

TYPE APPROVAL CERTIFICATE

Certificate No:
TAP00000NH
Revision No:
2

This is to certify:

That the **Gate Valve**

with type designation(s)
09340, 09343

Issued to

HEROSE G.M.B.H. ARMATUREN UND METALLE
Bad Oldesloe, Schleswig-Holstein, Germany

is found to comply with

DNV rules for classification – Ships Pt.4 Ch.6 Piping systems
DNV rules for classification – Ships Pt.5 Ch.7 Liquefied gas tankers
DNV class programme DNV-CP-0186 – Type approval – Valves
DNV offshore standards

Application :

Gate Valve.

Products approved by this certificate are accepted for installation on all vessels classed by DNV.
For installation on Offshore units the requirements specified in the applicable DNV Rules for Classification of Offshore units (RU-OU) are to be observed.

Type:	Temperature range:	Max. working press.:	Sizes:
09340	-196°C to 120°C	DN 25 - DN 80 :50 bar, DN 100: 40 bar	DN 25 to DN 100
09343	-196°C to 120°C	DN 25 - DN 80: 50 bar; DN 100: 40 bar	DN 25 to DN 100

Issued at **Hamburg** on **2022-11-28**

for **DNV**

This Certificate is valid until **2027-11-27**.

DNV local unit: **Essen**

Approval Engineer: **Ana Cristina Do Carmo Insfran**

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Sven Klinger
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.

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

Type 09340

Gate valve with handwheel
Butt weld or socket weld end connection or stainless steel stubs according to
DIN EN ISO 1127 or ASTM A312

One way tightening (in flow direction), "live loaded" gland packing

Materials:

Body:	Mat.No. 1.4308	ASTM A351 CF8
Valve seat :	PTFE/Carbon filled 25%	
Disc	CW452K	ASTM B 103 UNS C51900
Bolts:	Mat.No. 1.4301/A2	ASTM A194 B8

Size range: DN 25, 40, 50, 65, 80 and 100

Type 09343

Gate valve with pneumatic Actuator
Butt weld or socket weld end connection or stainless steel stubs according to
DIN EN ISO 1127 or ASTM A312

One way tightening (in flow direction), "live loaded" gland packing

Materials:

Body:	Mat.No. 1.4308	ASTM A351 CF8
Valve seat :	PTFE/Carbon filled 25%	
Disc	CW452K	ASTM B 103 UNS C51900
Bolts:	Mat.No. 1.4301/A2	ASTM A194 B8

Size range: DN 25, 40, 50, 65, 80 and 100

Application/Limitation

May be used for air, gases, and cryogenic liquified gases, LNG.
Working temperature: -196°C to +120°C

Type Approval documentation

Type Approval Application dated on 2022-08-02
Type Approval Assessment Report dated on 2022-10-19
Type overview table
Drawing Nr.: 09340-X-; 09343 – X- Zulassung dated on 2022-03-08
Test report from TÜV Nord dated 04.10.2007 and 25.02.2005

Tests carried out

Burst test

Marking of product

For traceability to this type approval the products are to be marked with:

- Manufacturers name or trade mark
- Valve type designation
- Valve size
- Maximum design pressure and temperature
- Arrow to indicate direction of flow on one way flow valves.



Job Id: **262.1-022904-3**
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Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the Type Approval are complied with. Refer to DNV CP-0338, Sec.4.

The certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>.

END OF CERTIFICATE