



Reliable

Reliable measurement, even under difficult process conditions

Cost effective

Maintenance-free operation of the plant

User friendly

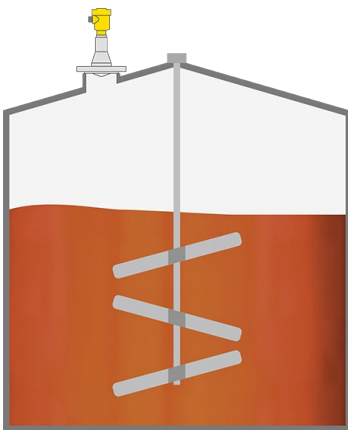
Simple installation and commissioning

Coupling vessel

Level measurement in the coupling vessel

The main reaction in colour pigment production takes place in the 'coupling' vessel. So named as a type of coupling reaction occurs here to form a synthetic 'azo dye', which is then converted into different colour pigments in subsequent process steps. An agitator in the tank ensures constant mixing of the azo dye. Additionally, ice is added for cooling, as otherwise the individual components of the reaction would decompose. Level measurement is required to ensure a smooth process flow.

[More details](#)



VEGAPULS 6X

Non-contact level measurement with radar in the coupling vessel

- Precise measuring results, independent of pressure, temperature, gas and steam
- Reliable level measurement, even with foam and agitators
- Encapsulated antenna system prevents buildup

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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