

## Specifications

For other materials or modifications, please consult TESCOM.

### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

#### Maximum Inlet Pressure

400 and 3500 psig / 27.6 and 241 bar

#### Outlet Pressure Range

1-25, 1-50, 2-100, 2-250, 5-500, 5-600 psig  
0.07-1.7, 0.07-3.4, 0.14-6.9, 0.14-17.2, 0.35-34.5, 0.35-41.4 bar

#### Design Proof Pressure

150% maximum rated

#### Operating Temperature<sup>1</sup>

-15°F to 200°F / -26°C to 93°C

#### Flow Capacity

$C_v = 0.06$

$C_v = 0.15$

#### Maximum Operating Torque

30 in-lbs / 3.4 N•m

### MEDIA CONTACT MATERIALS

#### Body

316 Stainless Steel or Brass

#### Bonnet

300 Series Stainless Steel or Brass

#### Piston

316 Stainless Steel or Brass

#### Seats

Polyimide (Vespel®)

#### O-Ring

FKM (Viton®-A)

#### Filter (40 micron)

316 Stainless Steel

#### Remaining Parts

300 Series Stainless Steel and Brass

### OTHER

#### Cleaning

CGA 4.1 and ASTM G93

#### Connections

1/4" NPTF Inlet, Outlet and Gauge Ports

#### Weight (without gauges)

2 lbs / 0.9 kg

<sup>1</sup>For extended temperatures from -40°F to 400°F / -40°C to 204°C, consult TESCOM.

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TESCOM 44-5200 Series is a compact piston sensed pressure reducing regulator designed for heavy cycle duty applications. Venting or air load is optional for use with the TESCOM ER5000 Electropneumatic Controller.

### Applications

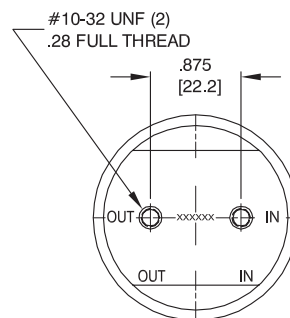
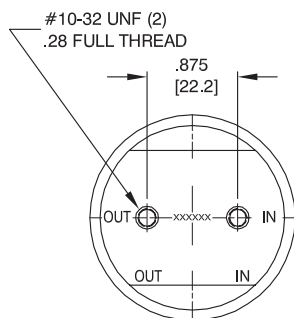
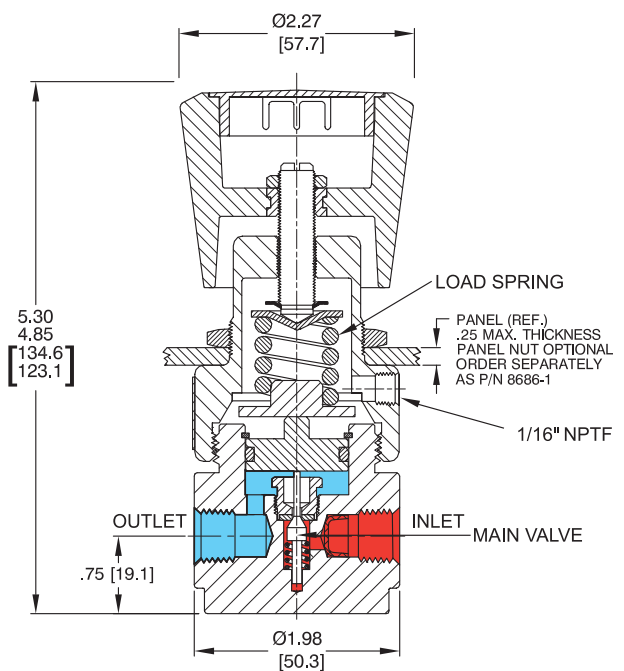
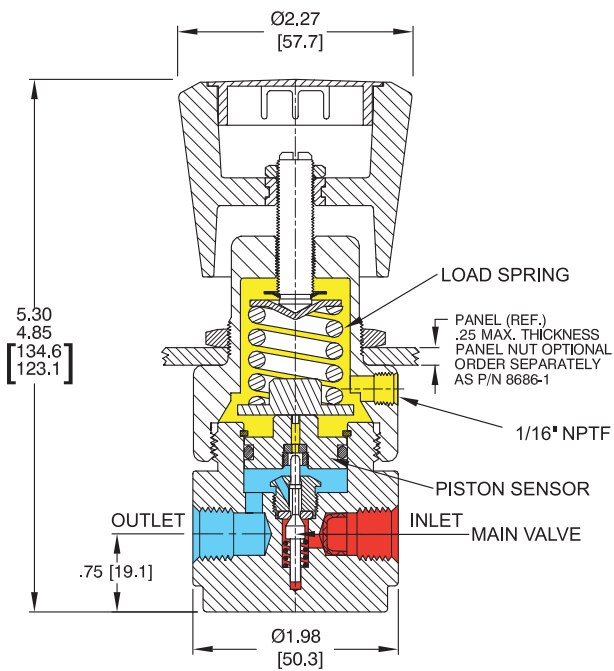
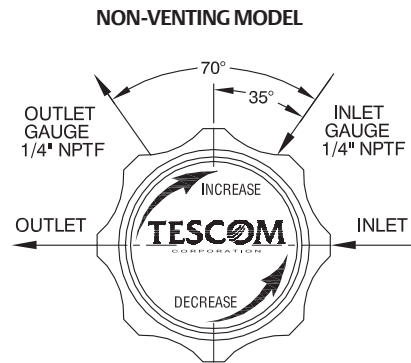
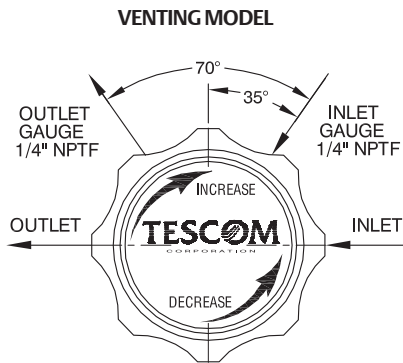
- Test equipment
- Calibration stands
- Production equipment

### Features and Benefits

- Compact and economical design
- For gas or liquid service
- Piston sensed for high reliability and long service life
- Standard version includes 1/4" NPTF gauge ports
- Brass or Stainless Steel construction
- Adjustable stop limits maximum outlet pressure
- Modification with 6000 psig / 414 bar inlet pressure is available
- Venting and captured venting is available
- NACE compliant designs are available

# 44-5200 SERIES

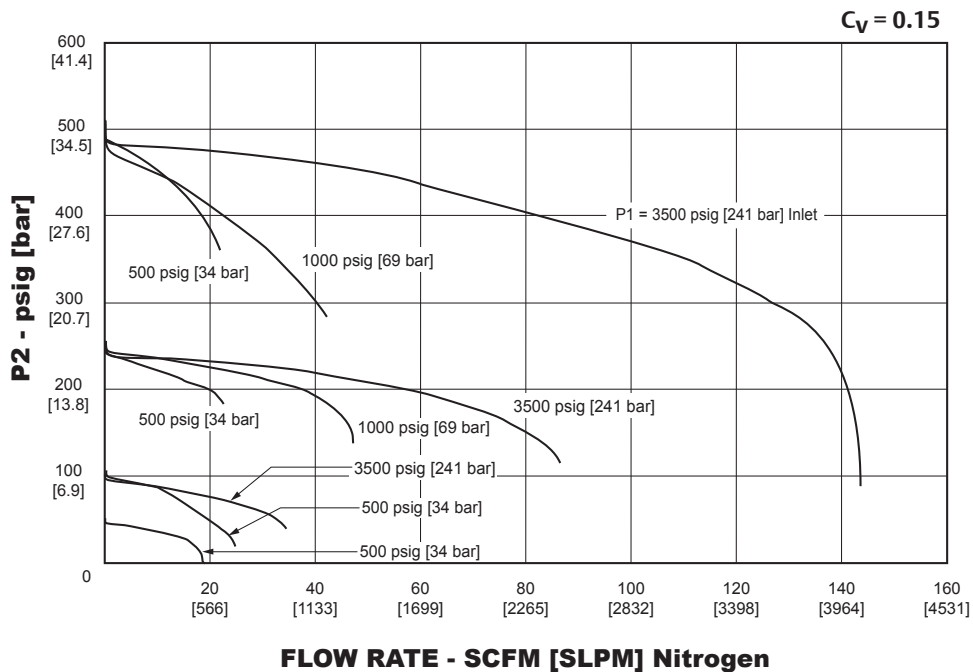
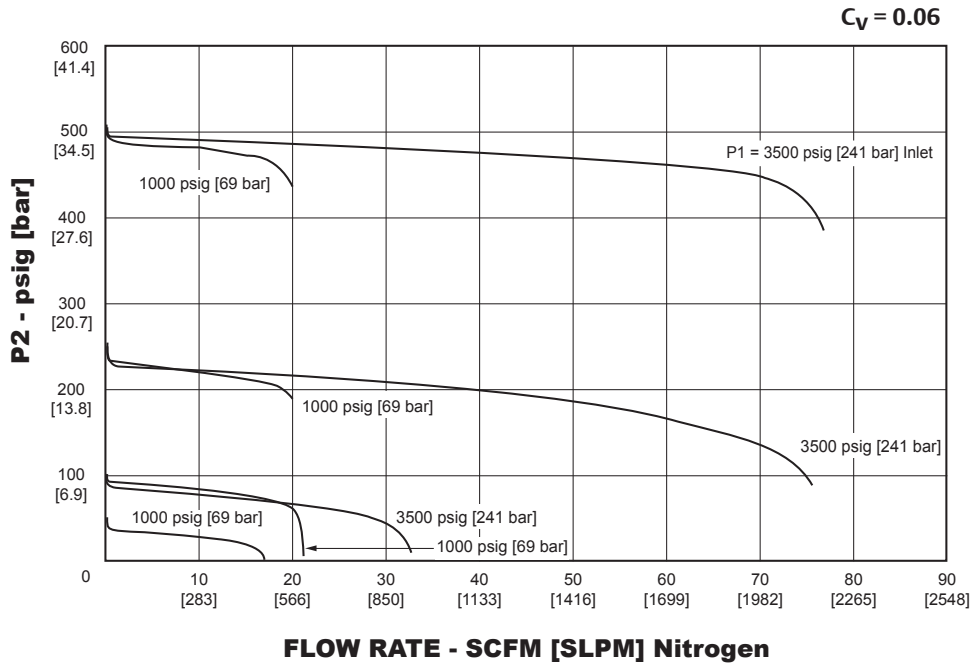
## 44-5200 Series Regulator Drawing



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

44-5200 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](http://www.tescom.com).



# 44-5200 SERIES

## 44-5200 Series Regulator Part Number Selector

Example for selecting a part number:

**44-52      1                      5                      -      2                      4                      3                      V                      - See Number Below**

BASIC SERIES	BODY MATERIAL	OUTLET PRESSURE	INLET AND OUTLET PORT TYPE	PORT SIZE	INLET PRESSURE	FLOW CAPACITY	OPTIONAL VENTING	MODS
44-52	1 – Brass 6 – 316 Stainless Steel	0 – 1-25 psig 0.07-1.7 bar 1 – 1-50 psig 0.07-3.4 bar 2 – 2-100 psig 0.14-6.9 bar 3 – 2-250 psig 0.14-17.2 bar 5 – 5-500 psig 0.35-34.5 bar 6 – 5-600 psig 0.35-41.4 bar	2 – NPTF	4 – 1/4"	1 – 3500 psig 241 bar 2 – 400 psig 27.6 bar 3 – 3500 psig 241 bar	$C_V = 0.06$ $C_V = 0.15$ $C_V = 0.15$	V – Venting	-038 – Dome loaded -VA027 – Air loaded, Venting*  * Mod VA027 is only available for outlet pressure 5 -500 psig / 0.35 - 34.5 bar