



#### Reliable

Exact level measurement in abrasive and aggressive seawater

#### Cost effective

Low installation and integration costs

#### User friendly

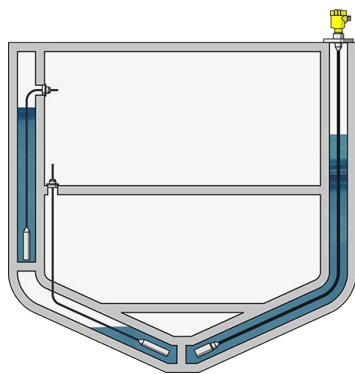
Maintenance-free operation due to seawater resistant materials

## Ballast water tanks

### Level measurement in the forepeak, wing and double bottom tanks with ballast water

The ballast water measurements in the wing and double bottom tanks go directly into the control system for the ship trim, draught and list. Since these measuring points are virtually inaccessible during operation on board, reliability and stability are an absolute must. Pressure shocks, abrasive sand particles and seawater place additional heavy demands on the instrumentation.

[More details](#)



#### VEGAWELL 52

Hydrostatic submersible pressure transmitter for level measurement in the ballast water tank

- Reliable, durable and robust, seawater-resistant sensors
- Ceramic measuring cell for exact and long-term stable measurement, even with pressure shocks and abrasion
- Simple installation from above or the side

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#### VEGABAR 86

Hydrostatic level measurement of ballast water in the double bottom tank

- Stainless steel housing protection to class IP 69K and ceramic measuring cell, offer the perfect sensor for the conditions in a double bottom tank
- Climate compensated electronics provide complete protection against high humidity
- On-site installation and ventilation of the electronics possible

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PRO

PRO

**VEGAWELL 52**  
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**Measuring range - Pressure**  
 0 ... 60 bar

**Process temperature**  
 -20 ... 80 °C

**Process pressure**  
 -

**Accuracy**  
 0.1 %

**Materials, wetted parts**

 PVDF  
 316L  
 Duplex (1.4462)  
 FEP  
 PE  
 1.4301  
 Titanium

**Seal material**

 EPDM  
 FKM  
 FFKM

**Protection rating**

 IP66/IP67  
 IP68

**Output**

 4 ... 20 mA  
 4 ... 20 mA/HART - two-wire

**Ambient temperature**

-40 ... 80 °C

**VEGABAR 86**  
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**Measuring range - Pressure**  
 0 ... 25 bar

**Process temperature**  
 -20 ... 100 °C

**Process pressure**  
 0 ... 25 bar

**Accuracy**  
 0.1 %

**Materials, wetted parts**

 PVDF  
 316L  
 FEP  
 PE  
 PUR

**Threaded connection**
 $\geq G1\frac{1}{2}$ ,  $\geq 1\frac{1}{2}$  NPT

**Flange connection**
 $\geq DN 40$ ,  $\geq 2"$ 
**Seal material**

 EPDM  
 FKM  
 FFKM

**Housing material**

 Plastic  
 Aluminium  
 Stainless steel (precision casting)  
 Stainless steel (electropolished)

**Protection rating**

 IP66/IP68 (0,2 bar)  
 IP66/IP67  
 IP66/IP68 (1 bar)  
 IP66/IP68 (25 bar)  
 IP69K