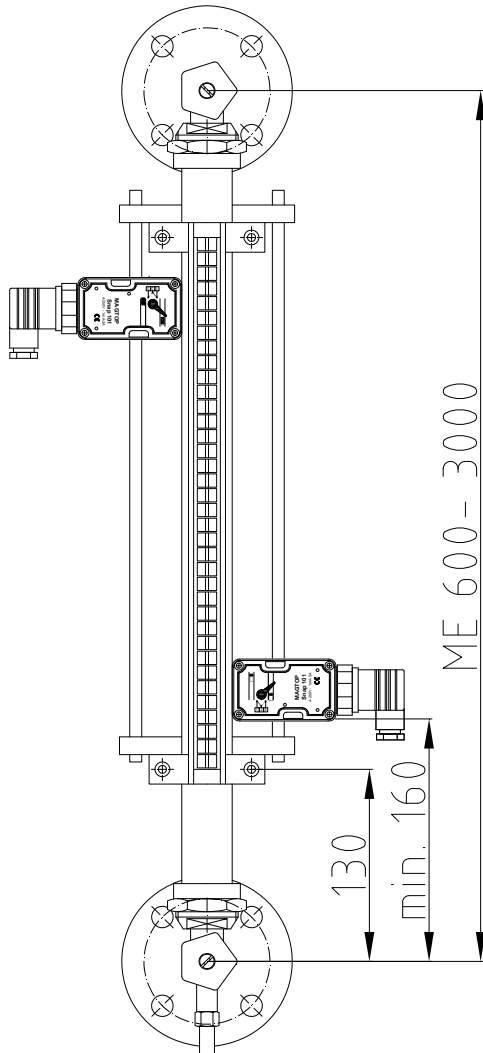


MAGTOP G5 Magnetic Flag Indicator



Please observe the following points!

- Use with low viscosity media only which do not tend to become sticky or encrusted, or to crystallise. Media may not contain any magnetic particles (e.g. machining chips).
- Use only the type M25 float.
- Install the float so that the "TOP" marking points up.
- Adhere to maximum temperature and pressure specifications.
- Do not install crooked! Check centre-to-centre distance and squareness of the flange or threaded connector before assembly.
- Make sure that the sealing rings are arranged in the right order during assembly/installation (see next page).

Functions Description

The MAGTOP G5 magnetic flag indicator is installed at the side of the tank or container. It's filled with media via two stopcocks to the same level as the tank based upon the communicating tubes principle.

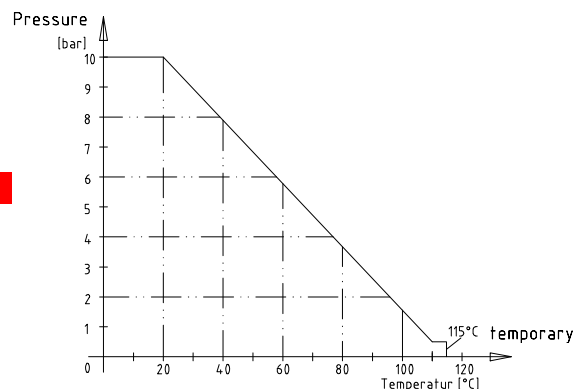
A magnetic float is located inside the standpipe which actuates the magnetic flag indicator.

As the fill-level rises, the flaps are turned from the yellow to the red side. The current fill-level is thus indicated as a red column.

MAGTOP Snap_U bistable switches, which are also actuated by the magnetic float, can be installed to a separate attachment fixture.

Technical Data

Standpipe	Stainless steel, 33.7 x 2.0 mm
Float	Polypropylene (PP), type M25
Fittings	Nickel-plated brass
Seals	Silicon rubber
Operating temperature	0 to +110° C (intermittent: 115° C)
Operating pressure	See below
Centre-to-centre distance (flange centre)	600 to 3000 mm
Attachment	Steel flange per DIN 2642 DN 25 PN, alternatively DN20 PN10, or G½" or G1" thread
Discharge stopcock	Brass, integrated into the bottom stopcock
Magnetic flag rail	Aluminium with Plexiglas viewing cover
Attachment fixture for MAGTOP Snap ... bistable switches	Aluminium



Temperature-Pressure Diagram

Attention!

Maximum permissible pressure depends to a great extent on the stability of the tank connecting pipes leading to the MAGTOP G5. Depending on pressure, these are bent up and down, thus changing centre-to-centre distance. In the case of small pipe diameters or thin tank walls, centre-to-centre distance may not increase by **more than 2 mm** at maximum pressure.

Installation Sequence

MAGTOP G5 with flange mounting:

- Mount the top and bottom stopcocks to the tank flanges with suitable seals. Do not yet fully tighten the bolts.
- Insert the 11 x 12 x 5 silicon discs into the stopcocks.
- Push the sleeve nuts, including the internally snap-fitted silicon rings, onto the standpipe (see figure 2).
- Push the standpipe in between the stopcocks at a 90° angle.
- Check the standpipe for correct length! It must fit flush to the silicon discs. If necessary, loosen the flange bolts and correct the distance/angle.
- Retighten the flange bolts.
- Push the sleeve nuts to the stopcocks and tighten them (46 mm across the flats).
Turn the sleeve nuts hand tight only, making sure not to crush the seals!

Check all fittings for leaks after filling the tank!

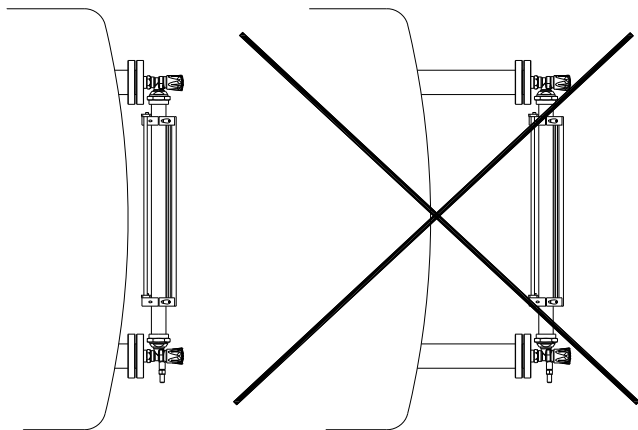
MAGTOP G5 with threaded connection:

- Mount the top and bottom stopcocks to the tank's threaded connectors using a suitable sealant.
- Insert the 11 x 12 x 5 silicon discs into the stopcocks.
- Push the sleeve nuts, including the internally snap-fitted silicon rings, onto the standpipe (see figure 2).
- Push the standpipe in between the stopcocks at a 90° angle.
- Check the standpipe for correct length! The pipe must fit flush to the silicon discs. Adjust if necessary.
- Push the sleeve nuts to the stopcocks and tighten them (46 mm across the flats).
Tighten the sleeve nuts.
- Check all fittings for leaks after filling the tank!

ATTENTION:

Magnetic flap indicators are designed for the direct orthogonal connection to tanks.

The installation with extensions, under tension or twists is not permitted. Additional mechanic stresses from outside by e.g. strong vibrations have to be avoided.



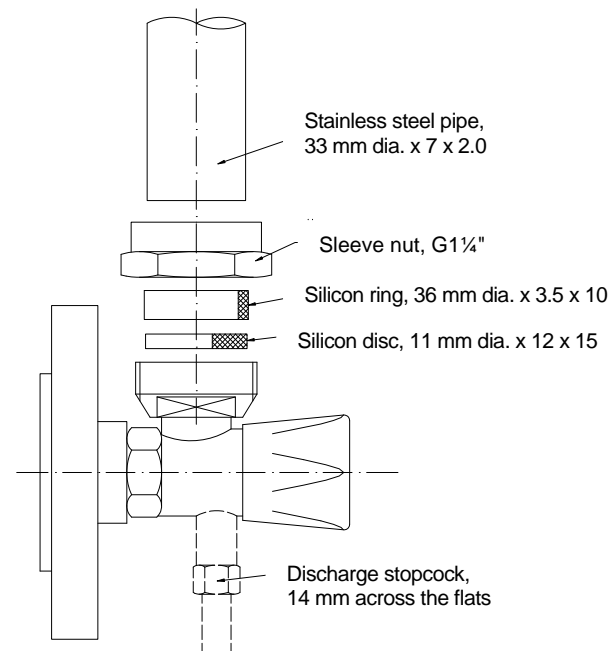
Maintenance:

The MAGTOP G5 is maintenance-free if used for its intended purpose.

However, any magnetisable metal particles in the medium accumulate at the magnetic float over a period of time. In order to prevent possible malfunctions, particles of this sort should be removed from the float at regular cleaning intervals.

The stopcocks are closed to this end and the medium in the pipe can be discharged by opening the nut on the discharge stopcock.

The seals should be inspected during reassembly to assure that they are in good condition, and replaced if necessary.



Assembly of the MAGTOP G5 with Flange Mounting