



## Safety, hygiene and quality management – VEGA sensors fulfil the requirements of the pharmaceutical industry

In **biotechnology and in the pharmaceutical industry**, the requirements on measurement technology are many: Safety, flexibility and the ability to guarantee the highest hygienic standards, such as FDA, ISPE GAMP, ASME-BPE or EHEDG, are just a few examples of what standards sensors must fulfil. From preparation, fermentation and separation to storage, precise dosing, filling and regular cleaning during operation, measurement technology facilitates processes in pharmaceuticals production, increases efficiency and boosts productivity.

VEGA offers the entire range of suitable measuring principles for **level** and **pressure**. The advantages of the sensors:

- Standardised process fittings
- Standardised hygienic adapter system
- Diffusion-tight
- Extremely robust
- Designed for CIP and SIP processes

The following examples show which tasks the sensors perform and where they are used.



**Cleaning agent storage tank**  
Reliable point level detection and long service life with VEGAS-WING 61



**Heating medium supply line**  
Fast response time for reliable pressure monitoring with VEGABAR 28 pressure sensor



**Solvent tank**  
High measurement accuracy for dependable stock inventory with VEGAPULS 6X radar level sensors

VEGA sensors are perfectly designed for the critical aspects of CIP and SIP processes. Even during cleaning operations and at temperatures of up to 150 °C, they ensure that all required process media are available in sufficient quantities.

## Level measurement sensors:

### VEGAPULS 42

The **radar sensor VEGAPULS 42** is particularly suitable when continuous automation is required for rapid level changes. With its versatile, hygienic adapters, it meets the processes requirements with high levels of hygiene. VEGAPULS 42 with IO-Link ensures ideal networking of process data with the user's business administration and laboratory systems. The sensor's non-contact, 80-GHz radar technology enables maintenance-free operation.

It measures at a distance of up to 15 metres and at temperatures of up to 150 °C. This makes it ideal for use in dosing systems or in downstream process steps, such as conveyor systems and filling systems, for example.

### VEGAPULS 6X

The **radar sensor VEGAPULS 6X**, with its exceptionally high measurement accuracy, is the right choice for particularly challenging conditions. Thanks to the strong focussing of the radar beam, tank installations such as agitators do not impair the sensor's ability to measure reliably. With its high dynamic range, VEGAPULS 6X still reliably measures products containing oil, solvents or other media with poor reflective properties.



Thanks to their standardised fittings, such as M12 and valve plug connections, the VEGA level sensors can be quickly and easily integrated into the system architecture.

## Pressure measurement sensors:

### VEGABAR 28

Fast reaction times are crucial characteristics when it comes to supply lines carrying heating media. The **VEGABAR 28 pressure transmitter** enables reliable pressure monitoring of gases, vapours and liquids at up to 130 °C. Its ceramic-capacitive CERTEC® measuring cell, developed and produced by VEGA itself, has a lot to offer: It is abrasion-resistant, oil-free and demonstrates high long-term stability and a high overload capacity. For users, the optional universal fitting for hygienic adapters on VEGABAR 28 reduces installation costs and the stocking of spare parts.

## Point level sensors:

### VEGASWING 61

Reliable detection and a long service life make the **VEGASWING 61 vibrating level switch** the ideal sensor for overflow and dry run protection, for example in storage tanks with cleaning agents. It can be used universally for all liquids and has the ability to detect the level reliably with millimetre accuracy, regardless of the mounting position.

VEGA has the right solution for every application. A complete overview of the VEGA portfolio for the pharmaceutical industry can be found here:



## Related industries



## Applications

- CIP system - cleaning agent storage tanks
- Capsule filling
- Bioreactor

## Products



VEGAPULS 42



VEGAPULS 6X



VEGABAR 28



VEGASWING 61

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