

# 44-2200F Series

Regulators - Pressure Reducing

D4422FL10138XEN2

## 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

0-25, 0-50, 0-100, 0-250, 0-500 psig  
0-1.7, 0-3.4, 0-6.9, 0-17.2, 0-34.5 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

$C_v = 0.06$

$C_v = 0.15$

#### Operating Temperature

-15°F to 165°F / -26°C to 74°C

### MEDIA CONTACT MATERIALS

#### Body

316L Stainless Steel

#### Seat

Teflon®

#### Friction Sleeve (Inner)

Teflon®

#### Friction Sleeve (Outer)

316 Stainless Steel

#### Diaphragm

316L Stainless Steel

#### Remaining Parts

316 Stainless Steel

### OTHER

#### Weight (approximate)

**DN 15:** 6.6 lbs / 3.0 kg

**DN 20/25:** 12 lbs / 5.4 kg

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TESCOM 44-2200F Series low flow, pressure reducing regulators provide welded flanges according to EN 1092 and are suitable for gas applications.

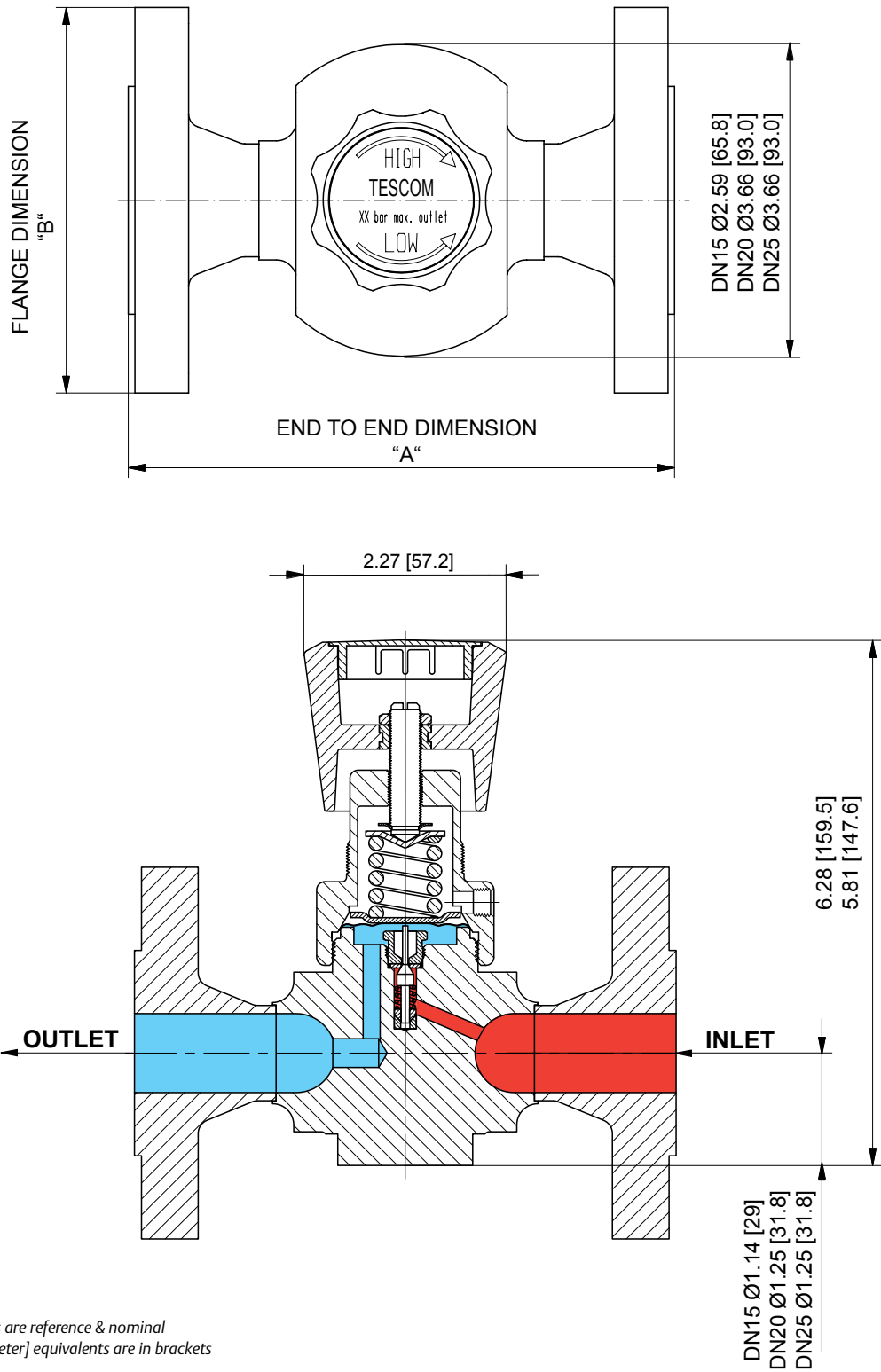
## Applications

- Sampling for analytical applications
- Low flow media supply for various processes

## Features and Benefits

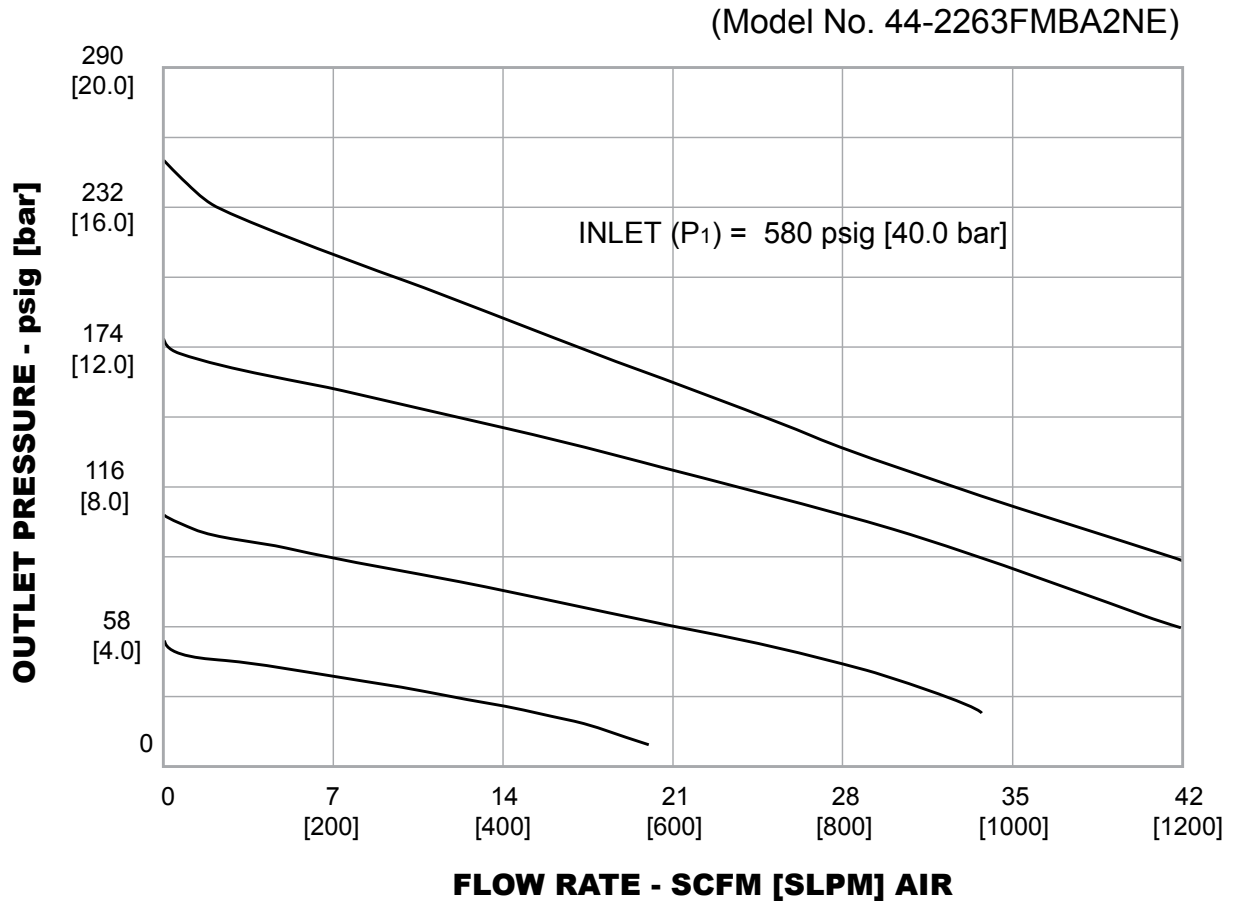
- Flange connections according to DIN EN 1092-1 Type 11 for easy line integration
- Face-to-face dimensions according to DIN EN 558, Row 1
- Connection up to DN 25
- Compact in size
- Designed to reduce contamination and provide accurate regulation of any corrosive, non-corrosive, or toxic gas
- Metal-to-metal diaphragm to body seal ensures minimum inboard and outboard leakage
- Convoluted diaphragm provides excellent accuracy and long service life
- Other connection standards are available upon request

44-2200F Series Regulator Drawing



### 44-2200F 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).



## 44-2200F 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:

44-22	6	1	F	K	B	F	2	N	E
			FLANGE				EN 1092-1		
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
44-22	6 – 316L Stainless Steel	0 – 0-25 psig 0-1.7 bar	K – DN 15	5.12 130	3.74 95	B – Form B - raised face	A – None 	1 – C <sub>v</sub> = 0.06 2 – C <sub>v</sub> = 0.15	N – Non-Venting
		1 – 0-50 psig 0-3.4 bar	L – DN 20	5.90 150	4.13 105	D – Form D - ring joint	D – 1/4" NPTF 1 x out 		
		2 – 0-100 psig 0-6.9 bar	M – DN 25	6.30 160	4.53 115		E – 1/4" NPTF 1 x out 		
		3 – 0-250 psig 0-17.2 bar					F – 1/4" NPTF 1 x in 		
		4 – 0-500 psig 0-34.5 bar					L – 1/4" NPTF 1 x in, 1 x out 		

### Kits

	BASIC SERIES	PART NUMBER
NON METALLIC	44-22XXFXXX1E	389-6341
	44-22XXFXXX2E	389-6348
REPAIR	44-22XXFXXX1E	389-6342
	44-22XXFXXX2E	389-6350



**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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