

44-3200F Series

Regulators - Pressure Reducing

D4432FL10101XEN2

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

28" Hg VAC-15 psig / 65 mbar abs-1.0 bar
 28" Hg VAC-30 psig / 65 mbar abs-2.1 bar
 28" Hg VAC-60 psig / 65 mbar abs-4.1 bar
 28" Hg VAC-100 psig / 65 mbar abs-6.9 bar
 0-25 psig / 0-1.7 bar
 0-50 psig / 0-3.4 bar
 0-100 psig / 0-6.9 bar
 0-150 psig / 0-10.3 bar
 0-200 psig / 0-13.8 bar

Design Proof Pressure

150% of rated pressure

Design Burst Pressure

400% of rated pressure

Leakage

Internal: Bubble-tight

External: $< 2 \times 10^{-8}$ atm cc/sec He (mbar l/s He)

Flow Capacity

$C_v = 1.0$

$C_v = 1.8$

Operating Temperature

-15°F to 165°F / -26°C to 74°C

MEDIA CONTACT MATERIALS

Body

316L Stainless Steel

Seal

Teflon®

Seat

Teflon®

Diaphragm

316L Stainless Steel or Hastelloy®

Remaining Parts

316 Stainless Steel, Nitronic 60

OTHER

Weight (approximate)

DN 10/15: 6.6 lbs / 3.0 kg

DN 20/25: 12 lbs / 5.4 kg

Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.
 Hastelloy® is a registered trademark of Haynes International, Inc.



TESCOM 44-3200F Series medium flow, pressure reducing regulators provide welded flanges according to EN 1092 and are suitable for gas applications.

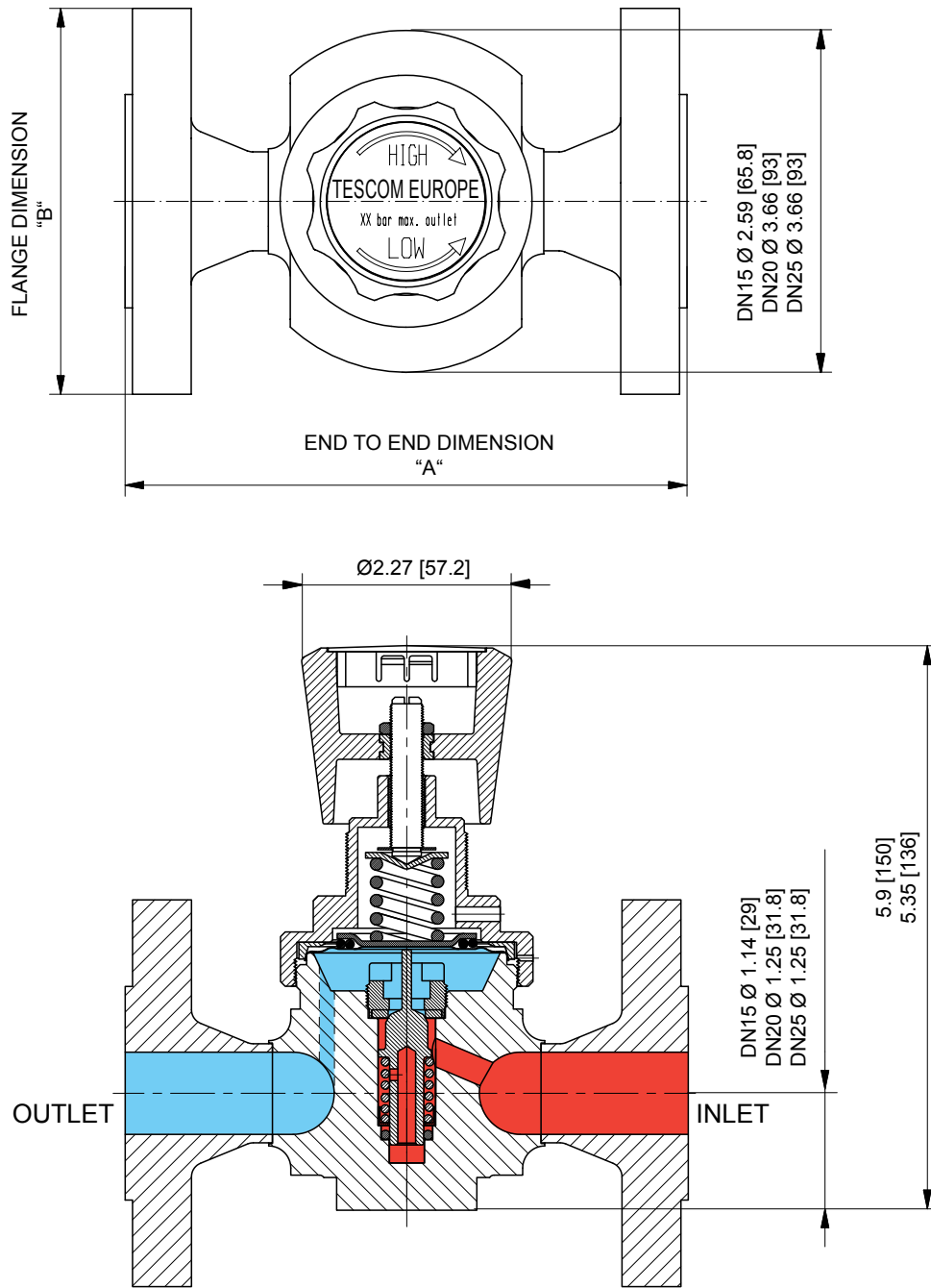
Applications

- Purge processes (e.g. nitrogen)
- First-stage regulator for nitrogen blanketing applications

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
- High purity materials and design
- Other connection standards are available upon request
- Standard version includes 1/4" NPTF gauge ports

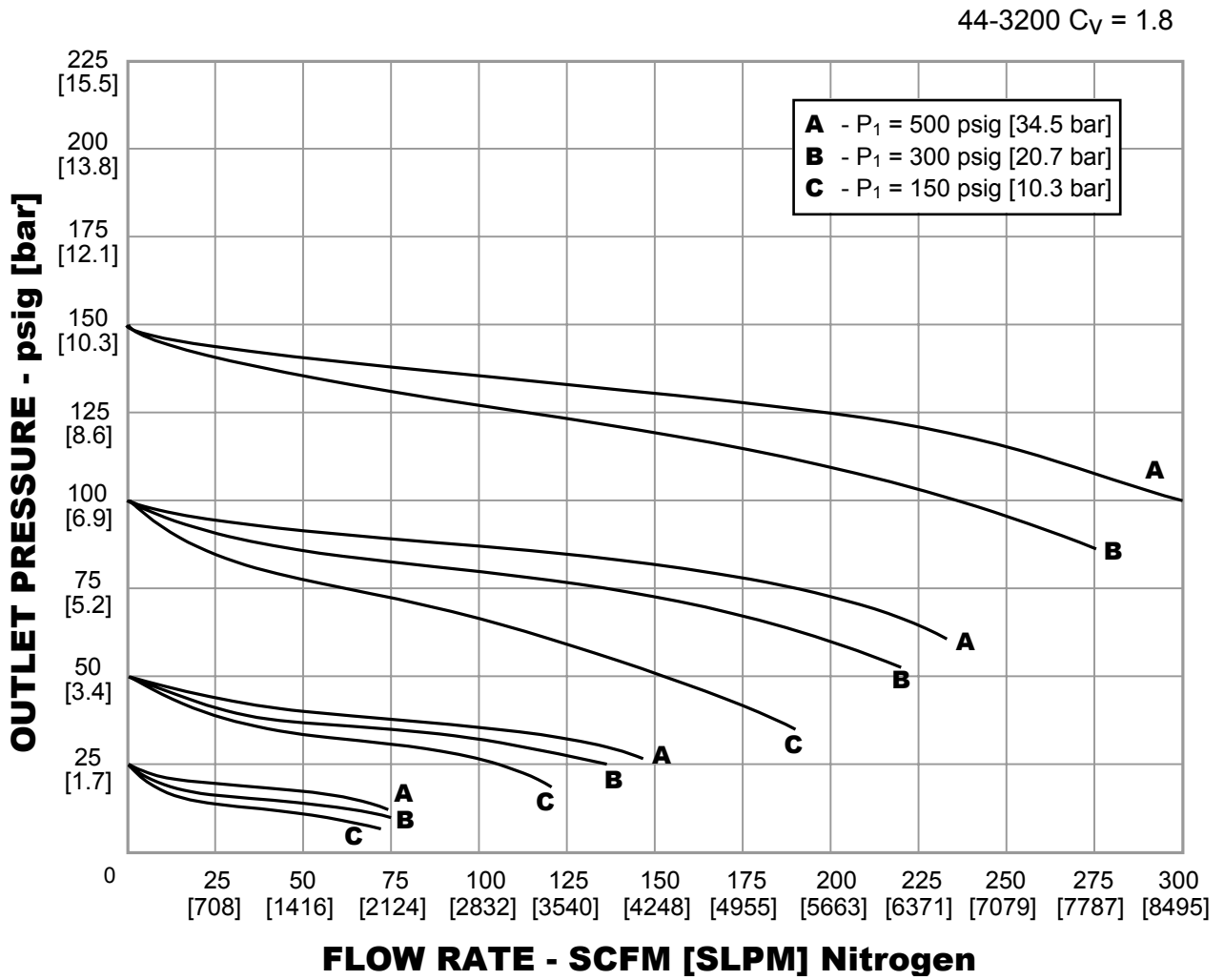
44-3200F Series Regulator Drawing



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

44-3200F 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.



44-3200F 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:

| 44-32 | | 6 | 1 | F | K | B | F | 2 | N | E |
|--------------|--|---|----------------------------|----------------|----------------|--------------------------|---|---|-----------------|---|
| BASIC SERIES | BODY AND FLANGE MATERIAL | OUTLET PRESSURE | INLET AND OUTLET PORT TYPE | "A" ±.08" [±2] | "B" ±.08" [±2] | FLANGE TYPE | GAUGE PORT OPTIONS | FLOW CAPACITY | VENTING OPTION | |
| 44-32 | 6 - 316L diaphragm: Stainless Steel ¹ | A - 28" Hg VAC-15 psig 65 mbar abs-1.0 bar ¹ | G - DN 10 | 5.12 [130] | 3.54 [90] | B - Form B - raised face | A - None  | 2 - C _v = 1.8 3 - C _v = 1.0 ¹ | N - Non-Venting | |
| | 7 - 316L diaphragm: Hastelloy® | B - 28" Hg VAC-30 psig 65 mbar abs-2.1 bar ¹ | K - DN 15 | 5.12 [130] | 3.74 [95] | D - Form D - ring joint | D - 1/4" NPTF 1 x out  | | | |
| | | C - 28" Hg VAC-60 psig 65 mbar abs-4.1 bar ¹ | L - DN 20 | 5.9 [150] | 4.13 [105] | | E - 1/4" NPTF 1 x out  | | | |
| | | D - 28" Hg VAC-100 psig 65 mbar abs-6.9 bar ¹ | M - DN 25 | 6.3 [160] | 4.53 [115] | | F - 1/4" NPTF 1 x in  | | | |
| | | 0 - 0-25 psig 0-1.7 bar | | | | | L - 1/4" NPTF 1 x in, 1 x out  | | | |
| | 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. C_v = 1.0 and diaphragm material 316L Stainless Steel are not available for 44-326A, B, C, D



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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