

44-5200 Series

Regulators - Pressure Reducing

D44521866X012

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 Temperature¹

-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

VespeI®

O-Ring

Viton®

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

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

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

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 ER3000 Electropneumatic Controller.

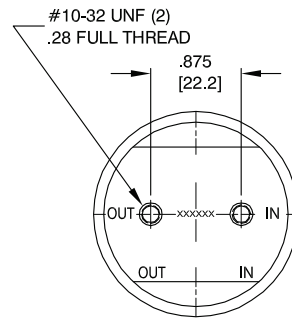
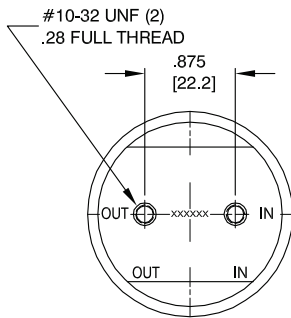
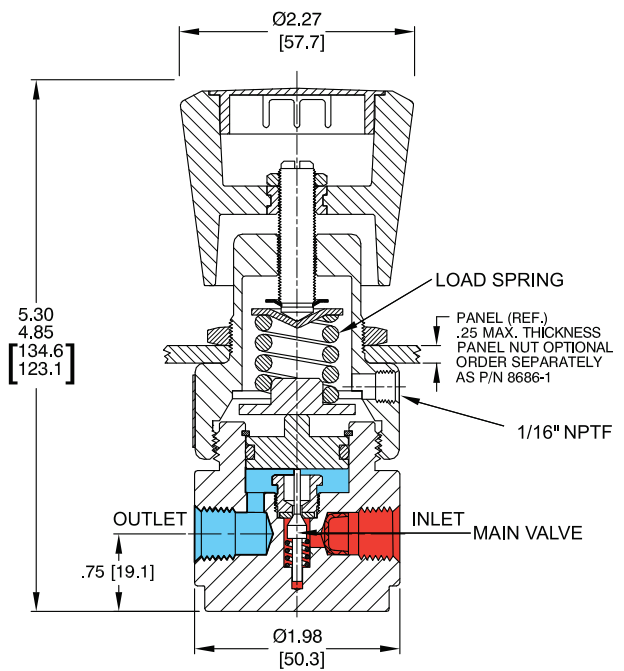
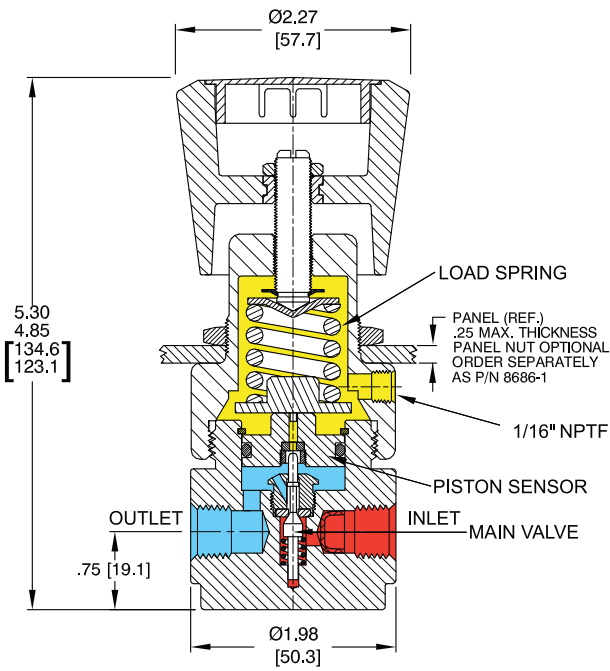
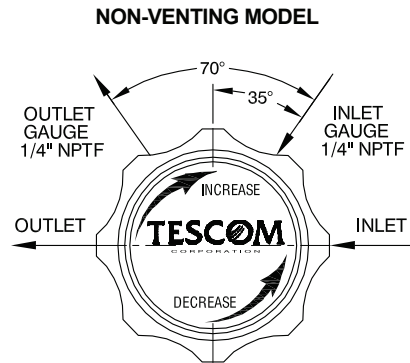
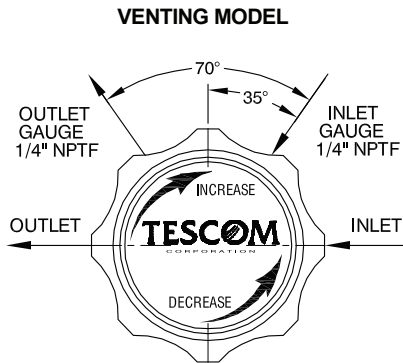
Applications

- 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

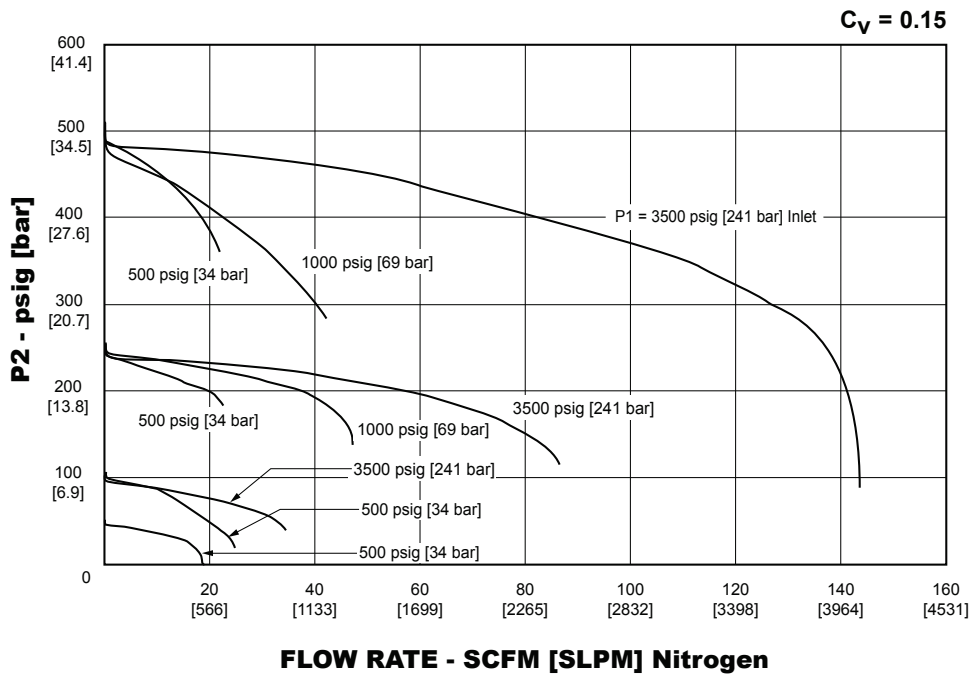
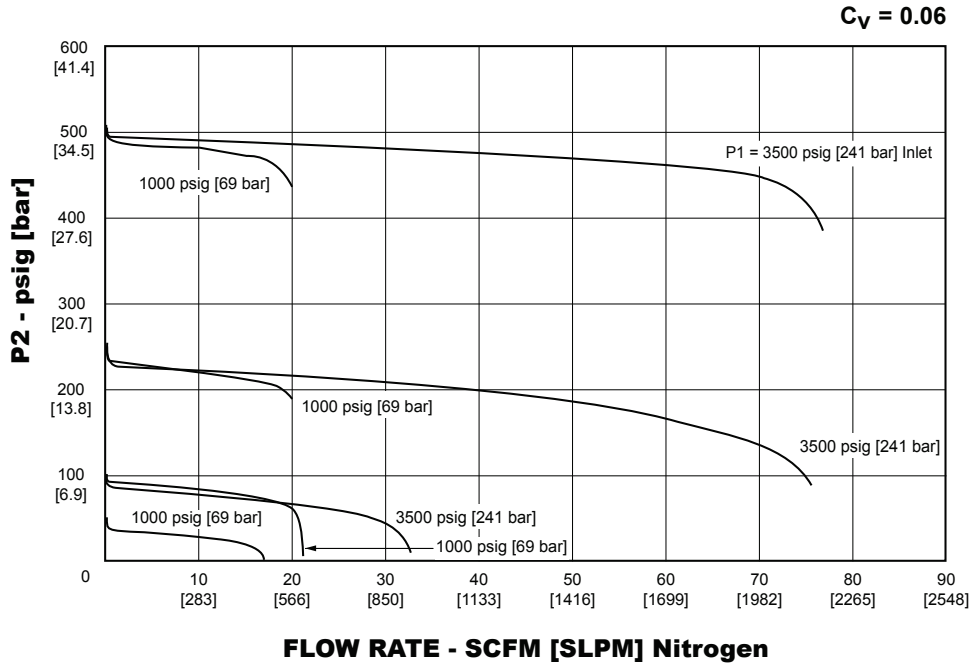
44-5200 Series Regulator Drawing



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.



44-5200 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:

44-52	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

44-5200F Series

Regulators - Pressure Reducing

D4452FL10139XEN2

Specifications

For other materials or modifications, please consult TESCOM.

FLUID MEDIA

Corrosive or non-corrosive gases requiring high purity regulation compatible with materials of construction. For other media, consult factory.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure

580 psig / 40.0 bar

Outlet Pressure Ranges

1-25, 1-50, 2-100, 2-250, 5-500 psig
0.07-1.7, 0.07-3.4, 0.14-6.9, 0.14-17.2, 0.34-34.5 bar

Design Proof Pressure

150% of rated pressure

Design Burst Pressure

400% of rated pressure

Leakage

Internal: Bubble-tight

Flow Capacity

$C_v = 0.06$

$C_v = 0.15$

Operating Temperature

-15°F to 165°F / -26°C to 74°C

MEDIA CONTACT MATERIALS

Body

316 Stainless Steel

Seat

Teflon®

O-Ring

Viton®

Remaining Parts

300 Series Stainless Steel

OTHER

Weight (approximate)

DN 15: 8.6 lbs / 3.9 kg

DN 20 / 25: 11.7 lbs / 5.3 kg

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



TESCOM 44-5200F Series low flow pressure reducing regulators provide welded flanges according to EN 1092 and are suitable for gas or liquid applications.

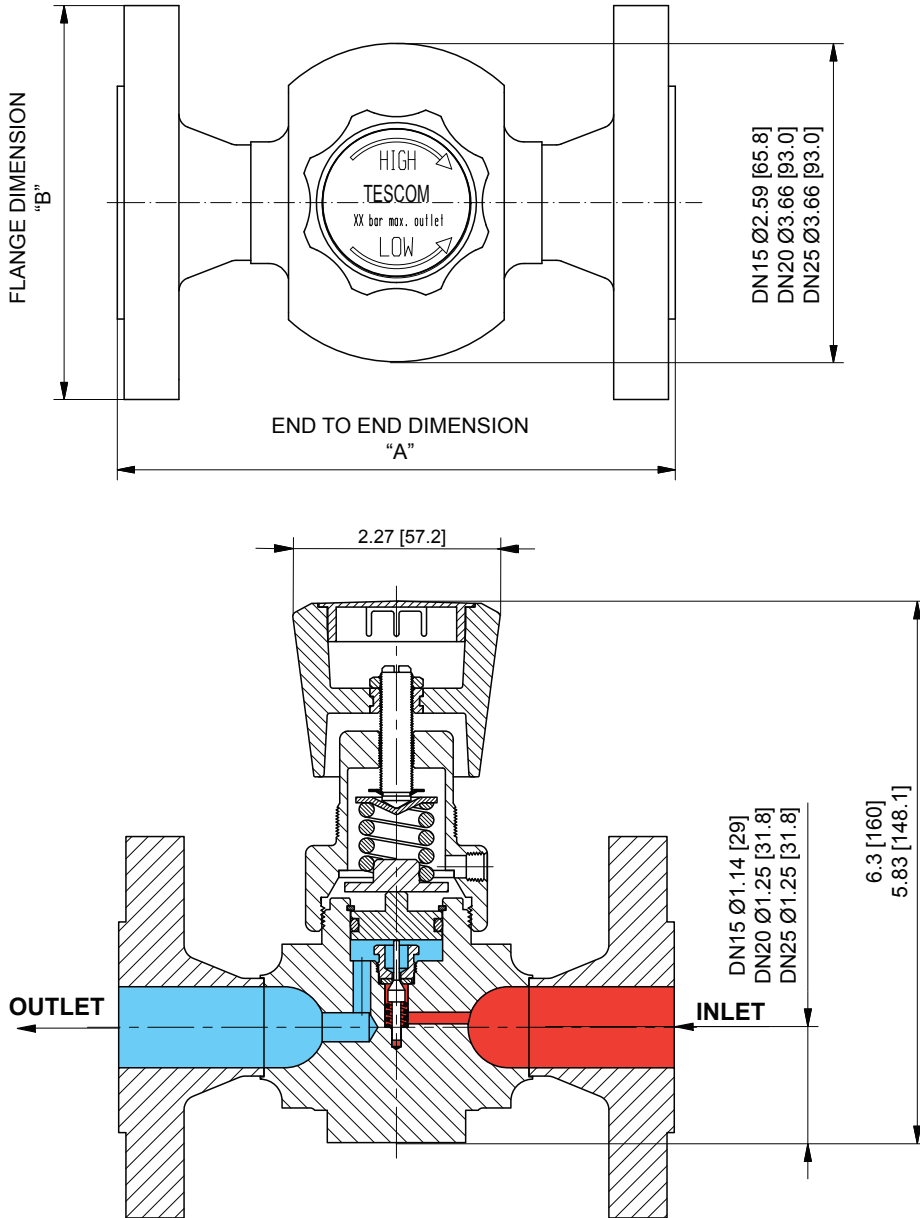
Applications

- Pilot plants (i.e. in the chemical industry)
- Sampling for analytical applications
- Low flow media supply for various processes

Features and Benefits

- Flange connections according to DIN EN 1092-1 Type 11 for easy line integration
- Face-to-face dimensions according to DIN EN 558, Row 1
- Connection up to DN 25
- Compact and economical design
- For gas or liquid services
- Piston sensed for high reliability and long service life
- 1/4" NPTF gauge ports are available
- Adjustable stop limits maximum outlet pressure
- Other connection standards upon request

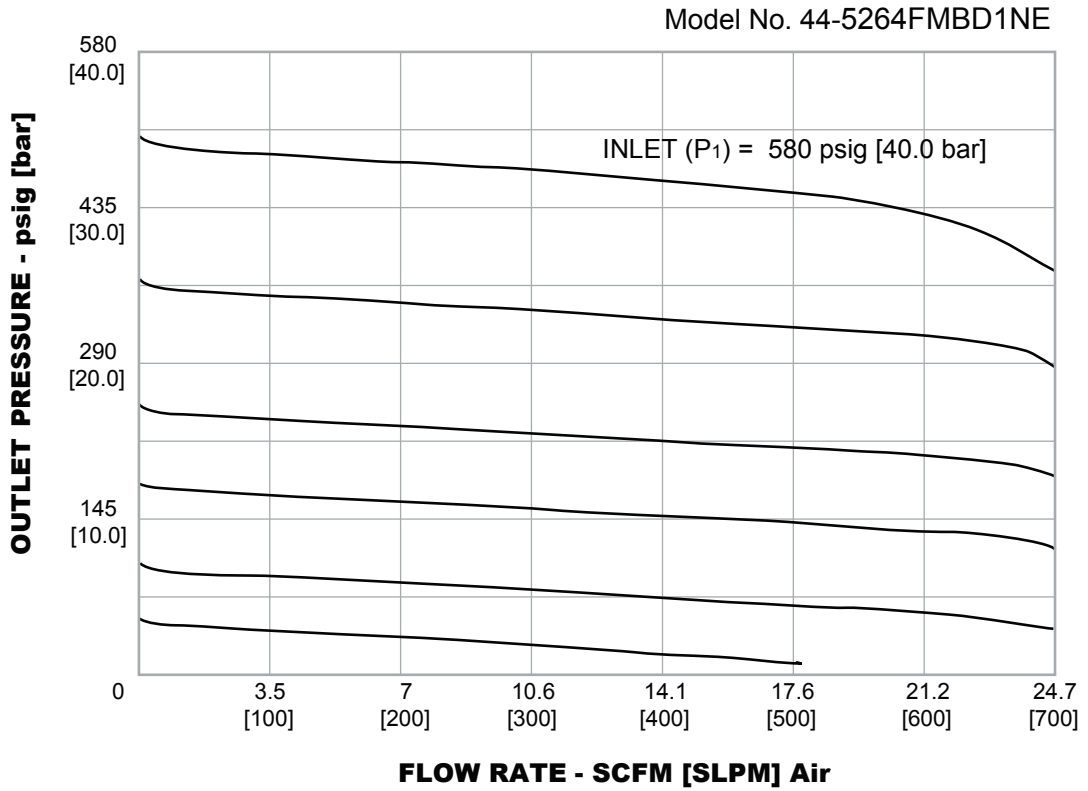
44-5200F Series Regulator Drawing



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

44-5200F 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.



44-5200F 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:

44-52	6	1	F	K	B	F	2	N	E
			FLANGE					EN1092-1	
BASIC SERIES	BODY AND FLANGE MATERIAL	OUTLET PRESSURE	INLET AND OUTLET PORT TYPE	"A" ±.08" ±2 mm	"B" ±.08" ±2 mm	FLANGE TYPE	GAUGE PORT OPTIONS	FLOW CAPACITY	VENTING OPTION
44-52	6 - 316L 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 0.34-34.5 bar	K - DN 15 L - DN 20 M - DN 25	5.12 130 5.90 150 6.30 160	3.74 95 4.13 105 4.53 115	B - Form B - raised face D - Form D - ring joint	A - None  D - 1/4" NPTF 1 x out  E - 1/4" NPTF 1 x out  F - 1/4" NPTF 1 x in  L - 1/4" NPTF 1 x in, 1 x out 	1 - $C_v = 0.06$ 2 - $C_v = 0.15$	N - Non-venting

Kits

	BASIC SERIES	PART NUMBER
NON METALLIC	44-52XXFXXX1E 44-52XXFXXX2E	389-7015 389-7017
REPAIR	44-52XXFXXX1E 44-52XXFXXX2E	389-7016 389-7018