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|                   |                       |                        |
|-------------------|-----------------------|------------------------|
| <b>Date:</b>      | <b>Our reference:</b> | <b>Your reference:</b> |
| <b>2026-07-03</b> | TAP000010M            | TAP000010M             |

### **Prolongation of Renewal Type Approval Certificate**

To whom it may concern

We herewith confirm that company, Meson AB, has applied for a renewal certification for the following certificates:

A1769300 - Certification of 1 x Renewal TAP000010M

The process of renewal has started and DNV is in progress to review the documentation and handle comments (if any). Until the new certificate is issued the old certificate remain valid. It is the company's responsibility to produce the products exact to the a.m. certificate. Modification (if applied in renewal) will be covered after release of new type approval certificate only. If a.m. company revoke application for renewal it is their obligation to inform all end-customer that this statement is invalid and the expiry date from original certificate is reinstated.

The validity of this prolongation letter is until 2027-01-03

#### **Philip Christiansson**

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# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Globe Valve**

with type designation(s)

**467002, 467102, 901002, 901102, 921002, 921102, 901062, 901162**

Issued to

**Meson AB**

**Laholm, Hallands Län, Sweden**

is found to comply with

**DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems**

**DNVGL-OS-D101 – Marine and machinery systems and equipment, Edition January 2018**

**DNV GL class programme DNVGL-CP-0186 – Type approval – Valves**

## Application :

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

| Type:                 | Temperature range: | Max. working press.:   | Sizes:          |
|-----------------------|--------------------|------------------------|-----------------|
| <b>467002, 467102</b> | <b>0 – 180°C</b>   | <b>10 bar / 16 bar</b> | <b>DN15-250</b> |
| <b>901002, 901102</b> | <b>0 – 180°C</b>   | <b>10 bar / 16 bar</b> | <b>DN15-250</b> |
| <b>921002, 921102</b> | <b>0 – 180°C</b>   | <b>10 bar</b>          | <b>DN15-100</b> |
| <b>901062, 901162</b> | <b>0 – 180°C</b>   | <b>10 bar / 16 bar</b> | <b>DN15-250</b> |

Issued at **Høvik** on **2020-10-26**

for **DNV GL**

This Certificate is valid until **2025-10-25**.

DNV GL local station: **Malmö**

Approval Engineer: **Sarah Miller**

**Zeinab Sharifi**  
**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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **262.1-005852-6**  
Certificate No: **TAP000010M**  
Revision No: **1**

## Product description

Globe valves with following types:

| Type no | Description                   | Size (DN)             | Material        |
|---------|-------------------------------|-----------------------|-----------------|
| 467002  | Globe Valve Straight          | 15-250 <sup>(3)</sup> | EN-GJS-400-15   |
| 467102  | Globe Valve Angle             | 15-250 <sup>(3)</sup> |                 |
| 901002  | Quick Closing Valve, Straight | 15-250 <sup>(3)</sup> | EN-GJS-400-15   |
| 901102  | Quick Closing Valve, Angle    | 15-250 <sup>(3)</sup> |                 |
| 921002  | Self Closing Valve, Straight  | 15-100 <sup>(4)</sup> | EN-GJS-400-15   |
| 921102  | Self Closing Valve, Angle     | 15-100 <sup>(4)</sup> |                 |
| 901062  | Quick Closing valve, Straight | 15-250 <sup>(3)</sup> | GS-C25 (1.0619) |
| 901162  | Quick Closing valve, Angle    | 15-250 <sup>(3)</sup> |                 |

- <sup>(1)</sup> Trim of the valve are in standard execution AISI 304, 316, 316L and RG5 depending on application.  
<sup>(2)</sup> Disc types can be Fixed disc, SDNR, Regulating discs  
<sup>(3)</sup> DN15-20-25-32-40-50-65-80-100-125-150-200-250  
<sup>(4)</sup> DN15-20-25-32-40-50-65-80-100

### Manufacturing locations:

- (1) Meson AB,  
Laholm, Hallands Län, Sweden
- (2) Changzhou LK valves Co., Ltd.,  
Building No 16, Xin Yu Logistics Park,  
Renmin Road No 8, YaoGuan, Wuijin  
Changzhou, Jiangsu Province  
Peoples Republic of China

## Application/Limitation

Valves covered by this certificate are approved to be use in ship and machinery piping systems in temperature range of 0°C to +180°C and below maximum working pressure ranges:

| Size   | Design pressure |
|--------|-----------------|
| DN<200 | 16 bar          |
| DN≥200 | 10 bar          |

The approval does not include any operating gear for remote control of the valves.

Valves covered by this certificate are not fire safe and shall not be installed in systems where fire safe application is required.

Austenitic stainless steels (e.g. 304, 316 & 316L) are not seawater resistant and shall not be used in direct contact with seawater.

Materials and material protection chosen for the specific system shall be suitable for the intended medium and environmental conditions.

This certificate does not cover valves to be installed in LNG/LPG applications.

EN-GJS-400-15 (Nodular cast Iron of the ferritic type with specified minimum elongation of 12%) may be used in class II and III piping and in valves located on the ship's side and bottom and valves on the collision bulkhead. (for media having a temperature not less than 0°C)

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## Type Approval documentation

| Drawing No. | Rev./Date | Drawing No. | Rev. | Drawing No. | Rev. |
|-------------|-----------|-------------|------|-------------|------|
| Master      | 0         | 75158       | D    | 75674       | 0    |
| 75262       | B         | 75666       | A    | 75983       | A    |
| 75266       | C         | 75971       | B    | 75995       | B    |

Manufacturer's burst test report witnessed by DNV surveyor dated 2008-11-06.

Acquisition letter from Meson acquiring LK valves

Authorization letter dated 2020-03-31 from LK Valves authorizing Meson AB

## Tests carried out

Burst test

## Production Tests

Each valve body shall be subjected to:

- hydrostatic pressure test at 1.5 times the maximum working pressure at room temperature.
- seat leakage testing at 1.1 times the maximum working pressure in the valve flow direction.

Production Testing and acceptance criteria shall be in accordance with API 598.

## Certification

DNV GL product certificates are required for valves with DN > 100 mm and design pressure  $\geq$  16 bar, and for ship side valves where DN > 100 mm regardless of pressure. For other valves a manufacturer's product certificate may be accepted.

Valve bodies shall be delivered with material certificates in accordance with DNV GL Ship Pt.4 Ch.6 Sec.2 Table 3. Materials with VL and W certificates shall be manufactured in a foundry approved by the society.

## Marking of product

For traceability to this type approval the valves are to be marked as a minimum with:

- manufacturer's name or trade mark
- valve type designation
- size
- maximum design pressure and temperature
- arrow to indicate direction of flow

## Periodical assessment

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