



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Raccorderie Metalliche SPA																		
Address	Strada Sabbionetana 59, Campitello Di Marcaria M, 46010, Italy																		
Type	Pipe Press Fitting System																		
Description	Stainless steel 1.4404 (AISI 316L) and Copper alloy CuNiFe 1.6Mn pressfitting systems with elastomer sealing rings																		
Trade Name	Inoxpres and Marinepres																		
Application	As piping components in Class III - piping systems on ships classed or intended for Classification with Lloyd's Register																		
Specified Standard	LR Rules and Regulations for the Classification of Ships, 2022																		
Ratings	Sizes DN [mm]: 15, 18, 22, 28, 35, 42, 54, 76.1, 88.9, 108																		
	<table><thead><tr><th>O-Ring Material</th><th>PN</th><th>Temperature range</th></tr><tr><td></td><td>[bar]</td><td>[°C]</td></tr></thead><tbody><tr><td>TIMO-70 EPDM</td><td>16</td><td>-20 to +120</td></tr><tr><td>TEC N31-70 NBR</td><td>5</td><td>-20 to +70</td></tr><tr><td>FKM AL V.70</td><td>16</td><td>-20 to +220</td></tr><tr><td>VMQ S2-70 Silicone</td><td>16</td><td>-20 to +180</td></tr></tbody></table>	O-Ring Material	PN	Temperature range		[bar]	[°C]	TIMO-70 EPDM	16	-20 to +120	TEC N31-70 NBR	5	-20 to +70	FKM AL V.70	16	-20 to +220	VMQ S2-70 Silicone	16	-20 to +180
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71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Fabrizio Cadenaro

Lead Technical Specialist - Alternative Fuels
to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Other Conditions

In piping systems where an approved fire-resistant type is required, for Inoxpres only EPDM and VMQ sealing rings and for Marinepres only FKM and VMQ sealing rings are permitted. Inoxpres and Marinepres are approved for wet and dry fire-fighting applications.

For essential piping systems the pipe thicknesses are to be not less than required according to the applicable Rules. The materials of the press fit system are to be compatible with the piping material, internal and external media. Installation is to be in accordance with the manufacturer's instruction and recommendations. For deck and bulkhead penetrations see also the requirements of National Authorities.

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.

Previous Version: 15/20055 (E1) and LR22130438TA

The Design Appraisal Document LR23190401DA and its supplementary Type Approval Terms and Conditions form part of this Certificate.