March 2004

Type R622-LBW Regulator

Introduction

This installation sheet covers the installation, startup, and adjustment procedures for Type R622-LBW pressure reducing regulator. These regulators have internal relief to help minimize overpressurization of the downstream system.

Specifications⁽¹⁾

Maximum Allowable Inlet Pressure 10 psig (0,69 bar)

- Maximum Emergency Outlet Pressure 20 psig (1,4 bar)
- Maximum Operating to Avoid Internal Part Damage 3 psid (0,21 bar d) above outlet pressure setting

Outlet Pressure Ranges 13 to 20-inches w.c. (32 to 50 mbar)

Material Temperature Capabilities -40° to 160°F (-40° to 71°C)

Installation

Personal injury, equipment damage, or leakage due to escaping accumulated gas or bursting of pressure-containing parts may result if this regulator is overpressured or is installed where service conditions could exceed the limits given in the Specifications. To avoid such injury or damage, provide pressure-relieving or pressure-limiting devices to prevent service conditions from exceeding those limits. Also, physical damage to the regulator can result in personal injury or property damage due to escaping gas. To avoid such injury and damage, install the regulator in a safe location.

 Only personnel qualified through training and experience should install, operate, and maintain a regulator. Before installing, check for damage which may have occurred in shipment. Also check the regulator and pipeline for debris. The Type R622-LBW may be installed in any position. Apply a good grade of pipe compound to the male threads of the pipe (being sure not to apply pipe compound to flow path of the pipe) and install the regulator so that the flow is in the direction of the arrow cast on the body. Use approved piping procedures when installing the regulator.

WARNING

A regulator may vent some gas to the atmosphere. In hazardous or flammable gas service, vented gas may accumulate, and cause personal injury, death, or property damage due to fire or explosion. Vent a regulator in hazardous gas service to a remote, safe location away from air intakes or any hazardous location. The vent line or stack opening must be protected against condensation or clogging. Under enclosed conditions, the vent should be piped away from the regulator to a safe location.

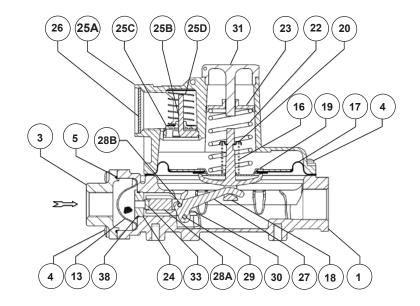
- On outdoor installations, regulators installed with vents in positions other than vertically down require additional vent protection from the elements.
- Regulator operation within ratings does not preclude the possibility of damage from debris in the lines or from external sources. A regulator should be inspected for damage periodically and after any overpressure condition.
- 5. To adjust the regulator, monitor downstream pressure with a gauge during the adjustment procedure. To increase the outlet pressure, the adjustment screw (key 23, Figure 1) must be turned clockwise. This requires removal of the closing cap (key 31, Figure 1). To reduce the outlet pressure setting, turn the adjusting screw counterclockwise. Do not adjust the spring above the limit stamped on the regulator.

1. The pressure/temperature limits in this installation sheet, and any applicable code or standard limitations, should not be exceeded.





Type R622-LBW





Parts List

Key Description

1 Body

T80577

- 2 Pipe Plug
- Inlet Fitting 3
- 4 Machine Screw
- O-ring 5
- Closing Spring 6
- 7 Diaphragm 8
- Diaphragm Head
- 9 Orifice

Regulator Division Industrial

USA - Headquarters McKinney, Texas 75070 USA Tel: 1-800-558-5853 Outside U.S. 1-469-293-4201

Asia-Pacific Shanghai, China 201206 Tel: +86 21 2892 9000

Europe Bologna, Italy 40013 Tel: +39 051 4190611

Key Description

10 O-ring

- 11
- 13
- 15
- 16 Relief Spring
- 17 Diaphragm
- 18 Pusher Post
- 19 Lower Spring Seat

Key Description

- 20 Relief Spring Retainer
- 22 Spring
- 23 Adjusting Screw
- 24 Orifice
- 25 Spring Case Assembly
- 26 Vent Screen
- 27 Lever
- 28 Stem Assembly

Key Description

- 29 Pin Lever
- 30 Machine Screw
- 31 Closing Cap
- 33 Disc
- 38 O-ring
- 40 Set Spring
- 41 Information Label
- 43 Packaged Screws

Regulator Division Natural Gas Technologies

USA - Headquarters McKinney, Texas 75070 Tel: 1-800-558-5853 Outside U.S. 1-469-293-4201

Asia-Pacific Singapore, Singapore 128461 Tel: +65 6777 8211

Europe Bologna, Italy 40013 Tel: +39 051 4190611 Gallardon, France 28320 Tel: +33 (0)2 37 33 47 00

Regulator Division Industrial/High Purity

TESCOM Elk River, Minnesota 55330 USA Tel: 1-763-241-3238 Selmsdorf, Germany 23923 Tel: +49 (0) 38823 31 0

For further information visit www.emersonprocess.com/regulators

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	Disc Assembly
3	Inlet Screen
5	Vent Screen