

20-1000 Series Regulators - Pressure Reducing

D20101932X012

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure

3600 psig / 248 bar

Outlet Pressure Ranges

50-89 psig / 3.4-6.1 bar

90-200 psig / 6.2-13.8 bar

201-320 psig / 13.9-22.1 bar

Leakage

Bubble-tight

Filtration

40 micron nominal

Operating Temperature

-40°F to 200°F / -40°C to 93°C

Flow Capacity (approximate)

$C_v = 0.5$

MEDIA CONTACT MATERIALS

Body

Aluminum 6061-T6 with Nickel Plating

Seat

Vespe[®]

Main Valve

17-4 Stainless Steel

Sensor

Aluminum 6061-T6

Sensor Insert

17-4 Stainless Steel

Remaining Parts

300 Series Stainless Steel, Teflon[®], Buna-N, Ethylene Propylene

OTHER

Cleaning

CGA 4.1 and ASTM G93

Connections

1/4" Inlet, 3/8" Outlet, NPTF, and SAE

Weight

1.4 lbs / 0.6 kg

Vespe[®] and Teflon[®] are registered trademarks of E.I du Pont de Nemours and Company.



TESCOM 20-1000 Series regulator is designed with lightweight aluminum construction for onboard compressed natural gas vehicles with 7 liter engines and larger. Piston sensed for long service life with a heat exchanger to prevent freezing.

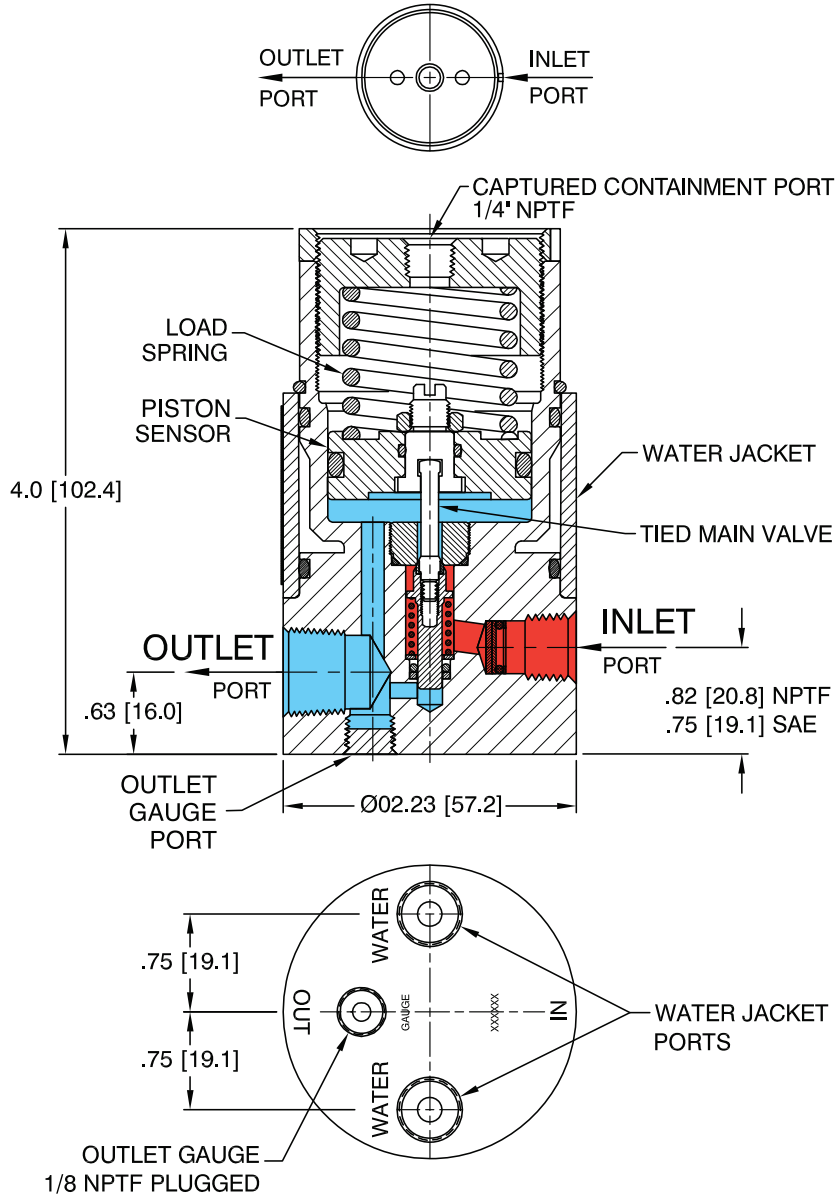
Application

- Compressed natural gas vehicles

Features and Benefits

- Piston-sensed design provides a long service life and enhanced safety
- High flow, low pressure drop
- Balanced valve design minimizes supply pressure effect
- Lightweight, precision machined aluminum construction
- Used in diverse applications for a broad range of temperatures, flows, and pressures
- Wide variety of preset outlet pressures are available
- Heat exchanger eliminates freeze-up
- NGV 3.1 approved

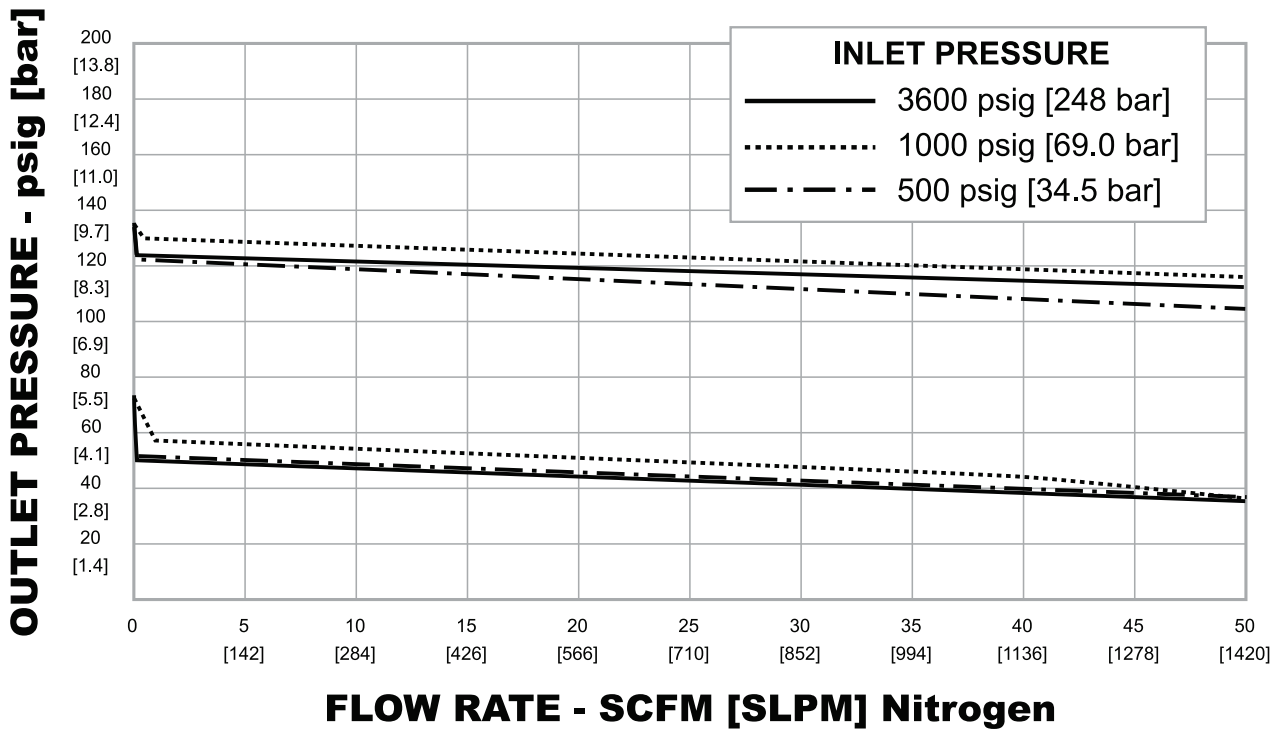
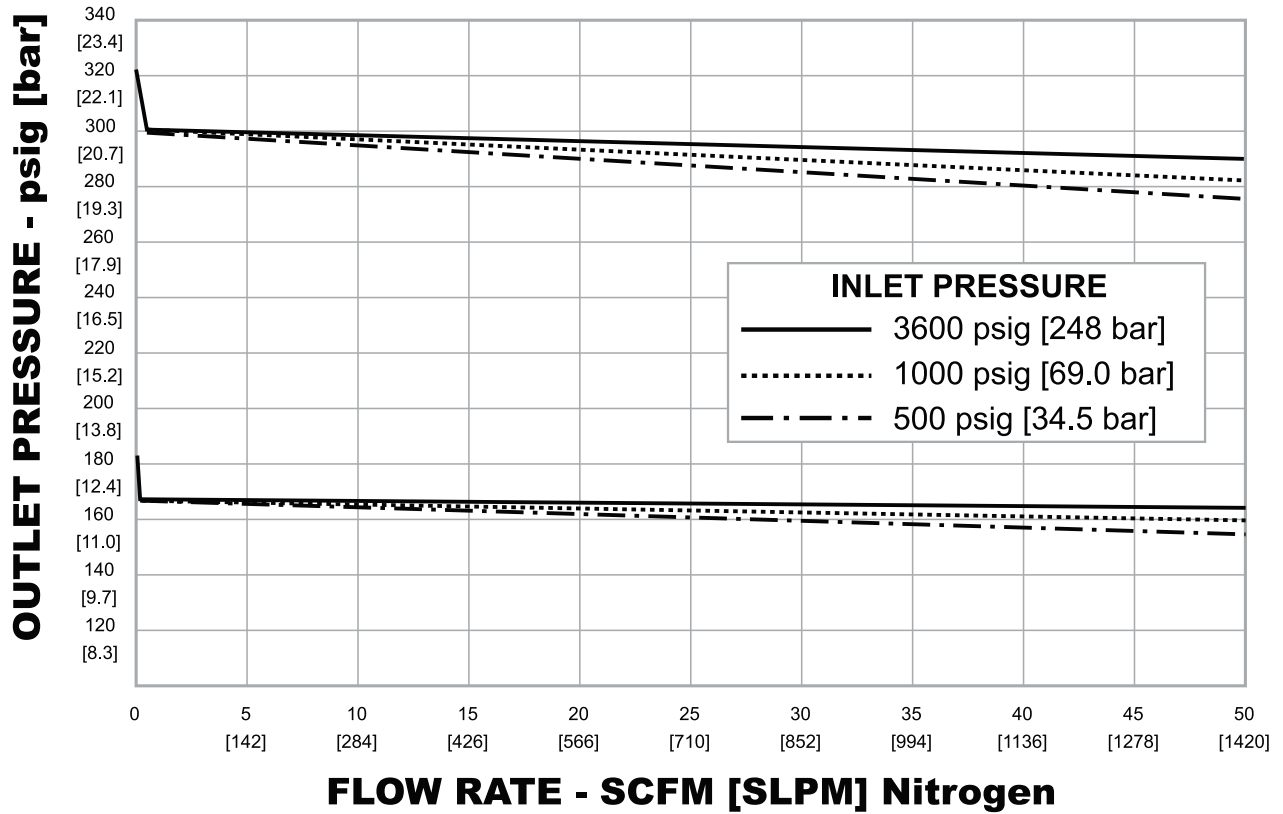
20-1000 Series Regulator Drawing



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

20-1000 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.



20-1000 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:

| 20-10 | 3 | 1 | - 2 | 9 | 01 | SET PRESSURE | | |
|--------------|----------------------|---------------------------|---------------------------|--------------------------|-------------------------------|-------------------------|---------------------------|-------------------------|
| BASIC SERIES | BODY MATERIAL | MAXIMUM OUTLET PRESSURES | SET PRESSURE RANGES | PORT TYPE | INLET AND OUTLET SIZE | SET PRESSURE | | |
| 20-10 | 3 – 6061-T6 Aluminum | 1 – 125 psig 8.6 bar | 50-89 psig 3.4-6.1 bar | 1 – SAE 2 – NPTF | 9 – 1/4" Inlet 3/8" Outlet | 01 – 50 psig 3.4 bar | 10 – 275 psig 19.0 bar | 19 – 65 psig 4.5 bar |
| | | | | | | 02 – 75 psig 5.2 bar | 11 – 300 psig 20.7 bar | 20 – 70 psig 4.8 bar |
| | | 03 – 100 psig 6.9 bar | 12 – 90 psig 6.2 bar | 21 – 89 psig 6.1 bar | | | | |
| | | 04 – 125 psig 8.6 bar | 13 – 185 psig 12.8 bar | 22 – 140 psig 9.7 bar | | | | |
| | | 05 – 150 psig 10.3 bar | 14 – 110 psig 7.6 bar | 26 – 80 psig 5.5 bar | | | | |
| | | 06 – 175 psig 12.1 bar | 15 – 120 psig 8.3 bar | 27 – 105 psig 7.2 bar | | | | |
| | | 07 – 200 psig 13.8 bar | 16 – 170 psig 11.7 bar | 28 – 60 psig 4.1 bar | | | | |
| | | 08 – 225 psig 15.5 bar | 17 – 320 psig 22.1 bar | 29 – 115 psig 7.9 bar | | | | |
| | | 09 – 250 psig 17.2 bar | 18 – 135 psig 9.3 bar | 30 – 95 psig 6.6 bar | | | | |