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**Title**

Material Submittal for  
Alarm Check Valve

**Brand**

Bristol

# **Index**

- ***Technical Data Sheets (Catalogues).***
- ***UL Certificate.***

***Technical Data  
Sheets (Catalogues).***



# ALARM CHECK VALVE

*Model No.: BAV-146*

Model BAV-146 Alarm Check Valve is 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 such as a sprinkler is activated.

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 valve's 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 valve's 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 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 a grooved inlet and grooved outlet.



ALARM CHECK VALVE

### OPTIONAL ACCESSORIES:

- Retard Chamber**

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

- Water Motor Alarm**

The 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's clapper to lift from its seat.

- Alarm Pressure Switch**

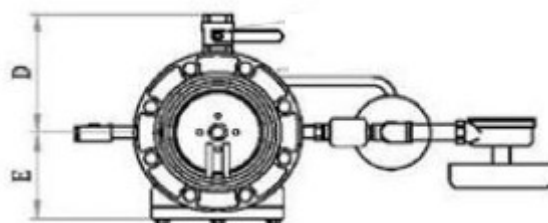
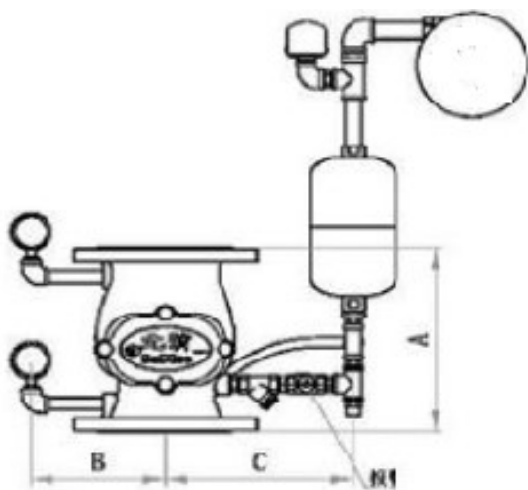
The Alarm Check Valve trim allows installation of pressure switches to operate local electric alarms and/or remote electric alarms during a sustained flow of water (such as the flow requires by an open sprinkler).

Size	4" (DN100)	6" (DN150)
Inlet Connection Style	Flange	Flange
Outlet Connection Style	Flange	Flange
Shipping Weight	55 lbs/25 kg	75 lbs/34 kg
Max. Working Pressure	175 psig/1.2 MPa (12 bar)	
Factory Hydro Test	100% @ 470 psig/ 3.2 MPa (32 bar)	
Standard Finish	Red Painted	
Flange Specification	Flange: Class 150 ANSI B16.1	
Required Accessories	Standard Trim	
Optional Accessories	Retard Chamber, Water Motor Alarm, Alarm Pressure Switch	
Installation Manner	Vertically	
Listings and Approvals	UL (United States)	

## DIMENSIONS

mm

Valve Size	DN	A	B	C	D	E
4"	100	250	230	265	170	120
6"	150	300	250	280	190	150



# ***UL Certificate.***

## Valves, Alarm

[See General Information for Valves, Alarm](#)

**BRISTOL FIRE ENGINEERING L L C**

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Model BAV-146, vertical installation, may be provided with a retarding chamber and Model BWA-246 water motor gong, maximum pressure 175 psi.

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