

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

Viton® and Kalrez® are registered trademarks of E.I. du Pont de Nemours and Company.



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.

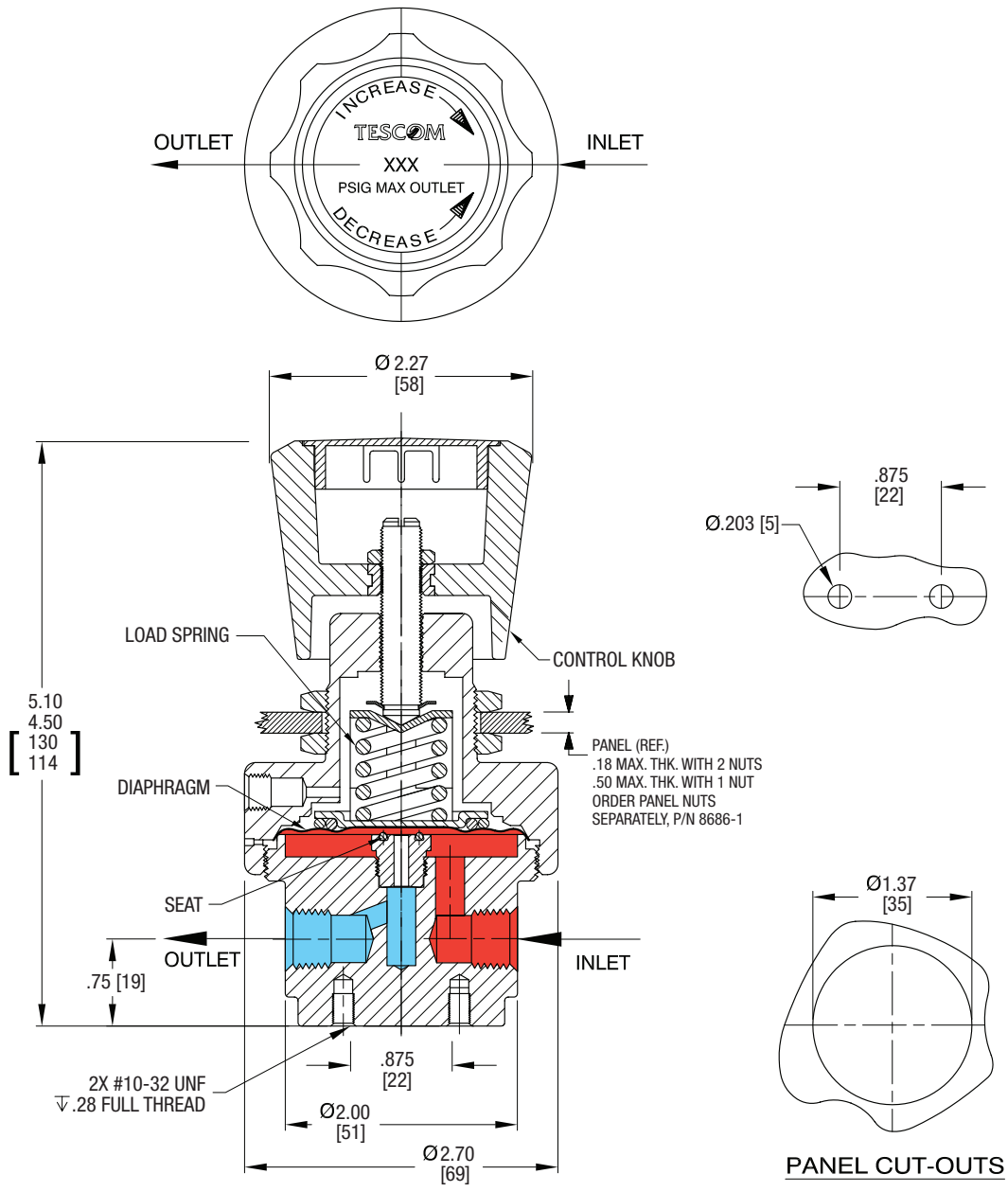
Applications

- 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

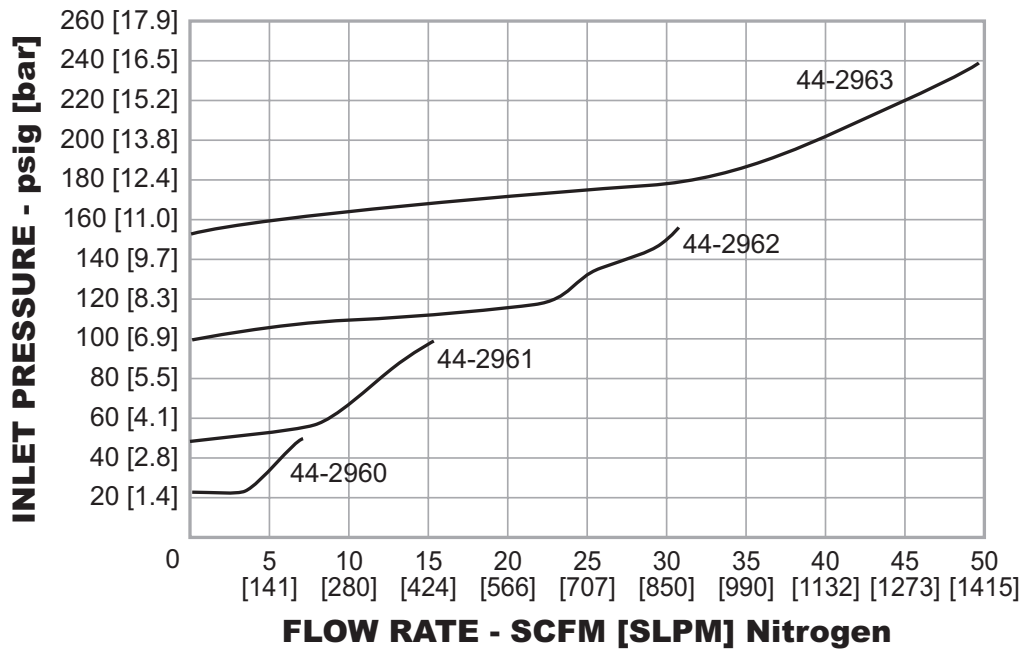
44-2900 Series Regulator Drawing



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

44-2900 Series Regulator Flow Chart


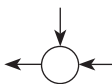
For more information on how to read flow curves, please refer to the Flow Curves and Calculations document (debul2007x012) in the TESCOM catalog or on www.tescom.com.



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	T	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° 



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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