



Certificate no.:  
**TAP00002VF**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

that the **Hydraulic Actuator for Valve (Not Hydraulic Motor)**

with type designation(s)

**TORKLT 30/40/50/60/70/90 TORK 92, RAM 35/55/75/125**

issued to

**Navalimpianti S.p.A.**  
**Ceranesi GE, GE, Italy**

is found to comply with

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

**DNV-OS-D101 – Marine and machinery systems and equipment, Edition July 2021**

## Application:

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

|                                         |                            |
|-----------------------------------------|----------------------------|
| <b>Type</b>                             | <b>Dsgn. press./Torque</b> |
| <b>TORKLT 30/40/50/60/70/90 TORK 92</b> | <b>see page 2</b>          |
| <b>RAM 35/55/75/125</b>                 | <b>see page 2</b>          |

Issued at **Høvik** on **2025-03-03**

This Certificate is valid until **2030-03-02**.

for **DNV**

DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Maheshraja Venkatesan**

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.



Form code: TA 251

Revision: 2023-09

www.dnv.com

Page 1 of 3

## Product description

Hydraulic actuators with single/double acting types comprising of the following models:

| Type Designation                  | Models covered         |
|-----------------------------------|------------------------|
| <b>TORK LT</b> (linear actuators) | 30, 40, 50, 60, 70, 90 |
| <b>TORK</b> (linear actuators)    | 92                     |
| <b>RAM</b> (Rotary actuators)     | 35, 55, 75, 125        |

## Material of construction:

| Type Designation | Actuator part    | Material of construction |                   |
|------------------|------------------|--------------------------|-------------------|
|                  |                  | Material grade           | Delivery standard |
| TORK LT          | Body             | EN-GJS-400-18-LT         | EN 1563           |
|                  | End cap          | C40                      | EN 10083-2        |
|                  | Bolting          | AISI 304                 | -                 |
|                  | Sealing (O-ring) | NBR                      |                   |
| TORK             | Body and End cap | EN-GJS-400-18-LT         | EN 1563           |
|                  | Bolting          | AISI 304                 | -                 |
|                  | Sealing (O-ring) | NBR                      |                   |
| RAM              | Body and End cap | EN-GJS-400-18-LT         | EN 1563           |
|                  | Bolting          | A2-70                    | ISO 3506          |
|                  | Sealing (O-ring) | Viton                    |                   |

## Application/Limitation

This approval is related to the strength of parts subjected to internal pressure. Actuator functionality and output torque have not been subject to review.

Operating media is hydraulic oil and no corrosion allowance is considered.

Design pressure of cylinders : 160 bar  
Design temperature : -20/+80 °C  
Output Torque : as per the submitted catalogues

Materials and material protection chosen for the specific system shall be suitable for the intended medium and environmental conditions. The actuators have not been subject to fire or endurance testing.

## Type Approval documentation

### Tests carried out

Burst testing

### Production testing and Certification

Production Testing and Certification for the actual intended application shall follow the latest applicable edition of the Rules (as mentioned on the front page of this certificate), as appropriate.

### Marking of product

For traceability to this type approval the actuators are to be marked at least with the following information:

- Manufacturer's name or trademark
- Type designation and size
- Maximum allowable pressure

### Periodical assessment

This certificate is only valid if required periodical assessments are carried out with satisfactory results.

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 approval are complied with. Reference is made to



Job ID: **262.1-040850-1**  
Certificate no.: **TAP00002VF**

DNV-CP-0338.

To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>.