

Vane Type Water Flow Switch

Model: ZSJZ-YM-450

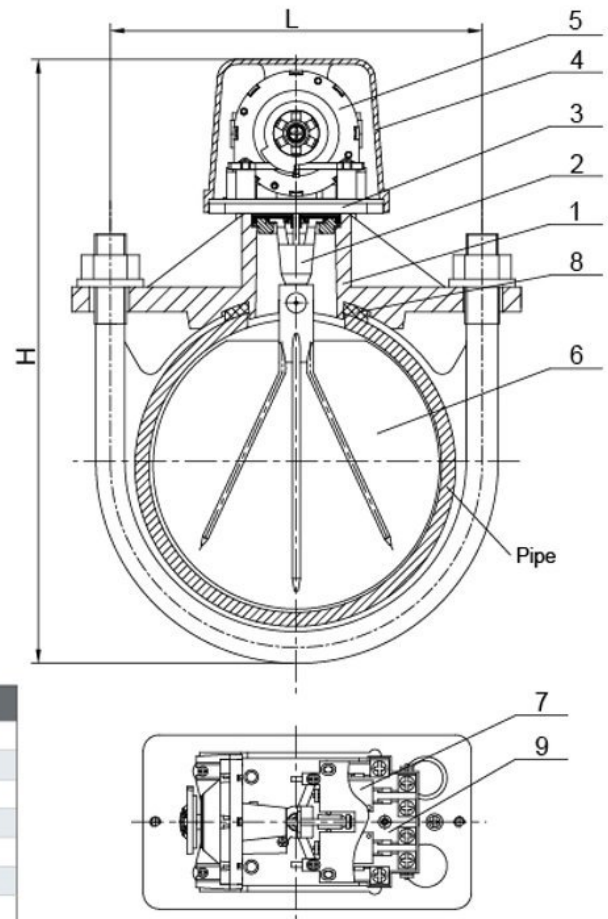
Technical Features

- Size: DN50-DN200 / 2" - 8"
- Working Pressure: 450PSI
- Sensitivity:
 - FM: 1. No-alarm flow $\leq 15\text{L/min}$
2. Alarm flow $> 15\text{L/min}$, $\leq 75\text{L/min}$
 - UL: 1. No-alarm flow $\leq 15\text{L/min}$
2. Alarm flow $> 15\text{L/min}$, $\leq 37.5\text{L/min}$
- Capacity of Switch Contacts:
 - AC 125/250V 8A
 - DC 24V 3A
 - DC 30V 2.5A
- Working Temperature: 0-49°C
- Steel Pipe: SCH10-40
- 0-90 Seconds Field Replaceable Retard



Technical Information

- I. Overview
The vane type water flow switch use in wet pipe systems only. Water flow in the pipe deflects a vane, which produces a switched output usually after a specified delay.
- II. Main Components
ZSJZ series water flow indicator is mainly composed of the saddle, blade rack, bottom plate, outer cover, Air delay device, micro-switch, junction box, etc.
 - 1. The main outline drawing is shown in Figure 1 Outline Drawing.
 - 2. Main dimensions of water flow indicator are shown in Table 1.
 - 3. Materials of the main components are shown in Table 2.



Dimensions

Model	Specification	INCH	L	H
ZSJZ-YM-450	DN50	2"	85	188
ZSJZ-YM-450	DN65	2.5"	92	200
ZSJZ-YM-450	DN80	3"	106	220
ZSJZ-YM-450	DN100	4"	134	245
ZSJZ-YM-450	DN125	5"	162	272
ZSJZ-YM-450	DN150	6"	189.5	298
ZSJZ-YM-450	DN200	8"	240	350

Table 1

Figure 1 Outline Drawing

Vane Type Water Flow Switch

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Installation and Debugging as well as Precautions

- Installation of water flow indicator:
at the pre-set installation position, use a taper to drill on the main pipeline and remove burrs according to the product specification;
roll up the blade into a small size and put it into the pipeline, install the U-shaped bolt and fasten it up with two fastening nuts, and the specific installation drawing is shown in Figure 2.

Materials of Main Components		
No.	Name	Materials
1	Body	Ductile Iron
2	Blade Rack	SS304+EPDM
3	Bottom Plate	SS304
4	Outer Cover	Aluminum
5	Air Delay Device	Component
6	Blade	LLDPE
7	Micro-switch	Component
8	Sealing Gasket	EPDM
9	Junction Box	PC

Table 2

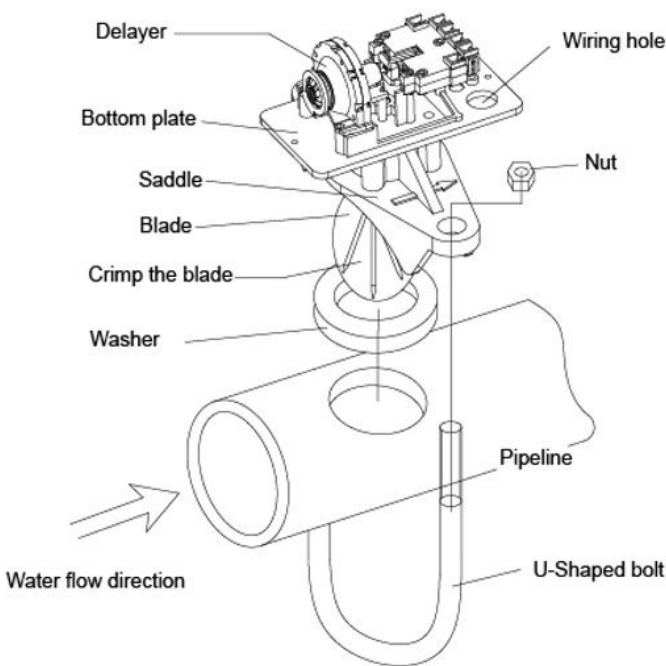


Figure 2 Installation Drawing

The typical wiring diagram is shown in Figure 3

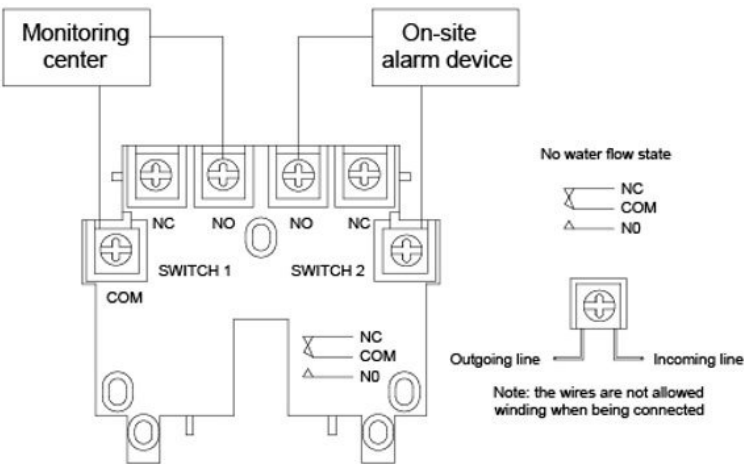


Figure 3

The hole size is shown in Table 3	
Specification	Hole size
DN50, DN65	32+2mm
DN80-DN200	51+2mm

Table 3