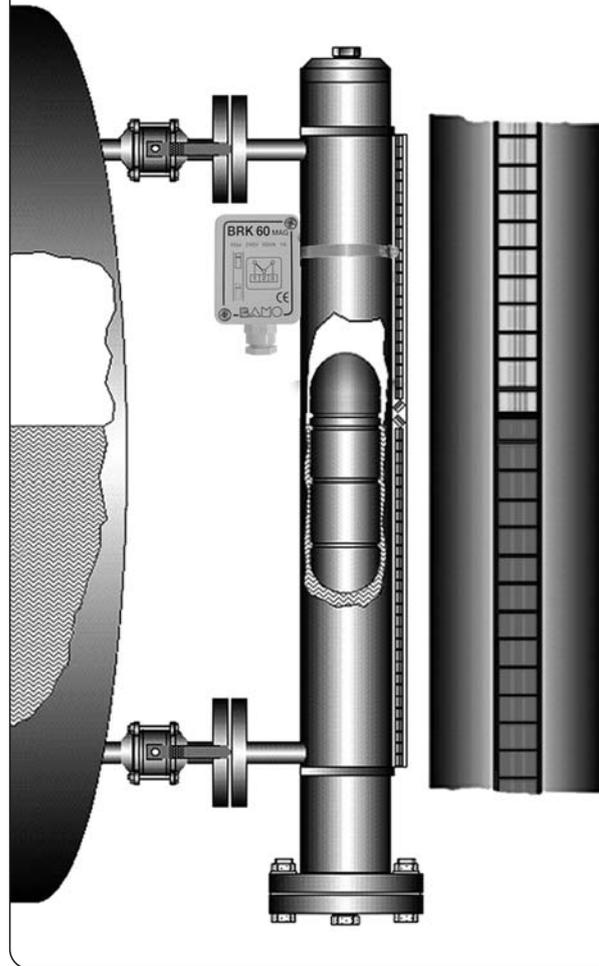


Level indicator MAGTOP 300



WARNING

Level indicator installation and using must be done outside from any magnetic field zone. Use non magnetic connection (Brass, Stainless Steel or plastic). Any iron device must be installed at 10 cm minimum distance fare. Ensure chemical compliance between liquid and level indicator. To get easy mounting and dismounting, a valve can be placed between tank and level indicator flange. Those valves may be used, also, for liquid regulation to avoid strong float up movement (which may damage it). Inlet tank pressure, then in level indicator, must not be over specified in technical features.

INTRODUCTION

Those level indicators allow instantaneous liquid level reading, even they are opaque. They are installed on tank side, by flanges. Measurement on communicating vessels principle. The Float, equipped with magnet, moves bi-colours flaps which keep their positions until the float is coming back. Their colours (red and yellow on black back side) ensure instantaneous and easy reading. Equipped with graduated rule (in option) reading accuracy will be higher.

INSTRUCTIONS MANUAL

BAMO MESURES

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LEVEL INDICATOR
MAGTOP 300

19-03-2014

560 M1 01 E

MES

560-01/1

1. MOUNTING

Verify tank flanges compatibility with MAGTOP flanges.

Install level indicator on tank side.

Do not forget to set seals (not furnished).

It is highly suggested to set insulation valves, between tank and level indicator, in order to be able to remove the float in case of jamming.

Insert the float by removing flange 6.

H is indicating float top.

During installation, bi-colours flaps may not be goodly set.

They will get right position on float movement.

They must be red when float is going up, and yellow when float is going down.

In case of bad level reading, flaps rule can be turned around the tube by unlocking fixing collars.

After re-positioning, lock smoothly collars to avoid damaging this rule.

MAGTOP can be equipped with different options which are:

- Graduated ruler, done with agreement, with requested measure unit (*cm, % or volume*)
- Continuous level output rule with potentiometric or 4-20mA analogic output (RTM)
- Level switches: BSM 515 ; BRK-60 MAG ; BRT-60 MAG
(*To set a level switches or other options, see specific starting up notice.*)

2. STARTING UP

It is suggested to install level indicator on atmospheric pressure, to avoid to quick up float movement, which may damage it.

On magnet passage, flaps turn of 180° passing from yellow to red.

Exact level is indicating by flaps which turned only of 90°.

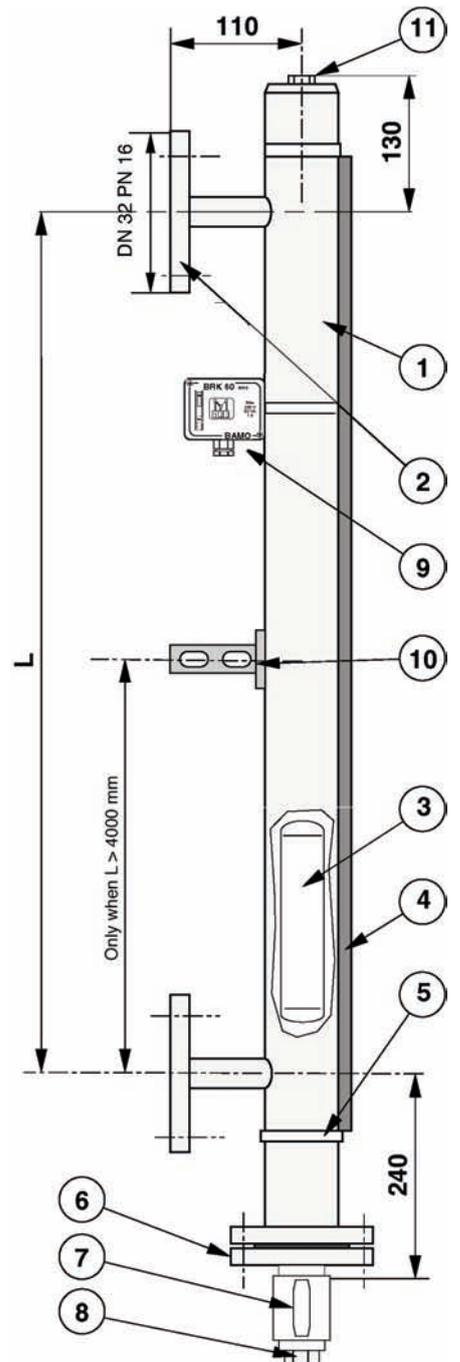
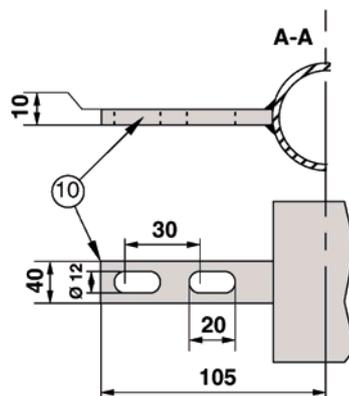
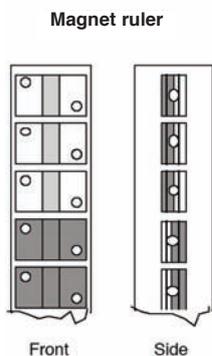
Indicator drain has to be done by unscrewing nut 8.

3. MAINTENANCE

For wast liquids with particles, float might be stopped. Drain level indicator and tank to eliminate dusts. If the float is steal keep stopped, dismount the MAGTOP for full cleaning.

4. TECHNIICAL FEATURES

Material:	Stainless steel
Max. pressure:	According to conditions (16 bar at 20 °C)
Max. T° fluid:	MAKROLON magnet ruler → 120 °C Aluminium/Plastic magnet ruler → 200 °C Aluminium/St. steel magnet ruler → 400 °C



It.	Description
1	Stainless steel 316 L guiding tube, Ø 60.3 mm
2	Flanges, ND 15 to ND 32, nominal pressure NP 10/16
3	Magnetic float
4	MAKROLON or Aluminum magnet ruler (<i>according to temperature</i>)
5	Magnet ruler fixing collar, St. steel 304
6	Flange for maintenance
7	Draining valve (option)
8	BSP 1/2 " draining plug
9	Level switches (option)
10	Supplementary support (<i>if L > 4000 mm</i>)
11	BSP 1/2 " Vent hole with tap (option)