Water Flow Indicator (**AWFD**)



FM APPROVED

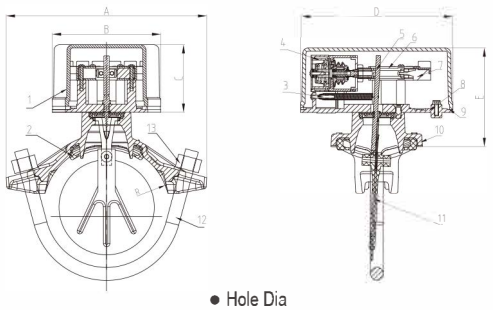
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Product Review

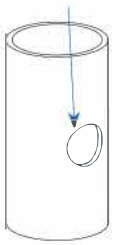
The water flow indicator with delay function (AWFD) is designed according to GB5135.7 and UL346 and FM1042.

The water flow indicator is an important part of the automatic sprinkler system, usually installed in the main pipe or branch pipe of the pipe system. When the vane detects the water flow, the water flow signal will be converted to electrical signal,and then switch on the alarm system or start the fire pump directly, at the same time, the fire zone will be indicated.

Design and Dimensions



- Hole Dia



Product Feature

- Adjustable delay function
  Adjust with rotating switch, accurate adjustable time within 0~90 seconds, high reliability.
- Air delay device with miniature bearing
  Time consistency and reliability are assured
- Adjustable spring design
  Convenient sensitivity adjustment, easy maintenance.
- Double micro switch design
  One end can be used to operate the central control room, and the other end can be used to connect the alarm apparatus.
- Surface treatment
  Red epoxy coating, high corrosion resistance performance

Specification

Application	Fire protection system
Diameter	2"/DN50-8"/DN200
Working Pressure	2"/DN50~8"/DN200: PN25/363PSI
Flow Sensitivity Range	15-37.5L/MIN
Temperature Range	0-68℃
Fluid	Water
Contact Rating	125/250VAC 5A 24/30VDC 3A

Standard

- STANDARD FOR INSTALLATION OF SPRINKLER SYSTEM NFPA-13
- ONE-AND TWO-FAMILY DWELLINGS AND MANUFACTURED HOMES INSTALLATION OF SPRINKER SYSTEMS NFPA-13D
- STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEM IN LOW-RISE RESIDENTIAL OCCUPANCIES NFPA-13R
- NATIONAL FIRE ALARM CODE NFPA-72

Material Specifications

Part No.	Part	Material
1	Cover	ASTM B85-96 383.0E
2	Rubber Gasket	EPDM
3	Spring	SS304
4	Air Delay Device	PC GV3410R
5	Stem Sealing Gasket	SS304+NBR
6	Connecting Rod	POM 500P
7	Micro-Switch	PC GV3410R
8	Connection Plate	ASTM B85-96 383.0E
9	Connection Plate Seal	NBR
10	Saddle	ASTM A536,65-45-12
11	Vane	PTFE
12	U-Bolts	Carbon Steel Zinc Plated
13	Nuts	Carbon Steel Zinc Plated

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Water Flow Indicator
(AWFD)

AYVAZ

Dimension

Nominal Dimension	Size		Dimensions(mm)							Certificate
DN	Inch	mm	R	A	B	C	D	E	Hole Dia.	
50	2"	60.3	30.15	116	100	59.5	140	79.5	32	UL FM
65	21/2"	73.0	36.5	120	100	59.5	140	79.5	32	UL FM
65	21/2"	76.1	38.05	120	100	59.5	140	79.5	32	UL FM
80	3"	88.9	44.45	145	100	59.5	140	80.9	51	UL FM
100	4"	114.3	57.15	185	100	59.5	140	98.5	51	UL FM
125	5"	139.7	69.85	212	100	59.5	140	82.6	51	UL FM
125	5"	141.3	70.65	212	100	59.5	140	82.6	51	UL FM
150	6"	165.1	82.55	254	100	59.5	140	90.4	51	UL FM
150	6"	168.3	84.15	254	100	59.5	140	90.4	51	UL FM
200	8"	219.1	109.55	298	100	59.5	140	90.5	51	UL FM

Installation & Application

1. Pipe Size

Product Size	Nominal Pipe Size		Nominal Pipe O.D. (mm)	Pipe Wall Thickness (mm)			Hole Dia (mm)
	Inch	mm		ASME B36.1 Sch 10	ASME B36.1 Sch 40	BS1387	
60	2	50	60.3	2.77	3.91	3.6	32
73	21/2	---	73.0	3.05	5.16	---	32
76	---	65	76.1	---	---	3.6	32
89	3	80	88.9	3.05	5.49	4.0	51
114	4	100	114.3	3.05	6.02	4.5	51
140	---	125	139.7	---	---	5.0	51
141	5	---	141.3	3.4	6.55	---	51
165	---	165	165.1	---	---	---	51
168	6	150	168.3	3.4	7.11	5.0	51
219	8	200	219.1	3.76	8.18	6.3	51

2. Caution

2.1 Please read the instructions carefully before installation, any damage caused by improper installation will not be liable for the manufacturer.

2.2 Before installation, check the nominal diameter, nominal pressure, temperature range and fluid of the water flow indicator, do not install if the technical parameter of the water flow indicator don't match the requirement of the pipe system.

2.3 Installation must be performed by qualified personnel and in accordance with all national and local codes and ordinances.

2.4 The water flow indicator can be mounted on horizontal or vertical pipe. On horizontal pipe it should be on the top of the pipe or the side of the pipe, do not at the bottom of the pipe. On vertical pipe it should be mounted on the pipe which the water flow is upward.

2.5 The pipe length before and after the water flow indicator must be no less than 5 times the pipe diameter, and choose the correct water flow indicator according to the pipe nominal diameter technical parameter table.

2.6 The water flow direction must be same as the arrow direction, must not be installed in opposite direction.

2.7 Leave enough space for easy installation and maintenance.

2.8 Turn off electrical power before installation or maintenance, otherwise will cause serious injury or casualties.

2.9 Do not use in inflammable and explosive environment, otherwise will cause serious injury or casualties.

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