

# RETARD CHAMBER

## MODEL "E"

### DESCRIPTION

**ASTRA** Retard Chamber Model "E" is required in installations that will be subject to pressure variations, as are generally associated with public water supplies, in order to help prevent false alarms.

The Model "E" is specifically intended for use as a separately ordered item for the Model B, D, E Alarm Valve and trim kit.

The unit is manufactured from cast iron and is approved in conjunction with **ASTRA** Model B, D and E Alarm Valve and trim kit.



### ADDITIONAL INFORMATION

When water flows steadily into the sprinkler system due to sprinkler operation, the clapper in the Alarm Valve opens. Water is then permitted to flow into the centrally located groove in the Seat ring and out through the Alarm Port towards the Restriction Assembly. When the flow through the Inlet Restriction of the Restriction Assembly exceeds the flow out through the Outlet Restriction, the Retard Chamber begins to fill. Subsequently, the Water Motor Gong Alarm and/or the Pressure Alarm Switch activate.

The Alarm continues as long as the clapper remains open. When the clapper closes as a result of discontinued water flow, the water in the alarm lines automatically drains out through the drain orifice in the Restriction Assembly. In the case of variable pressure systems, a transient surge in supply pressure that is sufficient only to open the Clapper momentarily will not cause a false alarm. The volume of the Retard Chamber is sufficiently large that it will not fill to operate the connected alarm devices. Any water in the alarm line is then automatically drained, further reducing the possibility of a false alarm.

ADDITIONAL INFORMATION	
Material	Cast Iron
Weight	21 lbs
Capacity	3.8 liters
Max working pressure	175 PSI
Approvals	UL, ULC, FM, LPCB, CE