



Reliable

Prevents jamming, thus ensuring a smooth automated process

Cost effective

Enables optimal ratio of pulp/waste paper to process water

User friendly

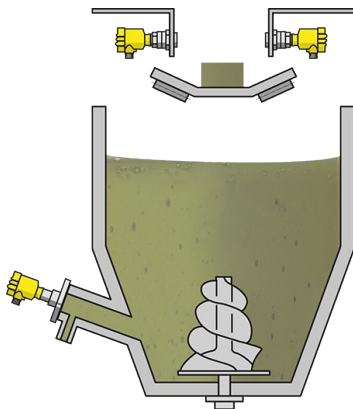
Wear and maintenance-free thanks to non-contact measurement

Pulper

Level measurement and blockage detection in the pulper and conveyor belt monitoring

Waste paper or pulp bales are transported on a conveyor belt to the pulper, where they are broken down by adding process water. A stirrer speeds up to separate fibers. Difficult process conditions exist in the pulper: falling bales cause severe pressure shocks, the stirrer creates vortexes. Besides that, foreign substances like wire, glass or sand enter the process along with the waste paper and have an extremely abrasive effect on the interior of the vessel. To ensure an automatic process flow, the level measuring system must establish the ratio of waste paper/pulp to process water. In addition, a possible jamming of the bales on the conveyor belt must be detected.

More details



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Microwave barrier for measurement of the loading height

- Non-contact measurement, therefore wear-free
- Reliable measurement of loading height
- Maintenance-free detection system, no cleaning required

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Hydrostatic level measurement in the pulper

- Highly resistant to overload from pressure surges
- Very highly abrasion resistant
- Wear-free ceramic measuring cell for a long service life

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Measuring range - Distance
 100 m

Process temperature
 -40 ... 80 °C

Process pressure
 -1 ... 4 bar

Version
 hygienically encapsulated horn antenna
 for separate horn antenna
 with horn antenna ø 40 mm
 with horn antenna ø 48 mm
 with horn antenna ø 75 mm
 with horn antenna ø 95 mm
 with plastic horn antenna ø 80 mm
 Horn antenna ø 1½"
 with encapsulated horn antenna

Materials, wetted parts
 PTFE
 316L
 1.4848
 PP

Threaded connection
 G1½, 1½ NPT

Flange connection
 ≥ DN50, ≥ 2"

Hygienic fittings
 Slotted nut ≥ 2", DN50 - DIN 11851
 Varivent ≥ DN25
 DRD connection ø 65 mm
 for NEUMO BioControl D50 PN16 / 316L

Seal material
 FKM
 FFKM

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

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Measuring range - Distance
 -

Measuring range - Pressure
 -1 ... 100 bar

Process temperature
 -40 ... 150 °C

Process pressure
 -1 ... 100 bar

Accuracy
 0.05 %

Materials, wetted parts
 PVDF
 316L
 Alloy C22 (2.4602)
 PP
 1.4057
 1.4410
 Alloy C276 (2.4819)
 Duplex (1.4462)
 Titanium Grade 2 (3.7035)

Threaded connection
 ≥ G½, ≥ ½ NPT

Flange connection
 ≥ DN15, ≥ ½"

Hygienic fittings
 Clamp ≥ 1" - DIN32676, ISO2852
 Slotted nut ≥ DN25 - DIN 11851
 hygienic fitting with tension flange DN32
 hygienic fitting F40 with compression nut
 DRD connection ø 65 mm
 SMS 1145 DN51
 SMS DN38
 Swagelok VCR screwing
 Varivent G125
 Varivent N50-40
 for NEUMO BioControl D50 PN16 / 316L

Seal material
 EPDM
 FKM
 FFKM