Magnetic level indicators with stop cocks

**Construction**
Standpipe and float from stainless steel, magnetic roller display from aluminium profile with plastic castors and switch profile holder.
Top standpipe seal: pipe cap
Bottom standpipe seal: flange with drain plug
Other versions available on request.

**Operating pressure**
16 bar and 40 bar versions.
Other pressure ranges available on request.

**Temperature range**
Standard 0 °C to +80 °C.
Other temperature ranges available on request.

**Pressure fluids**
Water
Other fluids should be specified with the order.

**Start-up**
See standard sheet OLD 1305.

**Accessories**
Magnetic switch, see standard sheet OLD 1116.

Horizontal execution
Vertical execution

For shock absorber dimensions, see relevant data sheets.

Manufacturer’s tolerances not taken into account. Subject to change without prior notice.
Functional description of magnetic level indicator

Two process connections are used to install the level indicator on the side of the shock absorber. Through this direct connection, the fill level in the standpipe precisely corresponds to the level in the shock absorber. The bypass pipe contains a cylindrical float with a built-in magnet system. The concentrated magnetic field of the permanent magnet precisely corresponds to the fluid level in the standpipe. The magnetic field is transferred without contact through the wall of the standpipe to external indicator, recording and switching elements.

The magnetic level indicators are used to visually indicate the fill level or to monitor the gas filling pressure of the shock absorber.

According to the fill level in the standpipe, magnetic rollers are rotated from white to red when the level rises and from red to white when the level falls. In this way, the fill level in the shock absorber can be displayed continuously without the supply of additional power.

Notes for assembly

- Install the supplied orifice plate in the flange seal of the flange connection on the water side of the magnetic level indicator.
- Insert the cylindrical float with the "top" label into the level indicator bypass pipe.
- For versions with magnetic switches, provide sufficient cable to position the switches.

General notes

- Magnetic level indicators must not be exposed to any mechanical loads, vibrations or impact. If such stresses are present, insulating elements must be used.
- Stop valves on the gas/water side of level indicators without a magnetic switch must always be closed!
- If the medium is at risk of explosion, devices that meet ATEX directive 94/9/EC must be used.
- The environmental conditions must allow all error-free reading of all indicator instruments on site, horizontally where possible.

For further details, see the enclosed assembly and operating instructions.