

Operating Instructions

Magnetic Flag Indicators

MAGTOP® K2... (PP)

MAGTOP® K3... (PVDF)



MAGTOP® K2... (PP)



MAGTOP® K3... (PVDF)

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 matching floats only:
MAGTOP® K2... = K2M2 float
MAGTOP® K3... = K3M3 float
- Install the float with the "TOP/OBEN" marking at the top.
- 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.

Functions Description:

The MAGTOP® K2 or K3 magnetic flag indicator is installed at the side of the tank or container. It is filled with media 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 63d bistable switches, which are also actuated by the magnetic float, can be installed as well for monitoring fill-level limit values.



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Technical Data

Materials:

Tubes and fittings:

MAGTOP® K2: PP

MAGTOP® K3: PVDF

Floats:

MAGTOP® K2M2: PP

MAGTOP® K3M3: PVDF

Flanges:

Loose flange per DIN 2501 (PN10 hole pattern),
PP with steel insert and flange bushing for O-ring
(see type key for sizes)

Seals:

MAGTOP® K2: EPDM O-rings,

MAGTOP® K3: Viton O-rings, other materials upon request,
e.g. Kalrez

Operating temperature*:

MAGTOP® K2: 0 to +90° C*

MAGTOP® K3: 0 to +140° C*

* Depending upon utilised medium

(see media resistance tables)

Operating pressure:

Max. 2.5 bar (depending upon medium and temperature)

Centre-to-centre distance:

Min. 500 mm

Max. 4000 mm

Magnetic flag indicator:

Material: PC / PC

Installation:

MAGTOP® K2 / K3 with Flange Mounting:

- Mount the magnetic flag indicator to the tank flange using a suitable seal. Do not yet fully tighten the bolts.
- Check centre-to-centre distance and squareness of the flange, and correct if necessary.
- Tighten the flange bolts.
- Unscrew the bottom cover cap, making sure that the seal does not fall out!
- Push the float up into the standpipe from the bottom with the marking at the top.
- Replace the bottom cover cap.
- Check all fittings for leaks after filling the tank!

Maintenance:

The MAGTOP® K2... / K3... 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 seals should be inspected during reassembly to assure that they are in good condition, and replaced if necessary.

Dimensional Drawing:

