

## RETARD CHAMBER

**MODEL: RC9**

### TECHNICAL DATA :

|                |                    |
|----------------|--------------------|
| MATERIAL       | Stainless Steel    |
| CONNECTION     | 3/4" BSPT (F)      |
| WEIGHT         | 2.6 Kg             |
| RATED PRESSURE | 17.5 Bar (250 PSI) |

### APPLICATION

Retarding Chamber is used with Alarm Valve Trim when variable pressure is anticipated in the system. It is a holding tank to prevent activation of the Sprinkler Alarm during water pressure surge, but permits the activation of alarm on sustained flow. The Retarding Chamber is part of UL Listed and FM Approved Alarm Valve Trim. The Retarding Chamber is made of stainless steel material and rated for 17.5 bar pressure.

### OPERATION

Due to sprinkler operation, water starts flowing and clapper of Alarm Valve opens, allowing the water flow to Sprinkler Alarm port. The Sprinkler Alarm port is connected to Retarding Chamber through Restriction Nozzle assembly.

When the flow through inlet of Restriction Nozzle exceeds the drain nozzle flow, the Retarding Chamber begins to fill and there by flowing to sprinkler alarm and pressure switch to activate the alarm. Use of Retarding Chamber prevents the false alarm in variable pressure system.

### MAINTENANCE

The Restriction Nozzle assembly needs to be inspected and cleaned for possible blockage of Orifice and Screen. More frequent cleaning may be required depending on water quality with respect to water borne debris. The owner is solely responsible for maintaining their fire protection system and devices in proper operating condition.



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RATED PRESSURE - 250 PSI

FM APPROVED

