



# MAGNETIC OIL LEVEL GAUGE WITH CONTACTS

MODEL - SO 6, DIAL SIZE 150 mm

ISO 9001:2015 CERTIFIED

## APPLICATION:

This indicator is suitable for oil filled Distribution Power Transformers & oil filled tanks.

## SCOPE:

Indicator continuously reads level inside the conservator and operates a micro switch when oil level drops from full mark to empty level mark.

## CONSTRUCTION & WORKING:

This indicator basically made in flange mounting type with graded aluminium alloy body. To avoid leakage of oil and to avoid entry of contaminated air into tank, a pair of permanent magnets is used separated by a metallic wall. A float is used as sensor of the instrument & is connected to driving magnet through a bevel gear. The driven magnet is positioned outside in air in main body which carries a pointer and a cam. The pointer is set to read the oil level and the cam is set to operate the switch near Empty level. Switch resets automatically when level of oil is brought to normal. Contacts of switch are brought outside in terminal box with threaded hole for fixing cable gland. The body of indicator with dial and switch is sealed to avoid entry of moist air. Hence switch is not accessible for resetting or servicing.

## SPECIFICATIONS:

Liquid in tank : Transformer oil & other oils.

Working : Temp.  $-30^{\circ}$  to  $100^{\circ}$  Cent. of oil.

Pressure : 0 to 1 Kg/Cm<sup>2</sup>.

Environment : Indoor or outdoor.

Mounting : To mount the indicator the position can be selected on vertical or inclined wall of conservator/tank depending on importance of oil level readings and switching near Empty level (fig. - A) or customer requirements.

## Calibration:

Dial Size: 150 mm round (nominal)

Calibration: We can provide customised non-standard dial marking and calibration also.

Colour : Black marking on white background or any other combination as required.

## Float (sensor) and arm:

Float & Float Arm - are made of brass.

Float Arm - is supplied of fixed Length or adjustable length type or as per conservator dia or as per order.

## Margin:

Leave Min. 65 mm beyond lower & higher limit markings to avoid striking of float to bottom & top of conservator. To indicate level height of the oil into the conservator viewing front dial marking with pointer of the instrument.



MODEL: SO 6 (Normal)

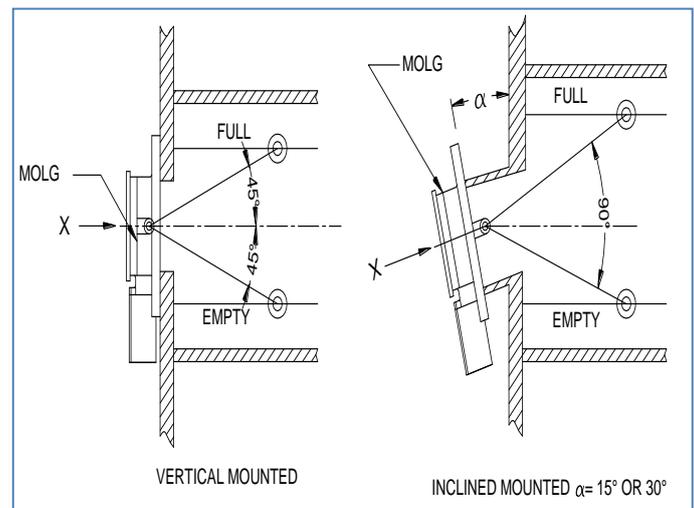


FIG. - A

MOUNTING POSITIONS

**Switch:**

Type: Micro switches Contact.

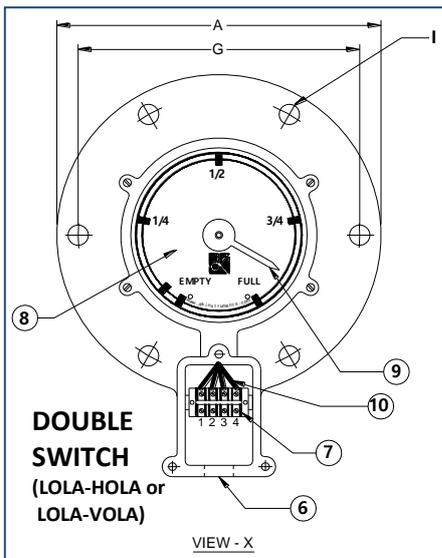
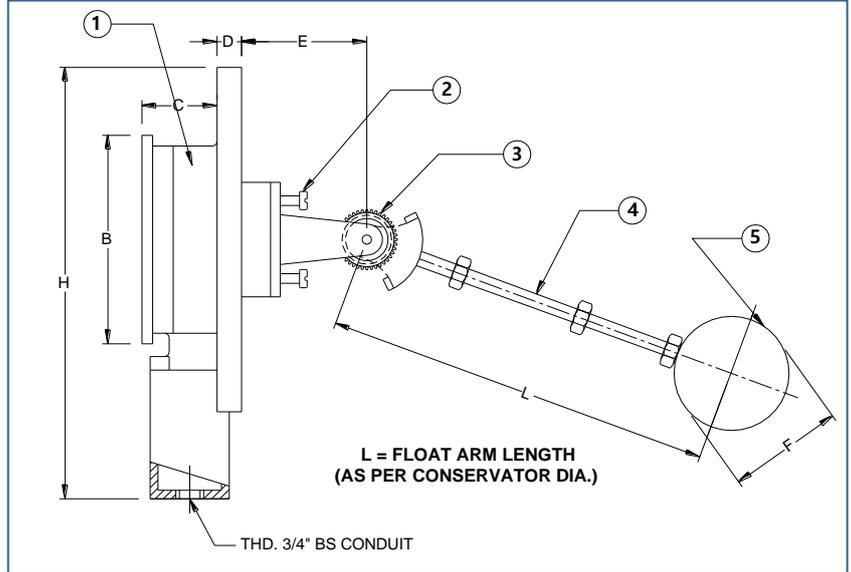
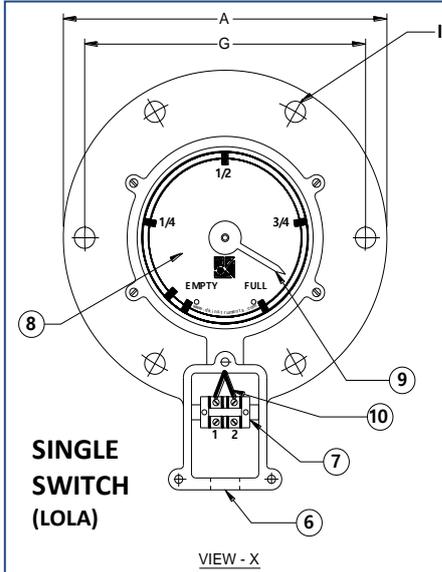
Rating: 5Amp 240VAC, 0.5 Amp 240VDC

Operation: LOLA, VOLA, HOLA

**FIG. – B**

**MAGNETIC OIL LEVEL GAUGE**

**MODEL: SO – 6**



PARTS LIST			
SL No.	DESCRIPTION	MATERIAL/ MAKE	QTY.
1	MAIN BODY	GRADED AL. ALLOY	1
2	LIMIT STOPPER	SS	2
3	LEVER WITH GEAR	BRASS	1
4	FLOAT - ARM	BRASS	1
5	FLOAT	BRASS	1
6	HOLE FOR CABLE GLAND	3/4" BSC	1
7	CONNECTOR	ESSEN	1
8	MICRO SWITCH	HONEYWELL	1
9	DIAL WITH POINTER	ALUMINIUM	1
10	CONNECTING WIRE	FINOLEX	2

MODEL	DIAL SIZE	A	B	C	D	E	F	G	H	I	WEIGHT IN (Kg)
SO6	150	Ø236	Ø195	30	12	42	Ø50	Ø209.7	285	8 HOLES Ø13	2.0

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