Reliable®

Model B Adjustable Relief Valve

UL Listed, FM Approved

Product Description

The Model B Adjustable Relief Valve is UL Listed and FM Approved as a fire protection system pressure relief valve. The Model B Adjustable Relief Valve is factory-set to 175 psi (12 bar) and is approved for set pressures ranging from 100 psi (7 bar) minimum to 350 psi (24 bar) maximum.

Application

Model B Adjustable Relief Valve is intended for use in accordance with NFPA installation standards and/or FM Property Loss Prevention Data Sheets to relieve excess pressure in fire protection systems. The Model B Adjustable Relief Valve is also intended for installation downstream of pressure reducing valves. Following installation of the Model B Adjustable Pressure Relief Valve and/or hydrostatic testing of the system, adjust the valve to operate at 175 psi (12 bar) or 10 psi (0.7 bar) in excess of the maximum system pressure, whichever is greater.

Installation

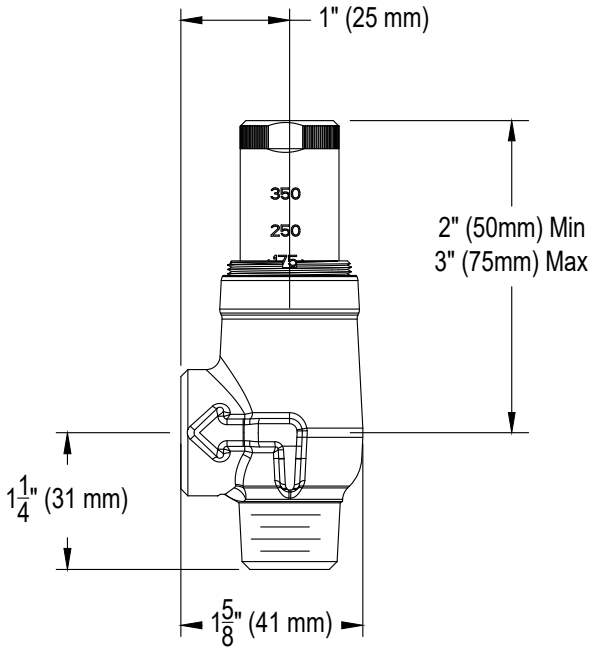
The Model B Adjustable Relief Valve must be installed in accordance with NFPA installation standards and FM Property Loss Prevention Data Sheets as well as the requirements of any authorities having jurisdiction. PTFE-based thread seal tape should be applied to the male pipe threads of the Model B Adjustable Relief Valve; the relief valve should then be installed in a 1/2-inch NPT or ISO 7-1 R1/2 threaded outlet or fitting on the sprinkler system. Tighten the Model B Adjustable Relief Valve using a smooth jaw wrench applied to the flat sides of the Model B. Recommended installation torque is 8 to 18 lb·ft (11 to 24 N·m). The 1/2-inch NPT or ISO 7-1 R1/2 outlet from the Model B Adjustable Relief Valve should be piped to a location where high pressure water flow will not cause injury or damage.

Setting Procedure

The Model B Adjustable Relief Valve may be adjusted to relieve at a higher pressure in accordance with the requirements of applicable installation standards or the authority having jurisdiction. The typical relief pressure point is nominal 10 psi (0.7 bar) above the expected normal system pressure.

The lines on the stem provide an approximate pressure relief setting. To adjust the Model B Adjustable Relief Valve, rotate the stem clockwise for a higher relief pressure setting or counter-clockwise for a lower relief pressure setting.

Model B Relief Valve Ports and Dimensions **Figure 1**



Maintenance

The owner is responsible for maintaining the fire protection system in proper operating condition. Any system maintenance or testing that involves placing a system out of service will eliminate the fire protection that is provided by the fire protection system.

The Reliable Model B Adjustable Relief Valve shall be inspected and mainteined with NFPA 25, “Inspection, Testing and Maintenance of Water Based Fire Protection Systems,” which provides minimum maintenance requirements.

In the event of leaking due to possible debris on the valve seat, flush the valve as follows: Turn the adjusting stem counter-clockwise to lower the Model B Adjustable Relief Valve relief pressure set point, allowing the valve to be flushed thoroughly. Refer to the Setting Procedure section to set the pressure and repeat if necessary if valve continues to leak.

Listings and Approvals

- UL Listed
- FM Approved

Ordering Information

Specify:

Model B Adjustable Pressure Relief Valve

Threads

- 1/2” NPT
- ISO 7-1 R1/2

P/N 9999970714