

REVATHI ELECTRONICS & CONTROLS

ITEM NO. : 5

**ITEM : EXTERNAL CAGE TYPE SINGLE STEM / MULTIPOINT LEVEL SWITCH :
REFER OUR GENERAL ARRANGEMENT DRG.NO.RECFLS-1005-WP**

PRINCIPLE OF OPERATION :

This is Float operated or displacer operated top mounted level switch having a single float for low or high operation enclosed inside a cage having side-side connections to process tank. Float are fabricated out of stainless steel. When the level rises above the actuation point, the float which buoys up along with level rise actuates the magnetic switch which is kept sealed inside the stem. The switches are completely isolated and they do not come in contact with liquid. The closure of the switch can operate a contactor or relay to indicate the level rise or decrease.

DETAILS OF SEALED MAGNETIC SWITCH :

The basic switch used in all cases will be of imported origin and sealed type. The switch used is hermetically sealed inert gas filled magnetic switch with gold plated contacts of the following specifications.

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|----|------------------------------------|---|--------------------------------------------------------------------------------------------------------------|
| 1. | Contact Rating / Form | : | 230 VAC 5 A (Surge) 60 W \ VA / 1 No. SPDT can directly operate 110/230 VAC Siemens or L&T size 1 contactor. |
| 2. | Max..Initial contact resistance | : | 150 milli ohms |
| 3. | Max. Insulation contact resistance | : | 10 ¹¹ Ohms. |
| 4. | Max. Operate time | : | 0.5 milli second |
| 5. | Max. Release time | : | 0.1 milli second |
| 6. | Life expectancy | : | 100 million operations |

MATERIAL SPECIFICATIONS:

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|-----|-------------------------------------------------------------|---|--------------------------------------|
| 1. | Tag Number | : | To mention |
| 2. | Service | : | To mention |
| 3. | Op Press _{kg/cm²g} / 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. | Rotatable head | : | Yes |
| 11. | Finned extension | : | If required will be provided |
| 12. | Vent & Drain conn. Size | : | ½" NPT (F) with plug. |
| 13. | No. of Displacer / Float | : | To mention |
| 14. | Displacer or Float material | : | SS/PP/PVC/HDPE/PVDF/PTFE etc. |

DETAILS OF SWITCH:

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|-----|---------------------------|---|------------------------------------------------------|
| 15. | Output | : | Contact |
| 16. | Differential | : | Fixed 3-4 mm for float & approx. 60 mm for Displacer |
| 17. | Switch type | : | Sealed Magnetic reed type. |
| 18. | Qtn. / Form | : | 1 NO. SPDT / DPDT |
| 19. | Contact Rating | : | 230 VAC 5A (surge) 60 W/VA |
| 20. | On level Increase contact | : | To mention |
| 21. | On level Decrease Contact | : | To mention |
| 22. | Connection Head | : | Cast Aluminium Weatherproof or Flameproof |
| 23. | Cable Entry | : | ¾" ET (F) STD |
| 24. | Qty. | : | To mention |

