

# 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<sup>®</sup>

**Main Valve**

17-4 Stainless Steel

**Sensor**

Aluminum 6061-T6

**Sensor Insert**

17-4 Stainless Steel

**Remaining Parts**

300 Series Stainless Steel, Teflon<sup>®</sup>, 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<sup>®</sup> and Teflon<sup>®</sup> 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.

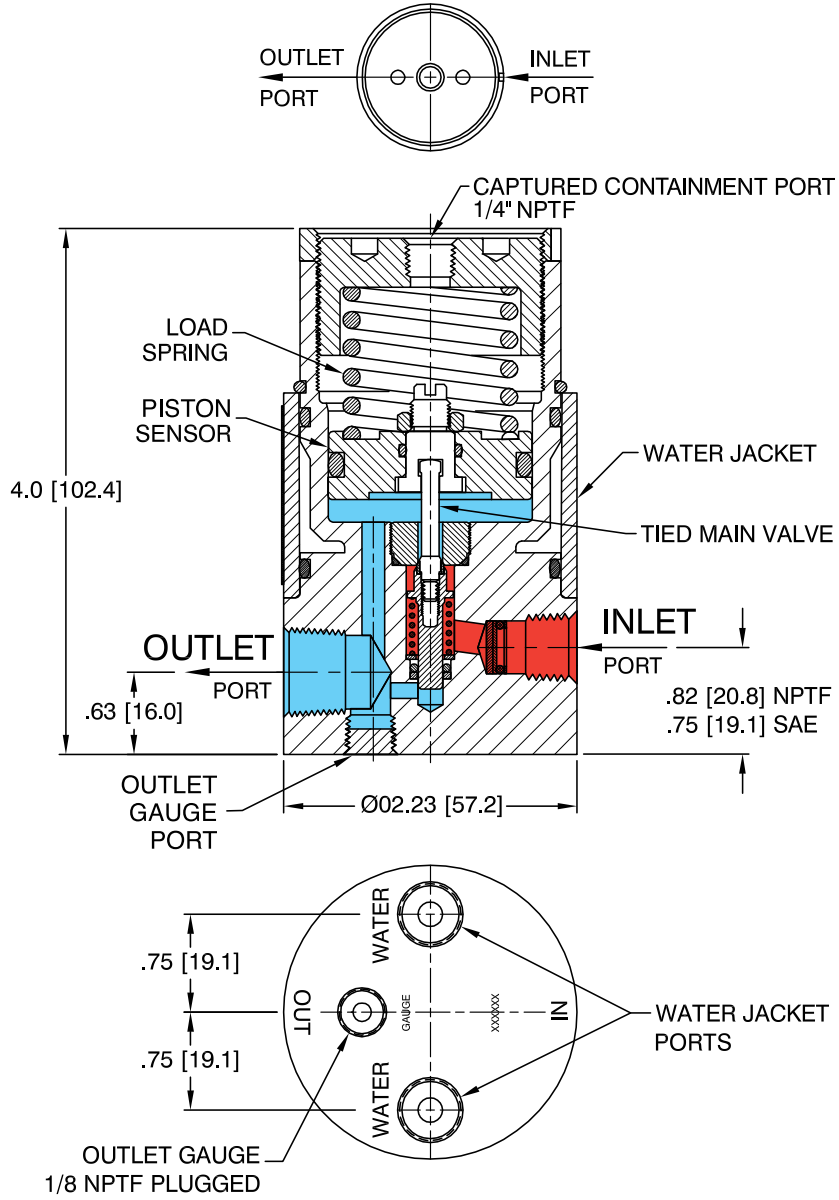
### Application

- 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

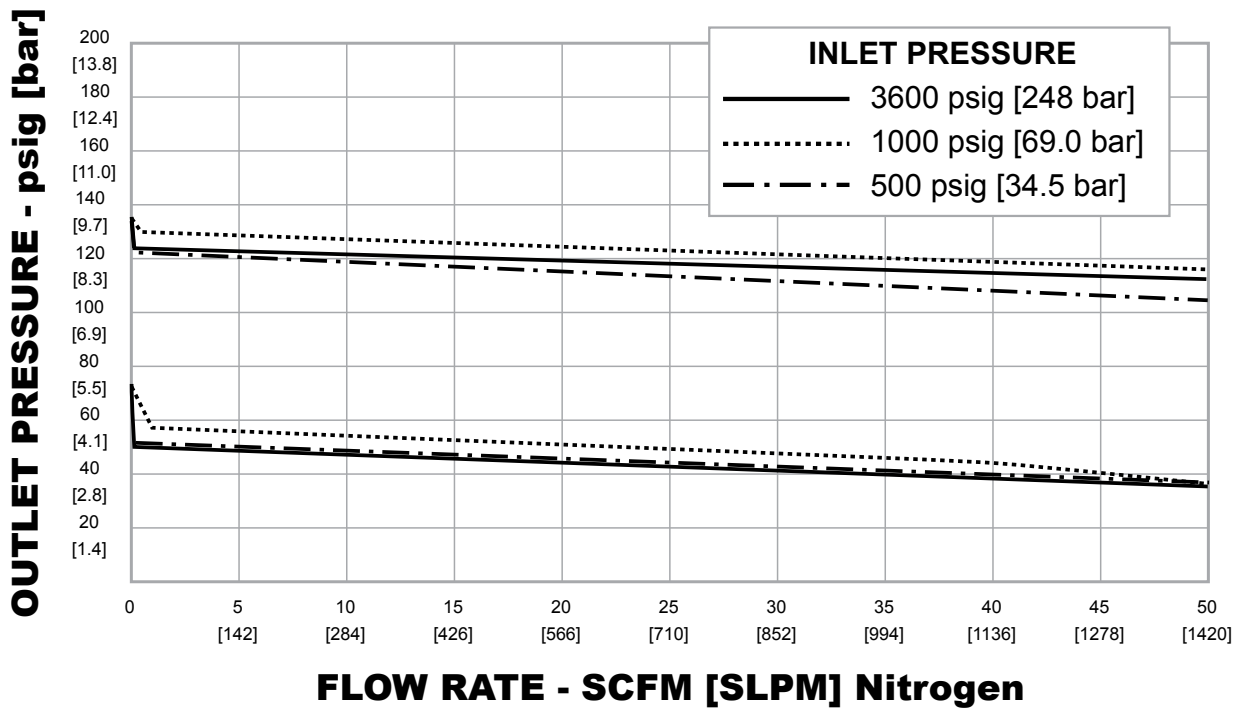
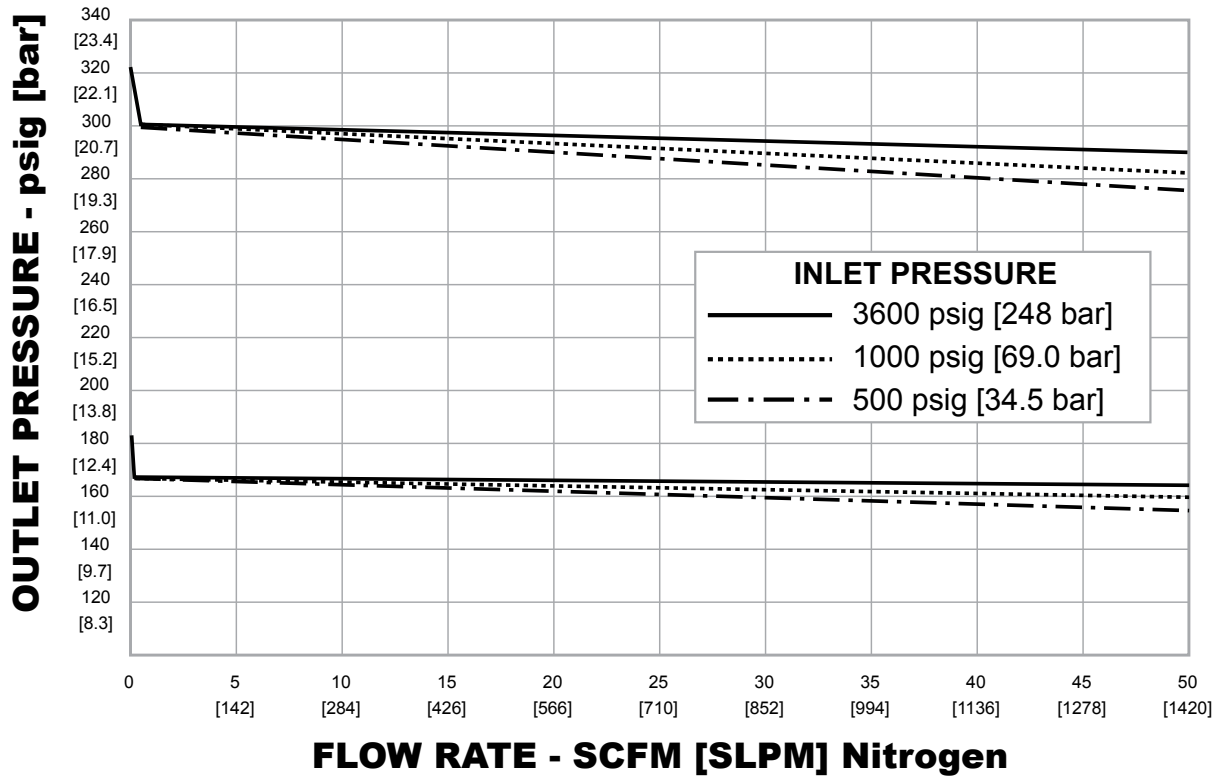
20-1000 Series Regulator Drawing



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