

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.

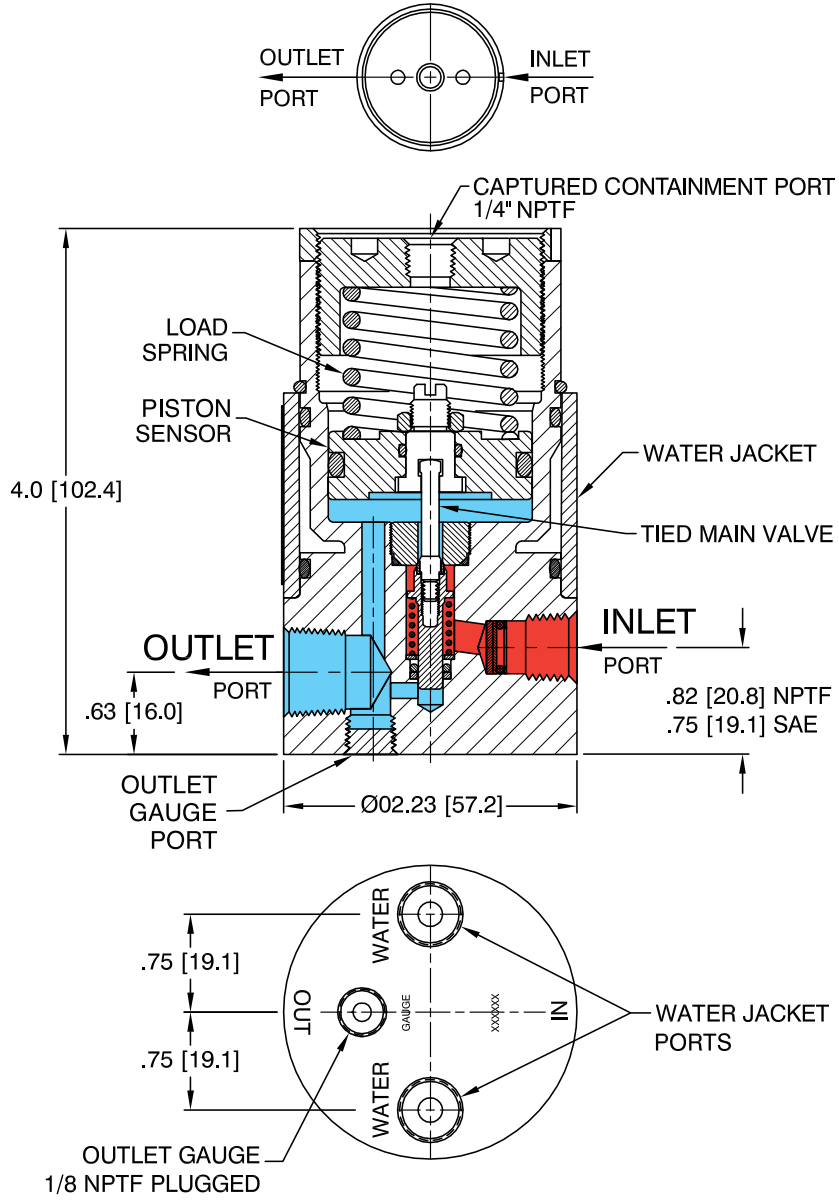
Application

- 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

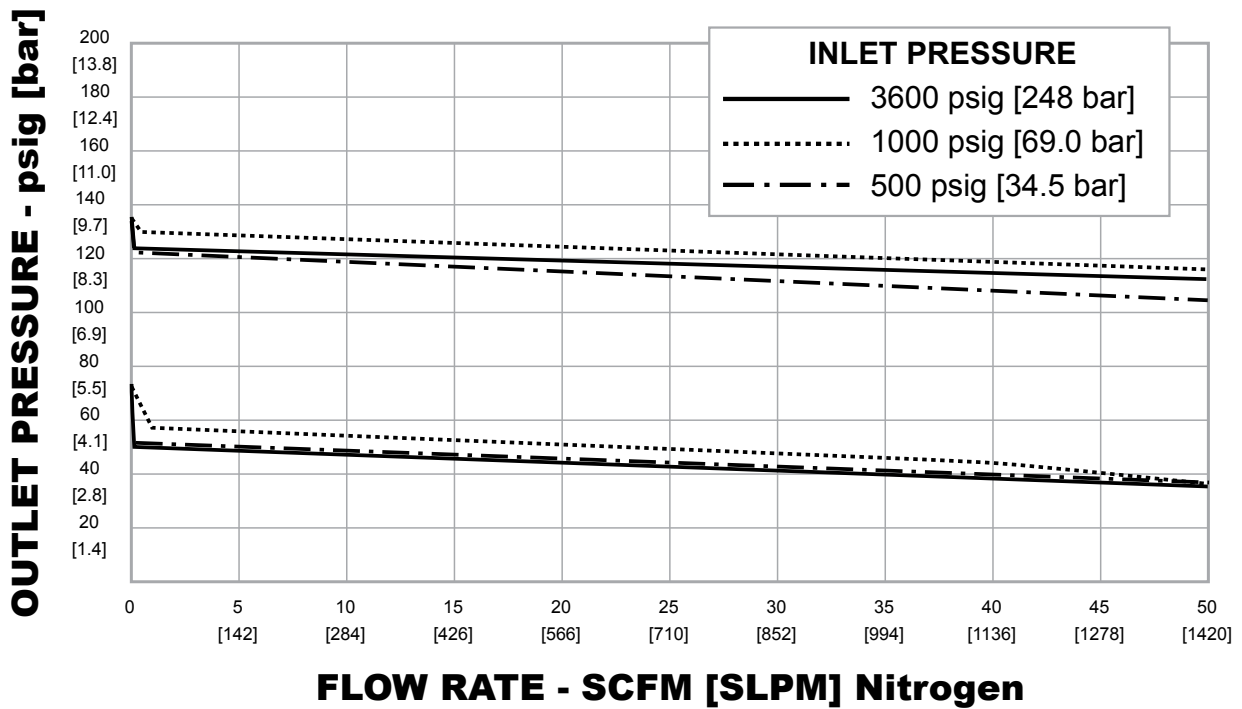
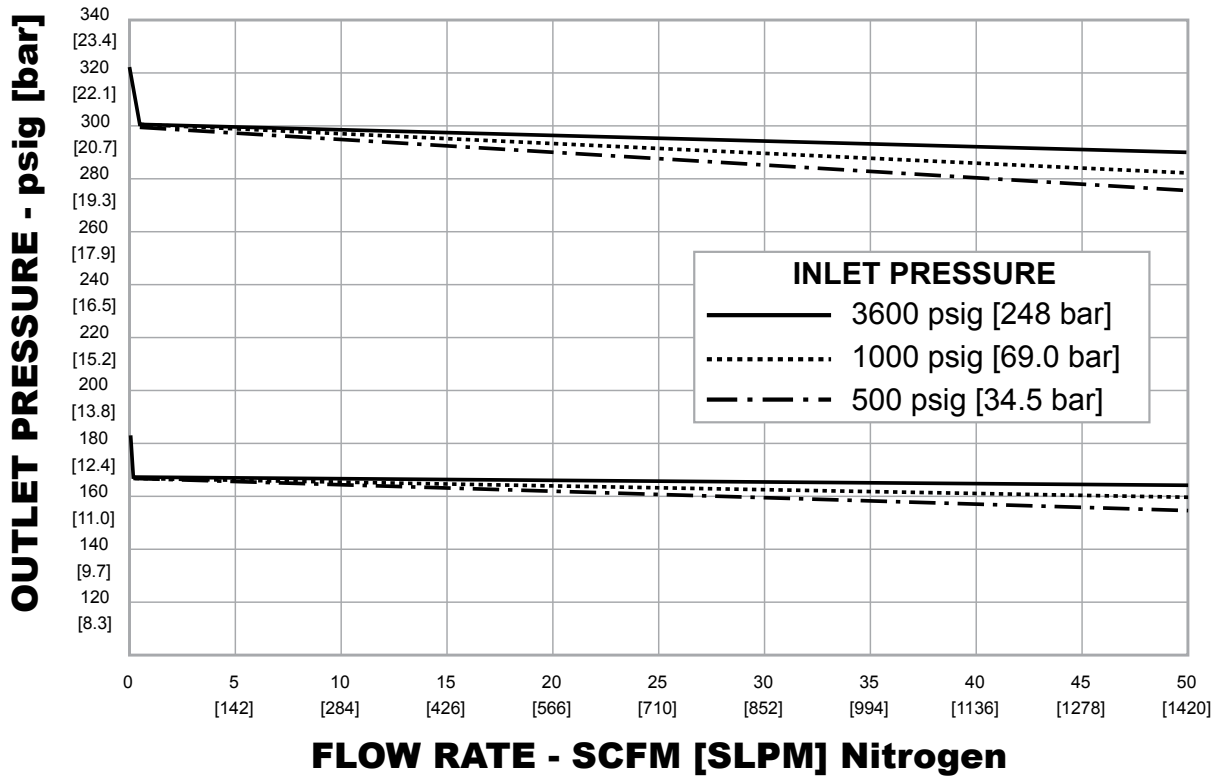
20-1000 Series Regulator Drawing



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			
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 2 – 235 psig 16.2 bar 3 – 320 psig 22.1 bar	50-89 psig 3.4-6.1 bar 90-200 psig 6.2-13.8 bar 201-320 psig 13.9-22.1 bar	1 – SAE 2 – NPTF	9 – 1/4" Inlet 3/8" Outlet	01 – 50 psig 3.4 bar 02 – 75 psig 5.2 bar 03 – 100 psig 6.9 bar 04 – 125 psig 8.6 bar 05 – 150 psig 10.3 bar 06 – 175 psig 12.1 bar 07 – 200 psig 13.8 bar 08 – 225 psig 15.5 bar 09 – 250 psig 17.2 bar	10 – 275 psig 19.0 bar 11 – 300 psig 20.7 bar 12 – 90 psig 6.2 bar 13 – 185 psig 12.8 bar 14 – 110 psig 7.6 bar 15 – 120 psig 8.3 bar 16 – 170 psig 11.7 bar 17 – 320 psig 22.1 bar 18 – 135 psig 9.3 bar	19 – 65 psig 4.5 bar 20 – 70 psig 4.8 bar 21 – 89 psig 6.1 bar 22 – 140 psig 9.7 bar 26 – 80 psig 5.5 bar 27 – 105 psig 7.2 bar 28 – 60 psig 4.1 bar 29 – 115 psig 7.9 bar 30 – 95 psig 6.6 bar



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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