

# MAGNETIC FLAP INDICATOR MAGTOP G5 / G5C



**MAGTOP G5**  
with nickel-plated brass fittings



**MAGTOP G5C**  
with stainless steel fittings

## DESCRIPTION

MAGTOP G5... magnetic flap indicators combine in a simple way the optical display on site with a level control or measurement. The displays are mounted on the side of containers or tanks and fill to the same level of the tank via two stopcocks according to the communicating tube principle.

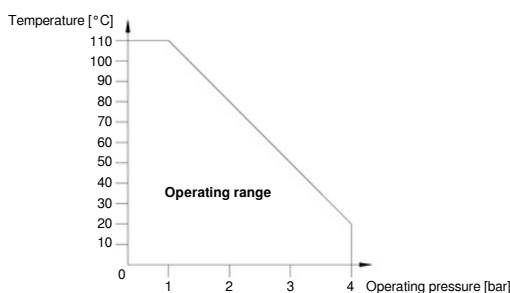
The magnet in the float turns the plates of the magnetic flap from yellow to red as the level rises.

In addition, the optionally available MAGTOP Snap... bistable contacts can be used to implement limit value switching. Limit value switching can be realised.

## TECHNICAL DATA

Standpipe	Stainless steel, 33.7x2.0mm
Float	Polypropylene (PP), type M25
Fittings	Version MAGTOP G5: MS, nickel-plated Version MAGTOP G5C: Stainless steel, 316L
Seals MAGTOP G5	Between valve and standpipe: Silicone rubber inside the valve: EPDM
Seals MAGTOP G5C	Between valve and standpipe: Silicone rubber inside the valve: EPDM / PTFE
Operating temperature	0...110°C (intermittent 115°C)
Operating pressure	see below
Centre distance	min. ME= 600mm max. ME= 3000mm
Extraction tap	Version MAGTOP G5: brass, integrated in the lower stopcock Version MAGTOP G5C (optional): Stainless steel, for screwing to the lower fitting
Magnetic flap rail	Aluminium with makrolon viewing pane
Mounting kit	Aluminium Alu / VA for bistable switches
Accessories	Level limit values: Bistable switch MAGTOP Snap... Remote level indicator: Level probes NIVOMAT FSG...

## Temperature-Pressure Diagram



### Note!

The max. permissible pressure load is strongly dependent on the stability of the tank connection pipes in the direction of MAGTOP G5... The pressure load causes these to bend upwards and downwards and throughout this the centre distance increases. In the case of small pipe cross-sections or thin tank walls the centre distance must not increase by more than 2mm at maximum pressure.

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MAGTOP G5 / G5C**

09-09-2021

M-560.05-EN-AA

**LEV**

**560-05 /1**

## PLEASE NOTE!

- Use only for media with good fluidity that do not tend to stick, crust or 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.
- Max. observe temperature and pressure load.
- Do not install crooked! Centre distance and angularity of the flanges/threaded connections should be checked before assembly.
- Observe the arrangement of the sealing rings during assembly.

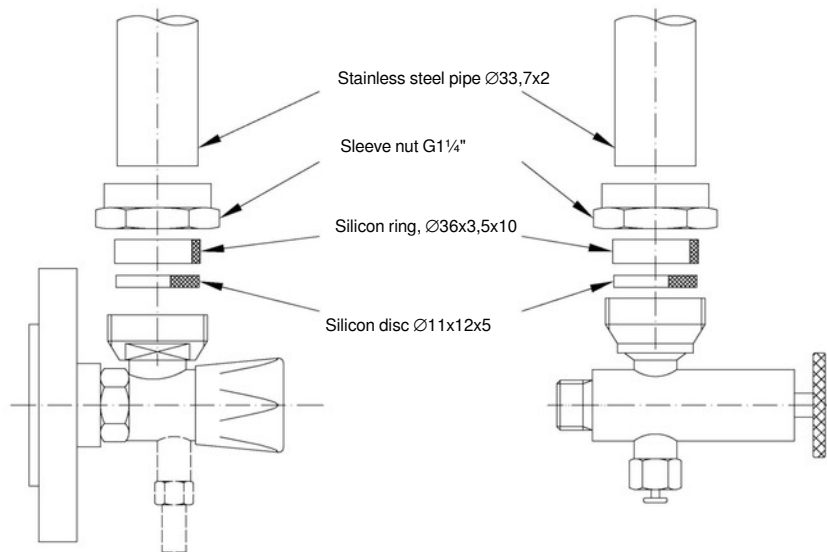
## INSTALLATION SEQUENCE

### MAGTOP G5... with flange connection:

- Fit the upper and lower stopcocks to the tank flange with a suitable seal. Do not tighten the screws completely.
- Insert the 11x12x5mm silicon discs into the stopcocks.
- Push the sleeve nuts including the silicone ring engaged on the inside onto the standpipe (see below).
- Push the standpipe in between the stopcocks at a 90° angle.
- Check the standpipe for correct length! The pipe must be fitted against the silicone discs, if necessary loosen the flange screws and correct the distance/angle.
- Retighten the flange screws.
- Push the sleeve nuts to the stopcocks and tighten (spanner size 46).  
Tighten the sleeve nuts only "hand-tight", do not crush the seal!
- Check all fittings for leaks after filling the tank!

### MAGTOP G5... with threaded connection:

- Mount the upper and lower stopcock with suitable seal on the threaded container connection with suitable sealing material.
- Insert the 11x12x5mm silicon discs into the stopcocks.
- Push the sleeve nuts, including the internally snapfitted silicon rings, onto the standpipe (see below).
- Push the standpipe in between the stopcocks at a 90° angle.
- Check the standpipe for correct length! The pipe must fit to the silicon discs. Adjust if necessary.
- Push the sleeve nuts to the stopcocks and tighten (spanner size 46).
- Check all fittings for leaks after filling the tank!



Assembly MAGTOP G5... with flange connection

Assembly MAGTOP G5... (threaded connection)

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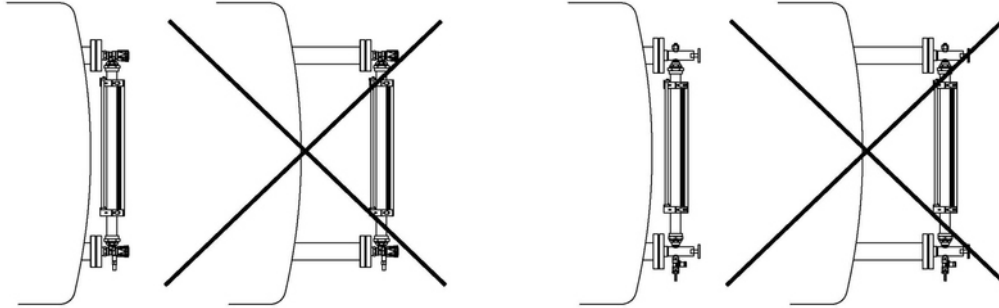
## ASSEMBLY SEQUENCE (continuation)

### 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.

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