

Reliable

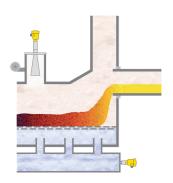
Reliable monitoring of cooler process

Cost effective

Optimal cooling with minimum energy expenditure

User friendly

Maintenance-free measurement



Clinker cooler

Level and pressure measurement in the clinker cooler

To produce cement, the raw meal is burned to clinker in a long rotary kiln. After leaving the rotary kiln, the clinker has a temperature of up to +1300 °C and must be cooled down to a temperature of about +200 °C for further storage. To achieve this, the clinker bed is cooled with a continuous stream of air. Pressure monitoring is required in the lower part of the clinker cooler to make the cooling as effective as possible. The material height of the hot clinker, at over 1000 °C on the conveyor belt, also has to be reliably measured.

More details



VEGABAR 82

Pressure transmitter for pressure monitoring in the clinker cooler

- High plant availability thanks to rugged measuring cell
- Maintenance-free through front-flush mounting

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VEGAPULS 6X

Non-contact level measurement with radar in the clinker cooler

- Reliable measurement despite extremely high media temperatures
- Effective antenna cooling via blower or compressed air
- Long service life by utilising a temperature-resistant antenna system

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VEGABAR 82 Show Product



Measuring range - Distance

-

Measuring range - Pressure

-1 ... 100 bar

Process temperature

-40 ... 150 °C

Process pressure

-1 ... 100 bar

Accuracy

0.05 %

Materials, wetted parts

PVDF

316L

Alloy C22 (2.4602)

PP

1.4057

1.4410

Alloy C276 (2.4819)

Duplex (1.4462)

Titanium Grade 2 (3.7035)

Threaded connection

≥ G½, ≥ ½ NPT

Flange connection

≥ DN15, ≥ ½"

Hygenic fittings

Clamp ≥ 1" - DIN32676, ISO2852

Slotted nut ≥ DN25 - DIN 11851

hygienic fitting with tension flange DN32

hygienic fitting F40 with compression nut

DRD connection ø 65 mm

SMS 1145 DN51

SMS DN38

Swagelok VCR screwing

Varivent G125

Varivent N50-40

for NEUMO BioControl D50 PN16 / 316L

Seal material

EPDM FKM

FFKM

VEGAPULS 6X

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Measuring range - Distance

120 m

Process temperature

-196 ... 450 °C

Process pressure

-1 ... 160 bar

Accuracy

± 1 mm

Frequency

6 GHz

26 GHz

80 GHz

Beam angle

≥ 3°

Materials, wetted parts

PTFE

PVDF

316L PP

PEEK

Threaded connection

≥ G¾, ≥ ¾ NPT

Flange connection

≥ DN20, ≥ ¾"

Hygenic fittings

Clamp $\geq 1\frac{1}{2}$ " - DIN32676, ISO2852

Slotted nut ≥ 2", DN50 - DIN 11851

Varivent ≥ DN25

hygienic fitting with tension flange DN32

hygienic fitting F40 with compression nut

Hygienic screw connections \geq DN50 tube ø53 -

DIN11864-1-A

Hygienice flange connection ≥ DN50 DIN11864-2

Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-

3-A

DRD connection ø 65 mm

SMS 1145 DN51

