



Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No. 98/00132(E3) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	ilta inox S.p.A. Strada Statale 45 Bis 1-26010 Robecco D'Oglio Cremona Italy	
PLACE OF PRODUCTION	ilta inox S.p.A. Production Unit CHIBRO Via Valtellin, 15 Montano Lucino Como Italy	
DESCRIPTION	90/10 Cupronickel Piping System with NBR 'O' rings	
TYPE	Cunipress	
SPECIFIED STANDARDS	Lloyd's Register's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12.	
RATINGS	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
Certificate No.	98/00132(E4)	
Issue Date	21 March 2014	
Expiry Date	12 November 2018	
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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

OTHER CONDITIONS

1. Where couplings are to be installed on ships classed by Lloyd's Register, the position is to be indicated on the relevant diagrammatic plans.
2. Piping is to be installed in accordance with Cunipress Installation Instructions, in positions which are readily accessible at all times and where there is sufficient working area to utilise the pressing tool
3. After installation, the pipe system and fittings are to be hydraulically tested to 1.5 times the design pressure of the system but at not less than 7 bar

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4. The type approval is subject to the piping system not being subjected to internal pulsation pressure shocks
5. In all cases, 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(E4) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 98/00132(E3) to which this extension should be attached.

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