Regulators - Pressure Reducing

D44321775X012

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure
500, 3000 psig / 34.5, 207 bar

Outlet Pressure Ranges
0-25, 0-50, 0-100, 0-150, 0-200 psig
0-1.7, 0-3.4, 0-6.9, 0-10.3, 0-13.8 bar

Design Proof Pressure
150% of rated pressure

Leakage
Internal: Bubble-tight
External: < 2 x 10^{-8} atm cc/sec He

Operating Temperature
-40°F to 140°F / -40°C to 60°C

Flow Capacity
C_V = 1.0
C_V = 1.8 (Optional)

MEDIA CONTACT MATERIALS

Body
Brass, 316 Stainless Steel

Bonnet
300 Series Stainless Steel

Diaphragm
316 Stainless Steel

Seat
3000 psig / 207 bar Inlet: PCTFE
500 psig / 34.5 bar Inlet: PTFE

Seat Retainer
Nitronic 60

Seal
PTFE

Remaining Parts
316 Stainless Steel

OTHER

Cleaning
CGA 4.1 and ASTM G93

Weight (without gauges)
3.5 lbs / 1.6 kg

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TESCOM 44-3200 Series is a compact, high flow, high purity single-stage regulator for specialty, flammable and industrial gas flows of 5-50 SCFM / 141-1415 SLPM. Diffusion-resistant metal diaphragm seal ensures gas purity and integrity.

Applications

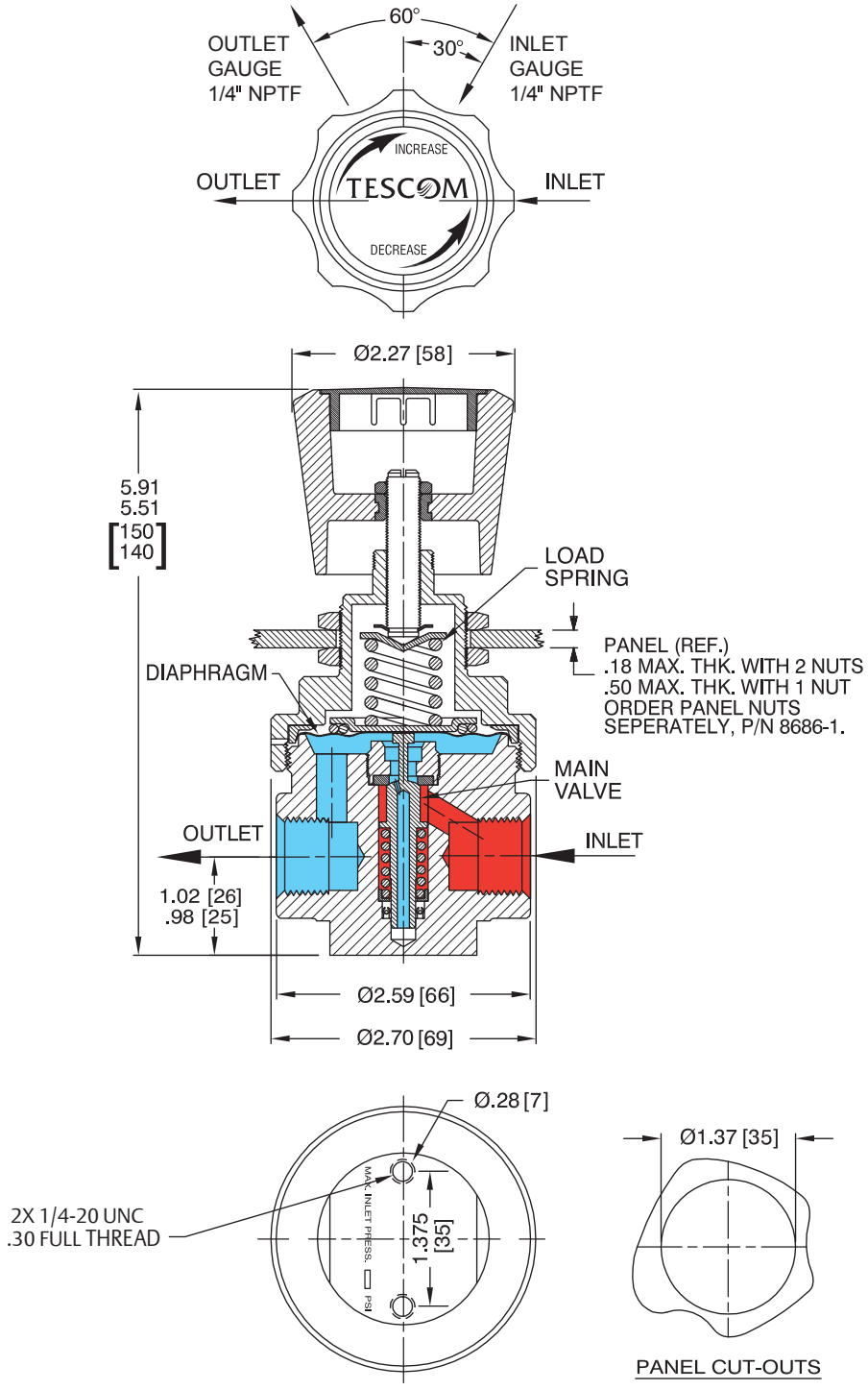
- Laboratory and point-of-use gas systems
- Laser assist and resonator gases
- Glove box and isolators

Features and Benefits

- Available in 316 Stainless Steel or Brass
- Choice of inlet pressure ratings: 500 or 3000 psig / 34.5 or 207 bar maximum
- True metal-to-metal diaphragm seal to minimize diffusion
- Five outlet pressure ranges are available
- Gauge ports are standard
- Optional high flow model (C_V = 1.8) is available
- Panel mounting is optional
- Non-venting is standard
- Flanged end connections available

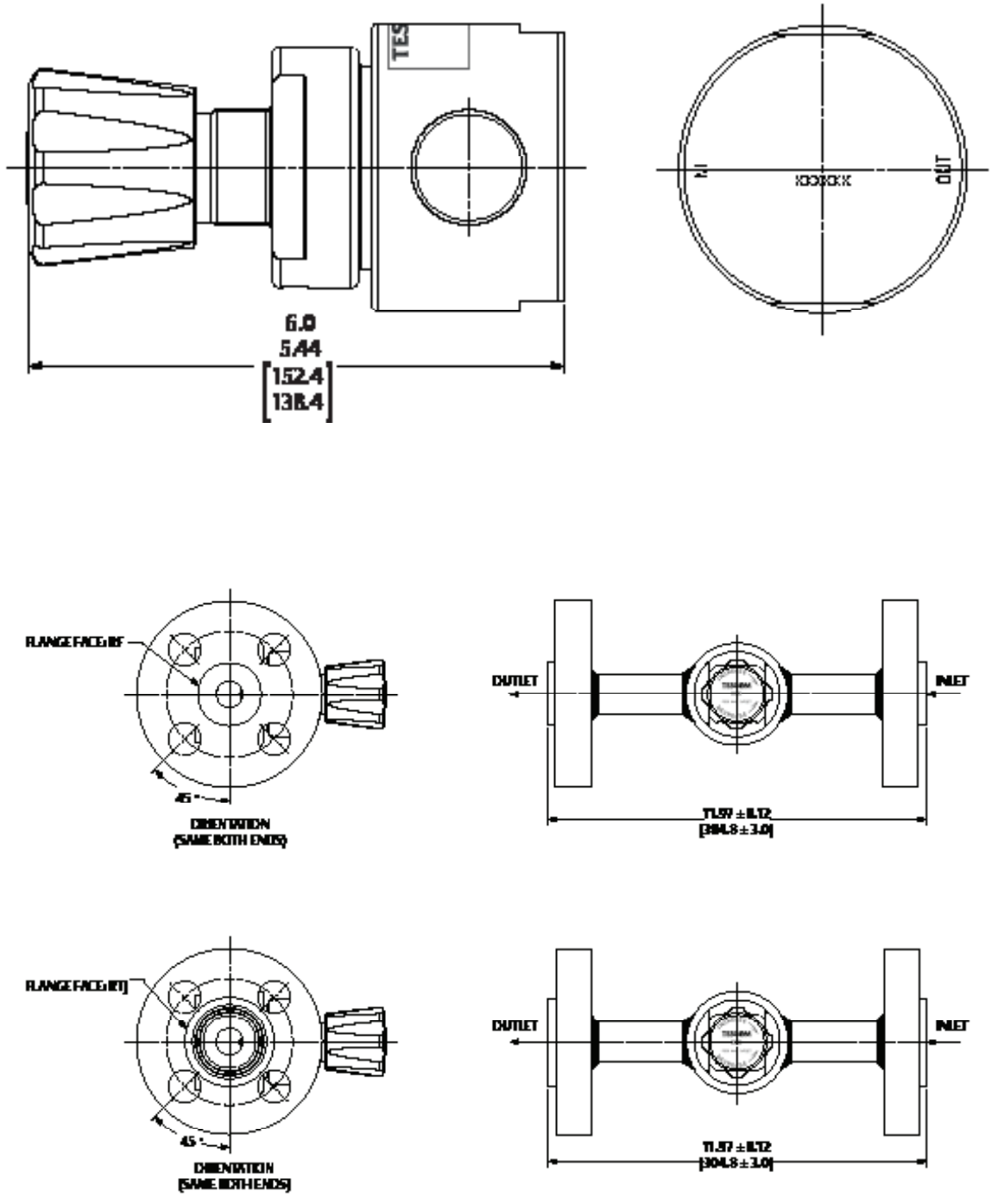
44-3200 SERIES

44-3200 Series Regulator Drawing



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

44-3200 Series Regulator with Flanges Drawing

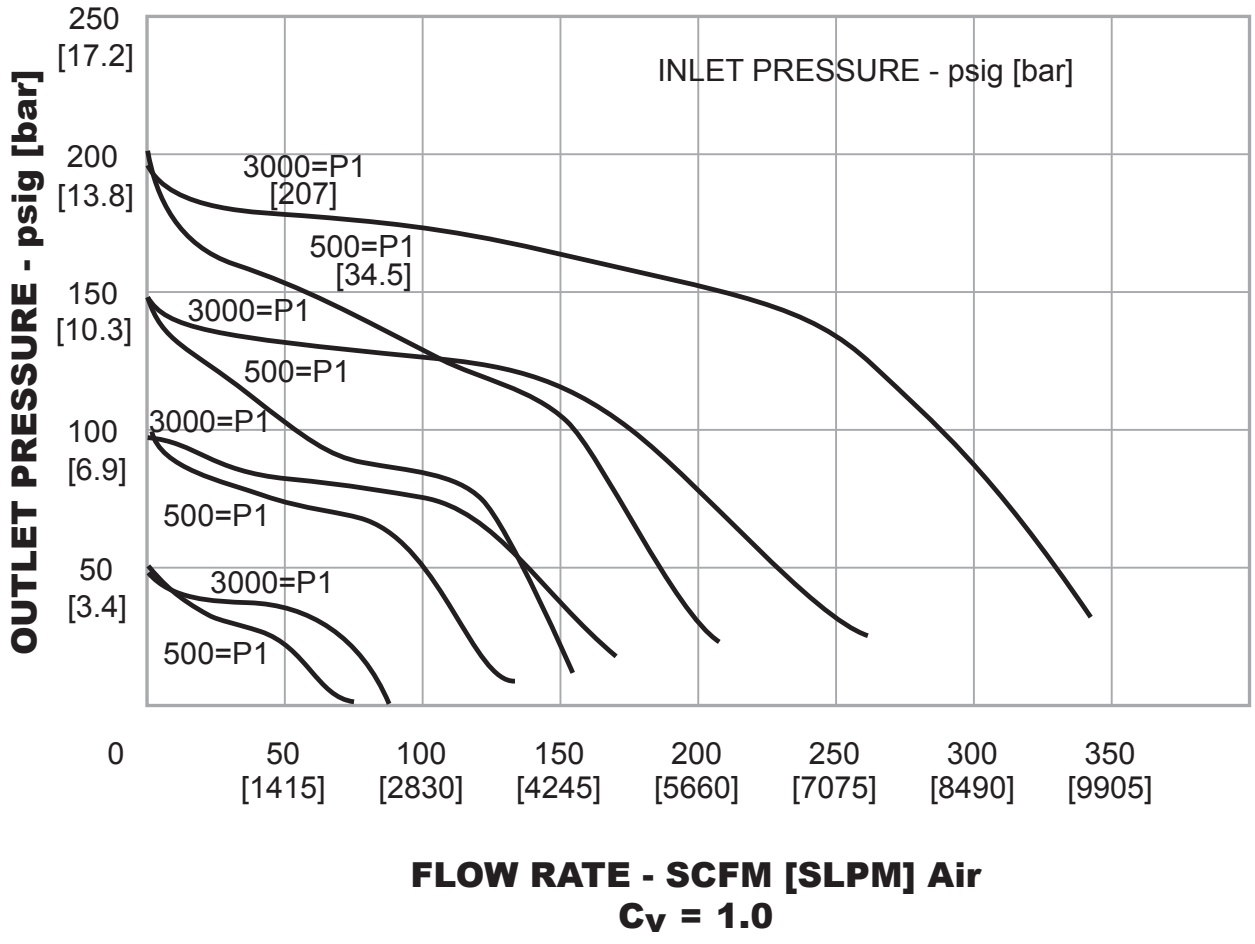


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Metric [millimeter] equivalents are in brackets

44-3200 SERIES

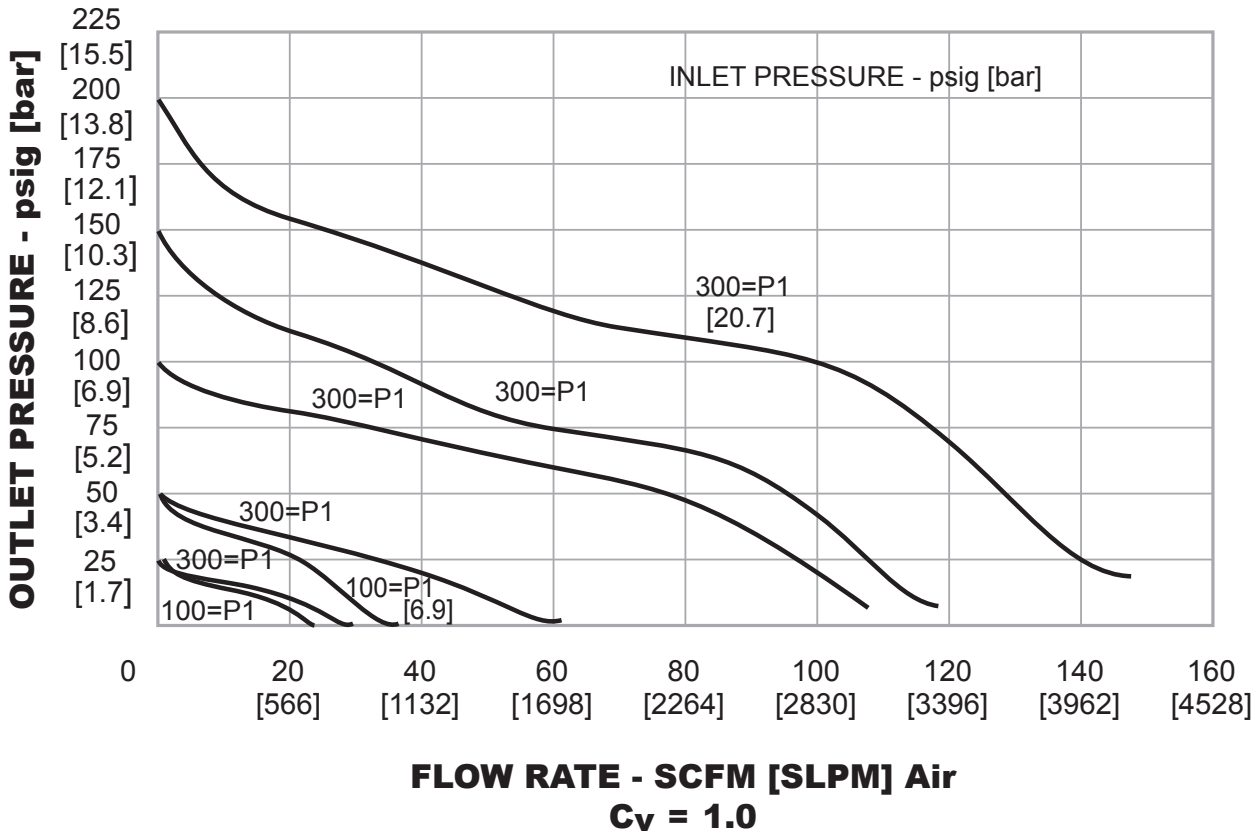
44-3200 Series Regulator Flow Charts

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.



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44-3200 SERIES

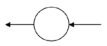
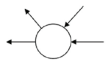
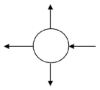
44-3200 Series Regulator Part Number Selector

Learn more about common options.
For modifications, repair kits and accessories, contact factory.

Threaded End Connection Part Number Selection

44-32	6	1	J		2	8	1	
BASIC SERIES	**BODY MATERIAL**	**OUTLET PRESSURE RANGES**	**SOFT GOODS**		**INLET AND OUTLET PORT TYPE**	**INLET AND OUTLET PORT SIZE**	**MAXIMUM INLET PRESSURE**	**OPTIONS**
			SEAT	**SEAL**				
44-32	**1 –** Brass **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 **4 –** 0-200 psig 0-13.8 bar	**H –** PTFE **J –** PCTFE	PTFE, O-ring PTFE, Spring Energized Lip Seal	**2 –** NPTF	**6 –** 3/8" **8 –** 1/2"	**1 –** 3000 psig 207 bar **3 –** 500 psig 34.5 bar	**-001 –** One 1/4" gauge port at 90°, C_V = 1.0 **-003 –** No gauge ports **-296 –** One 1/4" gauge port at 90°, C_V = 1.8

Flanged End Connector Part Number Selection:

44-32W	6	2	1					B	1	52	1
BASIC SERIES	**BODY, PIPE & FLANGE MATERIAL**	**OUTLET PRESSURE RANGES**	**DASH NO**	**FLOW CAPACITY**	**SEAT**	**SEAL**	**OPERATING TEMPERATURE**	**GAUGE PORT OPTIONS**	**FLANGE SIZE**	**FLANGE CLASS**	**FLANGE FACE**
44-32W	**6 –** 316 SST	**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 **4 –** 0-200 psig 0-13.8 bar	**1**	1.0	PCTFE	PTFE	-20 to 140°F -29 to 60°C	**A –** R.H. Inlet, no gauge port  **B –** R.H. Inlet, in & out gauge port at 60°  **J –** R.H. Inlet, 2 outlet gauge port at 90° 	**1 –** 1/2" **3 –** 1"	**11 –** 150# **21 –** 300# **41 –** 600# **52 –** 900# / 1500# **63 –** 2500#	**1 –** RF **2 –** RTJ
			2	1.0	PTFE	PTFE	-20 to 165°F -29 to 74°C				