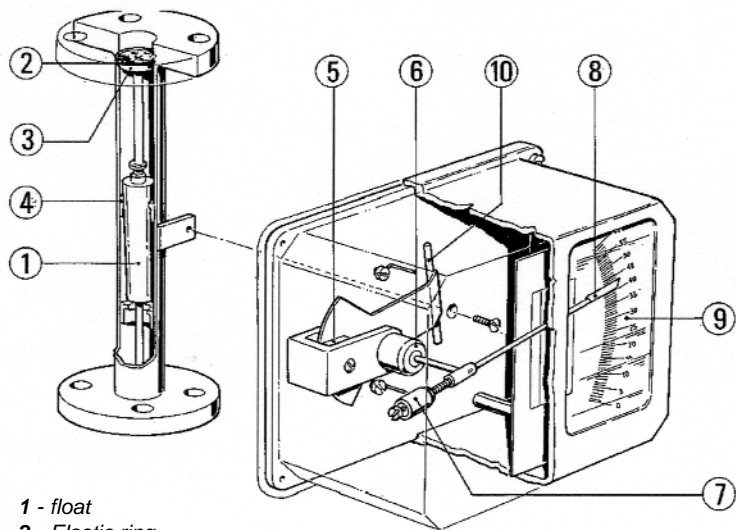
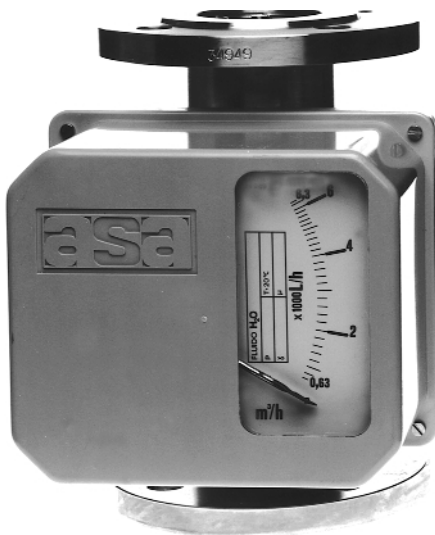


INSTRUCTIONS AND MAINTENANCE

Magnetic flow indicator G6..00/27



- 1 - float
- 2 - Elastic ring
- 3 - Upper float stop
- 4 - Diaphragm
- 5 - Magnetic brake
- 6 - Bearings balls
- 7 - Balance weight
- 8 - Pointer
- 9 - Scale
- 10 - Magnet

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03-03-2004 INSTRUCTION MANUAL
MAGNETIC FLOW INDICATOR
G6..00/27

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1. INSTRUMENT DESCRIPTION

The flowmeter metal tube with measuring diaphragm mod.G6... 00 is provided with a vertical scale magnetic indicator whose case is fastened to the front of the instrument. The flowmeter consists of a tube containing the metering diaphragm, with the connections welded at both ends. A truncated tapered float incorporating a permanent magnet moves inside the metering tube, driving the mobile equipment of the flowmeter. For safety, the mobile equipment of the flowmeter is locked before shipment.

2. INSTALLATION OF THE ASAMETRO ON THE DUCT

Fluid flow must be in the vertical upwards direction. During installation, it is advisable to keep the mobile equipment locked, avoiding any forcing both on the casing and the magnetic extension plate.

Ensure that the inlet and outlet ducts to the instrument are perfectly square with the axis of the duct, the flanges being perfectly parallel to each other in order to prevent abnormal stress on the flowmeter during operation which could lead to its deformation or fracture of the weldings, especially concerning small size flowmeter. After all items have been correctly installed, check the instrument for vertical alignment by means of a plumbline on two perpendicular faces. The magnetic indicator is now ready to work at its best.

3 INDICATOR SET UP

After mounting the flowmeter between the two connecting flanges, proceed to indicator installation. Remove the indicator lock loosening the protective casing mounting screws, being careful that no relative rotation movement between the pointer and the magnet holder takes place, possibly upsetting instrument calibration. It is also of the utmost importance that no dust or other foreign body gets into the indicator ball bearings, in order to have very low coefficients of friction on the bearings and therefore higher reading accuracy. The pointer is now free to turn and travel to rest position. Lastly, refit the indicator case.

4. OPERATING

As ducts can be very dirty with iron chips or dust, it is advisable to install magnetic filters upstream the instrument so that impurities don't come into contact with the float, containing a permanent magnet by which they would surely be attracted, thus upsetting or altogether blocking flow measurement.

If magnetic filters are not available, it is advisable to remove the floats from the instruments before operating and to give the ducts a thorough rinsing in order to remove all traces of foreign bodies.

5. REMOVAL OF THE FLOAT

To take off the float from the instrument, release the upper float stop by removing the circlip holding it to the instrument; then displace the stop from its seat and lift the float out.

CAUTION ! Never attempt to lift out the float from the bottom end of the instrument.

6. VERY IMPORTANT

When removing or replacing the float from or into the instrument, be careful not to distort the guide rods. Should this happen, carefully proceed to straighten them as originally because even the slightest alteration would cause friction of the float against the stops or measuring flange, as well as misalignment between the float and the flange, the consequence of which would be considerable inaccuracy in readings.

7. MAINTENANCE

The flow indicator does not require any special maintenance.

As stated previously, the only item needing attention is the cleaning of the ball bearings, which should never be lubricated. As regards the actual Asametro, the only care recommended is the cleaning of the measuring flange and float surface. During this operation, be careful not to damage the edges of the measuring flange orifice and the ground taper surface of the float which, as previously said, must be removed from the top of the flowmeter.

8. RETURN OF GOODS

In case of return of goods any item must be accompanied by a document with the description of the problem or the bad functioning noticed, as well as any intervention needed.

The sender must communicate whether the instrument was contaminated with toxic or dangerous medium too. Before sending the goods please clean all wetted parts in order to prevent any injury to our repair technical staff.

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