



### Safety Precautions:

- In the event of large centre-to-centre spacing, the indicators are too heavy for one person to handle – **work must be performed by two persons in such cases**
- Excessively high temperatures may occur after filling – **personnel must be protected against possible burns**
- Make sure that threaded connections do not leak in order to assure that liquid is not discharged inadvertently during filling  
**Danger of scalding**  
**Danger of burns**
- The device may only be operated under the conditions specified in the operating instructions!

### Functions Description:

Bypass-magnetic flap indicators combine in a simple way a visual display on site with a level control or measurement. A magnet in the float turns at rising level the flaps of the magnetic flap rail from yellow to red.

### Technical Data:

<b>Standpipe:</b>	Stainless steel 316L	
<b>Float:</b>	Stainless steel 316L Type M4= for density 1,0 (standart), optional type M3= for density >0,8	
<b>Process Connection:</b>	see device	
<b>Operating Temperature:</b>	0...+160°C	
<b>Operating Pressure:</b>	max. 16bar at +20°C max. 8bar at +160°C	
<b>Center-to-Center Distance:</b>	Min. ME= 600mm Max. ME= 5000mm	
<b>Magnetic flap rail:</b>	max. +160°C	
<b>Deaeration Screw:</b>	G¼"	
<b>Drain Screw:</b>	G½"; Discharge stopcock optional	
<b>Attachments:</b>	Level-switches:	bisstable switch MAGTOP Snap 101
	Level-remote indication:	level probe NIVOMAT FSG...

### Intended Purpose:

Utilised media must be of low viscosity, any may not contain any solid matter or magnetic particles. Utilised media may not tend to become tacky, resinous, encrusted or to crystallise, thus assuring free movement of the float. Magnetic particles may accumulate at the float, resulting in erroneous level indication and other malfunctions.

**Use only IER float type M 3 or M 4!**

### Installation:

- Check centre-to-centre distance.
- Remove the lower cover flange and seal.
- Slide the float into the standpipe with the "Top" symbol pointing up.
- Reinstall the sealing disc.
- Securely tighten the lower cover flange screws with a 19 mm open-end spanner or ring spanner.
- Tighten the 25mm drain screw, making sure that it seals properly.
- If included, close the discharge stopcock before filling.
  
- Using suitable seals, mount the device to the tank in a stress-free fashion with appropriate nuts and screws.
- It is recommended to stabilize devices with a big center-to-center distance (more than 2500mm) from the bottom
- Fill the tank.
- Deaerate the MAGTOP 316 with the vent plugs if necessary.
- Tighten the upper vent plug.
- Check for leaks after filling.

### Mounting Kit:

Special retaining clips (Al) for mounting:

- Magnetic flap rail
- Tracks for attaching adjustable MAGTOP Snap switches
- NIVOMAT FSG fill-level probe

### Maintenance:

- MAGTOP magnetic flap indicators are maintenance-free to a great extent

#### **If cleaning should become necessary:**

- Depressurise the system, or close the shut-off valves
- **Observe safety precautions for tanks containing hazardous or hot liquids!**
- Loosen the upper vent screw before emptying
- Empty via the drain screw or the discharge stopcock
- Carefully remove the lower flange, making sure that the float does not fall out of the standpipe
- Clean as required
- Reassemble as described under "Installation" above
- Inspect flange seal and replace if necessary