

Product Overview

The vane type water flow switch (Model- ZSJZ-YM-450) use in wet pipe systems only. Water flow in the pipe deflects a vane, which produces a switched output usually after a specified delay.

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 Fig. 1.
2. Main dimensions of water flow indicator are shown in Table 1.
3. Materials of the main components are shown in Table 2.

Technical Features

Size		DN50-DN250 / 2"-10"
Working Pressure		450PSI & 300PSI
Sensitivity	FM	No-alarm flow $\leq 15\text{L}/\text{min}$ Alarm flow $> 15\text{L}/\text{min}, \leq 75\text{L}/\text{min}$
	UL	No-alarm flow $\leq 15\text{L}/\text{min}$ Alarm flow $> 15\text{L}/\text{min}, \leq 37.5\text{L}/\text{min}$
Capacity of Switch Contacts		AC 125/250V 8A DC 24V 3A DC 30V 2.5A
Working Temperature Range		0~49°C/32~120.2°F
Steel Pipe		SCH10-40
0-90 Seconds Field Replaceable Retard		

Dimensions

Size	Nominal Pipe Size OD (mm)	L(mm)	H(mm)
2"	60.3	85	188
2.5"	73 / 76.1	92	200
3"	88.9	106	220
4"	114.3	134	245
5"	141.3 / 139.7	162	272
6"	168.3 / 165.1	189.5	298
8"	219.1 / 216.3	240	350
10"	273	293	405

Table 1

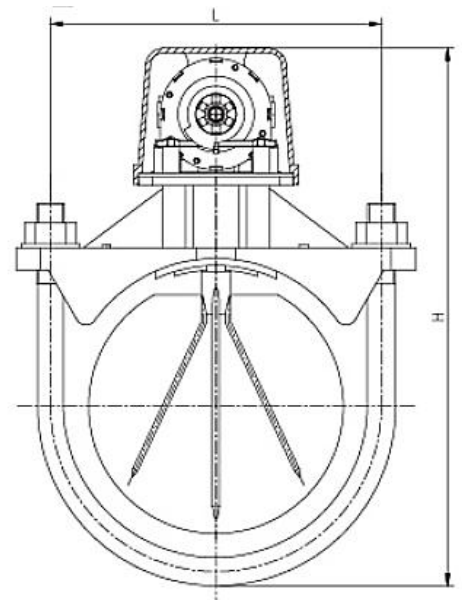
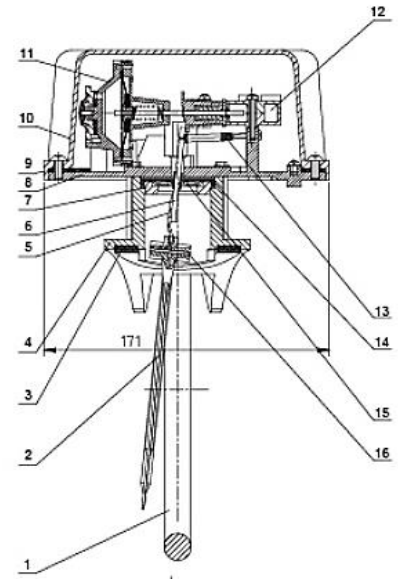


Figure 1

Installation

Installation of water flow indicator:

At the pre-set installation position, use a tapper 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.

Material List

No	Name	QTY	Material	Standard
1	U-type bolt	1	ASTM A36	ASTM A36/A36M
2	Vane	1	LLDPE	
3	Sealing gasket	1	EPDM	ASTM D2000
4	Framework	1	ASTM A536 65-45-12	ASTM A536
5	Connector	1	S.S.304	ASTM A276
6	Shaft	1	S.S.304	ASTM A276
7	Plastic bracket	1	POM	
8	Base plate	1	S.S.304	ASTM A351
9	Dust proof gasket	1	EVA	
10	Outer shell	1	A03600	ASTM B85
11	Decelerator	1		
12	Microswitch	2		
13	Thread connecting spring	1	S.S.304	ASTM A276
14	Sealing	1	S.S.304+EPDM	ASTM A276/ASTM D2000
15	Ss bracket	1	S.S.304	ASTM A276
16	Hollow pin	1	S.S.304	ASTM A276

Table 2

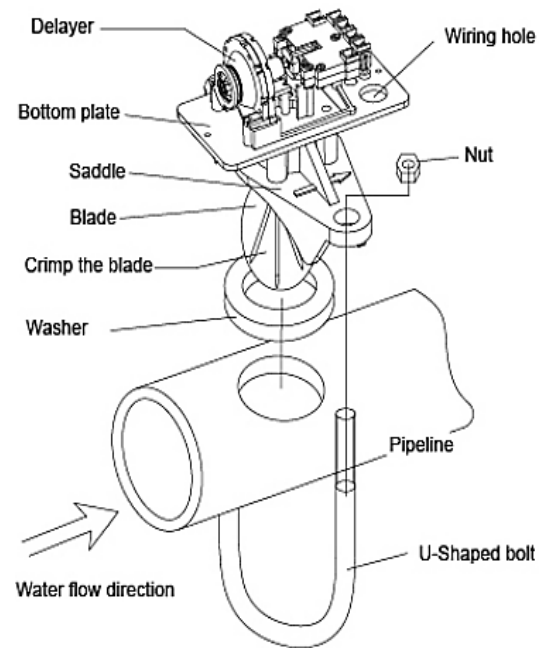


Figure 2



Wiring Diagram

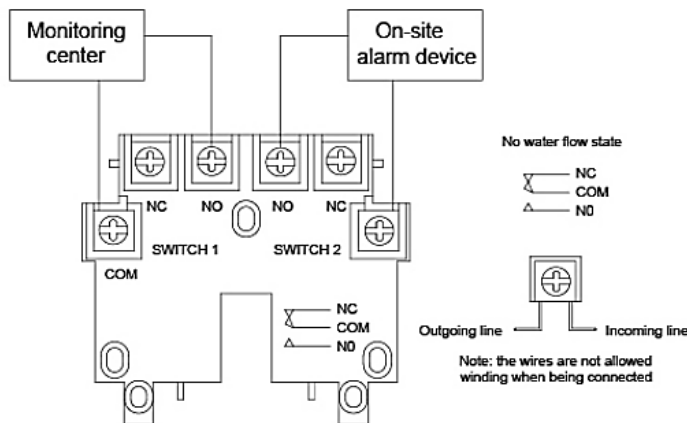


Figure 3

Specification	Hole Size
DN50, DN65	32 + 2mm
DN80-DN250	51 + 2mm