

# REVATHI ELECTRONICS & CONTROLS

ITEM NO. : 6

ITEM : EXTERNAL CAGE TYPE FLOAT OPERATED MAGNETIC LEVEL SWITCH  
SIDE -SIDE CONNECTION WITH EXTERNALLY ADJUSTABLE SWITCHES.  
REFER OUR G.A. DRG. NO. RECFLS-1001-FLP.

## PRINCIPLE OF OPERATION :

This is a float operated Level Switch having single float for low or high operation enclosed inside a cage having side -side connections to process tank. Here the float which carries the magnet moves up and down sensing the level increase or decrease inside the external chamber. These switches are externally fitted i.e. they are clamped outside the chamber pipe. These switches are latching type and they are either Reed or Micro type. Once the float moves up due to level rise while exceeding the actuation points the float magnet actuates the switch i.e. (NC to NO). It remains as No contact because of the latching arrangement inside the switch though the level continuously rises to the maximum. When the level drops lower than the set point the contact changes though the level goes down even to its lowest position such as even to the zero position i.e. the bottom nozzle central line. Here we have an advantage of changing the set points externally throughout the range at any time without the process by simply rising or lowering the clamp on switch.

## MATERIAL SPECIFICATIONS:

- |     |  |   |                                      |
|-----|--|---|--------------------------------------|
| 1.  | Tag Number   | : | To mention                           |
| 2.  | Service  | : | To mention                           |
| 3.  | Op Press Kg/Cm <sup>2</sup> g / Temp ° C / Sp. Gr. | : | To mention                           |
| 4.  | C/C Distance of the chamber                        | : | To mention                           |
| 5.  | Body / Cage material                               | : | CS / SS / PP                         |
| 6.  | All wetted parts malt.                             | : | SS/PP/PVC/HDPE/PVDF/PTFE etc.        |
| 7.  | Pross. Conn. Flange Size & Rating                  | : | ¾" ANSI 150# RF B 16.5 or To mention |
| 8.  | Process Conn. Location upper                       | : | Side - Side                          |
| 9.  | Process Conn. Location lower                       | : | Side - Side / Side - Bottom          |
| 10. | Vent & Drain conn. Size                            | : | ½" NPT (F) with plug.                |

## DETAILS OF SWITCH

- |     |                           |   |   |
|-----|---------------------------|---|---|
| 11. | No. of Switch             | : | 1 / 2 / 3 / 4 Nos. (HIHI, HI, LO & LOLO)  |
| 12. | Output                    | : | Contact                                   |
| 13. | Differential              | : | Fixed 25 - 30 mm approx.                  |
| 14. | Switch type               | : | Sealed Magnetic reed / Micro type.        |
| 15. | Qtn. / Form               | : | 1 NO. SPDT / DPDT                         |
| 16. | Contact Rating            | : | 230 VAC, 5A (surge) 60 WVA                |
| 17. | On level Increase contact | : | To mention                                |
| 18. | On level Decrease Contact | : | To mention                                |
| 19. | Connection Head           | : | Cast Aluminium Weatherproof or Flameproof |
| 20. | Cable Entry               | : | ¾" ET (F) STD                             |
| 21. | Qty.                      | : | To mention                                |

## SIDE-SIDE CONN. FLOAT OPERATED LEVEL SWITCH WITH EXTERNALLY ADJUSTABLE SWITCHES

