DNV·GL

Certificate No:
TAA00001ZW

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Solenoid Valve

with type designation(s)
6281

Issued to
Bürkert Werke GmbH & Co. KG
Ingelfingen, 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.

Temperature	**D**
Humidity	**B**
Vibration	**B**
EMC	**Not relevant**
Enclosure	**B (IP65)**

Issued at **Hamburg** on **2018-08-20**
This Certificate is valid until **2023-08-19**.
DNV GL local station: **Augsburg**

Approval Engineer: **Jens Dietrich**

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
Servo-assisted 2/2 way diaphragm valves 6281 EV:
Orifice: DN13…DN50
Body material: brass (stainless steel on request)
Ambient temperature: max. 55°C
Voltages: 24VDC, 24VAC or 230VAC, 50-60Hz.
Duty cycle: 100%
Degree of protection: IP65
Response time: 0.1…4s (depending on orifice and differential pressure)
Available port connections: G 3/8"…G 2½"
Pressure range: 0.2…16bar
Switching circuit: NO/NC.

Place of manufacture
Bürkert Werke GmbH & Co. KG
Keltenstraße 10
74653 Ingelfingen-Criesbach

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.
The suitability for use in the respective application system has to be evaluated based on the requirements for Piping Systems DNV GL Pt.4, Ch.6.

Cable connectors used for marine application shall have flame retardant properties in accordance with UL94 5VA, 5VB, V0 or V1. Alternatively glow wire test @960°C according to IEC 60695-2-11 may be accepted for the connectors.

Tests carried out
Applicable tests according to DNV GL Class Guideline CG-0339, November 2016.

Marking of product
Manufacturer, type designation, production key: W1xxx. Code xxx states the date of manufacture.

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 this certificate.

END OF CERTIFICATE