

# 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.

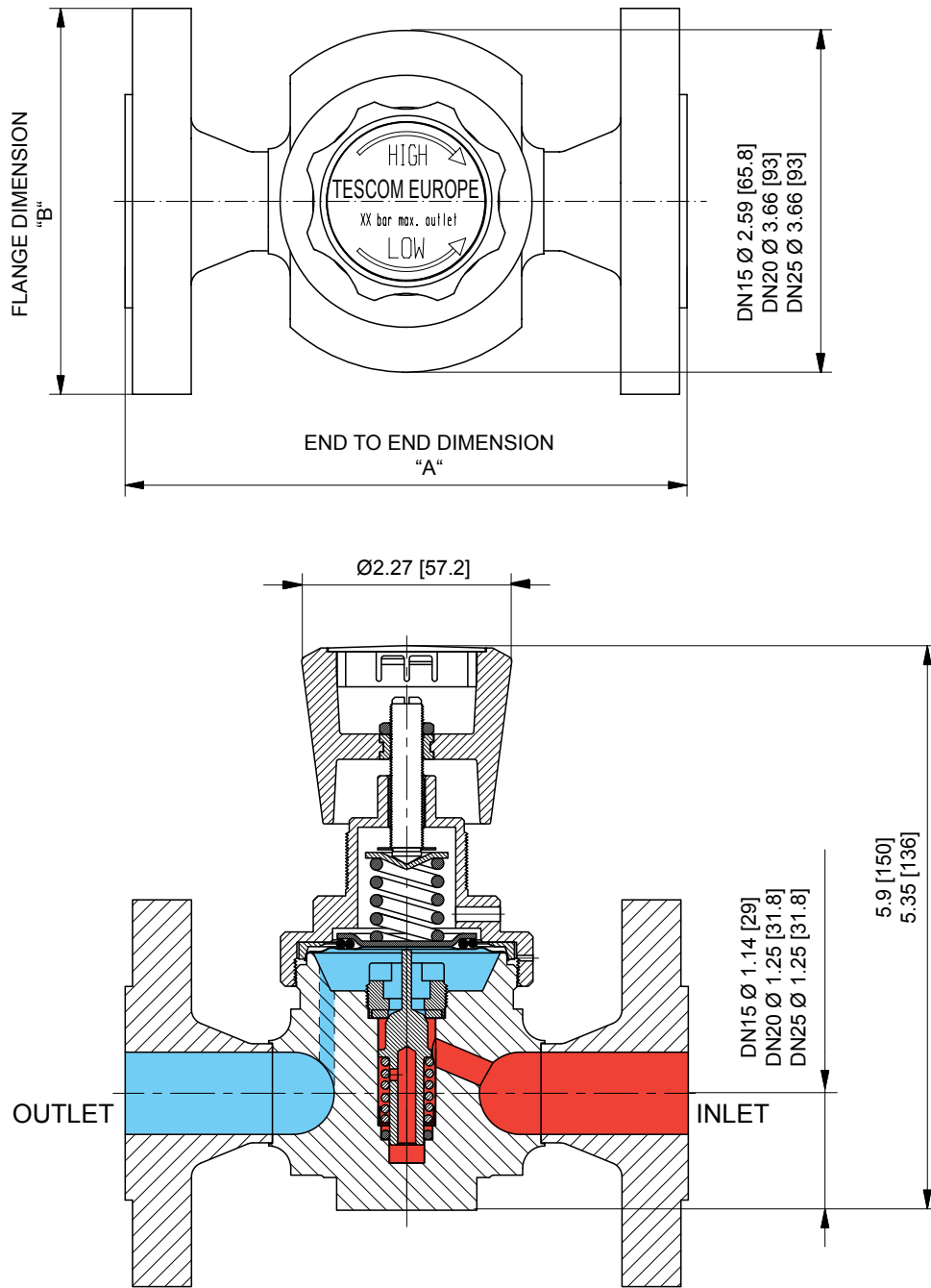
### Applications

- 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

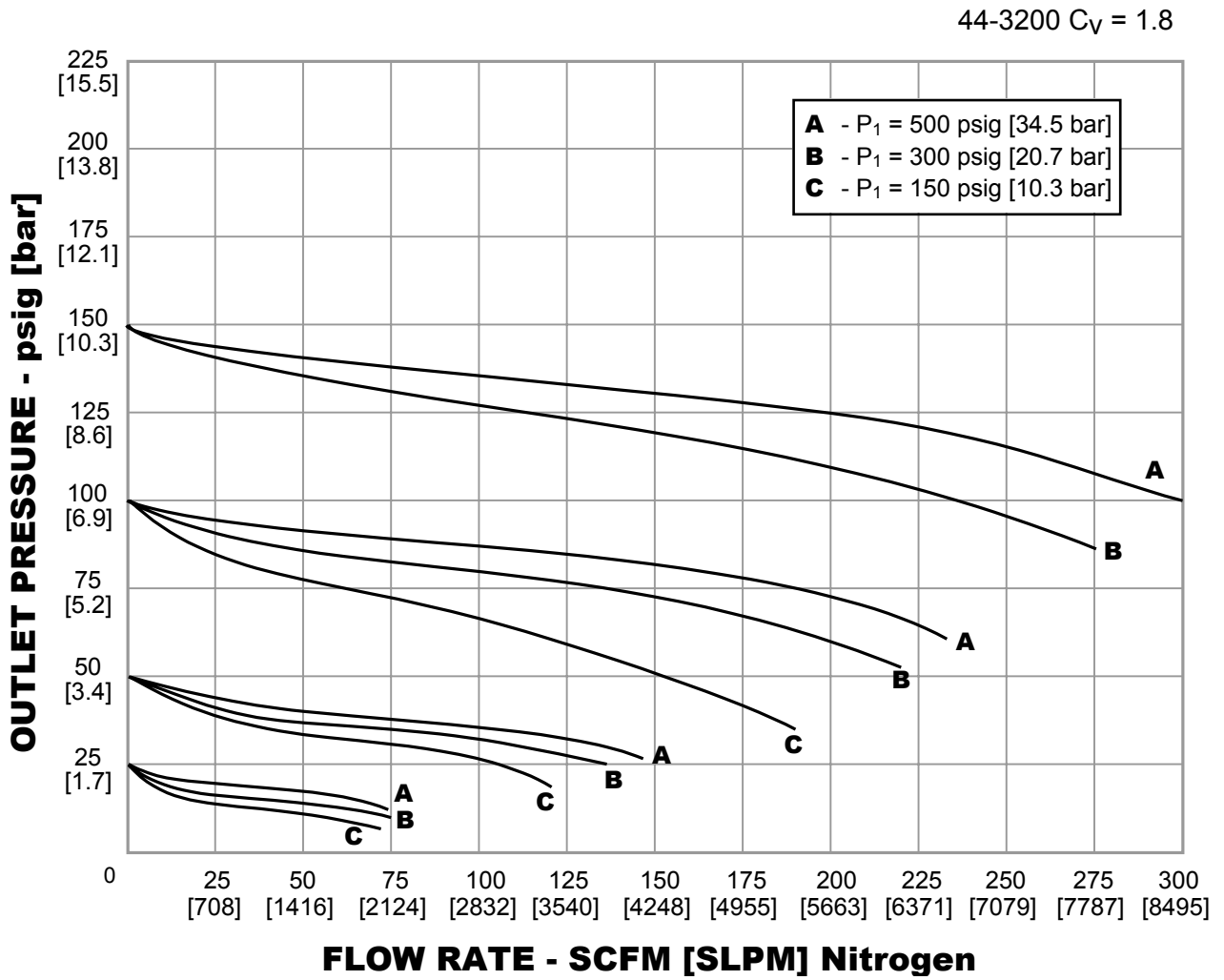
44-3200F Series Regulator Drawing



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](http://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:

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 <sup>1</sup> 7 - 316L diaphragm: Hastelloy®	A - 28" Hg VAC-15 psig 65 mbar abs-1.0 bar <sup>1</sup> B - 28" Hg VAC-30 psig 65 mbar abs-2.1 bar <sup>1</sup> C - 28" Hg VAC-60 psig 65 mbar abs-4.1 bar <sup>1</sup> D - 28" Hg VAC-100 psig 65 mbar abs-6.9 bar <sup>1</sup> 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	G - DN 10 K - DN 15 L - DN 20 M - DN 25	5.12 [130] 5.12 [130] 5.9 [150] 6.3 [160]	3.54 [90] 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 	2 - C <sub>v</sub> = 1.8 3 - C <sub>v</sub> = 1.0 <sup>1</sup>	N - Non-Venting
<p>1. C<sub>v</sub> = 1.0 and diaphragm material 316L Stainless Steel are not available for 44-326A, B, C, D</p>									



**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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