



YPL INSTRUMENTS PVT. LTD.

FLOW SWITCH FLAPPER: YPL-FSF33

Introduction

YPL insertion type flapper (vane) operated magnetic flow switch Are suitable for sensing flow of liquids like oil, chemical or in Water lines. These switches can either be supplied in weather Proof housing.

Principle of Operation

The flapper is magnetically linked to pivoted micro switch which is Isolated from the process by a non magnetic enclosing tube. As the Flapper moves with an increase in flow, it drives attraction sleeve Into the fields of a permanent magnet located outside the enclosing Tube which actuates the switch. As flow decrease, the flapper returns To a vertical position allowing the magnet and switch assembly to Return to the 'No flow' position.



FIG. 1

| | |
|-----------------------------|----------------------------|
| Service | : condensate, oil, liquids |
| Process Connection | : 2" NPT |
| Process Connection Material | : carbon steel/SS304/SS316 |
| Temperature | : 150°C |
| Operating Pressure | : Upto25kg/cm ² |
| Enclosure | : Weather proof |
| Enclosing Tube | : SS316 |
| Attraction sleeve | : SS410 |
| Flapper & linkage | : SS316 |
| Body | : carbon steel/SS304/SS316 |
| Electric Connection | : ½" NPT |
| Setting accuracy | : ±25mm |

FLOW RATES (WATER SERVICE)

| Pipe Line Size | | Flow Increase(m ³ /h) | | Flow Decrease(m ³ /h) | |
|----------------|-----|----------------------------------|------|----------------------------------|------|
| Inches | mm | Min. | Max. | Min. | Max. |
| 2.0 | 50 | 6.0 | 3.5 | 4.5 | 10.0 |
| 3.0 | 75 | 8.5 | 19.0 | 6.5 | 4.0 |
| 4.0 | 100 | 11.0 | 25.5 | 8.5 | 18.5 |
| 6.0 | 150 | 19.0 | 39.5 | 13.5 | 27.5 |
| 8.0 | 200 | 28.0 | 51.0 | 19.5 | 4.5 |

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