

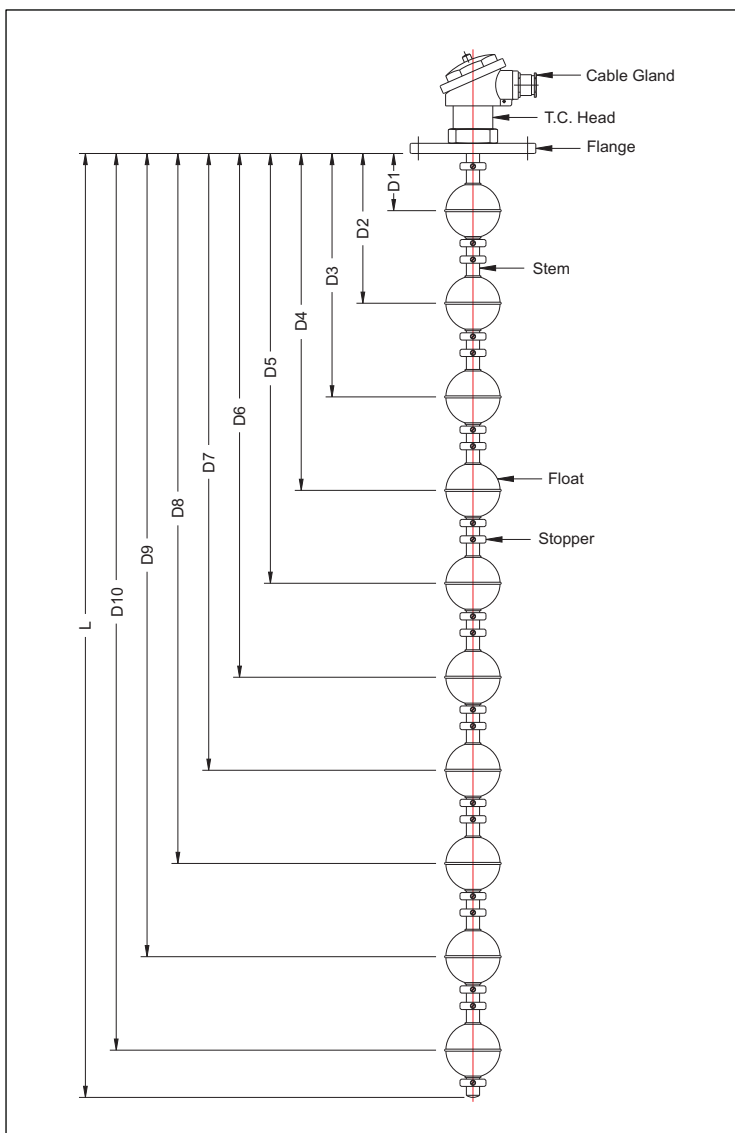
PERCENTAGE LEVEL INDICATION FLOAT LEVEL SWITCHES - PLFS

These level switches have 10 different magnetic floats at 10 preset levels which give a percentage output in linearity. It offers trouble free service in conductive / non-conductive liquids under widely varying temperatures, pressures, liquid viscosity and corrosive conditions. Besides, it provides high repeatability and effects of shocks / vibrations are minimal.

CONSTRUCTION & OPERATION

Magnetic reed switch being the sensing element, the float switch operates on a simple principle. A float encircling a fixed stationary stem is equipped with powerful permanent magnets. As the float rises or lowers with liquid level the magnetic field generated by the magnet that is present within the float actuates a hermetically sealed reed switch mounted inside the stem. This in turn makes or breaks the contact of the reed switch.

Further, the reed switch is connected in parallel to resistors in turn giving a resistance output which is connected to an instrument PCRLS - M1 (Refer fig.01) which gives a digital output in percentage



SPECIFICATIONS

Enclosure	: Cast Al, W-proof to IP 66 / Ex-proof to Gr. IIA & IIB
Conduit Connection	: Brass, 3/4" ET / 1/2" NPT
Guided Stem MOC	: SS316 / SS304
Float MOC x Size	: SS316 x Ø40, Ø52 / PU foam x Ø35
Stem OD	: Ø12.7 in SS316 / SS304
Operating Temperature	: SS316 - Ø52, Ø40 Upto 150°C / PU foam - Ø35 Upto 60°C
Operating pressure max.	: SS316 - Ø52, Ø40 Upto 20Kg/cm ² / PU foam - Ø35 - Atmospheric
Min. Specific gravity	: 0.7
No. of Floats	: 10
Process Connections	: Flanged
Preset levels	: 1 to 10 Factory set or adjustable available on request
Switch type	: Glass encapsulated hermetically sealed reed contacts
Switching capacity	: 100VA (NO)
Differential	: Fixed (10 ± 2mm)
Accuracy / Repeatability	: ± 2mm / ± 1mm
Load	: Resistive / Inductive
Insulation	: 100 Mega-Ohms at 500V DC
Special Features	: Intrinsically safe to Ex ib Gr IIA-IIB

APPLICATION

Water / Waste water treatment plants, Cooling towers, Lubrication / Filtration systems, Paint shops, Food / Drug / Pharmaceutical / Chemical & Petrochemical industries.

ORDERING INFORMATION

Specify total length of the guided stem (L), mounting flange details, specific gravity, operating temperature & pressure.

Note : Please mention **PERCENTAGE LEVEL SWITCH** while ordering.

RECOMMENDED INSTRUMENT FOR PERCENTAGE OUTPUT



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Note: All dimensions in MM, unless otherwise specified.