



#### Reliable

Highly accurate measurement of even low-density materials

#### Cost effective

Accurate measurement for optimal storage

#### User friendly

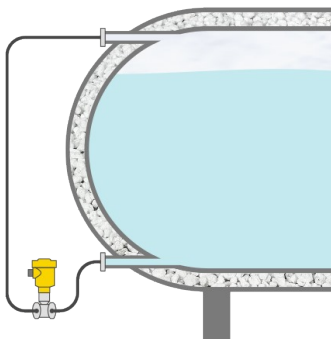
Installation in the double-walled container not necessary

## Liquid hydrogen storage tank

### Level measurement in a storage tank for liquid hydrogen

To store hydrogen with as little loss as possible, it must be cooled down to  $-253\text{ }^{\circ}\text{C}$  at 1 bar so that it is in a liquid state. Liquid hydrogen is therefore stored in double-walled, insulated containers. In addition, the liquid hydrogen is overlaid with gaseous hydrogen. When liquid hydrogen leaves the insulated container, it evaporates immediately and heats up to room temperature. The level is measured reliably using the traditional differential pressure method.

[More details](#)



#### VEGADIF 85

Level measurement with differential pressure in the liquid hydrogen storage tank

- Reliable measurement thanks to diaphragm with gold coating
- Output of differential and absolute pressure through a second current output

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**VEGADIF 85**  
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**Measuring range - Pressure**

-40 ... 40 bar

**Process temperature**

-40 ... 105 °C

**Process pressure**

-1 ... 400 bar

**Accuracy**

0.065 %

**Materials, wetted parts**

316L  
 Tantalum  
 Alloy C276 (2.4819)  
 Monel

**Threaded connection**

¼ - 18 NPT

**Flange connection**

≥ DN32, ≥ 1½"

**Seal material**

EPDM  
 FKM  
 Copper

**Housing material**

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

**Protection rating**

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