



#### Reliable

Reliable measurement despite small dielectric constants

#### Cost effective

Reliable measurement of the entire reactor volume

#### User friendly

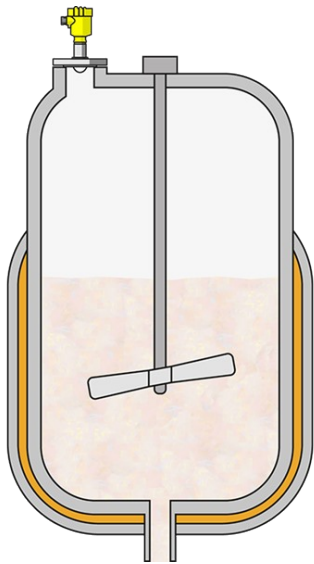
Simple mounting and setup

## Reactor

### Level measurement in an aluminium powder suspension reactor

Aluminium powder suspension is an intermediate for titanium sponge production. In the reactor, vanadium oxide trichloride is removed from the aluminium powder suspension. When the aluminium powder suspension is fed into the reactor, strong turbulence arises on the product surface. To optimize the process, the level in the reactor must be accurately measured and monitored.

[More details](#)



### VEGAPULS 6X

Non-contact level measurement with radar in the reactor

- Good signal focussing allows use in tight spaces
- Unaffected by condensate and deposits on the antenna
- Strong focussing allows reliable measurement at close range and at the bottom of the tank as well as in media with low dielectric constant
- Maintenance-free through non-contact measurement

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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