



#### Reliable

Reliable monitoring of cooler process

#### Cost effective

Optimal cooling with minimum energy expenditure

#### User friendly

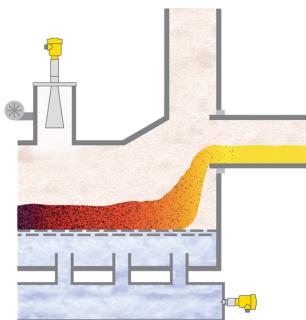
Maintenance-free measurement

## 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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PRO	PRO
<b>VEGABAR 82</b> <a href="#">Show Product</a>	<b>VEGAPULS 6X</b> <a href="#">Show Product</a>
	
<b>Measuring range - Distance</b> -	<b>Measuring range - Distance</b> 120 m
<b>Measuring range - Pressure</b> -1 ... 100 bar	<b>Process temperature</b> -196 ... 450 °C
<b>Process temperature</b> -40 ... 150 °C	<b>Process pressure</b> -1 ... 160 bar
<b>Process pressure</b> -1 ... 100 bar	<b>Accuracy</b> ± 1 mm
<b>Accuracy</b> 0.05 %	<b>Frequency</b> 6 GHz 26 GHz 80 GHz
<b>Materials, wetted parts</b> PVDF 316L Alloy C22 (2.4602) PP 1.4057 1.4410 Alloy C276 (2.4819) Duplex (1.4462) Titanium Grade 2 (3.7035)	<b>Beam angle</b> ≥ 3°
<b>Threaded connection</b> ≥ G¾, ≥ ¼ NPT	<b>Materials, wetted parts</b> PTFE PVDF 316L PP PEEK
<b>Flange connection</b> ≥ DN15, ≥ ½"	<b>Threaded connection</b> ≥ G¾, ≥ ¼ NPT
<b>Hygienic fittings</b> 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	<b>Flange connection</b> ≥ DN20, ≥ ¾"
<b>Seal material</b> EPDM FKM FFKM	<b>Hygienic fittings</b> Clamp ≥ 1½" - 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 ≥ DN50 tube ø53 - DIN11864-1-A Hygienic flange connection ≥ DN50 DIN11864-2 Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A DRD connection ø 65 mm SMS 1145 DN51