

# Water level gauge **W-350**

## Mounting and Start-Up Instructions

### Safety Instructions

The precondition for flawless, safe operation of the water level gauge is appropriate transport, storage, assembly, professional installation and start-up, proper use and maintenance.

These activities may only be performed by persons, who have the necessary expertise and qualifications. If information contained in these instructions should prove to be inadequate in any way, please contact the manufacturer.

### Function

The water level gauge is attached to the side of the tank/container. The viewing tube fills to the same level as the medium in the container. The float situated in the viewing tube activates the optional installed switching contacts (BK-390, MO or BI).

### Use

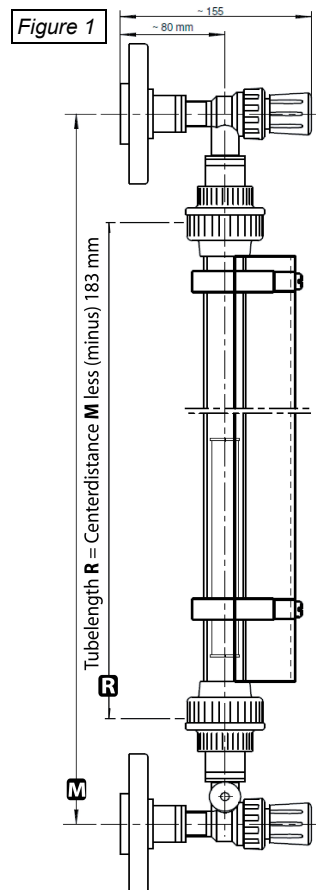
Use only for media, which do not tend to become encrusted, sticky or crystallised. They must not contain any magnetic/magnetisable particles. Only use the matching float. Check operating and implementation conditions (temperature, pressure, resistance) (see technical data).

### Mounting

Check centre distance prior to assembly (Figure 1). "O" marking on the float must be facing upwards during assembly. With a glass float, the magnetic systems must be situated in the top half of the float. Do not tilt the viewing tube. Please refer to separate operating instructions for the assembly and connection of switching contacts (BK-390, MO or BI).

### Mounting procedure

Attach flange/angle valve at the top (Figure 2-1a/2/3/4/5) and bottom (Figure 2-1b/2/3/4/5) with an appropriate gasket to the container flange/screw fitting, do not tighten the flange screw fitting tightly yet. Loosen the union nuts of the bonded screw fitting (Figure 2-6), remove the viewing tube sideways, slide the float (Figure 2-7) into the viewing tube ("O" marking upwards). Slide the viewing tube in between the flanged angle valves, tighten the union nut, tighten the container flange/screw fitting. Check sealing.



## With loose supplied PVC viewing tube

Bonding of the viewing tube with the screw fittings using Tangit adhesive: Cut viewing tube to length at the centre distance (tube length  $R = L$  less [minus] 183 mm). Deburr inside of tube, bevel outside of tube (approx. 15°, 3mm), insertion depth approx. 22mm (see "processing technical information" from "Technical Data Sheet" for Tangit / PVC-U adhesive).

## Start-up

Close drain valve (Figure 2-11). First open the top angle valve slowly, then the bottom angle valve, so that the float is not exposed to any violent pressure surges.

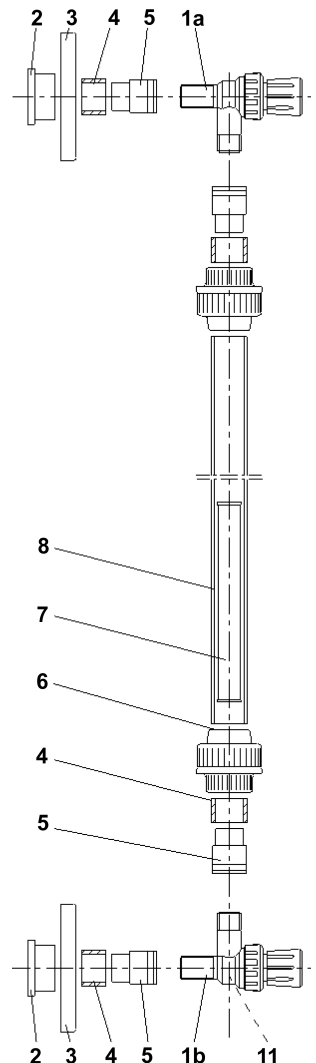
## Maintenance/servicing

The water level gauge does not require any special servicing, over and above the general inspection/functional check of the system. If the fluid should contain dirt particles, which may settled in the bottom angle valve, open the drain valve to flush out these deposits. If incrustations should form, the water level gauge must be dismantled and cleaned at regular intervals. Check/renew gaskets during dismantling/assembly.

## Technical data

<b>Container connector</b>	Flange from DN 25 or screw fittings
<b>Media temperature</b>	Max. 60° C
<b>Operating pressure</b>	Max. 2.5 bar
<b>Material</b>	
<b>Viewing tube</b>	PVC transparent Ø 32 x 1.8mm
<b>Angle valves / flange</b>	PVC
<b>Float / medium density</b>	PPH = PPS-390-32 $\rho \geq 0.95 \text{ g/m}^3$ Glass = GSB-390-205 $\rho \geq 0.95 \text{ g/m}^3$ GSB-390-150 $\rho \geq 0.93 \text{ g/m}^3$ GSB-390-190 $\rho \geq 0.83 \text{ g/m}^3$
<b>Gasket screw fitting / angle valve</b>	EPDM

Figure 2



- 1a Top angle valve
- 1b Bottom angle valve
- 2 Flanged sleeve d=32, DN25
- 3 Loose flange d=32, DN25
- 4 Reduction d-d1=32-25
- 5 Reduction nipple
- 6 Adhesive screw fitting d=32
- 7 Float
- 8 Viewing tube
- 9 Mounting clamps (for 10) with spacer and screw
- 10 Impact protection
- 11 Drain valve

