## **Specifications**

For other materials or modifications, please consult TESCOM.

### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

#### Maximum Inlet Pressure

5000 psig / 345 bar (Aluminum body) 10,000 psig / 690 bar (Stainless Steel body)

Maximum Outlet Pressure 450 psig / 31.0 bar

Leakage Bubble-tight

Operating Temperature

-40°F to 185°F / -40°C to 85°C Flow Capacity

C<sub>V</sub> = 0.50

#### MEDIA CONTACT MATERIALS

#### Body

Aluminum 6061-T6 with Electroless Nickel Plating, 316 Stainless Steel

Seat

Vespel®

O-Rings

Buna-N Main Valve

316 Stainless Steel

Sensor Aluminum 6061-T6

#### Spring

302 Stainless Steel Filter

10 micron 21

10 micron, 316 Stainless Steel

Remaining Parts 300 Series Stainless Steel, Teflon<sup>®</sup>, 18-8 Stainless Steel

#### OTHER

Cleaning CGA 4.1 and ASTM G93

Connections

# 1/4", 3/8", 1/2" NPTF, and SAE

Weight (approximate) 1.4 lbs / 0.6 kg

Vespel<sup>®</sup> and Teflon<sup>®</sup> are registered trademarks of E.I. du Pont de Nemours and Company.



TESCOM 20-1200 Series lightweight, aluminum constructed preset regulator offers an integrated 10 micron filter designed for hydrogen service. NGV 3.1 and TUV batch approved for onboard hydrogen fuel cell vehicles. Excellent choice for other OEM applications.

#### Application

• Hydrogen fuel cell vehicles

## **Features and Benefits**

- Piston-sensed design provides a long service life and enhanced safety
- High flow and minimal flow droop
- 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
- 10 micron, 316 Stainless Steel filter



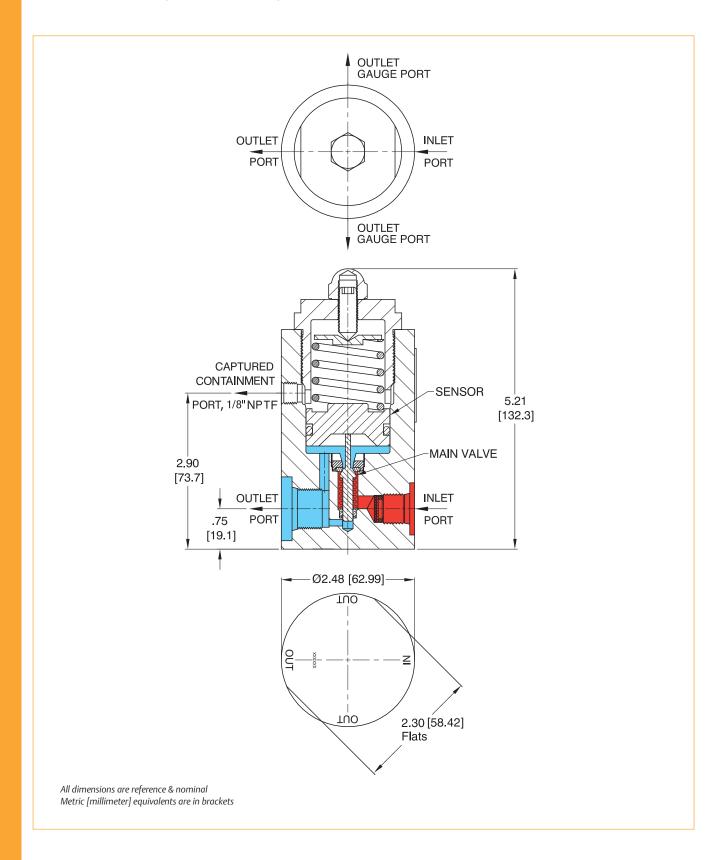
#### D20121935X012





**TESC**ØM

# 20-1200 Series Regulator Drawing

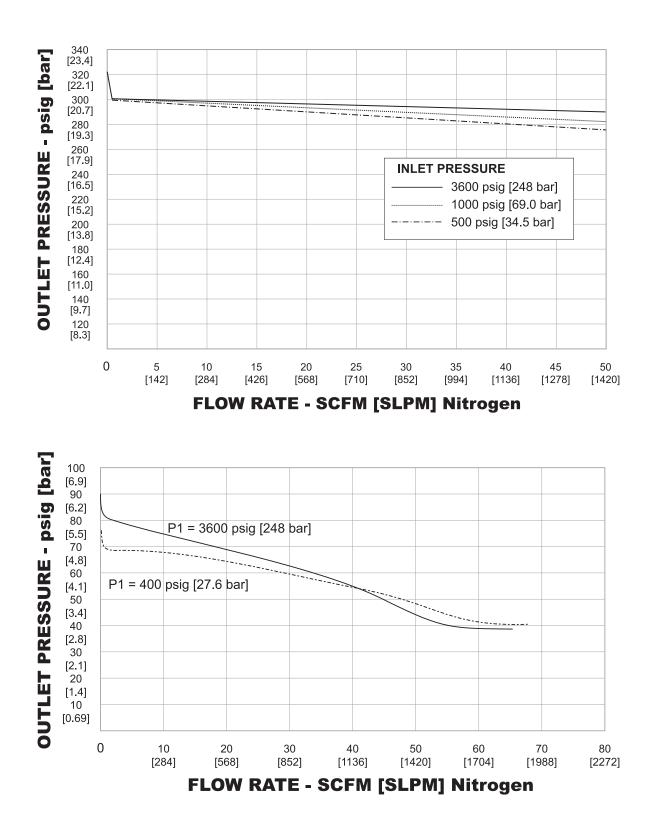




# TESC@M<sup>®</sup>

## 20-1200 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.



**EMERSON**. Process Management

# TESCØM

## 20-1200 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:

20-12 BASIC SERIES	3 BODY MATERIAL	2 OUTLET PRESSURE RANGES	- 1 PORT TYPE	9 INLET AND OUTLET SIZE	01 SET PRESSURE	

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.

D20121935X012 © 2012 Emerson Process Management Regulator Technologies, Inc. All rights reserved. 09/2014. Tescom, Emerson Process Management, and the Emerson Process Management design are marks of one of the Emerson Process Management group of companies. All other marks are the property of their respective owners.



www.tescom.com