



#### Reliable

Reliable function, even with differently reflecting media, tank internals and agitators

#### Cost effective

Inexpensive integration into the reactor vessel, no modifications required

#### User friendly

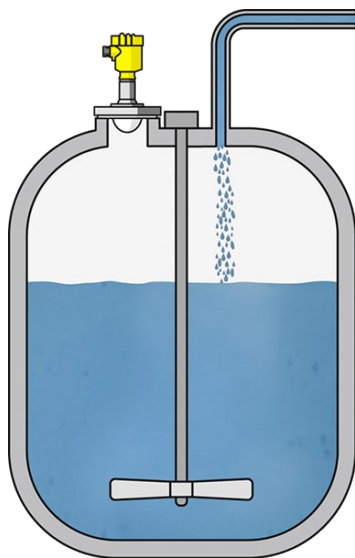
Measuring point easily accessible

## Reactor

### Level measurement in a stirring reactor

In a recycling company, oil sludge, oil/water mixtures and emulsions from many industrial processes are collected and treated. The objective is to separate the oil and water for recovery, purification and reuse. This process takes place in several steps. Firstly the oil/water mixture is centrifuged, hydrogen peroxide is added and mixed in a stirring reactor, then finally it is centrifuged again. Continuous level measurement is required in the reactor stage to enable automated operation. It's very important for there to be an absolutely reliable and accurate measurement even at low liquid levels, right down to the vessel bottom.

[More details](#)



### VEGAPULS 6X

Level measurement with radar in the reactor

- Precise sensor focusing enables accurate measurement despite agitators
- Measurement right down to the bottom, even with poorly reflecting media
- Contactless and maintenance-free

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**VEGAPULS 6X**  
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**Measuring range - Distance**

120 m

**Process temperature**

-196 ... 450 °C

**Process pressure**

-1 ... 160 bar

**Accuracy**

± 1 mm

**Frequency**

6 GHz

26 GHz

80 GHz

**Beam angle**

≥ 3°

**Materials, wetted parts**

PTFE

PVDF

316L

PP

PEEK

**Threaded connection**

≥ G¾, ≥ ¾ NPT

**Flange connection**

≥ DN20, ≥ ¾"

**Hygienic fittings**

Clamp ≥ 1½" - DIN32676, ISO2852

Slotted nut ≥ 2", DN50 - DIN 11851

Varivent ≥ DN25

hygienic fitting with tension flange DN32

hygienic fitting F40 with compression nut

Hygienic screw connections ≥ DN50 tube ø53 -  
 DIN11864-1-A

Hygienic flange connection ≥ DN50 DIN11864-2

Hygienic clamp connection ≥ DN50 pipe ø53 - DIN11864-  
 3-A

DRD connection ø 65 mm

SMS 1145 DN51