



Marine &amp; Offshore

Certificate number: 09081/E2 BV

File number: ACM 135/0325/001

Product code: 2170H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

www.veristar.com

## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**CHIBRO S.r.l.**

Montano Lucino (CO) - ITALY

*for the type of product*

**MECHANICAL JOINTS - COMPRESSION COUPLINGS - PRESS TYPE**

90/10 Cupronickel piping system - CUNIPRESS

**Requirements:**

- BUREAU VERITAS Rules for the Classification of Steel Ships
- BUREAU VERITAS Rules for the Classification of Offshore Units

*FOR information only*

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 28 Jul 2025**

**For Bureau Veritas Marine & Offshore,**

At BV NAPOLI, on 21 Dec 2023

***This certificate was created electronically and is valid without signature***

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site [www.veristar.com](http://www.veristar.com). Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION

#### **90/10 Cupronickel piping system - CUNIPRESS**

##### 1.1 Design Specifications (press type)

Copper nickel alloy pipes used as pipe couplings. Fittings have at each end a toroidal groove with an O-ring seal, in synthetic rubber, which, deformed by a pressing tool, provides the tightness of the coupling.

##### 1.2 Range

<b>Pipe diameter (mm)</b>	15	18	22	28	35	42	54	76.1	88.9	108
<b>Wall thickness (mm)</b>	1	1	1	1.5	1.5	1.5	1.5	2	2	2.5
<b>Insertion length (mm)</b>	21	22	23	24	28	32	36	58	62	78

<b>Max. working pressure (bar)</b>	16
<b>Max. working temperature (°C)</b>	100

FKM : -20°C / 200°C

NBR : -20°C / 100°C

EPDM : -20°C / 120°C

##### 1.3 Materials

<b>Parts</b>	<b>Materials</b>
Pipes and fittings	Cupronickel alloy 90/10 according to UNS C 70600
O-ring	NBR /FKM / EPDM

*When other choices of materials are used per manufacturer's recommendations, the BV agreement is to be obtained.*

### 4. APPLICATION / LIMITATION

4.1 - May be used on board for services of Class III:

- **Flammable fluids (flash point  $\leq 60^\circ\text{C}$ )** - cargo oil, crude oil, washing, vent lines
- **Inert gas** - water seal/scrubber effluent lines, main lines, distributions lines
- **Flammable fluids (flash point  $> 60^\circ\text{C}$ )** - cargo oil, fuel oil, lubricating oil, hydraulic oil, thermal oil lines
- **Sea water** – bilge lines, ballast system, cooling water, permanent water filled fire extinguishing systems, non-permanent filled water fire extinguishing systems, tank cleaning/non-essential systems
- **Fresh water** - cooling water, condensate return, non-essential systems
- **Sanitary/Drains/Scuppers** - Deck drains (internal) (1), sanitary drains, scuppers and discharge (overboard)
- **Sounding and venting** - water tanks/dry spaces, oil tanks (flash point  $> 60^\circ\text{C}$ )

- **Miscellaneous** - service air (non-essential), brine, steam, starting/control air, CO2 system outside protected place, CO2 system inside protected space

(1)- *Only above bulkhead deck of passenger ships and freeboard deck of cargo ships.*

4.2 - Assembly instructions given by the manufacturer are to be complied with.

4.3 - In all cases, the associated pipes are to be suitably supported and anchored. The couplings are to be at any time accessible, excepting inside tanks where permitted by the Rules.

4.4 - The wall thickness and the material of the tubes are to be in accordance with the applicable Society Rules

\*\*\* END OF CERTIFICATE \*\*\*

For information only