

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Ball Valve**with type designation(s)  
**CIM 11CR**

Issued to

**Cav. Uff. Giacomo Cimberio S.p.A.**  
**San Maurizio d'Opaglio NO, Italy**

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.****Temperature range:** -20°C to 150°C**Max. working press.:** 25 bar (DN 40 - 50), 32 bar (DN 10 - 32) - See page 2**Sizes:** DN 10 - 50 (DN 1/4" - 2") - See page 2Issued at **Høvik** on **2018-02-02**This Certificate is valid until **2023-02-01**.for **DNV GL**DNV GL local station: **Milan**Approval Engineer: **Maheshraja Venkatesan**

---

**Marianne Spæren Marveng**  
**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.



## Product description

Design:

Full way ball valves, female threaded end couplings. Two piece body of hot pressed brass.

Sizes covered	Max. allowable pressure
DN10, DN15, DN20, DN25 and DN32	32 bar
DN40 and DN50	25 bar

Material:

Body, Ball and Stem : EN 12165 – CW 602N (ADZ / CuZn36Pb2As)

Seat : PTFE

## Application/Limitation

Valves covered under the certificate are approved to be used in the following ship/ ordinary machinery piping systems - fresh water, sanitary, compressed air and saturated steam.

Threaded joints for direct connectors of pipe lengths with tapered thread shall be allowed for:

- Class I, outside diameter not more than 33.7 mm
- Class II and Class III, outside diameter not more than 60.3 mm.

Threaded joints with parallel thread shall be allowed for Class III, outside diameter not more than 60.3 mm.

For temperatures below 0 °C and above 45 °C the pressure rating is to be reduced according to the Pressure/Temperature ratings from the manufacturer's specification (Document no. 11/CR, Drawing No. D1008, Pressure Temperature Diagram dated 1995-11-13).

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

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

The valves may not be used as shut off or quick closing valve.

## Production testing

All valve bodies shall be subjected by the manufacturer to a hydrostatic test at a pressure equal to 1.5 times the nominal pressure (The nominal pressure is the maximum allowable working pressure at room temperature).

All valve assemblies shall be subjected to seat leakage test at 1.1 times maximum working pressure at closed position.

Production Testing and acceptance criteria shall be in accordance with EN 12266-1 (leakage rate A).

## Certification

Valve bodies shall be delivered with test report in accordance with DNV GL-RU-SHIP Pt.4 Ch.6 Sec.2 Table 3.

Each valve is to be delivered with a manufacturer's product certificate.

Job Id: **262.1-002281-5**  
Certificate No: **TAP000016S**

## **Type Approval documentation**

### **Tests carried out**

Burst testing as per DNV TAP No. 5-794.40

### **Marking of product**

For traceability to this type approval, each valve is at least to be marked with:

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

### **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.