

R222 Series Second-Stage Regulators



Introduction

The R222 Series is an Underwriters Laboratories listed regulator designed for Two-Stage LP-Gas systems. The unit is designed to reduce the outlet pressure from a first-stage regulator (usually 10 psig (0,7 bar)) to an outlet pressure of 11-inches w.c. (27 mbar). The unit's compact size makes it ideal for tight fit applications. A screened drip-lip vent is oriented over the inlet in the standard configuration. Fisher® second-stage regulators are painted palm green for easy identification.

End Connection Sizes and Style

1/2 x 1/2-inch threaded NPT

Maximum Allowable Inlet Pressure

10 psi (0,7 bar)

Maximum Emergency Inlet Pressure

75 psi (5,17 bar) when used with a Fisher Type R622H or R122H first-stage regulator.
40 psi (2,76 bar) when used with any other first-stage regulator.

Features

- Dual Gauge Taps
- Durability
- Improved Regulation
- Easy Installation
- Superior Overpressure Protection
- Corrosion-Resistant
- Positive Draining Spring Case
- 20-Year Recommended Replacement Life
- UL Listed

Outlet Pressure Standard Setpoint

11-inches w.c. (27 mbar)

Outlet Pressure Range, Spring Color, and Part Number

9.5 to 13-inches w.c. (24 to 32 mbar),
Dark Green, GE13250T012

Orifice Size

0.14-inch (3,56 mm)

Flow Coefficient

Wide-Open C_g for Relief Sizing: 18

Pressure Registration

Internal

Pressure Taps Size Restriction

1/8-inch Threaded NPT:
#54 [0.055-inch (1,40 mm)]
Drill on outlet and inlet

Temperature Capabilities

-20° to 160°F (-29° to 71°C)

Approximate Weight

1.2 pounds (544 grams)

Additional Technical Data

For more technical information, contact your local LP-Gas Equipment Distributor or log on to:
www.emersonprocess.com/regulators/lp



Figure 1. R222 Series Second-Stage Regulator

Table 1. Construction Materials

PART NAME	MATERIAL
Body, Spring Case, Diaphragm Plate, Inlet Fitting, and Orifice	Aluminum
Diaphragm, Disk, and O-ring	Nitrile (NBR)
Adjusting Screw and Pushpost	Delrin®
Closing Cap	ASA Thermoplastic (UV-Ray Resistant)
Control Spring	302 Stainless steel
Machine Screw and Lever	Zinc-plated steel
Valve Stem	Zinc
Relief Valve Spring, Relief Spring Retainer, Lever Pin and Vent Screen	Stainless steel
Lower Spring Seat	Zytel®