

WFS-1003-H WATER FLOW SWITCH

APPLICATION

The paddle type SPDT WFS series are designed to provide excellent performance where accuracy, reliability, and rugged construction (IP54) are required used in liquid flow lines carrying water or any fluid neither harmful to brass and phosphor bronze nor classified as a hazardous fluids.

They can be wired to close one circuit and open a second circuit when liquid flow either exceeds or drops below the adjusted flow rate. The WFS series are recommended for liquid pressure and temperature as mentioned below and must not be used on lines carrying liquids below 0 degree C.

These series may be used on liquids with high salt or chlorine content but is not for use in hazardous atmospheres. They may be also used outdoors but must be protected from weather or splashing water.

All series WFS flow switches are designed for use only as operating controls. Where an operating control failure would result in personal injury and/or loss of property, it is the responsibility of user to add safety devices that protect against, or supervisory systems that warn of control failure.

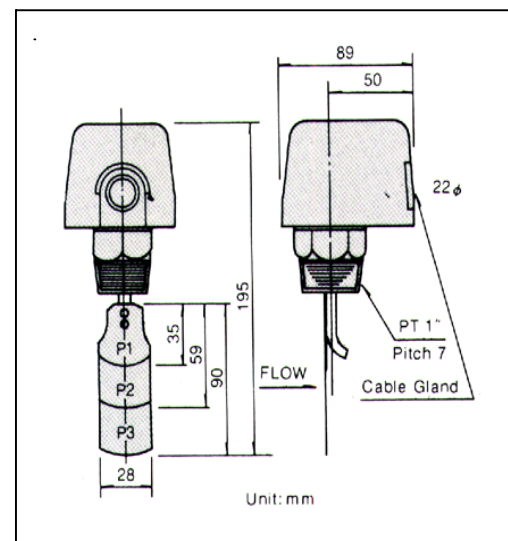


**Stainless Steel Cover
Stainless Steel Base
Plate**

Technical Specification

| | |
|-----------------------|------------------------------------|
| Operating Pressure | 10kgf/cm ² (1000KPa) |
| Withstand Pressure | 17.5Kgf/cm ² (91750KPa) |
| Insulation Resistance | Over 100Ω DC500VM |
| Withstand Voltage | AC1500V/1minute |
| Contact Point Life | 1000K Cycle |
| Bellows Life | 500K Cycle |
| Temperature of Fluid | Max 100°C (212°F) |

Dimensions



This product meets the requirements of **CE**

Honeywell

Electrical Ratings

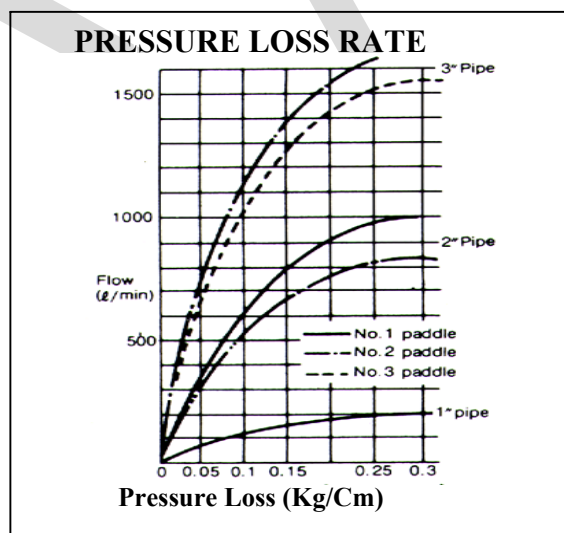
| Type | Voltage | Resistance Load | Lamp Load | Motor Load |
|---------------|----------------------|-----------------|------------|------------|
| AC (Standard) | AC 125 V AC 250 V | 5A 2.5A | 44A 22A | 5A 2.5A |
| DC | DC 115 V DC 230 V | 0.3A 0.15A | | |

Part Descriptions

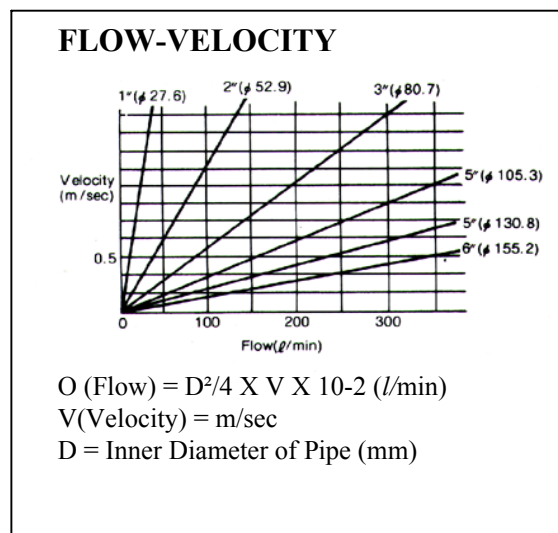
| CLASSIFICATION | | FLOW CONTROL RANGE | | LPM (GPM) | |
|----------------------|--------|--------------------|------------|--------------|-------------|
| Pipe Diameter (inch) | Paddle | Minimum | | Maximum | |
| | | On-Flow | Off-Flow | On-Flow | Off-Flow |
| 1 | 1 | 15 (4.0) | 8 (2.0) | 45 (12.0) | 41 (11.0) |
| 1-1/4 | | 26 (6.9) | 13 (3.4) | 75 (20.0) | 68 (18.0) |
| 1-1/2 | | 29 (7.0) | 20 (5.3) | 105 (28.0) | 94 (25.0) |
| 2 | 2 | 34 (9.0) | 17 (4.5) | 120 (32.0) | 105 (28.0) |
| 2-1/2 | | 60 (16.0) | 34 (9.0) | 210 (55.0) | 188 (50.0) |
| 3 | 3 | 68 (18.0) | 30 (8.0) | 288 (76.0) | 275 (73.0) |
| 4 | | 128 (34.0) | 64 (17.0) | 412 (109.0) | 360 (95.0) |
| 5 | | 225 (59.0) | 113 (30.0) | 750 (198.0) | 652 (172.0) |
| 6 | | 345 (91.0) | 172 (45.0) | 1125 (297.0) | 975 (258.0) |

This table illustrates the flow control range obtained from experimental data. A variation of up to 10% can be expected, depending on operating conditions. Final adjustments should be made on site using a flow meter.

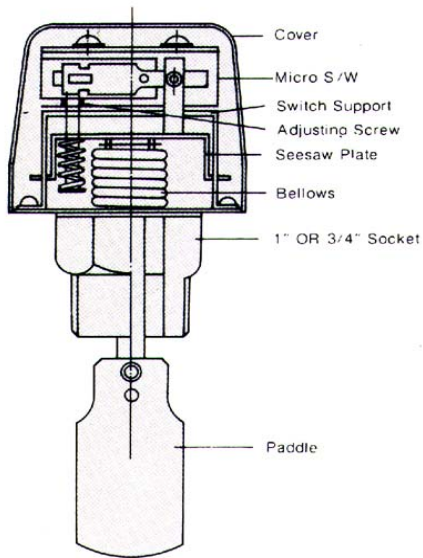
Pressure Loss Rate



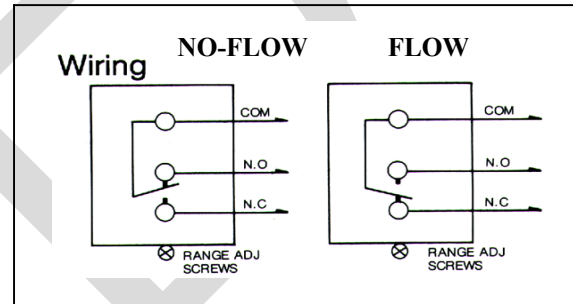
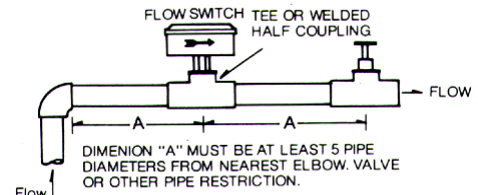
Flow-Velocity



Typical Installation



Typical Installation



For more information,
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