



### Reliable

Reliable function even during filling

### Cost effective

Dry run protection prevents failures or damage to the eccentric pumps

### User friendly

Easy alignment via optional adjustable sealing gaskets

## Starch silo

### Level measurement in starch silos and dry run protection for starch liquefaction vessels

Starch is an important additive to increase the strength of the paper. The raw starch is stored in tall, narrow silos. Filling is carried out pneumatically, generating large amounts of dust. They are discharged into the starch slurry production system beneath the silo and the resulting slurry is pumped into the starch cookers by eccentric pumps. For optimal control of the silo filling process, a reliable level measurement is required. To prevent the eccentric pump from running dry, an in-line switch is needed upstream of the pump.

[More details](#)



### VEGAPULS 6X

Level measurement with radar in the starch silo

- Maintenance-free operation through non-contact measuring method
- Precise alignment and measurement even in high, narrow Silos
- Reliable measurement despite dust

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### VEGASWING 61

Vibrating level switch as a universal dry run protection for eccentric pumps

- Small process fittings, short fork also suitable for small pipe diameters
- Easy setup and commissioning because adjustment-free
- Reliable measurement thanks to product-independent switching point

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PRO

PRO

**VEGAPULS 6X**[Show Product](#)**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

**VEGASWING 61**[Show Product](#)**Measuring range - Distance**

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**Process temperature**

-50 ... 250 °C

**Process pressure**

-1 ... 64 bar

**Version**

Standard

Hygienic applications

with gas-tight leadthrough

with temperature adapter

**Materials, wetted parts**

PFA

316L

Alloy C22 (2.4602)

Alloy 400 (2.4360)

ECTFE

Enamel

**Threaded connection**

≥ G¾, ≥ ¾ NPT

**Flange connection**

≥ DN25, ≥ 1"

**Hygienic fittings**

Clamp ≥ 1" - DIN32676, ISO2852

Slotted nut ≥ 1½", ≥ DN40 - DIN 11851

Varivent ≥ DN25

hygienic fitting F40 with compression nut

SMS 1145 DN51

SMS DN38

Hygienic fittings ≥ DN25 - DIN11864-1-A

Hygienic flange connection DIN11864-2-A;

DN60(ISO)ø60,3

SMS socket piece DN38 PN6

**Seal material**

no media contact

**Housing material**

Plastic

Aluminium

Stainless steel (precision casting)

Stainless steel (electropolished)