



Lloyd's  
Register

## Type Approval Certificate Extension

*This is to certify* that Certificate No. 98/00132(E4) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	ilta inox S.p.A. Strada Statale 45 Bis 1-26010 Robecco D'Oglio Cremona Italy	
<b>PLACE OF PRODUCTION</b>	ilta inox S.p.A. Production Unit CHIBRO Via Valtellin, 15 22070, Montano Lucino Como Italy	
<b>DESCRIPTION</b>	90/10 Cupronickel Piping System with NBR 'O' rings	
<b>TYPE</b>	Cunipress (press type coupling)	
<b>SPECIFIED STANDARDS</b>	Lloyd's Register's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12.	
<b>RATINGS</b>	Nominal outside diameter (mm):	15, 18, 22, 28, 35, 42, 54, 76.1, 88.9, 108
	Maximum working pressure (bar):	16
	Maximum temperature (°C):	95
<b>Certificate No.</b>	98/00132(E5)	
<b>Issue Date</b>	07 January 2019	
<b>Expiry Date</b>	12 November 2023	
<b>Sheet</b>	1 of 3	



M.H.M.Rila  
Southampton Technical Support Office  
Marine & Offshore Lloyd's Register

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Maximum insertion lengths (mm):

Pipe diameter (mm)	15, 18, 22, 28, 35, 42, 54, 76.1, 88.9, 108
Insertion length (mm)	21, 22, 23, 24, 28, 32, 36, 58, 62, 78

#### APPLICATION

Subject to the conditions stated below, Cunipress pipe fittings may be accepted for use in the following piping systems on ships classed or intended to be classed by Lloyd's Register:

1. Class III piping systems.
2. Flammable fluids, but not inside Category A machinery spaces.
3. Fresh and sea water cooling for machinery.
4. Fire main and deck washing on ships where LR is authorised to act on behalf of the Flag Administration
5. 'Wet' and 'Dry' type Sprinkler systems (with the same limitation as 4 above)
6. Bilge and Ballast systems except on passenger ships.
7. Sanitary grey water and black water drainage
8. Domestic hot and cold fresh and sea water systems
9. Refrigeration Brine systems
10. Non-essential oily bilge systems

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LR0011.2016.00

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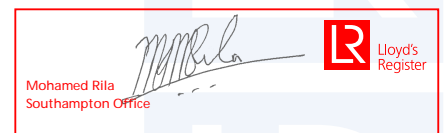
#### OTHER CONDITIONS

1. Pipes and fittings are to be selected and installed in accordance with the manufacturer's instructions and recommendations, and LR Ship Rules Part 5, Chapter 12, Sections 2.12 and Table 12.2.7 as applicable.
2. Where a piping system penetrates watertight or fire bulkheads or decks the penetration is to be approved in each individual case. If the piping system penetrates watertight bulkheads below the freeboard deck then the whole systems is to be approved with regard to progressive flooding.
3. The type approval is subject to the piping system not being subjected to internal pulsation pressure shocks.
4. The pipe couplings are not tested for axial loading (Pull-out test), the pipes are to be suitably supported and anchored.

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The attached Design Appraisal Document No. 98/00132(E5) and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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