

Type R122H First-Stage Regulator



Introduction

The Type R122H is an Underwriter's Laboratories listed regulator designed for Two-Stage LP-Gas systems. The unit is designed to reduce the tank pressure to an outlet pressure of 10 psig (0,7 bar). This regulator has high capacity internal relief valves. The compact size makes it ideal for small domestic applications and underground tanks. The outlet pressure setting is nonadjustable and is factory set at a nominal 10 psig (0,7 bar). Screened drip-lip vents are oriented over the outlet as standard. The Type R122H regulator is designed for high pressure (pounds per square inch) vapor service.

End Connection Sizes and Style

1/4 x 1/2-inch FNPT

Maximum Allowable Inlet Pressure

250 psig (17,2 bar)

Maximum Emergency Inlet Pressure

250 psig (17,2 bar)

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

Flow Capacities

See Table 2

Outlet Pressure Standard Setpoint

10 psig (0,7 bar)

Nominal Outlet Setting, Spring Color, and Part Number

10 psig (0,7 bar) +/- 1 psig (0,07 bar) (non-adjustable), Rose, GE12729T012

Flow Coefficient

Wide-Open C_g for Relief Sizing: 23

Orifice Size

0.15-inch (3,8 mm)

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

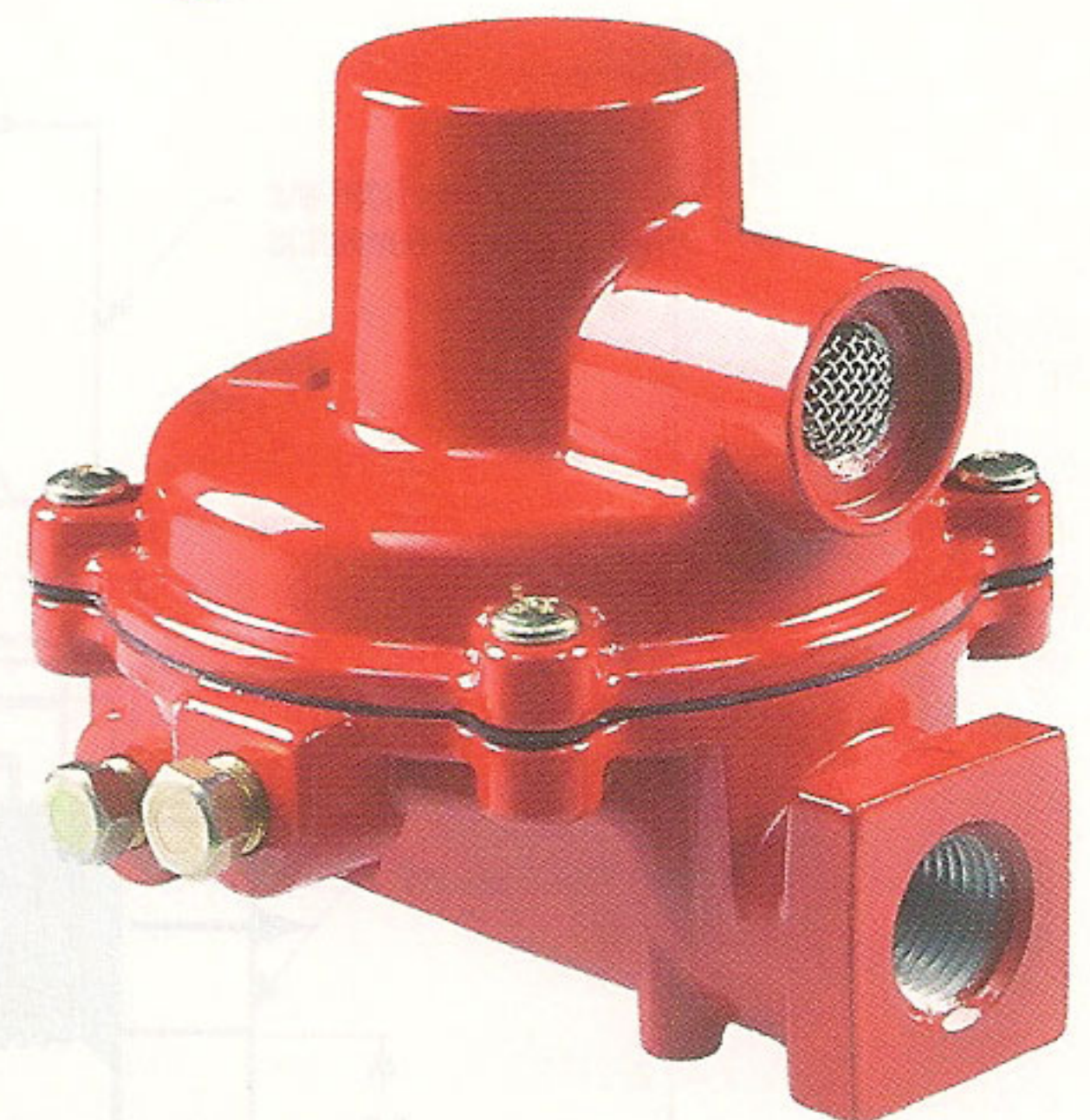


Figure 1. Type R122H First-Stage Regulator

Table 1. Construction Materials

PART NAME	MATERIAL
Body, Spring Case, Diaphragm Plate, and Orifice	Aluminum
Diaphragm, Disk, and O-ring	Nitrile (NBR)
Pushpost	Delrin®
Control Spring	302 Stainless steel
Lever, Machine Screw	Zinc-plated steel
Relief Valve Spring, Relief Spring Retainer, Lever Pin and Vent Screen	Stainless steel
Spring Seat	Zytel®

Table 2. Capacities⁽¹⁾⁽²⁾

OUTLET PRESSURE SETTING, NOMINAL OUTLET SETTING, AND COLOR	INLET PRESSURE, PSIG (bar)	CAPACITIES IN BTU/hr (SCMH) PROPANE
10 psig 10 psig (0,7 bar) +/- 1 psig (69 mbar) (non-adjustable) Rose	15 (1,03)	162 000 (1,82)
	25 (1,72)	343 000 (3,86)
	30 (2,07)	418 000 (4,70)
	35 (2,41)	496 000 (5,58)
	50 (3,45)	681 000 (7,67)
	100 (6,90)	1 120 000 (12,6)
	125 (8,62)	1 310 000 (14,7)
	150 (10,3)	1 428 000 (16,1)
	200 (13,8)	1 604 000 (18,0)

1. Capacities are based on 20% droop.
2. Metric conversion is based on 2516 BTU/ft³ of gas at 60°F (16°C).