

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Pressure Transmitter**

with type designation(s)

PREX3000 Vector Involute Pneumatic Differential Transmitter Model KDP 11 and KDP 22

Issued to

Azbil Corporation**Fujisawa, Kanagawa Pref., Japan**

is found to comply with

DNV GL rules for classification – Ships and offshore units**Application :****KDP11 with ranges between 0 - 25 to 0 - 500 kPa****KDP22 with ranges between 0 - 2.5 to 0 - 53.9 kPa****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Location classes:**

Temperature	A
Humidity	B
Vibration	A
EMC	Not relevant
Enclosure	C

This Certificate is valid until **2016-12-31**.Issued at **Høvik** on **2016-06-03**DNV GL local station: **Yokohama**Approval Engineer: **Ståle Sneen**for **DNV GL**

Odd Magne Nesvåg
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.

Job Id: **262.1-006695-6**
Certificate No: **TAA00000GS**

Product description

KDP11 with ranges between 0 – 25 to 0 – 500 kPa
KDP22 with ranges between 0 – 2.5 to 0 – 53.9 kPa

Place of manufacture

Azbil Corporation Shonan Factory
4-1-1 Ohmagari, Samukawa-machi, Koza-gun,
Kanagawa, 253-0113 Japan

Azbil Kyoto Co., Ltd.
1-3 Kamadanishimo Ichinotani, Kyotanba-cho,
Funai-gun, Kyoto-fu, 622-0442 Japan

Approval conditions

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 classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

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