



Reliable

Accurate flow measurement in the pipeline ensures timely leak detection in the pressure line

Cost effective

Long-term stability of the differential pressure transmitter

User friendly

Simple commissioning setup without medium

Pressure line in a hydroelectric power plant

Breakage and leak detection in a pressure line in a hydroelectric power plant

In hydroelectric power plants, water is transported from the dam to the turbine via a pressure pipe. A partial or complete rupture of the pressure line leads to an increase in flow rate in the pipe that is higher than the maximum permissible flow expected. Undetected leaks lead to flooding and destruction of the power plant, resulting in a loss of energy production. For that reason it is important to measure the flow rate reliably in order to detect a pipe break and thus trigger the necessary remedial action, such as closing the pressure valve.

More details

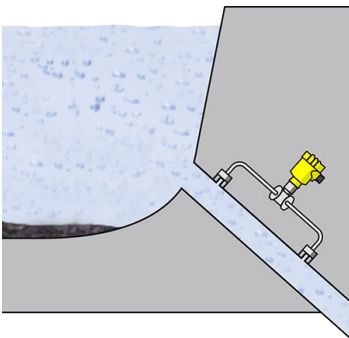


VEGADIF 85

Differential pressure transmitter for flow measurement in the pressure line

- High accuracy through measurement of extremely small pressure differences
- Reliable flow measurement for detection of pipe breakage
- Robust measurement, as there are no moving parts

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Measuring range - Pressure

-40 ... 40 bar

Process temperature

-40 ... 105 °C

Process pressure

-1 ... 400 bar

Accuracy

0.065 %

Materials, wetted parts

316L
 Tantalum
 Alloy C276 (2.4819)
 Monel

Threaded connection

¼ - 18 NPT

Flange connection

≥ DN32, ≥ 1½"

Seal material

EPDM
 FKM
 Copper

Housing material

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

Protection rating

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