



Level



Pressure



Flow



Temperature



Liquid Analysis



Registration



Systems Components



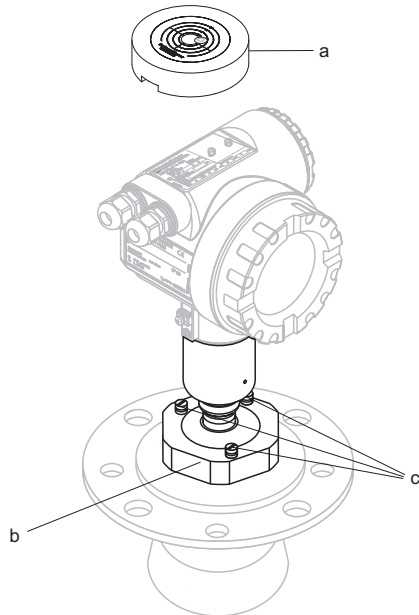
Services



Solutions

## Alignment Tool

### For Antenna Alignment of the Micropilot S FMR540



### Antenna Alignment using Alignment Tool

#### Note!

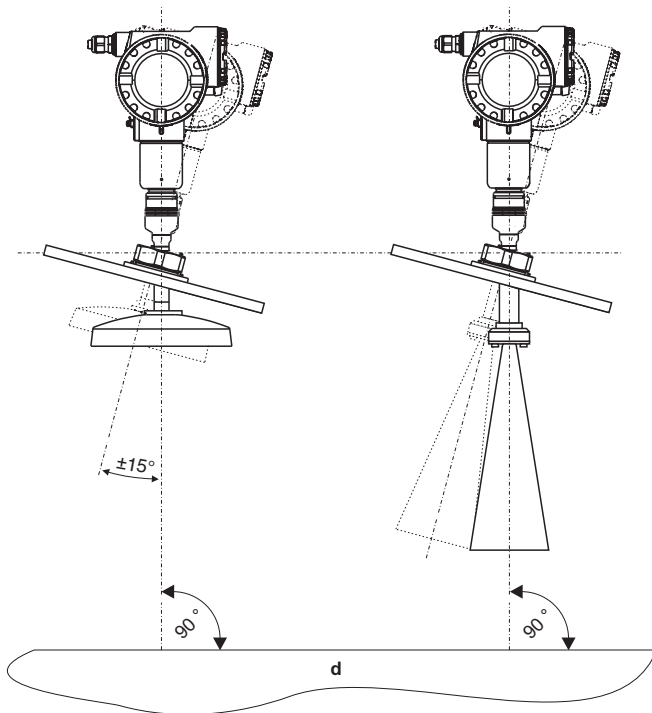
This procedure is only applicable to the sensors with top target positioner. To carry out this procedure requires an accessory from Endress+Hauser, Part Number 52026756, **Alignment Tool** for Micropilot S FMR540.

Before starting this procedure, please observe Micropilot S FMR540 has been mounted on the tank in proper position and all flange bolts are tightened.

Tools: 90mm open wrench

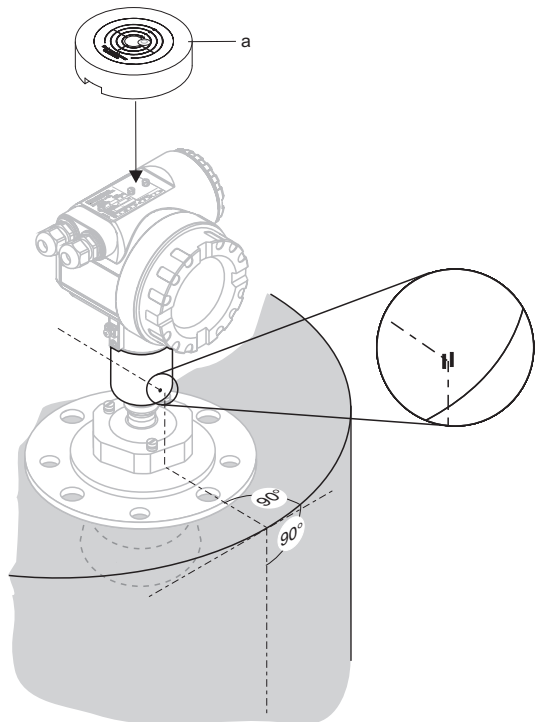
Accessory Package (52026756) Contains: **Alignment Tool** (part no. 52026756) Description of procedure "Sensor Alignment using Alignment Tool" (KA274F part no. 52027425)

- ① Loosen the nut (b), so that the FMR540 can tilt smoothly.

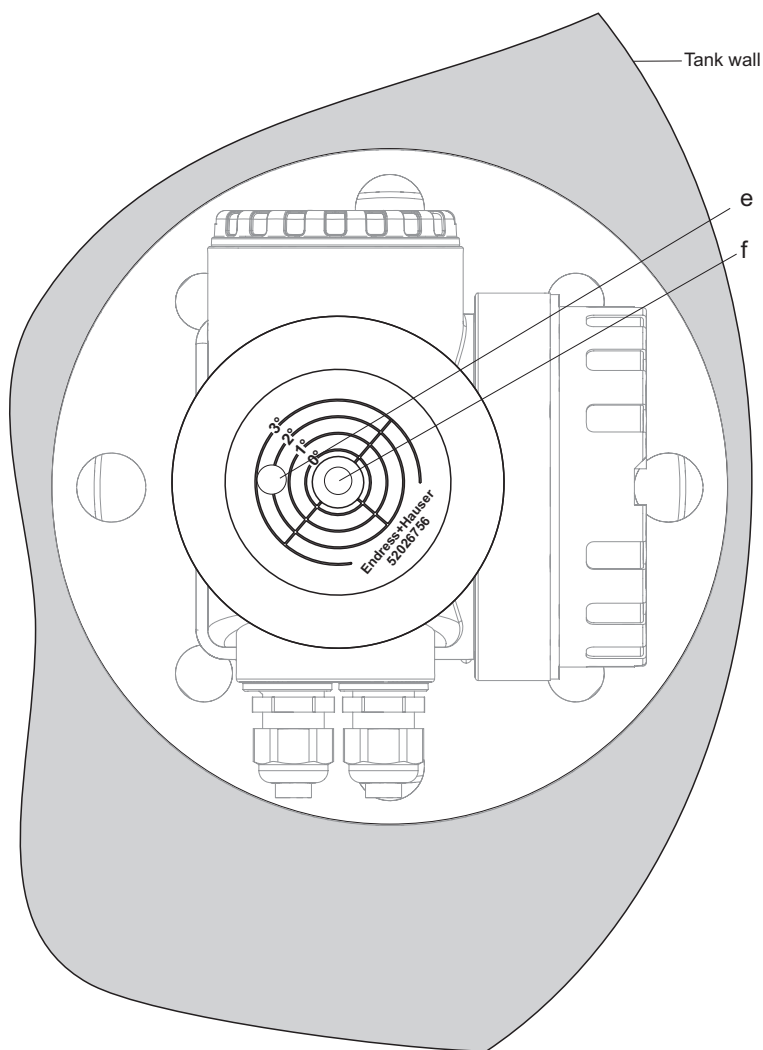


- ② Observe the sensor can smoothly tilt its position. The nut should not be too loose.

Tilt Micropilot S to approximately vertical to the medium surface (d) or horizontal plane.



- ③ Place **Alignment Tool** for Micropilot S FMR540 (part number 52026756). Please, note to avoid any obstacle between backside of the alignment tool and the nameplate of Micropilot S FMR540.



- ④ Micropilot S FMR540 with **Horn Antenna**:  
Tilt the FMR540 targeting the direction of tank center up to the position where the angle indicators's outer circle reaches the circle of 3 deg (e) .  
Note: exceeding the 3 degree position may cause weaker signal (or loss of signal).

Micropilot S FMR540 with **Parabolic Antenna**:  
Tilt the FMR540 to the position where bubble comes into the center of the inclination indicator (0 deg).

- ⑤ Gradually tighten the nut (b) of the alignment tool and make sure to keep the position of 0 degree/3 degree inclination.

- ⑥ After tightening the nut, check if the sensor cannot tilt and change its position.  
Torque for the nut: 80 to 85 Nm.  
If it is required by the local custody transfer authority, please, seal the "Top Target Positioner" screws (c) using the provided wires and seal metals.



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