



## Level of oil / water recovery reactor

### Reliable

Reliable function, even with changing liquid properties, vapours, internals and agitators

### Cost effective

Inexpensive integration into the reactor vessel, no modifications required

### User friendly

Contactless sensor, measuring point easily accessible

At 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. Its very Important for there to be an absolutely reliable and accurate measurement even at low liquid levels, right down to the vessel bottom. Inside the reactor there are baffles and an agitator. During the process sometimes heavy vapours are given off along with condensation, the liquid density also changes. Also note how close to the edge the mounting point is.



### VEGAPULS 64

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





## VEGAPULS 64

### Measuring range - Distance

30 m

### Process temperature

-196 ... 200 °C

### Process pressure

-1 ... 25 bar

### Accuracy

± 1 mm

### Frequency

80 GHz

### Beam angle

≥ 3°

### Version

with plastic horn antenna ø 80 mm

Thread with integrated horn antenna

Flange with encapsulated antenna system

Hygienic fitting with encapsulated antenna system

### Materials, wetted parts

PFA

PTFE

316L

Alloy C22 (2.4602)

PEEK

### Threaded connection

≥ G¾, ≥ ¾ NPT

### Flange connection

≥ DN50, ≥ 2"