

Waterflow Alarm Valves

Waterflow alarm valves (alarm check valves) are installed in either vertical or horizontal positions in wetpipe sprinkler systems to sound a fire alarm gong when a flow of water from the system equals or exceeds that of a single sprinkler. They are designed for use with hydraulic or electric gongs or both.

There are two designs, the differential type and the pilot valve type. The differential type has a rubber-faced clapper with an annular groove in the seat; the pilot valve type has a metal-faced clapper with a pilot valve attached to the clapper arm.

A retard chamber, which minimizes false alarms due to surges and fluctuations in water supply pressure, may be supplied with the alarm valve. If a retard chamber is supplied, *only the listed chamber for a specific manufacturer and valve model shall be used*. Alarm valves are FM Approved with specific trim, and no substitutes or omissions in part or in full are allowed.

Alarms are tested by flowing water through the system test pipe. Pilot valves may be field-adjusted to assure alarm reliability. Unless otherwise noted in the listing, these valves have 175 psi (1205 kPa) rated working pressure.

Models E, E3

Product Specification

Model No	Description	Valve Size		Rated Working Pressure		Remarks
		in	(mm)	psi	(kPa)	
Model E	Alarm Check Valve, Flanged by Flanged	2 1/2, 3, 4, 6, 8	(65, 80, 100, 150, 200)	175	(1205)	a, b, c
Model E	Alarm Check Valve, Flanged by Grooved	3, 4, 6, 8	(80, 100, 150, 200)	175	(1205)	a, b, c
Model E3	Alarm Check Valve, Grooved by Grooved	2 1/2, 3, 4, 6, 8	(65, 80, 100, 150, 200)	300	(2065)	a, b, c, d

Remarks:

a. Resilient seat.

b. With Model E-1 retard chamber or Model S-1 retard chamber

c. With E3 trim package. **NOTE: The placement of a test and drain valve (E3 Trim option) in lieu of the 2" (50mm) drain valve does not replace the need for an inspector's test connection at the most remote location of the sprinkler system. The test and drain valve shall not be used in lieu of the inspector's test connection for the testing of the entire wet piping system. The test and drain valve shall only be used to exercise the clapper and check the mechanical alarm (water motor gong).**

d. Suitable for horizontal and vertical installations

Company Name:	Reliable Automatic Sprinkler Co Inc
Company Address:	1470 Smith Grove Rd, Liberty, South Carolina 29657-0313, USA
Company Website:	http://reliablesprinkler.com
New/Updated Product Listing:	No
Listing Country:	United States of America
Certification Type:	FM Approved
Class of Work:	1041-Alarm Check Valves