

Tubi multistrato metallo-plastici, raccordi in ottone e plastici in PPSU per impianti sanitari di riscaldamento e condizionamento nel settore navale (Prescrizioni LR).

Metal-plastic multi-layer pipes, brass fittings and plastic fittings in PPSU for dhw, heating and air-conditioning systems in the shipping application (LR Prescriptions).

SETTORE NAVALE - NAVAL INDUSTRY



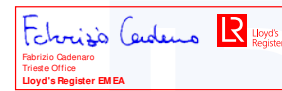
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Type Approval Certificate Extension

This is to certify that Certificate No. 03/00044(E3) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Valsir SPA	
PLACE OF PRODUCTION	Localita Merlaro 2 25078 Vestone(BS) Italy	
DESCRIPTION	Plastic pipe and fittings <ul style="list-style-type: none"> - Pexal multilayer pipes: from OD 14 to 75 mm (Red RAL3020, Blue RAL5015, White RAL9003) - Brass Compression fittings: from OD 16 to 32 mm - Brass Crimp fittings: from OD 14 to 75 mm - Pexal EASY ppsu fittings: from OD 14 to 63 mm 	
TYPE	PEXAL	
APPLICATION	Marine applications for heating and sanitary systems.	
SPECIFIED STANDARDS	Lloyd's Register's Rules and Regulations for the Classification of Ships and EN 744 (Test method for resistance to external blows by the round - the- clock method).	
RATINGS	Normal diameter (mm):	14 to 75
	Temperature range (°C):	0 to 95
	Nominal internal pressure (bar):	16 for OD14 to OD32 13 for OD40 to OD75
	Nominal external pressure (bar):	10
OTHER CONDITIONS	Pipes are to be selected and installed in accordance with the manufacturer's instructions and recommendations.	
Certificate No.	03/00044(E4)	
Issue Date	22 May 2018	
Expiry Date	21 April 2023	
Sheet	1 of 2	



Fabrizio Cadernaro
Trieste Technical Support Office
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"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. 03/00044(E4) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 03/00044(E3) to which this extension should be attached.

Certificate No.	03/00044(E4)
Issue Date	22 May 2018
Expiry Date	21 April 2023
Sheet	2 of 2

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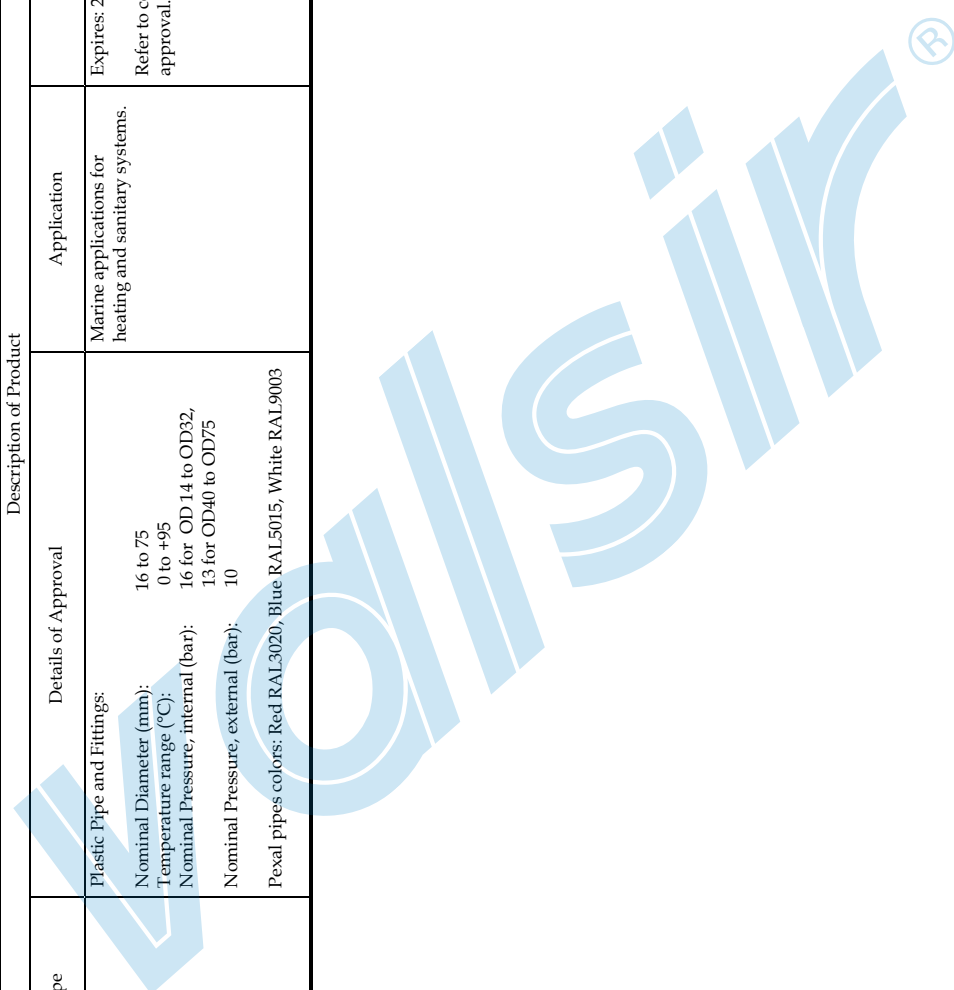
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Part 1A Subject: Pipe and Pipe Couplings Product: Plastic Pipes (Part 1A)		Description of Product			Cert. No.
Producer/Licence No.	Type	Details of Approval	Application	Remarks	
VALSIR S.p.A, Località Merliaro, 2, 25078 Vestone (BS), Italy.	PEXAL	Plastic Pipe and Fittings: Nominal Diameter (mm): 16 to 75 Temperature range (°C): 0 to +95 Nominal Pressure, internal (bar): 16 for OD 14 to OD 32, 13 for OD 40 to OD 75 Nominal Pressure, external (bar): 10 Pexal pipes colors: Red RAL 3020, Blue RAL 5015, White RAL 9003	Marine applications for heating and sanitary systems.	Expires: 21 April 2023 Refer to certificates for conditions of approval.	03/00044(E4)

Fabrizio Caderno



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Document number 03/00044(E4)
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 22 May 2018	Quote this reference on all future communications PRJ4499-8
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.

Issued to: VALSIR SPA
for: PEXEL PLASTIC PIPES AND FITTINGS
TYPE APPROVAL CERTIFICATE No. 03/00044(E4)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

ADDITIONAL APPROVAL DOCUMENTATION

Request for Services TAC 2018/35	15 March 2018
Application Checklist	01 March 2018
PQA Report PRJ4499	19 March 2018
LR Stamped test reports 20180319153753039, 20180319153823488, 20180319153915255, 20180319153941650, 20180319161749603	19 March 2018
RINA Fire Test Report 2008CS015841/1	29 December 2008
RINA Fire Test Report 2008CS015841/2	29 December 2008

Previous documentation as listed in Design Appraisal Documents 03/00044 to 03/00044(E3) inclusive.

Supplementary Type Approval Terms and Conditions

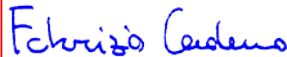

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.

Fabrizio Cadenaro
Engineering Systems, Trieste Technical Support Office
Marine Technology & Engineering Services


Fabrizio Cadenaro
Trieste Office
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