



#### Reliable

Reliable measurement despite highly aggressive media

#### Cost effective

Long service life thanks to special high-resistance steel

#### User friendly

Simple installation, even in difficult spatial conditions

## Urea reactor

### Level measurement in a urea reactor

In a Urea reactor, ammonium carbonate is decomposed into urea and water. Nearly pure urea is discharged from the reactor via the long pipe, which projects into the upper part of the vessel from the bottom. During the reaction process, the level in the reactor must be kept as constant as possible to maximise the purity and productivity of the process.

[More details](#)

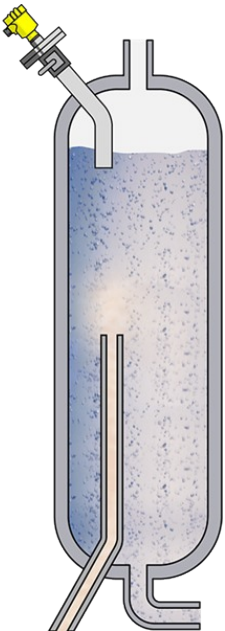


### VEGAPULS 6X

Non-contact radar level measurement of highly corrosive media inside the standpipe

- Angled design enables lateral mounting
- Special Safurex® steel provides resistance to corrosion
- Reliable measurement independent of difficult process conditions

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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