

# VERTICAL FLOAT SWITCHES-40S



## PRINCIPLE :

The magnetic float switch consists of non-abrasive float carrying permanent magnet and non-ferrous stem carrying one or two reed switches. The float glides along the stem and when the float nears the vicinity of reed switch the magnetic field of permanent magnet forces the reed contact to close, thereby completing the external electrical circuit.

## APPLICATIONS :

Due to its simple design, reliability and with only one moving part i.e., magnetic float, it finds applications in various liquids where accurate and repeated liquid level control is called for.

However the float switches do not work satisfactorily in highly contaminated liquids and liquids with the high viscosity.

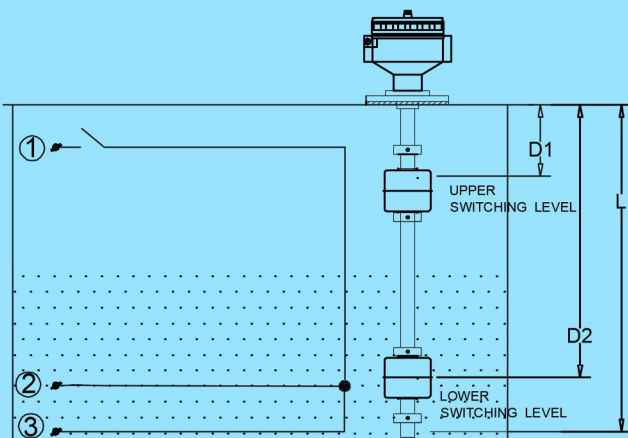
This type of float switches are suitable for centralized lubrication systems for machine tool, printing, packaging, packaging, textile and special purpose machines.

## CONSTRUCTION :

The low cost float switches for OEMs incorporate SS 304 stem & Stopper, polyurethane foam float, mild steel flange and either glass filled polyamide DIN connector or Cast Aluminum Enclosure.

## CONTACT PROTECTION METHODS :

We recommend R-C Network for alternating current circuit and clamping diode for direct current circuit to protect the contact of float switches.



## SWITCHING ACTION :

Terminal 1 - 3 To close on Raising liquid level At D1 (Min 50 mm)

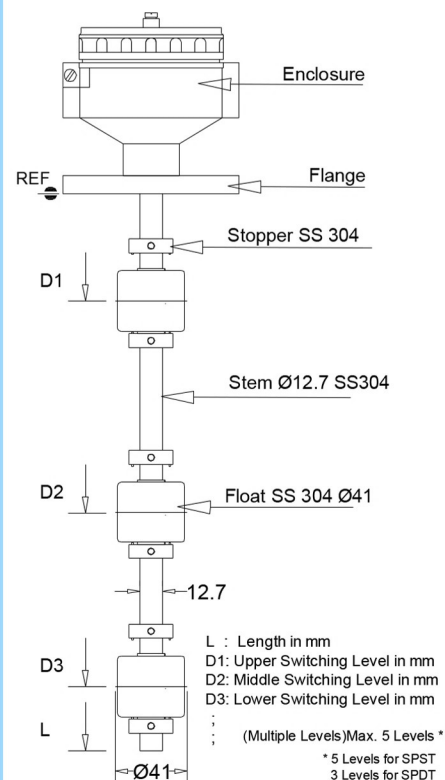
Terminal 2 - 3 To close on Raising liquid level At D2 (Max L- 50 mm)

## TECHNICAL SPECIFICATION:

1. Minimum Specific Gravity of Liquid : 0.75
2. Density of Float :  $0.6 \pm 5\%$
3. Minimum Upper Switching Level : 50mm
4. Maximum Lower Switching Level : L-50mm
5. Minimum Distance between Levels : 100mm
6. Repeatability : 1.5mm
7. Maximum Switching Hysteresis : 3mm
8. Maximum Temperature :  $-10^{\circ}\text{C}$  TO  $+125^{\circ}\text{C}$
9. Maximum Pressure : Atmospheric
10. Maximum Error :  $\pm 1\text{mm}$
11. Enclosure - Weather Proof : Weather Proof to IP66
12. Gland Entry : 3/4" for Aluminum / SS 304
13. Stem :  $\varnothing 12.7$  SS 304 (MAX.Length 3000mm)
14. Float :  $\varnothing 41\text{mm}$  SS 304

### PLEASE NOTE:

Stem / Float, Material available in various of SS316 / SS316L



SWITCH TO CLOSE ON LIQUID RAISING LEVEL  
NORMALLY CLOSED (NC) IN HEALTHY CONDITION  
(consult us if switch to close on falling liquid level is required)



SPST: Normally Open contact (NO)  
(Single pole single through)



SPDT: Change over contact (C/O)  
(Single pole double through)

### ELECTRICAL DETAILS:

TypeNo.(T*)	Maximum Switching Voltage	Maximum Switching Current	Contact Rating	Contact Form
11	200 V DC 125 V AC	0.5A	15VA	SPST
12	300 V DC 240 V AC	3A	100VA	SPST
21	200 V DC 175 V AC	0.25A	5VA	SPDT
22	230 V DC 230 V AC	1.0A	60VA	SPDT

### MOUNTING TYPE:

75 :  $\varnothing 75\text{mmOD}$ , PCD60,  $\varnothing 6.6$  mm 4 Mounting holes  
100 :  $\varnothing 100\text{mmOD}$ , PCD80,  $\varnothing 8.8$  mm 4 Mounting holes

PLEASE NOTE: Specify the Flagge materi  
Mid Steel(MS)  
Stainless Steel (SS 304)

## ORDERING INFORMATION:

**VERTICAL FLOAT SWITCH**

**ENCLOSURE** SS AL

**TYPE\*** 11, 12, 21, 22

**VFS-40S / E-\_\_\_ / T-\_\_\_ / M-\_\_\_ /**

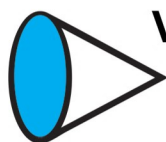
**Specify L... / D1... / D2... / D3... (in mm)**  
(Multiple Levels)Max. 5 Levels\*  
\* 5 Levels for SPST  
3 Levels for SPDT

**MOUNTING TYPE** :75, :100

\* Refer Electrical details

since continuous development is our policy, the above specification and details may change without prior notice

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**VIDYUTH ENTERPRISES**

#387/41, Bikasipura Main Road, Yelachenahalli,  
(Near Delhi Public School) Bangalore - 560062.  
Ph : 080-26860013/14, 26861056 - Mob : 9886715952  
email : info@vidyuth.co.in - manufacture@vidyuth.co.in  
web : www.vidyuth.co.in

