



Grain silo

Reliable

Reliable measurement independent of the medium

Cost effective

Better utilisation of silo capacity and product through reliable measurement

User friendly

Simple calibration

Level measurement and point level detection in the grain silo

Barley is stored in malt houses in silos up to 20 metres high before it is processed into malt for production of beer. Filling the silos generates a lot of dust and the material cone geometry constantly changes during the filling and emptying process. A reliable indication of the level ensures the smooth operation by sending signals corresponding to the level or possible limit levels of the grain.



VEGAPULS 69

Radar level measurement in the grain silos for malt production

- Reliable measurement, independent of dusty environment
- High reliability through tight focusing
- Maintenance-free operation through non-contact measuring method



VEGAVIB 63

Vibrating level switch for detection of maximum levels in silos

- High measurement reliability thanks to compact rod design
- Reliable level detection, even with low bulk densities and changing media
- Simple installation near the filling opening

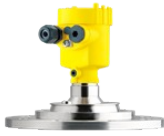


VEGAVIB 61

Vibrating level switch for detection of minimum level to avoid empty silo

- Compact rod design avoids buildup on the sensor
- Simple installation near the discharge opening
- Reliable function through product-independent switching point





VEGAPULS 69	VEGAVIB 63	VEGAVIB 61
Measuring-range---Distance 120 m	Measuring-range---Distance 6 m	Measuring-range---Distance -
Process-temperature -40 ... 200 °C	Process-temperature -50 ... 250 °C	Process-temperature -50 ... 250 °C
Process-pressure -1 ... 20 bar	Process-pressure -1 ... 16 bar	Process-pressure -1 ... 16 bar
Accuracy ± 5 mm / ± 0.2"	Version Detection of solids in water with tube extension	Version Standard Detection of solids in water
Version with plastic horn antenna ø 80 mm Metal jacketed lens antenna	Materials,-wetted-parts 316L	Materials,-wetted-parts 316L
Materials,-wetted-parts 316L PP PEEK	Threaded-connection ≥ G1, ≥ 1 NPT	Threaded-connection ≥ G1, ≥ 1 NPT
Threaded-connection G1½, 1½ NPT	Flange-connection ≥ DN 32, ≥ 1½"	Flange-connection ≥ DN 32, ≥ 1½"
Flange-connection ≥ DN80, ≥ 3"	Hygienic-fittings Slotted nut ≥ 1½", ≥ DN40 - DIN 11851 Slotted nut ≥ 2", DN50 - DIN 11851 Varivent ≥ DN32 hygienic fitting with tension flange DN32 hygienic fitting F40 with compression nut Hygienic screw connections ≥ DN50 tube ø53 - DIN11864-1-A Clamp ≥ 3½", DN80 - DIN32676, ISO2852 Slotted nut ≥ 3", DN65 - DIN 11851 Hyg. collar clamp adapter DN40PN40 DIN11864-3-A	Hygienic-fittings Clamp ≥ 1½" - DIN32676, ISO2852 Slotted nut ≥ 2", DN50 - DIN 11851 Varivent ≥ DN25 hygienic fitting F40 with compression nut Hygienic screw connections ≥ DN50 tube ø53 - DIN11864-1-A Hygienic fittings ≥ DN25 - DIN11864-1-A Hyg. clamp connection DIN11864-3-A; DN50 Rohr ø53 Hygienic fittings ≥ DN50 pipe ø70 - DIN11864-1-A
Seal-material EPDM FKM	Seal-material no media contact	Seal-material no media contact
Housing-material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)	Housing-material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)	Housing-material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)