

## 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<sub>v</sub> = 0.5

### MEDIA CONTACT MATERIALS

#### Body

Aluminum 6061-T6 with Nickel Plating

#### Seat

Vespel®

#### 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

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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.

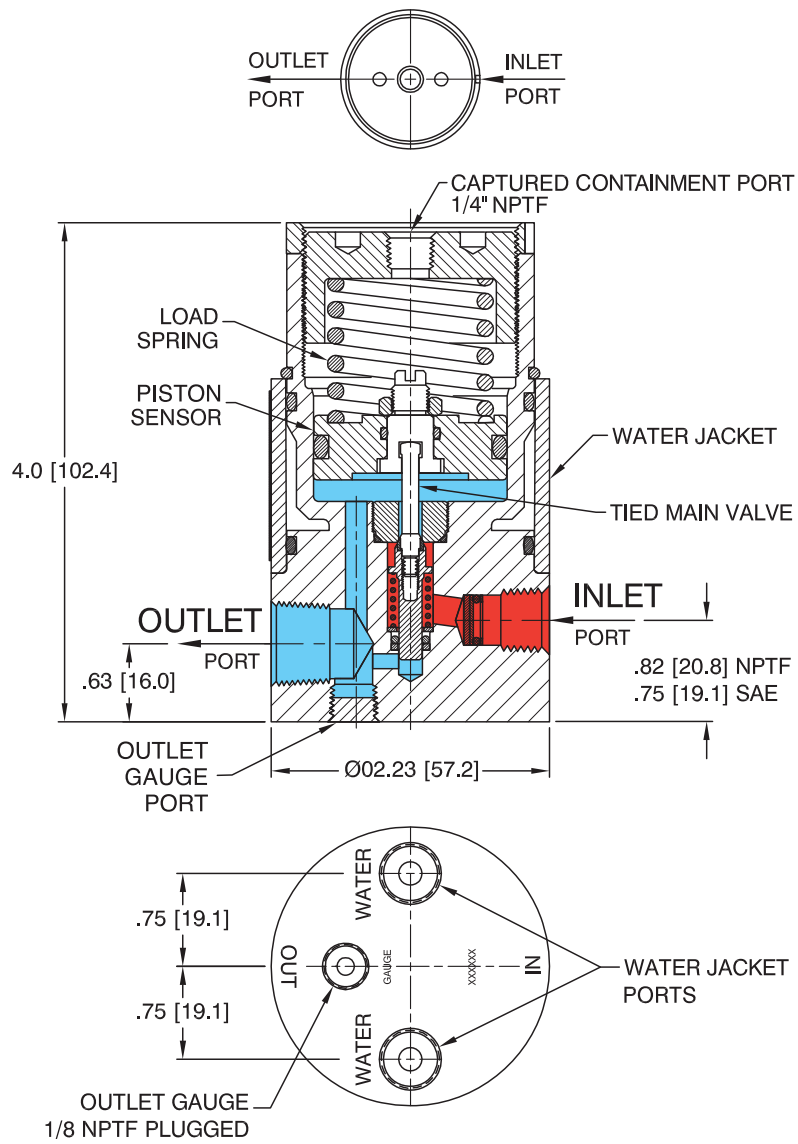
## Application

- 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

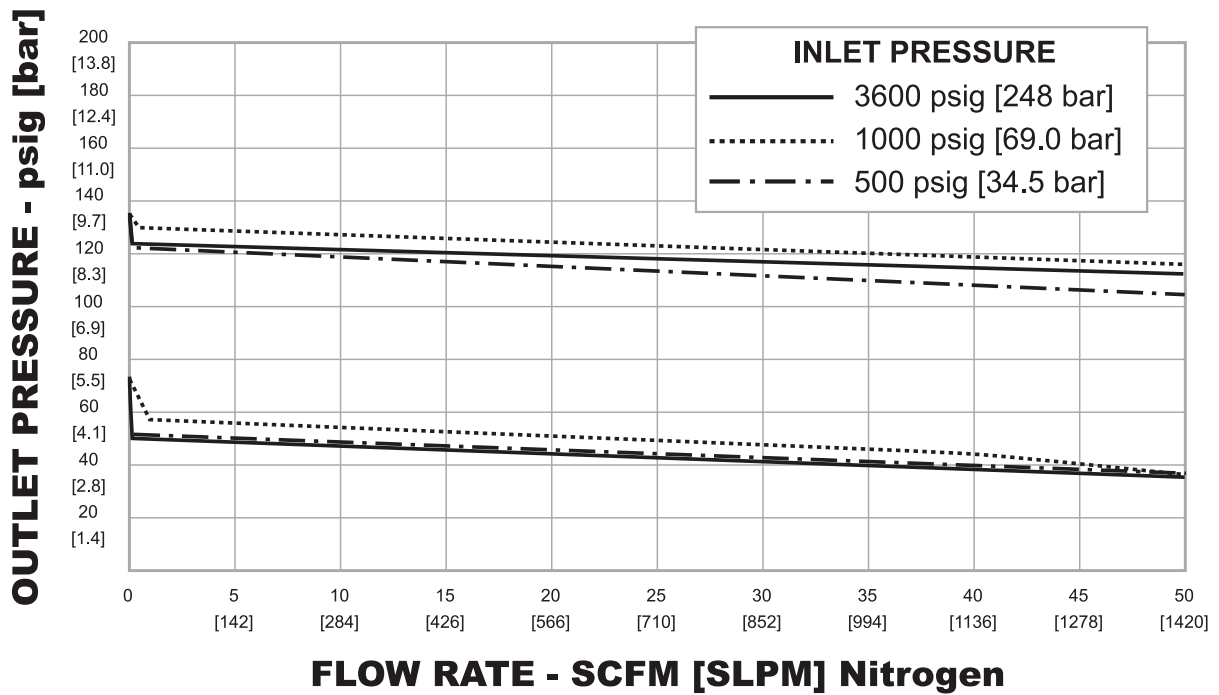
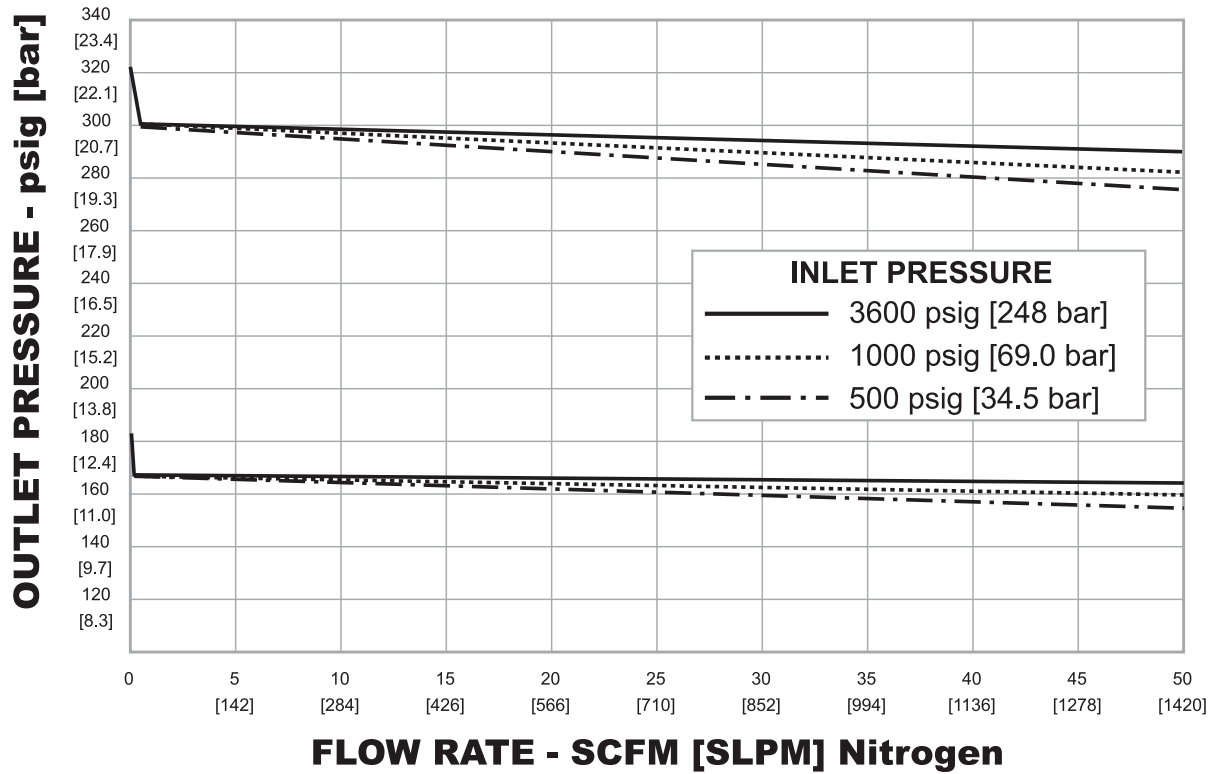
20-1000 Series Regulator Drawing



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](http://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	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
		2 – 235 psig 16.2 bar	90-200 psig 6.2-13.8 bar			02 – 75 psig 5.2 bar	11 – 300 psig 20.7 bar	20 – 70 psig 4.8 bar
		3 – 320 psig 22.1 bar	201-320 psig 13.9-22.1 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