TESCOM

26-2700 Series

Regulators - Relief / Backpressure

D26271957X012

Specifications

For other materials or modifications, please consult TESCOM.

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, Vespel® SP21

Body, Bonnet, Back Cap
Brass, 303 Stainless Steel, 316 Stainless Steel

O-Rings
Buna-N, E.P., Viton®

Diaphragm
Gylon®

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.

DOME

SPRING

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

Applications

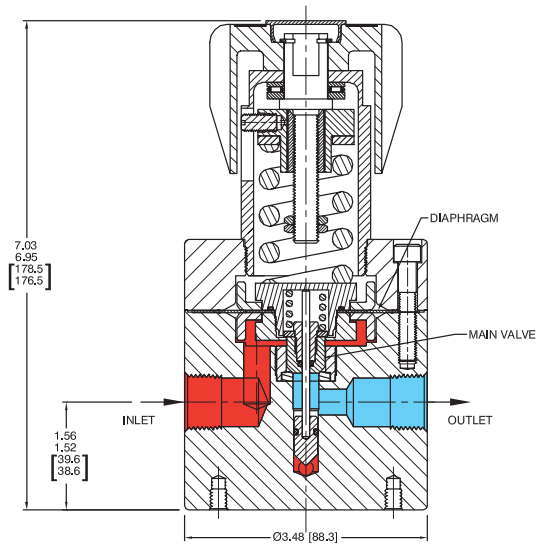
- Pump and compressor control
- Process pressure control
- High flow, low pressure chemical injection

Features and Benefits

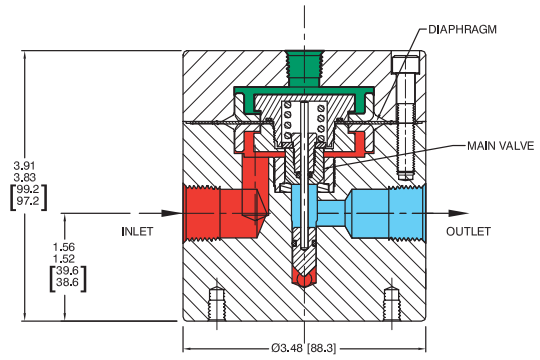
- Gas or liquid service
- Dome and air actuated models are available
- Compatible with TESCOM ER5000 Electropneumatic Controllers
- High flow capabilities

EMERSON
Process Management

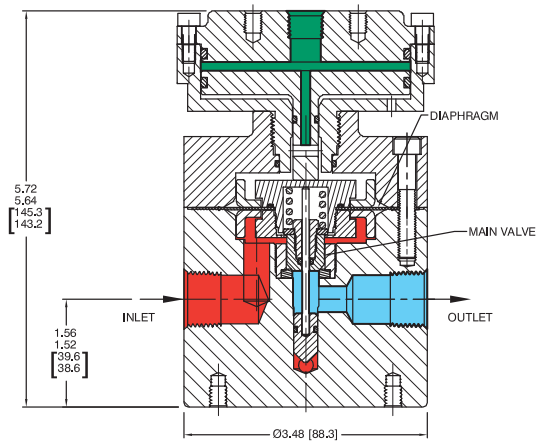
26-2700 Series Regulator Drawing



Spring Load



Dome Load

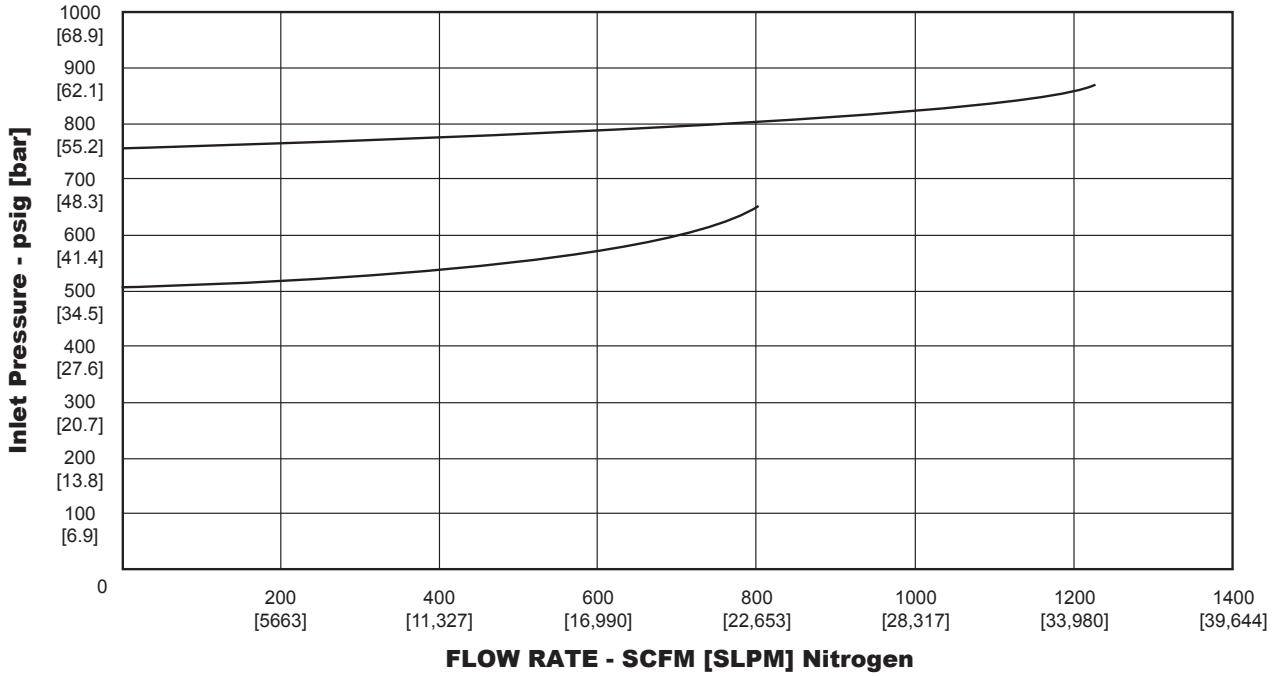


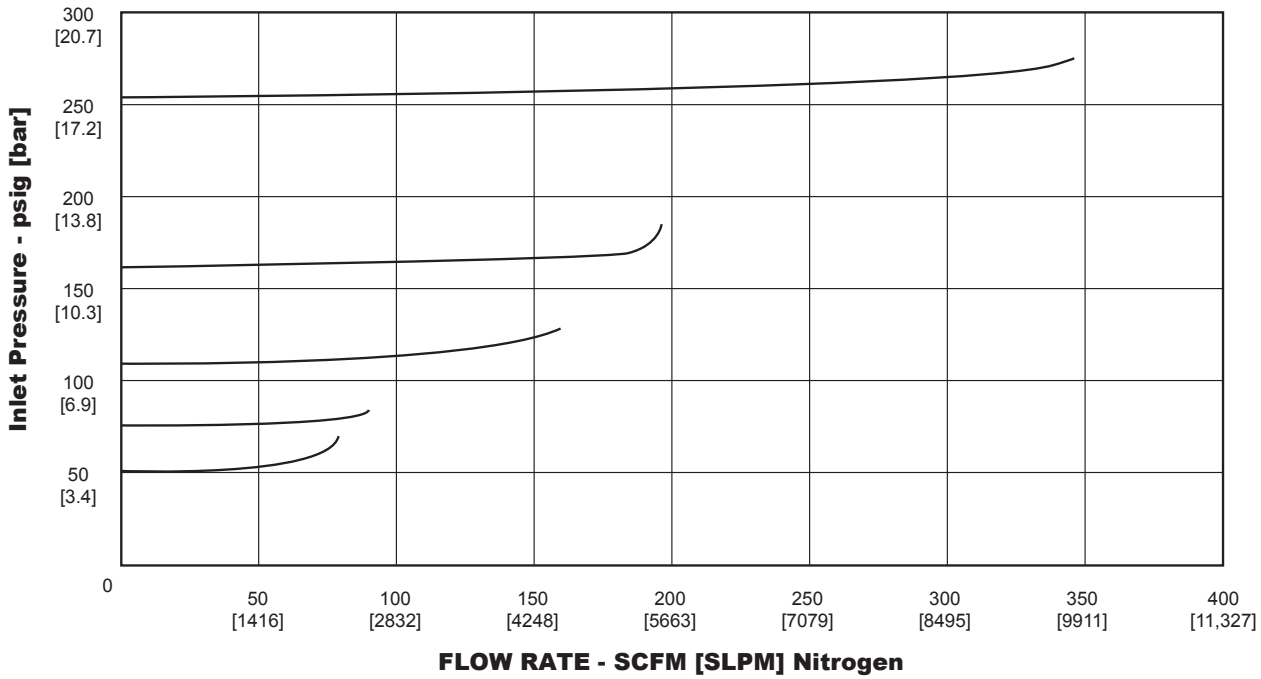
Air Load

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 TESCOM catalog or on www.tescom.com.





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	**2 –** NPTF	**12 –** 3/4"
			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.	Vespel® SP21	-40°F to 165°F / -40°C to 74°C	**1 –** SAE	**08 –** 1/2"
	2 – 303 Stainless Steel		**M –** E.P.	CTFE	-40°F to 165°F / -40°C to 74°C	**2 –** NPTF	**12 –** 3/4"
	6 – 316 Stainless Steel		**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		

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.	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.	CTFE	-40°F to 165°F / -40°C to 74°C	**2 –** NPTF	**12 –** 3/4"
	6 – 316 Stainless Steel	**2 –** 0-185 psig 0-12.8 bar	**V –** Viton®	CTFE	0°F to 165°F / -18°C to 74°C		
		3 – 0-300 psig 0-20.7 bar	**W –** Viton®	Vespel® SP21	0°F to 300°F / -18°C to 149°C		
		4 – 0-375 psig 0-25.9 bar					