

Specifications

For other materials or modifications, please consult TESCO.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressures

Air Loaded: 450 psig / 31.0 bar
Dome Loaded: 1000 psig / 68.9 bar
Spring Loaded: 0-30 psig / 0-2.1 bar
 0-80 psig / 0-5.5 bar
 0-185 psig / 0-12.8 bar
 0-300 psig / 0-20.7 bar
 0-375 psig / 0-25.9 bar

Reference Pressure

Air Loaded: 150 psig maximum (3.1 ratio) / 10.3 bar
Dome Loaded: 1000 psig maximum / 68.9 bar

Design Proof Pressure

150% rated pressure

Leakage

Bubble-tight

Operating Temperature

See Part Number Selector

Flow Capacity

$C_v = 2.0$

MEDIA CONTACT MATERIALS

Seat, Main Valve

CTFE, Polyimide (Vespel® SP21)

Body, Bonnet, Back Cap

Brass, 303 Stainless Steel, 316 Stainless Steel

O-Rings

Nitrile, Buna-N, Ethylene Propylene, FKM (Viton®-A)

Diaphragm

PTFE

Remaining Parts

300 Series Stainless Steel, Nitronic 60

OTHER

Cleaning

CGA 4.1 and ASTM G93

Weight (approximate)

10.5 lbs / 4.8 kg

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

Gylon® is a registered trademark of Garlock, Inc.



TESCOM 26-2700 Series is a high flow, low pressure backpressure regulator with spring, dome and air loading options.

Applications

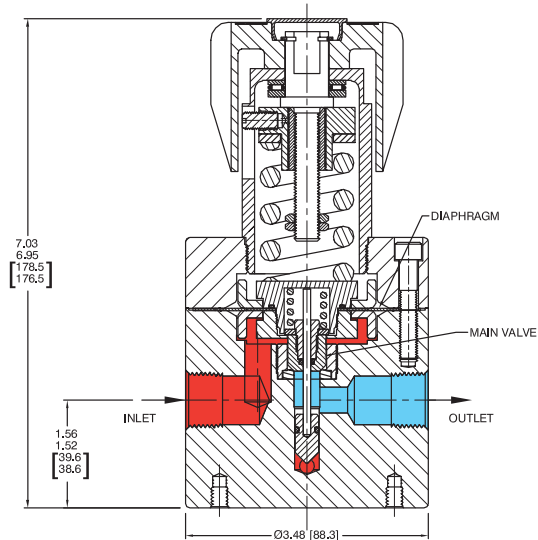
- Pump and compressor control
- Process pressure control
- High flow, low pressure chemical injection

Features and Benefits

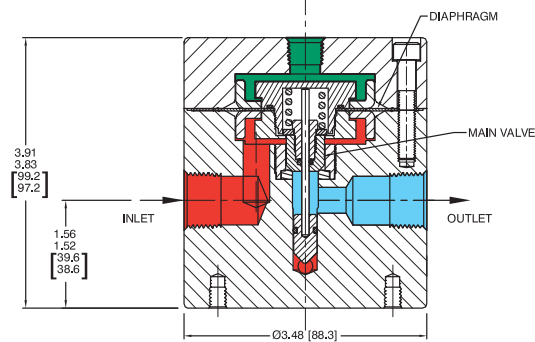
- Gas or liquid service
- Dome and air actuated models are available
- Compatible with TESCO ER5000 Electropneumatic Controllers
- High flow capabilities

26-2700 SERIES

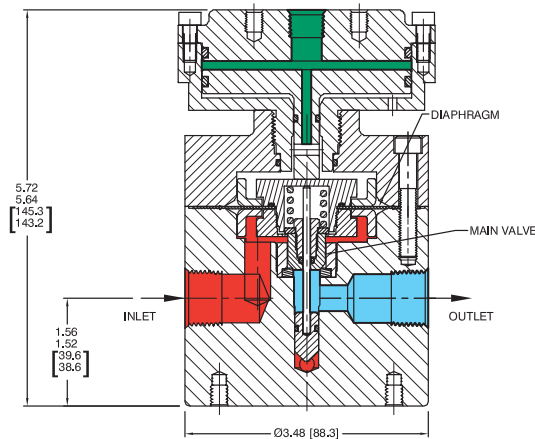
26-2700 Series Regulator Drawing



Spring Load



Dome Load

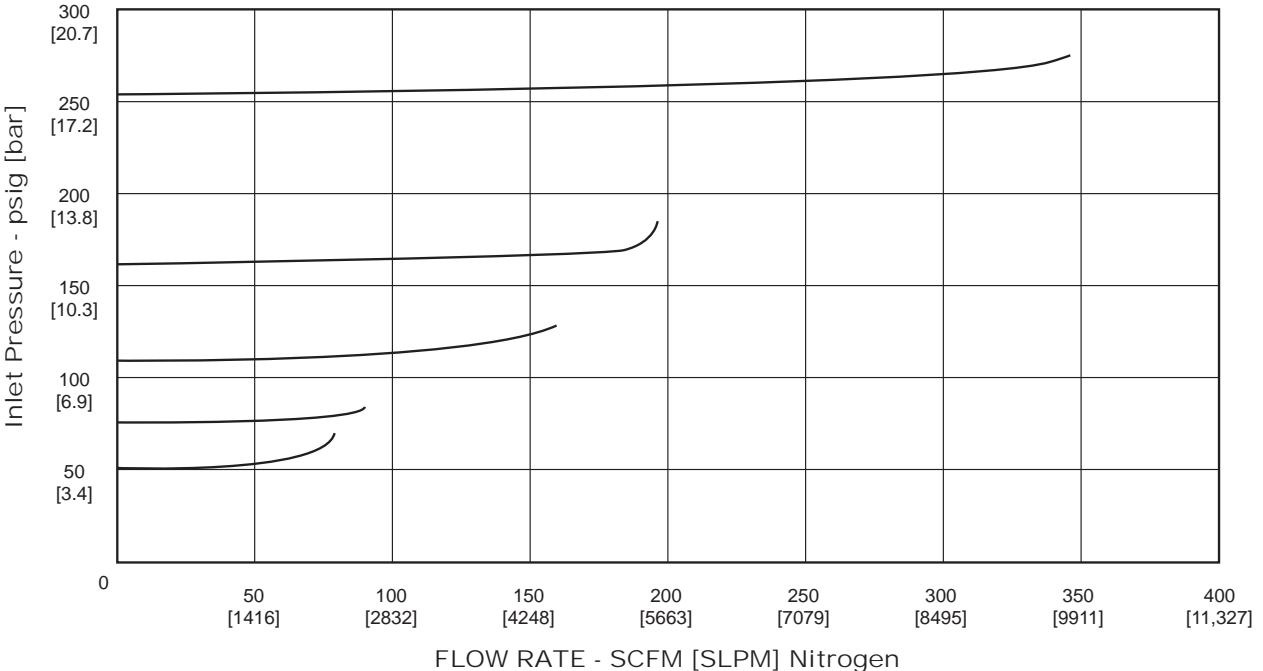
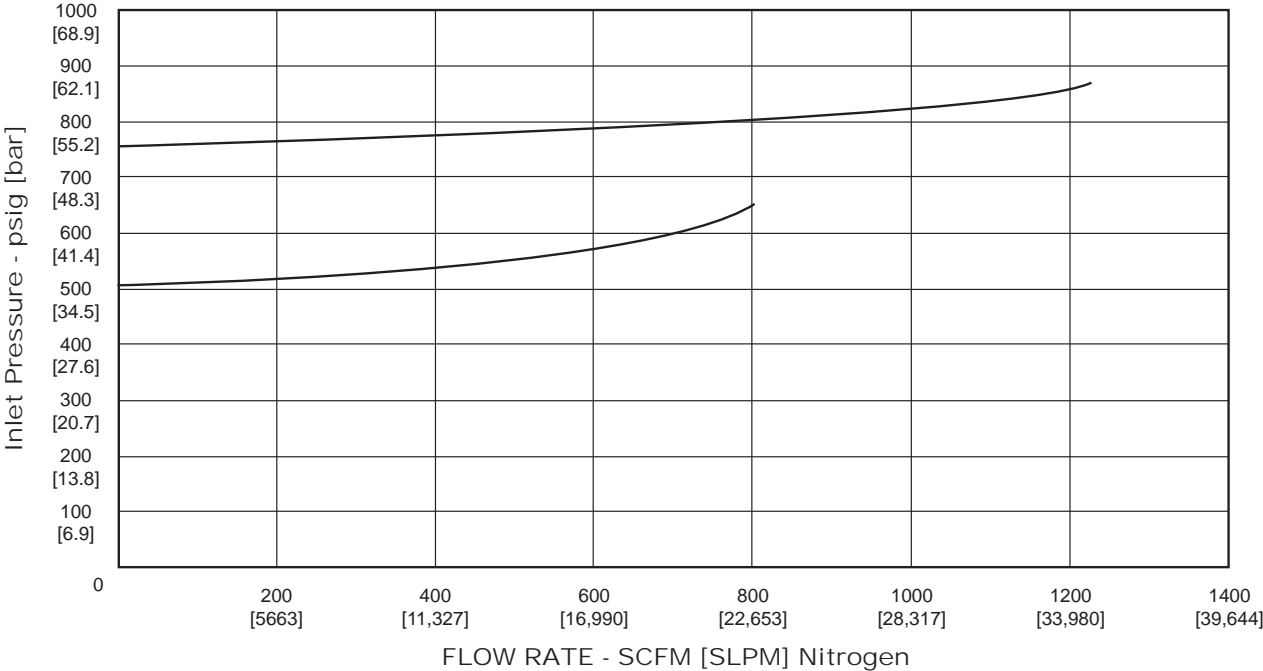


Air Load

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

26-2700 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 TESCO catalog or on www.tescom.com.



26-2700 SERIES

26-2700 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:

Air Loaded

26-27 2 0 - V 2 08A

| BASIC SERIES | BODY MATERIAL | MAXIMUM INLET PRESSURE | MATERIALS | | OPERATING TEMPERATURE* | INLET AND OUTLET PORT TYPE | INLET AND OUTLET PORT SIZE |
|--------------|-------------------------|--------------------------|------------|--------------|--------------------------------|----------------------------|----------------------------|
| | | | O-RING | VALVE SEAT | | | |
| 26-27 | 1 – Brass | 0 – 450 psig 31.0 bar | B – BUNA-N | CTFE | -40°F to 165°F / -40°C to 74°C | 1 – SAE | 08 – 1/2" |
| | 2 – 303 Stainless Steel | | E – E.P. | Vespel® SP21 | -40°F to 165°F / -40°C to 74°C | | |
| | | | M – E.P. | CTFE | -40°F to 165°F / -40°C to 74°C | | |
| | | | V – Viton® | CTFE | 0°F to 165°F / -18°C to 74°C | | |
| | | | W – Viton® | Vespel® SP21 | 0°F to 300°F / -18°C to 149°C | | |

Dome Loaded

26-27 2 0 - V 2 08D

| BASIC SERIES | BODY MATERIAL | MAXIMUM INLET PRESSURE | MATERIALS | | OPERATING TEMPERATURE* | INLET AND OUTLET PORT TYPE | INLET AND OUTLET PORT SIZE |
|--------------|-------------------------|---------------------------|--------------------|--------------------------|--------------------------------|----------------------------|----------------------------|
| | | | O-RING | VALVE SEAT | | | |
| 26-27 | 1 – Brass | 0 – 1000 psig 68.9 bar | E – E.P. | Polyimide (Vespel® SP21) | -40°F to 165°F / -40°C to 74°C | 1 – SAE | 08 – 1/2" |
| | 2 – 303 Stainless Steel | | M – E.P. | PCTFE | -40°F to 165°F / -40°C to 74°C | | |
| | 6 – 316 Stainless Steel | | V – FKM (Viton®-A) | PCTFE | 0°F to 165°F / -18°C to 74°C | | |
| | | | W – FKM (Viton®-A) | Polyimide (Vespel® SP21) | 0°F to 300°F / -18°C to 149°C | | |

Spring Loaded

26-27 2 2 - V 2 08S

| BASIC SERIES | BODY MATERIAL | MAXIMUM INLET PRESSURE | MATERIALS | | OPERATING TEMPERATURE* | INLET AND OUTLET PORT TYPE | INLET AND OUTLET PORT SIZE |
|--------------|------------------------------|------------------------------|--------------------|--------------------------|--------------------------------|----------------------------|----------------------------|
| | | | O-RING | VALVE SEAT | | | |
| 26-27 | 1 – Brass | 0 – 0-30 psig 0-2.1 bar | E – E.P. | Polyimide (Vespel® SP21) | -40°F to 165°F / -40°C to 74°C | 1 – SAE | 08 – 1/2" |
| | 2 – 303 Stainless Steel | 1 – 0-80 psig 0-5.5 bar | M – E.P. | PCTFE | -40°F to 165°F / -40°C to 74°C | | |
| | 6 – 316 Stainless Steel | 2 – 0-185 psig 0-12.8 bar | V – FKM (Viton®-A) | PCTFE | 0°F to 165°F / -18°C to 74°C | | |
| | | 3 – 0-300 psig 0-20.7 bar | W – FKM (Viton®-A) | Polyimide (Vespel® SP21) | 0°F to 300°F / -18°C to 149°C | | |
| | 4 – 0-375 psig 0-25.9 bar | | | | | | |

* Brass body is limited to +200 °F (93 °C) maximum.