

HSRL Series Pressure Reducing Regulators



Introduction

The HSRL Series second-stage regulator is an Underwriters Laboratories (UL) listed regulator designed for two-stage LP-gas systems.

With a capacity of up to 2 600 000 BTU/hr (29,27 SCMH), the HSRL Series is ideal for use in commercial applications. The unit is designed to reduce the outlet pressure from a first-stage regulator (usually 10 psig to 11-inches w.c. (0,69 bar to 27 mbar)). Screened drip-lip vents oriented over the inlet are standard.

Body Sizes (Inlet x Outlet) and End Connection Styles

3/4 x 3/4, 3/4 x 1, or 1 x 1-inch threaded NPT Globe Body

Maximum Inlet Pressures

Maximum Inlet Pressure:

10 psig (0,69 bar)

Emergency Inlet Pressure:

15 psig (1,03 bar)

Features

- 20-Year Recommended Replacement Life
- Improved Regulation
- Overpressure Protection
- Corrosion Resistance
- Positive Drainage
- UL Listed

Outlet Pressure Setting

11-inches w.c. (27 mbar)

Spring Range

See Table 2

Orifice Size

3/8-inch (9,5 mm)

Flow Coefficients

Wide-Open C_g for Relief Sizing: 105
 C_1 : 35

Temperature Capabilities

-20° to 160°F (-29° to 71°C)

Pressure Registration

Internal

Spring Case Vent Connection

3/4-inch threaded NPT with removable screen

Approximate Weight

4.5 pounds (2 kg)

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. HSRL Series Globe Body

Table 1. Construction Materials

BODY	BODY GASKET	CLOSING CAP	ADJUSTING SCREW	DIAPHRAGM CASE, SPRING CASE, ORIFICE, AND VALVE STEM	PUSHER POST OR RELIEF VALVE SEAT	DIAPHRAGM AND DISK	CONTROL SPRING	RELIEF VALVE SPRING AND RETAINER, VENT SCREEN, AND LEVER PIN	SPRING SEAT, LEVER, AND OTHER METAL PARTS
Cast iron	Nitrile (NBR)	ASA thermoplastic (provides UV-ray protection)	Delrin®	Aluminum	Delrin®	Nitrile (NBR)	Spring wire	Stainless steel	Plated steel

Table 2. Spring Range

SPRING RANGE	OUTLET PRESSURE SETTING	SPRING PART NUMBER	SPRING COLOR	CLOSING CAP	SPRING WIRE DIAMETER, INCHES (cm)	SPRING FREE LENGTH, INCHES (cm)
9 to 13-inches w.c. (22 to 32 mbar)	11-inches w.c. (27 mbar)	T14400T0012	Silver	Black	0.072 (0,18)	4.1 (10,4)