Reliable

Protection against flooding of the turbine building with high reliability water level detection of the seepage shaft

Cost effective

Optimal operation and monitoring of the pumps

User friendly

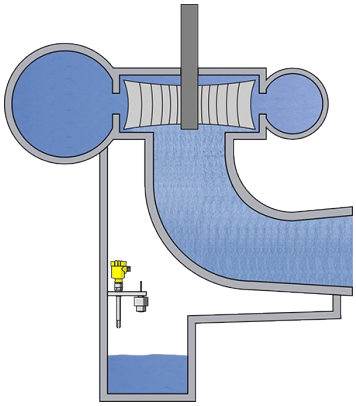
Easy installation, even in tight spaces

Turbine building in the hydroelectric power plant

Level measurement and point level detection in a seepage water shaft

A large number of sensors are deployed to ensure reliable operation of the generators and turbines in the hydroelectric power plant. They monitor the pressure in the hydraulic lines, the lubricant supply for turbine bearings, vibration, temperatures and many other parameters. At the lowest point of the plant, cooling water from the generators and any leakage water from the Kaplan or Francis turbines is collected in a seepage water shaft, pit or sump. To prevent a flooding of the shaft and thus of the turbine building, with disastrous results for equipment, the sensors are often installed redundantly. As additional protection, the maximum water level is monitored with a point level switch.

More details



VEGAPULS C 21

Level measurement with radar in the seepage water shaft

- Exact measuring results unaffected by internal fixtures and foaming
- High plant availability thanks to wear and maintenance free measurement
- Highly resistant materials ensure a long service life

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VEGASWING 63

Level detection with vibrating level switch as overfill protection in the seepage water shaft

- High switching reliability through continuous self-monitoring
- Low maintenance costs thanks to wear-free measuring principle
- Simple setup and commissioning through adjustment-free sensor design

Show Product

BASIC

VEGAPULS C 21

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Measuring range - Distance
15 m

Process temperature
-40 ... 80 °C

Process pressure
-1 ... 3 bar

Accuracy
± 2 mm

Frequency
80 GHz

Beam angle
8°

Materials, wetted parts
PVDF

Threaded connection
G1½ / G1, 1½ NPT / 1 NPT, R1½ / R1

Seal material
FKM

Protection rating
IP66/IP68 (3 bar), Type 6P

PRO

VEGASWING 63

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Process temperature
-50 ... 250 °C

Process pressure
-1 ... 64 bar

Version
Standard
Hygienic applications
with gas-tight leadthrough
with tube extension
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"

Hygenic 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)

Protection rating
IP66/IP67
IP66/IP68 (1 bar)
IP65