



#### Reliable and safe

Reliable pressure monitoring ensures safe operation of the facility

#### Cost effective

Accurate measurement for efficient hydrogen production

#### User friendly

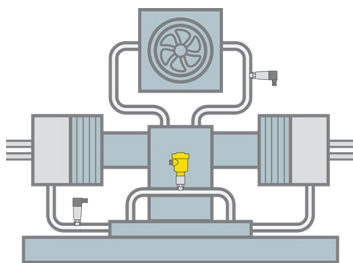
Easy installation with very small process fittings

## Hydrogen compressor

### Pressure measurement in the hydrogen compressor

Compressors are of great importance in the hydrogen supply chain. By compressing the hydrogen molecules, a higher energy density of the extremely light gas can be achieved. For that reason, the gas is compressed to a pressure of several hundred bar for storage – typically 350 and 700 bar. This is very important for the refuelling process at hydrogen filling stations, for example. To ensure efficient and safe operation, the pressure must be monitored at various points in hydrogen compressors.

[More details](#)



#### VEGABAR 83

Pressure sensor for pressure measurement in the compression chamber

- High long-term stability thanks to metallic measuring cell of hydrogen-suitable stainless steel
- Reliable measurement due to oil-free, thin-film measuring cell
- Optional gold coating of the diaphragm reduces diffusion
- Simple installation in existing pipelines

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#### VEGABAR 29

Pressure measurement in the compressor pipelines

- Reliable measurement of hydrogen up to 1,000 bar
- Simple setup and commissioning via Bluetooth
- Reliable measured values thanks to fast response time

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PRO

BASIC

**VEGABAR 83**  
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**Measuring range - Distance**

-

**Measuring range - Pressure**

-1 ... 1000 bar

**Process temperature**

-40 ... 200 °C

**Process pressure**

-1 ... 1000 bar

**Accuracy**

0.075 %

**Materials, wetted parts**

316L  
 Alloy C22 (2.4602)  
 316Ti (1.4571)  
 Alloy C4 (2.4610)

**Threaded connection**

≥ G½, ≥ ½ NPT

**Flange connection**

≥ DN25, ≥ 1"

**Hygienic fittings**

Slotted nut ≥ DN25 - DIN 11851  
 Varivent ≥ DN25  
 hygienic fitting with tension flange DN32  
 Hygienice flange connection ≥ DN50 DIN11864-2  
 SMS 1145 DN51  
 SMS DN38  
 Hygienic fittings ≥ DN33 - DIN11864-1-A  
 Hyg. collar clamp adapter DN40PN40 DIN11864-3-A  
 Hyg. clamp connection DIN11864-3-A; DN50 Rohr ø53  
 Swagelok VCR screwing  
 Varivent G125

**Seal material**

no media contact

**VEGABAR 29**  
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**Measuring range - Pressure**

-1 ... 1000 bar

**Process temperature**

-40 ... 130 °C

**Accuracy**

0.3 %

**Materials, wetted parts**

316L

**Threaded connection**

≥ G¾, ≥ ¼ NPT

**Hygienic fittings**

Clamp ≥ 2", DN50 - DIN32676, ISO2852  
 Clamp ≥ 1" - DIN32676, ISO2852  
 Clamp ≥ 1½" - DIN32676, ISO2852  
 Slotted nut ≥ 1½", ≥ DN40 - DIN 11851  
 Slotted nut ≥ DN25 - DIN 11851  
 SMS 1145 DN51  
 SMS DN38  
 Hygienic fittings ≥ DN25 - DIN11864-1-A  
 Hygienic fittings ≥ DN40 - DIN11864-1-A  
 Varivent N50-40  
 SMS DN25  
 Ingold connection PN10  
 Varivent F25

**Protection rating**

IP65  
 IP68 (0,5 bar)/IP69

**Output**

4 ... 20 mA  
 Three-wire (PNP/NPN, 4 ... 20 mA)  
 IO-Link

**Ambient temperature**

-40 ... 70 °C