



Reliable

Reliable measurements ensure consistent operation of the paper machine

Cost effective

Differential pressure transmitters with pitot tube for low-cost oil flow measurement

User friendly

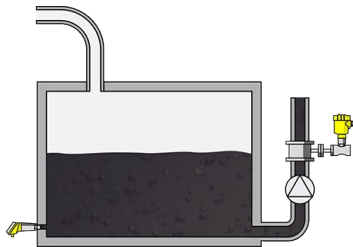
Convenient reading of the level directly at the measuring point

Hydraulic oil station

Level and flow measurement in the hydraulic oil station

In the press section of a paper machine, very high pressures are needed for dewatering the stock. Hydraulic oil stations provide the supply to the various parts of the machine as well as filtering and cooling the recirculating lubrication system. Integrated pumps provide oil to the required locations and to enable fully automatic operation of the station, the flow rate and the level in the supply tanks must be measured.

[More details](#)



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Flow measurement in the hydraulic oil line via differential pressure

- Reliable flow values ensure high operational reliability of the paper machine
- Cost-effective flow measurement with differential pressure and pitot tube
- Direct mounting of the differential pressure transmitter at the measuring point

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Hydrostatic level measurement in the oil supply tank

- Abrasion and overload resistant ceramic measuring cell guarantees high reliability
- Additional recording and display of the oil temperature

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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)

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Measuring range - Pressure
 -1 ... 60 bar

Process temperature
 -40 ... 130 °C

Accuracy
 0.3 %

Materials, wetted parts
 PVDF
 316L
 Duplex (1.4462)
 Ceramic

Threaded connection
 ≥ G½, ≥ ½ NPT

Hygienic fittings
 Clamp ≥ 2", DN50 - DIN32676, ISO2852
 Clamp ≥ 1" - DIN32676, ISO2852
 Clamp ≥ 1½" - DIN32676, ISO2852
 Slotted nut ≥ 1½", ≥ DN40 - DIN 11851
 Slotted nut ≥ DN25 - DIN 11851
 SMS DN38
 Hygienic fittings ≥ DN25 - DIN11864-1-A
 Hygienic fittings ≥ DN40 - DIN11864-1-A
 Varivent N50-40
 SMS DN25
 Ingold connection PN10
 Varivent F25

Seal material
 EPDM
 FKM
 FFKM

Housing material
 Plastic

Protection rating
 IP66/IP67
 IP65

Output
 4 ... 20 mA
 Three-wire (PNP/NPN, 4 ... 20 mA)
 IO-Link