



#### 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

**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

PRO

**VEGASWING 61**  
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**Measuring range - Distance**  
 -

**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)