



## Vacuum system

### 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

### 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.



### VEGABAR 38

Pressure measurement for speed control of the pump drive

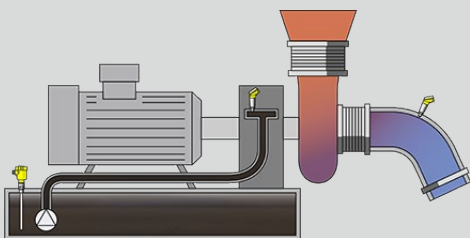
- Long-term stable vacuum measurement with dry measuring cell
- Air and lubricating oil temperature information also available from the transmitter for the control System
- Reliable operation through high overload resistance



### VEGACAL 63

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





VEGABAR 38	VEGACAL 63
Measuring range - Pressure -1 ... 60 bar	Measuring range - Distance 6 m
Process temperature -40 ... 130 °C	Process temperature -50 ... 200 °C
Accuracy 0.3 %	Process pressure -1 ... 64 bar
Materials, wetted parts PVDF 316L Duplex (1.4462) Ceramic	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
Threaded connection ≥ G½, ≥ ½ NPT	Materials, wetted parts PTFE 316L Alloy C22 (2.4602) Alloy 400 (2.4360) PE Steel C22.8
Hygienic fittings Clamp ≥ 2" - 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	Threaded connection ≥ G½, ≥ ½ NPT
Seal material EPDM FKM FFKM	Flange connection ≥ DN25, ≥ 1"
Housing material Plastic	Seal material no media contact
Protection rating IP66/IP67 IP65	Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)
Output 4 ... 20 mA Three-wire (PNP/NPN, 4 ... 20 mA) IO-Link	Protection rating IP66/IP68 (0,2 bar) IP66/IP67 IP66/IP68 (1 bar)