



Monsher (UL Listed) Installation Control Valves



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Model: MN009



Model MN009 Alarm Check Valve is a wet pipe sprinkler system water supply check valve that makes possible the installation of sprinkler systems in buildings not subject to freezing temperatures. It is designed so that water pressure in the piping system will hold back water pressure at the valve until a significant flow of water occurs.

The Alarm Check Valve serves as a check valve by trapping pressurized water above the clapper and preventing reverse flow from sprinkler piping.

The valve is trimmed with a water bypass line. The bypass line allows pressure surges to enter the system and to be trapped above the alarm check valves clapper without the clapper lifting and causing false alarms.

When a significant sustained flow of water occurs, such as from an open sprinkler, the alarm valves clapper lifts and allows water to enter the system. Simultaneously, water enters an intermediate chamber, which allows the water to activate an alarm either through an optional water motor alarm and / or through a water pressure alarm. These alarms continue to sound until the flow of water is stopped.

The MN009 Alarm Check Valve should be installed vertically on wet-pipe sprinkler systems with constant pressure or variable pressure water supplies. The valve is made suitable for use on variable pressure water supplies by adding the optional retard chamber to the standard trim.

The valve is available with a flanged inlet and flanged outlet or with grooved inlet and grooved outlet.

TECHNICAL SPECIFICATIONS

Size	4" (DN 100)		6" (DN 150)	
Inlet Connection Style	Flange	Groove	Flange	Groove
Outlet Connection Style	Flange	Groove	Flange	Groove
Shipping Weight	55 lbs / 25 kg	51 lbs / 23 kg	75 lbs / 34 kg	66 lbs / 30 kg
Max. Working Pressure	175 psig / 1.2 Mpa (12 bar)			
Factory Hydro Test	100% @ 350 psig / 2.4 Mpa (24 bar)			
Standard Finish	Red Painted			
Flange & Groove Specification	Flange: Class 150 ANSI B16.1 & Groove: C606 ANSI/ AWWA			
Required Accessories	Standard Trim			
Optional Accessories	Retard Chamber, Water Motor Alarm, Alarm Pressure Switch			
Installation Manner	Vertically			
Listings and Approvals	UL (United States)			

TRIM PACKAGES

Model MN009 Alarm Check Valve is listed and/ or approved with specific trim for use up to 175 psig/ 1.2 MPa (12 bar). No substitutions or omissions, in part or in full, are allowed. Additional accessories to the standard trim packages are required for a complete system meeting the requirements of the applicable rules and codes. See appropriate technical data for additional information.

The Retard Chamber is required when the MN009 Alarm Check Valve is installed on systems with a variable pressure water supply in order to reduce the possibility of false alarms. Refer to the MN015 Retard Chamber technical data TD01911.

- **Water Motor Alarm**

The MN009 Alarm Check Valve is designed to activate a mechanical alarm during a sustained flow of water (such as the flow required by an open sprinkler) causes the alarm check valves clapper to lift from its seat. Refer to the MN010 Water Motor Alarm technical data TD01211.

- **Alarm Pressure Switch**

The MN009 Alarm Check Valve trim allows installation of pressure switches to operate local electric alarms and/or remote electric alarms during a sustained flow of water (such as the flow required by an open sprinkler). Refer to Alarm Pressure Switch technical data.

Water Motor Alarm

Model: MN010

TECHNICAL SPECIFICATIONS

Model	MN010
Working Water Pressure Range	5 to 175 psig / 0.035 to 1.2 Mpa (0.35 to 12 bar)
Shipping Range	11 lbs / 5 kg
Alarm Line Inlet	NPT3/4 or Rc3/4
Drain Outlet	NPT1 or Rc1
Required Accessories	Y-Strainer: 3/4", 20 mesh screen
Listings and Approvals	UL (United States)
* The pipe threads connections accord with ISO7/1.	