



Starch silo

- 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

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.



VEGAPULS 69

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



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



VEGAPULS 69	VEGASWING 61
Measuring range - Distance 120 m	Measuring range - Distance -
Process temperature -40 ... 200 °C	Process temperature -50 ... 250 °C
Process pressure -1 ... 20 bar	Process pressure -1 ... 64 bar
Accuracy ± 5 mm / ± 0.2"	Version Standard Hygienic applications with gas-tight leadthrough with temperature adapter
Frequency 80 GHz	Materials, wetted parts PFA 316L Alloy C22 (2.4602) Alloy 400 (2.4360) ECTFE Enamel
Beam angle ≥ 3,5°	Threaded connection ≥ G¾, ≥ ¾ NPT
Version with plastic horn antenna ø 80 mm Metal jacketed lens antenna	Flange connection ≥ DN25, ≥ 1"
Materials, wetted parts 316L PP PEEK	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
Threaded connection G1½, 1½ NPT	Seal material no media contact
Flange connection ≥ DN80, ≥ 3"	Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)