

RETARDING CHAMBER MODEL H

GENERAL DESCRIPTION

The Globe Model "H" Retarding Chamber is an accessory which is used with variable pressure wet sprinkler systems where water motor alarms and / or pressure switches are used in conjunction with Globe's Alarm Check Valves. It serves primarily as a hydraulic time delay to prevent most false alarms associated with fluctuating water supply pressures. In situations where excessive water pressure surges occur, the Model H Retarding Chamber is needed to collect excess water from the Alarm Check Valve and feed water back into the main drain, before activating the alarm. An additional retarding chamber could be needed if pressure surges exceed the capacity of one retarding chamber.

Water enters the retarding chamber through the 1/2" NPT Inlet and automatically flows through a restricted orifice and to drain; when the drain capacity is exceeded, as when the alarm check valve clapper remains open or when the system is being tested, the retarding chamber capacity is reached, and water then flows through the Outlet to the water motor alarm and/or electric alarm switch.

The body of the Retarding Chamber has considerable ductility to reduce damage in field handling.

All interior operating parts are machined from highly corrosive-resistant alloys, each having high strength and good wear resistance.

TECHNICAL DATA

Approvals

- cULus
- FM
- LPCB Approved

Maximum System Working Pressure

- Water Working Pressure Rating - 175 psi (12 bars).

Capacity

- 1 Gallon (3.785 liters)

End Connections

- 1/2" NPT Drain (BOTTOM) X 3/4" NPT Outlet (TOP)

Materials of Construction

- Body - High Tensile Cast Iron

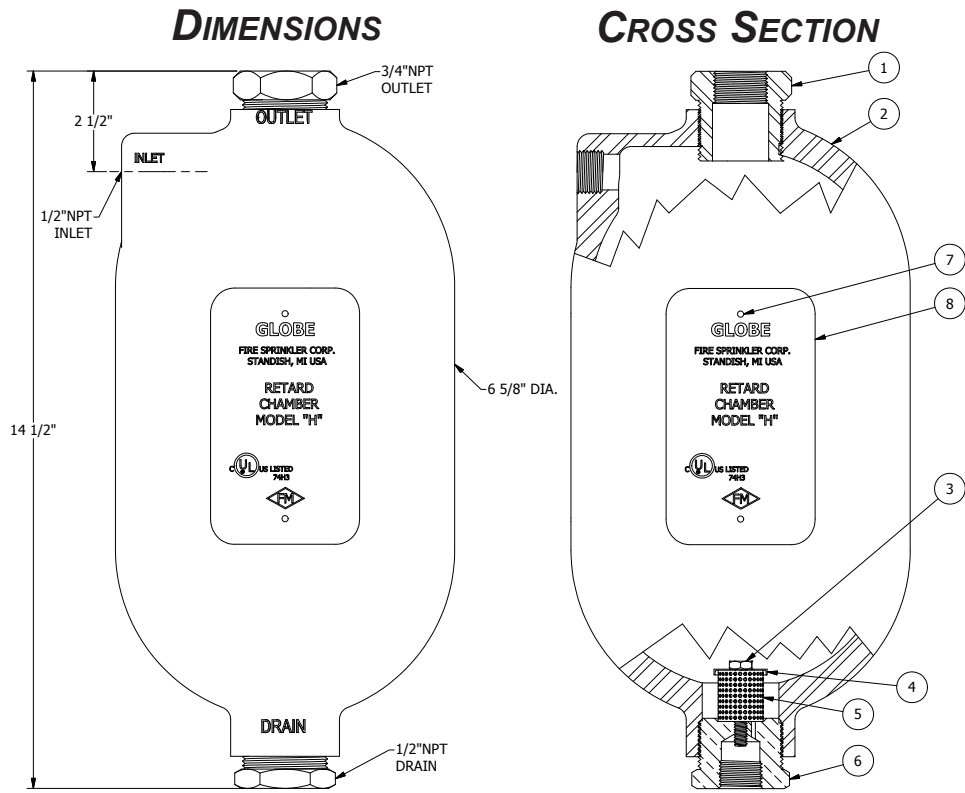
INSPECTION TESTING AND MAINTENANCE

- The strainer must be cleaned in accordance with the applicable section of NFPA 25



MODEL H RETARDING CHAMBER

FIGURE 1: RETARDING CHAMBER MODEL H INSTALLATION DIMENSIONS



Det. No.	Description	Material	Part No.
1	Outlet Bushing	Cast Iron	323354
2	Machined Body	Cast Iron	323352
3	Hex Head Machine Screw	Brass	323357
4	Cup	Brass	323356
5	Strainer Screen	Brass	323355
6	Drain Bushing	Brass	323353
			*323362
7	Nameplate	Aluminum	323361
8	Drive Screw (2)	Stainless Steel	323420

NOTE:
 1 *FOR USE WHEN RETARD CHAMBER IS INSTALLED WITH 3" ALARM CHECK VALVES
 2 REFER TO GLOBE'S ALARM CHECK VALVE INSTALLATION AND MAINTENANCE GUIDE (BULLETIN A.C.V.I.M.) FOR TRIM SET-UP, INSTALLATION INSTRUCTIONS, AND MAINTENANCE.

ORDERING INFORMATION

• Quantity • Model Number • PN
 Specify: MODEL H RETARDING CHAMBER, PN:
 Model H 323350

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).

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