



#### Reliable

Accurate measurement unaffected by changing product properties

#### Cost effective

Maintenance-free operation thanks to non-contact measurement technology

#### User friendly

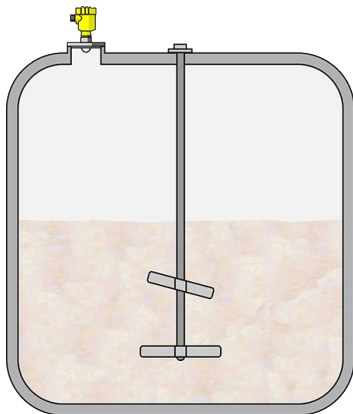
Simple installation from above

## Diazotization vessel

### Level measurement in the diazotization vessel

In the diazotization process, the individual raw materials for colour pigment production are prepared so that they will react to become diazonium compounds ready for the subsequent 'coupling' vessel where they form the final crude pigment or 'azo dye'. The basic starting materials for these compounds are hydrochloric acid, water, sodium nitrite and the diazo component (usually aniline). To preserve the material quality during formulation, the mixture is kept cool by adding ice or via a cooling jacket. During this process, the level must be carefully monitored and kept constant.

[More details](#)



### VEGAPULS 6X

Non-contact level measurement with radar in the diazotization vessel

- Encapsulated antenna system prevents buildup
- PTFE antenna resistant to chemically aggressive media
- Maintenance-free operation thanks to non-contact measuring method

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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