

Certificate for level sensors

Level sensors with flange or screwed part without pressurized housing are not subject to the Pressure Equipment Directive (independent of the height of the max. permissible pressure).

Reason:

The definition for pressure-keeping equipment parts is (article 1, paragraph 2.1.4 of the directive 97/23/EG):

Pressure-keeping equipment parts are „Facilities with operational function, being equipped with a pressurized housing.“

If an instrument is not equipped with a pressurized housing (no own, identifiable pressure compartment), no pressure-keeping equipment part according to the directive exists.

The following level sensors of VEGA Grieshaber KG are concerned:

Capacitive electrodes:	series EL 11, EL 21, EL 24, EL 26, EL 28, EL 29, EL 31, EL 33, EL 34, EL 42, EL 52, EL 53, EL 60, EL 61, EL 70 EK 11, EK 21, EK 24, EK 26 VEGACAL series 62, 63, 64, 65, 66
Capacitive level switches:	VEGACAP series 11, 21, 26, 27, 31, 33, 34, 35, 60, 61, 62, 63, 64, 65, 66, 82, 92, 98
Conductive electrodes:	series EL 2, EL 3, EL 4, EL 5, EL 6, EL 8, EL 9
Conductive compact level switches:	VEGAKON series 61, 63, 66
Ultrasonic sensors:	VEGASON series 51, 52, 53, 54, 55, 56, 61, 62, 63, 64, 65, 66, 71, 72, 73, 74, 75
Radar sensors:	VEGAPULS series 41, 42, 43, 44, 51, 52, 53, 54, 56, 61, 62, 63, 65, 66, 68
Microwave sensors:	VEGAFLEX series 51, 52, 54, 55, 61, 62, 63, 65, 66, 67
Vibrating level switches for solids:	VEGAVIB series 31, 41, 43, 51, 52, 53, 55, 61, 62, 63, 65, 66, 67
Vibrating level switches for liquids:	VEGASWING series 51, 61, 63, 71, 75, 81, 83

Note:

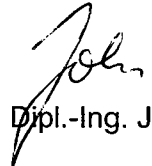
Sensors which are part of a safety facility to protect a pipeline or a vessel against exceeding of the permissible limits (equipment part with safety function acc. to the Pressure Equipment Directive 97/23/EG, Art. 1, 2.1.3) should be treated separately.

Example: Sensor monitors the max. permissible pressure of a vessel and triggers a pressure-relief valve via a switching operation (exceeding of limit value).

TÜV Industrie Service GmbH TÜV SÜD Gruppe is notified body for the Pressure Equipment Directive.

Mannheim, den 30. June 2005
IS-DDB-MAN/jo-ks

TÜV Industrie Service GmbH
TÜV SÜD Gruppe
Centre for pressurized systems
The expert



Dipl.-Ing. John

