

20-1200 Series

Regulators - Pressure Reducing

D20121935X012

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

$C_v = 0.50$

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, 316 Stainless Steel

Remaining Parts

300 Series Stainless Steel, Teflon®, 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® and Teflon® 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.

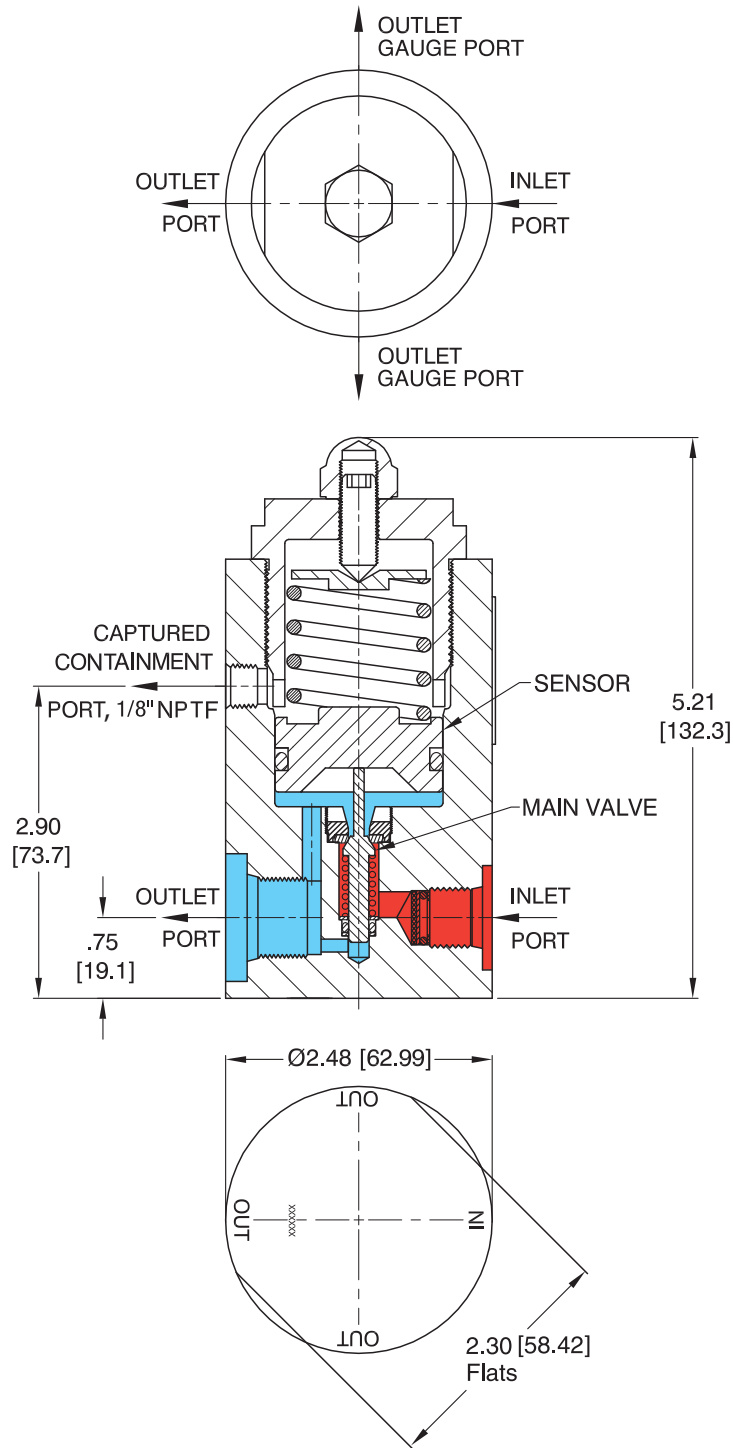
Application

- 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

20-1200 Series Regulator Drawing



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

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.

