

Reliable

Reliable pressure measurement in the lubrication system, even with strong vibration

Cost effective

Long-term stable vacuum measurement with oil-free ceramic measuring cell

User friendly

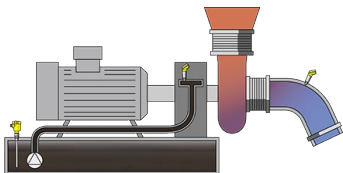
Temperature information on air and lubricating oil also available for the control system

Vacuum system

Level and pressure measurement in the vacuum system

A vacuum system is used to perform dewatering on the high-speed paper machines. The required high vacuum is generated by a single or multi-stage centrifugal blower. The strength of the vacuum is regulated by the rotational speed of the electric drives. For this purpose, the vacuum must be continuously measured. It is also necessary to monitor the bearing lubrication system to ensure reliable operation of the vacuum blower itself. To achieve this, the pressure in the lubricating lines and the level in the lube oil supply tank need to be measured.

[More details](#)



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Pressure measurement for speed control of the pump drive

- Long-term stable vacuum measurement with dry measuring cell
- Air and lubricating oil temperature information also available from the transmitter for the control System
- Reliable operation through high overload resistance

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Capacitive level measurement in the oil supply tank

- Economical level measurement through use of low-cost transmitter
- Long service life thanks to robust mechanical design
- Maximum tank utilization, as probe measures over its entire length

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BASIC

PRO

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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

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**Measuring range - Distance**

6 m

Process temperature

-50 ... 200 °C

Process pressure

-1 ... 64 bar

Version

PE insulation
 PE insulation and concentric tube
 PTFE insulation
 PTFE insulation with screening tube PN1
 PTFE insulation with screening tube PN16
 PTFE insulation with screening tube PN40
 PTFE insulation and concentric tube

Materials, wetted parts

PTFE
 316L
 Alloy C22 (2.4602)
 Alloy 400 (2.4360)
 PE
 Steel C22.8

Threaded connection

≥ G½, ≥ ½ NPT

Flange connection

≥ DN25, ≥ 1"

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)