

MODEL ARV ADJUSTABLE RELIEF VALVE

GENERAL DESCRIPTION

The Globe Model ARV field adjustable relief valve is rated for up to 310 psi. The adjustable relief valve allows for the required NFPA field hydrostatic testing to be accomplished without removing and/or plugging the outlet for the relief valve. The Model ARV set relieving pressure is field adjustable for system pressures 175 psi or above, see Relief Valve Setting Procedure for detailed information on setting procedure.

Note:

- In accordance with NFPA 13, all wet pipe sprinkler systems must be equipped with a minimum 1/2" Listed pressure relief valve.



TECHNICAL DATA

Approvals

- cULus
- FM

Maximum System Working Pressure

- 310 psi (20.6 Bar)

Relief Valve Set Pressure Range

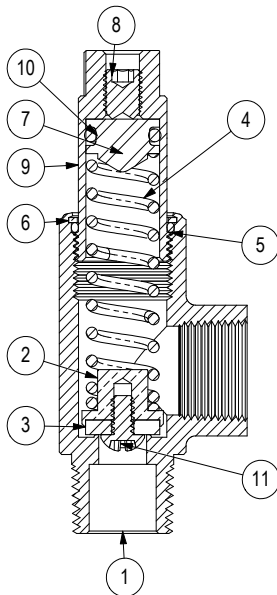
- 175 psi (12 Bar) to 310 psi (20.6 Bar)

Materials of Construction

- See Figure 1

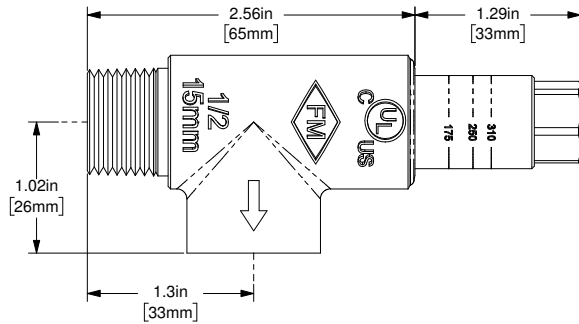
MODEL ARV RELIEF VALVE

FIGURE 1: MODEL ARV MATERIALS OF CONSTRUCTION



ITEM NO.	DESCRIPTION	MATERIAL	QTY.
1	VALVE BODY	BRONZE	1
2	VALVE SEAT	BRONZE	1
3	SEALING RUBBER	EDPM	1
4	SPRING	STAINLESS STEEL	1
5	O-RING	EDPM	1
6	WASHER	BRASS	1
7	VALVE PISTON	STAINLESS STEEL	1
8	PRESSURE ADJUSTMENT SCREW	STAINLESS STEEL	1
9	ADJUSTMENT CAP	BRONZE	1
10	PISTON O-RING	EDPM	1
11	SEALING RUBBER RETAINING SCREW	STAINLESS STEEL	1

**FIGURE 2: MODEL ARV
INSTALLATION DIMENSIONS**



Note:

- Valve shown in the fully open position
- Model ARV is factory set at approximately 185 psi (12.5 bar)

MODEL ARV RELIEF VALVE SETTING PROCEDURE

The Globe 1/2 inch Model ARV, Adjustable Pressure Relief Valve, is factory set to relieve at a pressure of approximately 185 psi (12.5 bar).

The Pressure Relief Valve may be adjusted to relieve at a higher pressure in accordance with the requirements of NFPA Standards or the authority having jurisdiction. The typical relief pressure point is nominal 10 psi (.7 bar) above the expected normal system pressure.

To reset the Model ARV pressure relief valve, use an 8 inch adjustable crescent wrench. Rotate the hex cap clockwise for a higher pressure setting or counter-clockwise for a lower pressure setting. Use the lines on the stem for an approximate relief pressure setting. One full turn of the hex cap will result in approximately 25 psi increase or decrease.

To verify the new setting of the Model ARV relief valve, use a small hydrostatic pump attached to the supply. Increase the pressure at the relief valve to 10 psi above the expected normal system pressure. Readjust the ARV as needed to maintain approximately 10 psi higher relief setting.

MODEL ARV CARE AND MAINTENANCE

Valve is not field serviceable. If inadvertent leakage is observed, first test the pressure setting utilizing the procedure outlined in the ARV Relief Valve Setting Procedure. If valve does not respond to field adjustments, valve shall be replaced.

Note:

- Visual calibration lines on valve are used for approximate adjustment, must verify pressure setting with pressure gauge.

MODEL ARV TROUBLESHOOTING

In the event that the model ARV does not perform correctly at the chosen set pressure, check the following:

- Follow the ARV setting procedure to reset the ARV
- In the event of leaking due to possible debris on the valve seat, flush the valve as follows:
 - STEP 1.** Turn the adjusting stem counter-clockwise to lower ARV relief pressure point, allowing the valve to be flushed thoroughly.
 - STEP 2.** Follow ARV setting procedure, and repeat if necessary. If valve continues to leak, valve replacement may be necessary.

ORDERING INFORMATION

MODEL ARV

Specify: MODEL ARV 1/2" ADJ RELIEF VALVE PN.....
.....317900

GLOBE® PRODUCT WARRANTY

Globe agrees to repair or replace any of its own manufactured products found to be defective in material or workmanship for a period of one year from date of shipment.

For specific details of our warranty please refer to Price List Terms and Conditions of Sale (Our Price List).

