



Vane - Type Waterflow Indicator

Model: FIS - WFS

Version 1.01
July 2025 release

Vane-Type Waterflow Indicator Model: FIS-WFS

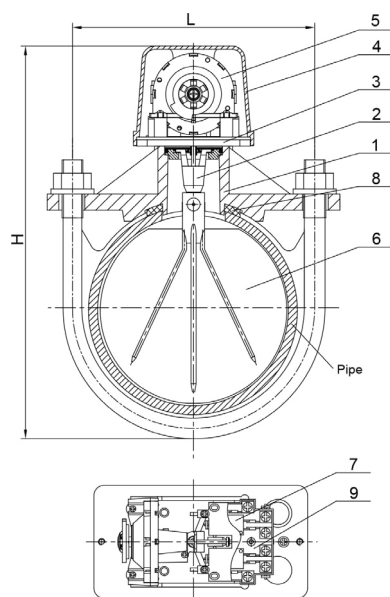


Figure 1 Outline Drawing

Technical Features

- Size: DN50-DN250 / 2"-10"
- Working Pressure: 450PSI & 300PSI
- Sensitivity:
 - FM: 1. No-alarm flow $\leq 15\text{L} / \text{min}$
 - 2. Alarm flow $> 15\text{L} / \text{min}, \leq 75\text{L} / \text{min}$
 - UL: 1. No-alarm flow $\leq 15\text{L} / \text{min}$
 - 2. 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

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
FIS-WFS 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

Table 1 - 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 |

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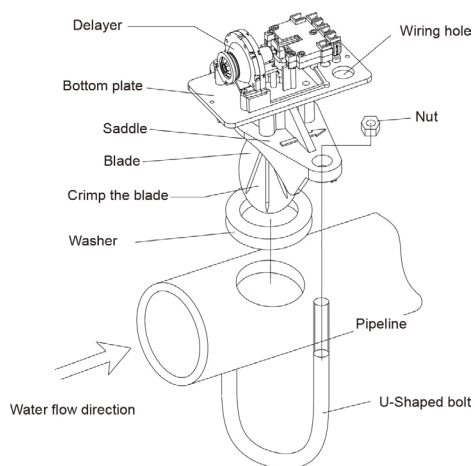


Figure 2 Installation Drawing

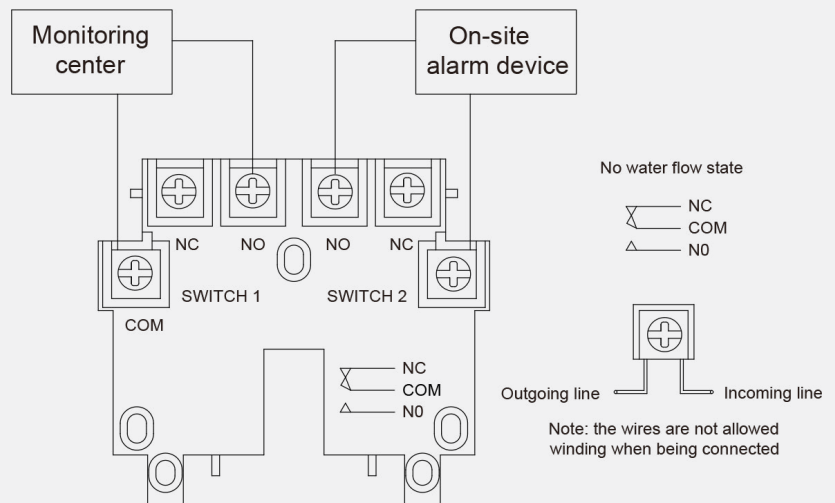
Installation, Debugging and Precautions

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

Materials List

| No | Name | QTY | Material | Standard |
|----|--------------------------|-----|--------------------|------------------------|
| 1 | U-type bolt | 1 | ASTM A36 | ASTM A36 / A36M |
| 2 | Vane | 1 | LLDPE | |
| 3 | Sealing Gastket | 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 |



Wiring diagram / Figure 3

Table 3

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

