



BLAZE

Dry Alarm Valve Accelerator

For BT 5940

Description :

The Dry Accelerator is a quick-opening device designed to reduce the operating time of dry pipe sprinkler systems. It detects a rapid drop in system air pressure and quickly releases air from the actuator, allowing the sprinkler control valve to open faster.

Installed on the air supply trim at the inlet of the dry actuator, the Dry Accelerator remains closed under normal system pressure. When a sprinkler operates and system air pressure falls, a pressure difference develops between the upper and lower chambers. Once the pressure differential reaches approximately 0.2–0.4 bar (3–5 psi), the Dry Accelerator opens and vents air to atmosphere. This rapidly releases pressure from the actuator, enabling faster operation of the sprinkler valve and improving system response during a fire event.

Installation :

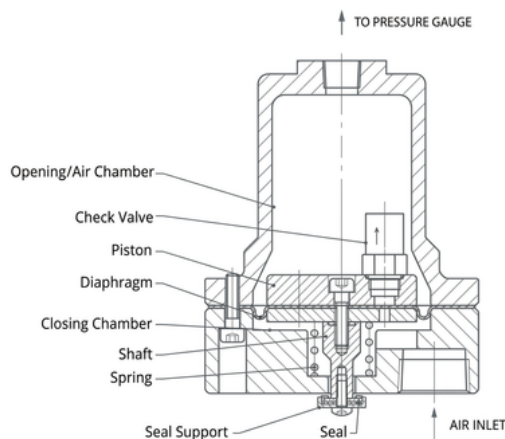
1. Apply a small amount of PTFE tape or approved thread sealant to all external threaded pipe connections.
- **Note:** Do not allow PTFE tape, thread sealant, or any foreign material to enter the pipe nipples or openings of the Dry Accelerator.
2. Assemble the Dry Accelerator in accordance with the supplied installation drawing.
3. Install the Dry Accelerator into the actuator trim at the location shown on the applicable trim drawing.
4. Ensure that the end of the Dry Accelerator fitted with the vent seal button is facing towards the actuator trim.
5. Ensure the pressure gauge is positioned facing outwards for easy viewing and inspection.

Maintenance :

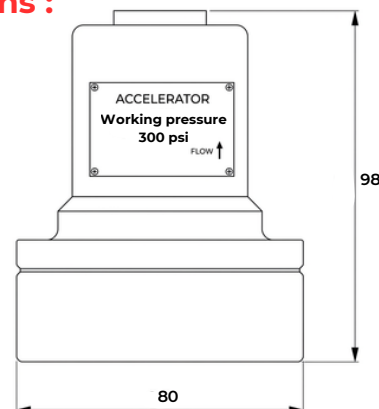
- Check the air pressure gauge located on the top of the Dry Accelerator. The pressure indicated should match the pneumatic pressure maintained within the sprinkler system.
- The Dry Valve and associated trim must be kept free from dirt, debris, freezing conditions, corrosive environments, contaminated water supplies, and any other conditions that may affect performance or cause damage.
- The system must be inspected and tested regularly to ensure reliable operation.
- Inspection frequency may vary depending on water quality, environmental conditions, and the quality of the air supply used within the system.
- For minimum inspection, testing, and maintenance requirements, refer to NFPA 25 and any applicable local regulations.

Materials :

Size	Recommended Minimum Torque
Cover	Cast Bronze
Body	300 series stainless steel
Piston	300 series stainless steel
Shaft	Brass (UNS C36000)
Seal Support	Brass conforming to (UNS C36000)
Spring	300 series stainless steel
Diaphragm	EPDM
Seal	EPDM
Size	Recommended Minimum Torque



Dimensions :



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