DNV·GL

Certificate No:
TAA00001BY

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pressure Transmitter

with type designation(s)
VEGAWELL 51, VEGAWELL 52, VEGABOX 02

Issued to
VEGA Grieshaber KG
Schiltach, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Location classes:

Type	Temperature	Humidity	Vibration	EMC	Enclosure
VEGAWELL 51, VEGAWELL 52	D	B	A	B	D (IP68)
VEGABOX 02	D	B	A	B	B (IP54)

Issued at **Hamburg** on **2017-08-01**
This Certificate is valid until **2022-07-31**.
DNV GL local station: **Augsburg**

Approval Engineer: **Dariusz Lesniewski**

for **DNV GL**

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

VEGAWELL WL51/52. aM bc d e f g h i j k

a = Approval
- **X** without Ex - Approval
- **A...Z** in combination with Ex - Approval for use in hazardous atmospheres

bc = Process fitting
- **AA/A1...ZZ/Z9** without, straining clamp, screwed connection, housing with cable locking*

d = Material of suspension cable*
- **B** FEP
- **D** PUR

e = Total length
- **T** customer specific*

f = Material sensor housing
- **A...Z** Stainless Steel, PVDF, Titan

g = Measuring cell seal
- **1/A...9/Z** FKM, FFKM, EPDM, others

h = Pressure / measuring range
- **A...Z** gauge max.. 25 bar
- **1...9** absolute pressure max. 25bar (for VEGAWELL 52 up to 60 bar)

i = Electronics
- **D** 4...20 mA / HART® + Pt100, 4-wire
- **C** 4...20 mA / 2-wire

VEGABOX BOX 02. aM b c d

a = Approval
- **X** without Ex - Approval
- **A...Z** in combination with Ex - Approval for use in hazardous atmospheres

b = Function
- **A** Pressure compensation
- **C** Pressure compensation and temperature transmitter 4...20mA / HART

c = Protective cover
- **X** without
- **W** with

d = identification label
- **X** without
- **V** of stainless steel, laser marking

***Cable installation inside tank only; Connection with terminal box (e.g. VEGABOX) outside the tank has to be realized by the shortest possible cable length (not longer than 6m).

Place of manufacture:

VEGA Grieshaber KG
Am Hohenstein 113
77761 Schiltach
GERMANY

Job Id: **262.1-004521-6**
Certificate No: **TAA00001BY**

VEGA Americas, Inc.
4241 Allendorf Drive
Cincinnati, OH 45209
USA

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification / Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Cable installation inside tank only; Connection with terminal box (e.g. VEGABOX) outside the tank has to be realized by the shortest possible cable length (not longer than 6m).

The transmitters with plastics housing (PVDF) are approved for pressures up to 10 bar.

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.

Marking of product

VEGAWELL 51, VEGAWELL 52, VEGABOX 02

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed at least every second year and at renewal of this certificate.

END OF CERTIFICATE