



#### Reliable

Accurate, reliable measurement, even under adverse vacuum and condensation conditions

#### Cost effective

Reliable measured values allow efficient control of the evaporation process

#### User friendly

Narrow beam angle allows easier installation in vessel top

## Thickener for sugar beet juice

### Level measurement in a thickener

The thin juice extracted from sugar beet is thickened by the reduction of excess water in multiple stages at the evaporator station. This evaporation process is carried out under vacuum and heat. The liquid in the evaporator boils so violently that great amounts of vapour are formed. A level sensor is needed to monitor and control the thickening process.

[More details](#)



### VEGAPULS 6X

Non-contact radar sensor for level measurement in thickener

- Encapsulated antenna system is unaffected by buildup
- Dynamic pressure and vacuum shock resistant
- Precise measuring results, independent of the density of the medium
- Internal structures are not detected due to the small beam angle

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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