

## FLOW SWITCH DISC: LFIA – FSD

### Introduction

LFIA online type plug (disc) 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

Change in flow through valve body raises or lowers the plug  
Which causes attraction sleeve to move in the enclosing tube?  
The increase of flow causes flow plug to lift which causes attraction  
Sleeve to move up in the field of permanent magnet located outside  
The enclosing tube, which causes the switch to operate. When the  
Flow rate drops below the rate for which flow plug is calibrated,  
A reversal of this action takes place.

### Specification

Service	:	Condensate, Oil, Liquids
Process Connection	:	Screwed NPT or Flanged
Sensing Element	:	Plug
Temperature	:	150°C
Operating Pressure	:	Upto 25kg/cm <sup>2</sup>
Enclosure	:	Weather proof
Enclosing Tube	:	SS316
Attraction sleeve	:	SS410
Disc & stem	:	SS316
Body	:	Bronze / SS316
Electric Connection	:	½" NPT
Setting accuracy	:	±25mm



FIG. 1

### Flow rates water service

Pipe size	Increasing rate m <sup>3</sup> /hr	Increasing rate m <sup>3</sup> /hr
¾" NPT	0.75	0.55
1" NPT	1.25	1.02
1 ½" NPT	2.75	2.00
2" NPT	3.25	2.75