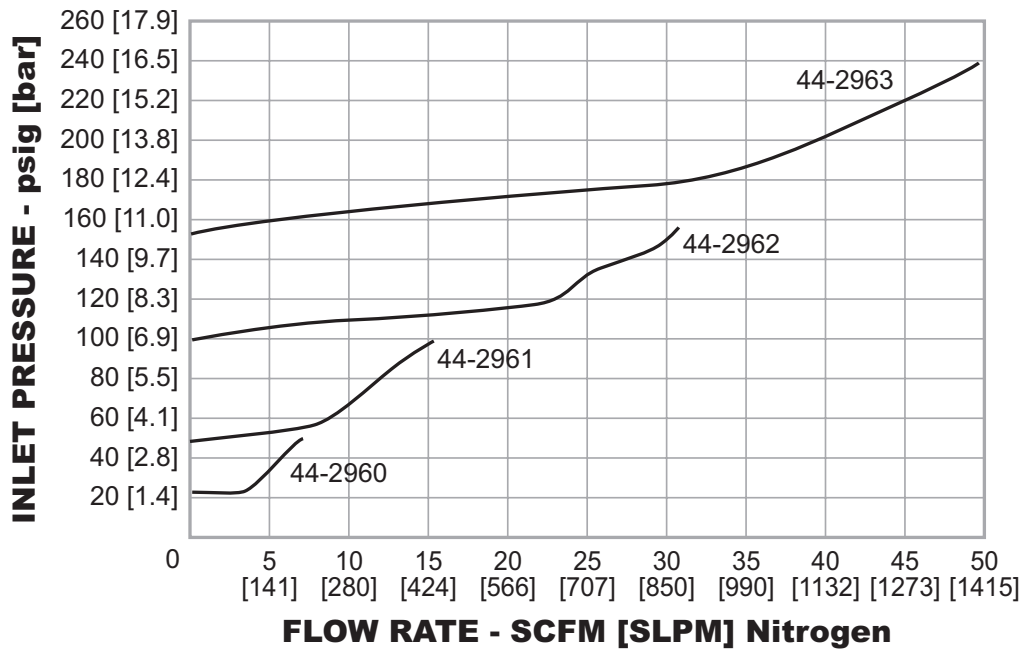
44-2900 Series Regulator Drawing



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:

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	<p>0 – 0-25 psig 0-1.7 bar</p> <p>1 – 0-50 psig 0-3.4 bar</p> <p>2 – 0-100 psig 0-6.9bar</p> <p>3 – 0-150 psig 0-10.3 bar</p> <p>L – 0-12 psig 0-0.83 bar</p>	<p>T – Viton®</p> <p>K – Kalrez®</p>	2 –NPTF	4 – 1/4"	<p>A – No gauge ports</p>  <p>F – 1 inlet gauge at 90°</p> 