



#### Reliable

Reliable measurement ensures a continuous supply of fuel

#### Cost effective

Exact content measurement reduces logistics costs

#### User friendly

Maintenance-free operation

## Silo for solid fuels

### Level measurement and point level detection in silos for solid fuels

Large amounts of energy are needed to burn clinker in rotary kilns. Apart from conventional energy sources such as gas, oil and coal, solid substitute fuels such as dried sewage sludge, old tires or meat and bone meal are increasingly being used. Since the required amounts of energy represent a significant cost factor in cement production, exact level measurement of the solid fuels is essential.

[More details](#)



#### VEGAPULS 6X

Level measurement with radar in silos for solid fuels

- High measurement certainty, independent of product properties
- Exact measurement to the bottom of the discharge funnel thanks to small beam angle
- Very good signal focusing reduces interfering reflections

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#### VEGAWAVE 62

Overfill protection with vibrating level switch in silos for solid fuels

- Reliable function through product-independent switching point
- Immune to buildup
- Very robust construction minimizes maintenance costs

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| PRO                                                                                                                                                                                                                                                                                                                                                                                                                                | PRO                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>VEGAPULS 6X</b><br><a href="#">Show Product</a>                                                                                                                                                                                                                                                                                                                                                                                 | <b>VEGAWAVE 62</b><br><a href="#">Show Product</a>                                                                          |
|                                                                                                                                                                                                                                                                                                                                                   |                                            |
| <b>Measuring range - Distance</b><br>120 m                                                                                                                                                                                                                                                                                                                                                                                         | <b>Measuring range - Distance</b><br>-                                                                                      |
| <b>Process temperature</b><br>-196 ... 450 °C                                                                                                                                                                                                                                                                                                                                                                                      | <b>Process temperature</b><br>-40 ... 150 °C                                                                                |
| <b>Process pressure</b><br>-1 ... 160 bar                                                                                                                                                                                                                                                                                                                                                                                          | <b>Process pressure</b><br>-1 ... 6 bar                                                                                     |
| <b>Accuracy</b><br>± 1 mm                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Version</b><br>Detection of solids in water<br>Suspension cable                                                          |
| <b>Frequency</b><br>6 GHz<br>26 GHz<br>80 GHz                                                                                                                                                                                                                                                                                                                                                                                      | <b>Materials, wetted parts</b><br>316L<br>FEP<br>PUR                                                                        |
| <b>Beam angle</b><br>≥ 3°                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Threaded connection</b><br>≥ G1½, ≥ 1½ NPT                                                                               |
| <b>Materials, wetted parts</b><br>PTFE<br>PVDF<br>316L<br>PP<br>PEEK                                                                                                                                                                                                                                                                                                                                                               | <b>Flange connection</b><br>≥ DN50, ≥ 2"                                                                                    |
| <b>Threaded connection</b><br>≥ G¾, ≥ ¾ NPT                                                                                                                                                                                                                                                                                                                                                                                        | <b>Seal material</b><br>CR, CSM                                                                                             |
| <b>Flange connection</b><br>≥ DN20, ≥ ¾"                                                                                                                                                                                                                                                                                                                                                                                           | <b>Housing material</b><br>Plastic<br>Aluminium<br>Stainless steel (precision casting)<br>Stainless steel (electropolished) |
| <b>Hygienic fittings</b><br>Clamp ≥ 1½" - DIN32676, ISO2852<br>Slotted nut ≥ 2", DN50 - DIN 11851<br>Varivent ≥ DN25<br>hygienic fitting with tension flange DN32<br>hygienic fitting F40 with compression nut<br>Hygienic screw connections ≥ DN50 tube ø53 - DIN11864-1-A<br>Hygienic flange connection ≥ DN50 DIN11864-2<br>Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A<br>DRD connection ø 65 mm<br>SMS 1145 DN51 | <b>Protection rating</b><br>IP66/IP68 (0,2 bar)<br>IP66/IP67<br>IP66/IP68 (1 bar)                                           |