



Reliable

Reliable measurement, unaffected by surface, foam and condensation

Cost effective

Maintenance-free operation

User friendly

Simple installation

Sugar dissolver vessel

Level measurement in the sugar dissolver vessel

In beet sugar refining the raw sugar is heated and dissolved in water into liquor. There are typically several interconnected agitated vessels in this process, each one with a weir allowing the liquor to flow from vessel to vessel. During the dissolving process, sugar byproducts from the downstream refining process are reintroduced to enable sugars to be recovered. To ensure a continuous process, a reliable level measurement is required.

[More details](#)



VEGAPULS 6X

Radar level measurement in the sugar dissolver vessel

- Reliable measurement in small vessels, independent of condensation and foam
- Hygienic process fittings allow aseptic operation
- Easy installation thanks to small process fittings

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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