

Level I Magnetic level gauge I Bypass

Application range


VEGAMAG bypass level indicators are ideal for measuring and indicating the level of liquids without auxiliary energy. They can also determine where the interface between two different media is located. Due to the large selection of materials, VEGAMAG instruments can also be used for aggressive liquids.

Measuring principle

The VEGAMAG visually communicates the contents of the level in the tank. It consists of an external vertical bypass float chamber with lateral process fittings into the tank. The float chamber contains a float with an integrated permanent magnet which, as the level moves up and down, causes the individual magnetised flags inside a level indicator scale mounted to the side of the chamber to rotate and change colour.

Advantages

The level inside a tank can be displayed without auxiliary energy and is visible from a distance. The VEGAMAG level indicator can be completely decoupled from the tank by means of valves built into the process fittings. This allows maintenance to be performed without interrupting the process in the main tank. If required, a level switch can be retrofitted to the level indicator.

VEGAMAG 81	
	
Application	Bypass vessel for liquid-holding tanks, for measuring and indicating levels without auxiliary energy (directly communicating vessel)
Measuring range	up to 4 m
Version	ASME B31.3 PED 2014/68/EU EAC 032/2013
Process fitting tank	Flanges from ½"/DN15 Threaded connections from ½" Welding sockets from ½"
Process temperature	-196 °C ... +450 °C
Process pressure	0 ... +100 bar (0 ... +10000 kPa)
Measurement accuracy	±5 mm
Approvals	ASME 31.3 PED 2014/68/EU EAC 032/2013
Benefits	<ul style="list-style-type: none"> • Measurement and on-site indication without auxiliary energy • Manufactured according to customer specifications • Minimal maintenance

Application range


VEGAPASS is a bypass chamber mounted on the outside of a liquid tank, which is designed to hold a level, point level or interface measuring instrument. Due to the large selection of materials, VEGAPASS instruments can also be used for aggressive liquids.

Measuring principle

VEGAPASS is an externally mounted standpipe with lateral process fittings that effectively communicates the level inside the tank to the outside world. By adding a suitable instrument into the chamber, an electronic measurement of level, point level or interface can be carried out. VEGAPASS and the additional measuring instrument form a measuring system, which is engineered and delivered pre-assembled on request.

Advantages

VEGAPASS can be completely isolated from the tank by means of valves built into the process fittings. This allows maintenance to be performed without interrupting the process in the main tank. VEGAPASS and the additionally selected measuring instrument are optimally matched to each other and designed to suit customer requirements.

	VEGAPASS 81
	
Application	Bypass chamber for liquid tanks to accommodate level, point level or interface sensors (communicates the direct vessel level)
Measuring range	up to 4 m
Version	ASME B31.3 PED 2014/68/EU EAC 032/2013
Process fitting tank	Flanges from 1/2"/DN15 Threaded connections from 1/2" Welding sockets from 1/2"
Process temperature	-196 °C ... +450 °C
Process pressure	0 ... +205 bar (0 ... +20500 kPa) depends on the built-in sensor
Measurement accuracy	depends on the built-in sensor
Approvals	ASME 31.3 PED 2014/68/EU EAC 032/2013 depends on the built-in sensor
Benefits	<ul style="list-style-type: none"> • Complete solution comprising bypass vessel and measurement technology • Designed and manufactured according to customer specifications • Maintenance-free, as there are no moving parts