ZIMMERLI MESSTECHNIK AG
Since 1974

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 x 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

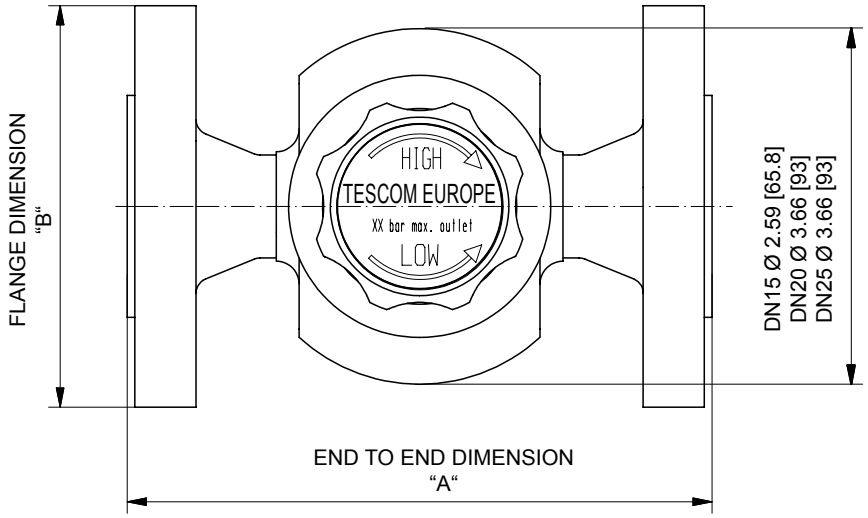
- Purge processes (e.g. nitrogen)
- First-stage regulator for nitrogen blanketing applications

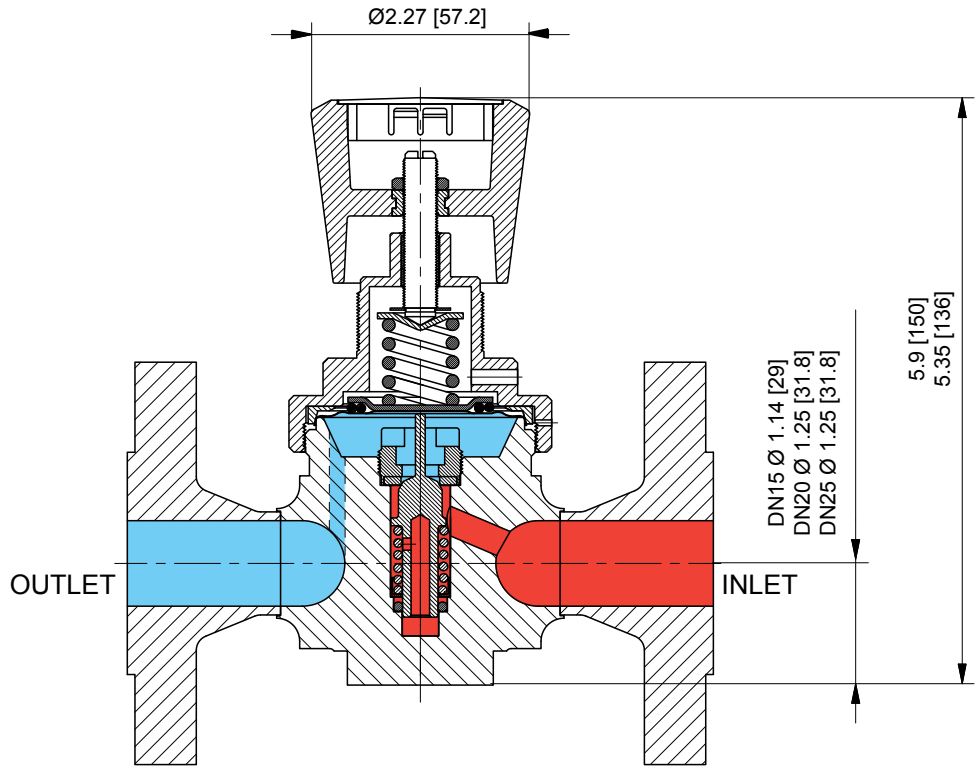
Features and Benefits

- 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

TESCOM

44-3200F Series Regulator Drawing



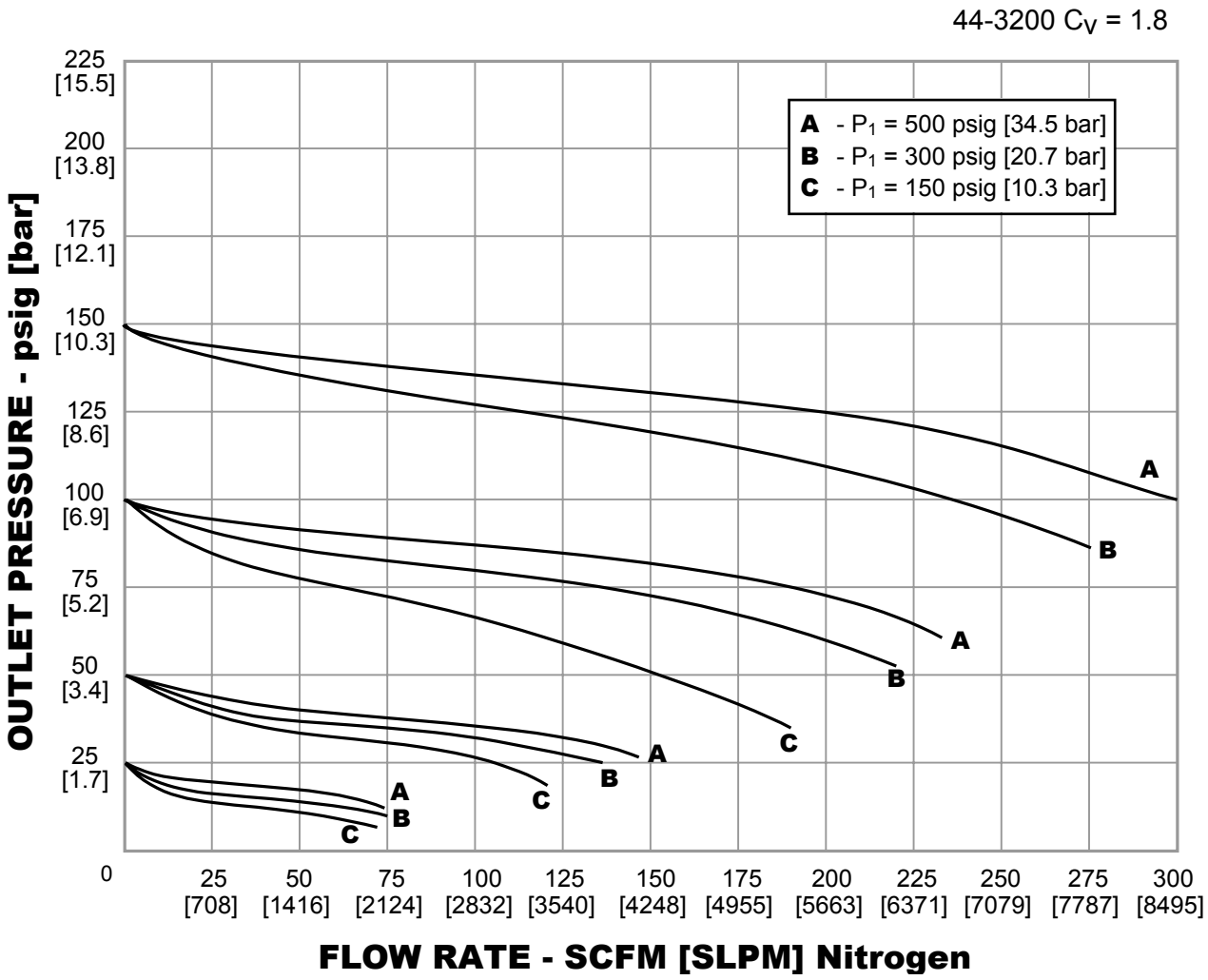


All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

EMERSON
Process Management

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:

FLANGE — EN 1092-1

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] **7 –** 316L diaphragm: Hastelloy®	**A –** 28" Hg VAC-15 psig 65 mbar abs-1.0 bar[1] **B –** 28" Hg VAC-30 psig 65 mbar abs-2.1 bar[1] **C –** 28" Hg VAC-60 psig 65 mbar abs-4.1 bar[1] **D –** 28" Hg VAC-100 psig 65 mbar abs-6.9 bar[1] **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_V = 1.8 **3 –** C_V = 1.0[1]	**N –** Non-Venting

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.*