

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.

AV-1

<i>Product Description</i>	<i>End Connections Inlet x Outlet</i>	<i>Nominal Valve Size, NPS in. (mm)</i>	<i>Max Rated Working Pressure, psi (kPa)</i>	<i>Remarks</i>
AV-1	Flange x Flange	4, 6, 8 in.	175 (1205)	a, b, c, f
AV-1	Flange x Flange	4, 6 in. 165 mm	175 (1205)	a, b, d, e, f
AV-1	Flange x Groove	2 1/2, 4, 6, 8 in. 76.1 mm, 165 mm	175 (1205)	a, b, c, f
AV-1	Flange x Groove	2 1/2, 4, 6 in. 165 mm	175 (1205)	a, c, d, e, f
AV-1	Groove x Groove	2 1/2, 4, 6 in. 76.1 mm, 165 mm	175 (1205)	a, c, f
AV-1	Groove x Groove	2 1/2, 4, 6 in. 165 mm	175 (1205)	a, c, d, f
AV-1	Flange x Flange	4, 6, 8 in.	300 (2070)	a, b, c, f
AV-1	Flange x Flange	2 1/2, 4, 6, 8 in. 165 mm	300 (2070)	a, c, d, e, f
AV-1	Flange x Groove	2 1/2, 4, 6, 8 in. 76.1 mm, 165 mm	300 (2070)	a, b, c, f
AV-1	Flange x Groove	2 1/2, 4, 6, 8 in. 165 mm	300 (2070)	a, c, d, e, f

AV-1	Groove x Groove	2 1/2, 4, 6, 8 in. 76.1 mm, 165 mm	300 (2070)	a, c, f
AV-1	Groove x Groove	2 1/2, 4, 6, 8 in. 165 mm	300 (2070)	a, c, d, f

Remarks:

- a. FM Approved for use with Model RC-1 retard chamber.
- b. Available with Rp2 drain and ANSI, ISO, AS, or JIS flanges. Valves with Rp2 drain limited to vertical risers. Alarm test trim (Grinnell PSN 52-201-2-2002) must be according to installation requirements.
- c. 175 psi (1205 kPa) rated valves are supplied with grey iron bodies and covers. 300 psi (2070 kPa) rated valves are supplied with ductile iron bodies and covers.
- d. Approved for use with European trim for European installations. **NOTE: The placement of a test and drain valve in lieu of the 2 inch (50 mm) NPS 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 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).**
- e. Approved when supplied with ANSI, ISO, AS, or JIS flanges.
- f. Optional supervisory switch, P/N CEDPV, is available.

Company Name:	Tyco Fire Products
Company Address:	415 N Cannon Avenue, Lansdale, Pennsylvania 19446, USA
Company Website:	http://www.tyco-fire.com
Listing Country:	United States of America
Certification Type:	FM Approved