

# Type Approval Certificate Extension

*This is to certify* that Certificate No. 13/ 00017 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	ISOTUBI, S.L.	
<b>PLACES OF PRODUCTION</b>	Pol. Ind. Santa Rita C/ Mecànica, 6 08755 Castellbisbal Barcelona Spain	C/ Costa I deu, 91 08205 Sabadell Barcelona Spain
<b>DESCRIPTION</b>	Stainless steel welded pipe system with couplings (stainless steel tubes and press fittings).	
<b>TYPES</b>	NUMEPRESS pipes to EN 10312 and EN 10217-7. Press Type Compression fittings with 'O' ring seal.	
<b>APPLICATION</b>	For use in Class III systems where no fire endurance test is required, and in domestic and sanitary systems. Couplings with seals sensitive to heat are not acceptable in the following locations: <ul style="list-style-type: none"> <li>1. Starting/ control air and CO2 systems.</li> <li>2. Inside machinery spaces of category A or accommodation spaces for main lines of inert gas systems &amp; Pipe systems for flammable liquids including corresponding vent and sounding pipes.</li> <li>3. Fire main, water spray or sprinkler systems which are not always filled with water.</li> <li>4. Bilge lines in high fire risk compartments</li> <li>5. Scupper pipes below freeboard deck over board</li> </ul>	

<b>Certificate No.</b>	13/ 00017(E1)
<b>Issue Date</b>	07 November 2018
<b>Expiry Date</b>	12 March 2023
<b>Sheet</b>	1 of 3



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

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS

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**SPECIFIED STANDARDS** Lloyd's Register's Rules and Regulations for the Classification of Ships  
IACSP2  
EN 10312  
EN 10217-7

**RATINGS**

Temperature range (°C):	0 to 120
Maximum pressure (bar):	16
Maximum diameter (mm):	108
Maximum wall thickness (mm):	2

**Stainless steel welded tubes (TIG) acc. EN 10312**

Steel 1.4301/ 1.4401/ 1.4404

Outside diameter (mm):	15	18	22	28	35	42	54	76.1	88.9	108
Wall thickness (mm):	1	1	1.2	1.2	1.5	1.5	1.5	2	2	2

**Stainless steel welded tubes (TIG) acc. EN 10217-7**

Steel 1.4301/ 1.4401/ 1.4404

Outside diameter (mm):	13.5	17.2	21.3	26.9	33.7	42.4	48.3	60.3
Wall thickness (mm):	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65

**Press Type Compression fittings with O-ring seal**

Austenitic stainless steel acc. 1.4401/ 1.4404

O-ring seal EPDM or FKM

Outside diameter (mm):	15	18	22	28	35	42	54	76.1	88.9	108
Wall thickness (mm):	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2	2

Outside diameter (mm):	13.5	17.2	21.3	26.9	33.7	42.4	48.3	60.3
Wall thickness (mm):	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65

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## Press fittings types

Coupling	Valve connector with swivel nut	Pipebridge
Slip coupling	Female tee threaded adaptor	Three pieces adaptor
90 deg. elbow	Male female reducer	Female pipebridge
90 deg. elbow one plain end	Reducing tee	Female connector
45 deg. elbow	Equal tee	Male connector
45 deg .elbow one plain end	Female adaptor	Press flanged adaptors
90deg. female angle adaptor	Male adaptor	Flexible tube
90deg. Male angle adaptor	Flanged adaptor	Equal or reduced cross
90 deg. Female elbow with wall plate	Plug	
90 deg. Elbow with plain ends	Air tube pipe bridge	

### 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.
3. If the piping system penetrates watertight bulkheads below the freeboard deck then the whole systems is to be approved with regard to progressive flooding.

*"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 Design Appraisal Document No. 13/ 00017(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate*

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