



Reliable

Reliable measurement independent of the medium

Cost effective

Better utilisation of silo capacity and product through reliable measurement

User friendly

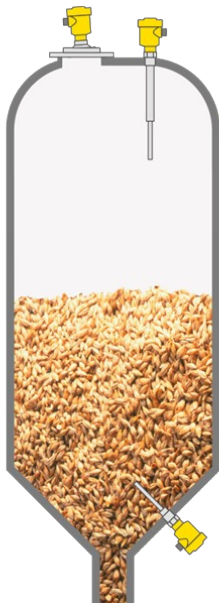
Simple calibration

Grain silo

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.

More details



VEGAPULS 6X

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

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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

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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

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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

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Process temperature
 -50 ... 250 °C

Process pressure
 -1 ... 16 bar

Version
 Detection of solids in water
 with tube extension

Materials, wetted parts
 316L

Threaded connection
 ≥ G1, ≥ 1 NPT

Flange connection
 ≥ DN 32, ≥ 1½"

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

Seal material
 no media contact

Housing material
 Plastic
 Aluminium
 Stainless steel (precision casting)
 Stainless steel (electropolished)

Protection rating
 IP66/IP68 (0,2 bar)
 IP66/IP67
 IP66/IP68 (1 bar)

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Measuring range - Distance
 -

Process temperature
 -50 ... 250 °C

Process pressure
 -1 ... 16 bar

Version
 Standard
 Detection of solids in water

Materials, wetted parts
 316L

Threaded connection
 ≥ G1, ≥ 1 NPT

Flange connection
 ≥ DN 32, ≥ 1½"

Hygienic fittings
 Clamp ≥ 1½" - DIN32676, ISO2852
 Slotted nut ≥ 2", DN50 - DIN 11851
 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
 no media contact

Housing material
 Plastic
 Aluminium
 Stainless steel (precision casting)
 Stainless steel (electropolished)