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

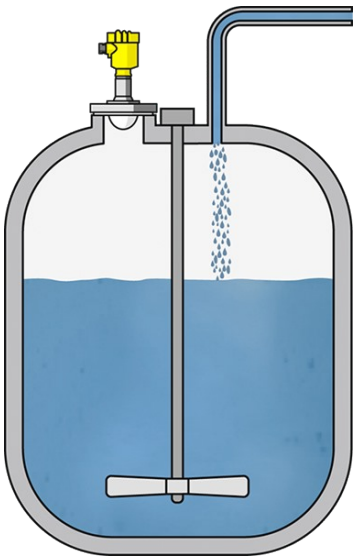
Measuring point easily accessible

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

Show Product

PRO

VEGAPULS 6X

Show Product

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"

Hygenic 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
Hygienice flange connection ≥ DN50 DIN11864-2
Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A
DRD connection ø 65 mm
SMS 1145 DN51