Certificate no.:
TAA00003DT

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Cylinder Pressure Sensor

with type designation(s)
6636ADQ01/-C and 6636ADQ10/-C

issued to
Kistler Instrumente AG
Winterthur, **Switzerland**

is found to comply with
DNV 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.

Temperature	**D**
Humidity	**B**
Vibration	**B**
EMC	**A**
Enclosure	**B**

Issued at **Høvik** on **2024-04-10**
This Certificate is valid until **2029-04-09**.
DNV local unit: **Augsburg**

for **DNV**

Approval Engineer: **Martin Skårerverket**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description
Cylinder pressure sensor with digital interface for use with the MAN two-stroke engines with Triton control system.

Type	Range	Sensitivity	Operation temp. ranges	Degrees of protection (IP code)	Output	Supply voltage
6636ADQ01/-C 6636ADQ10/-C	0-300 bar	70000 mlsb/bar	Sensor -25°C to 350°C Cable -25°C to 200°C Amplifier -25°C to 70°C	Mated condition: IP65 Sensor: IP67	4-20 mA	48 VDC

Place of manufacture
Kistler Instrumente AG
Eulachstrasse 22,
CH-8408 Winterthur, Switzerland

Approval conditions
The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, 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 rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Application/Limitation
Pressure Gauges/Transmitters for use in control, alarm, monitoring and instrumentation systems subject to classification.

Type Approval documentation

Tests carried out
Applicable tests according to class guideline DNV-CG-0339, August 2021.

Marking of product
The products to be marked with:
- manufacturer name
- model name
- serial number
- power supply ratings

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 after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE