



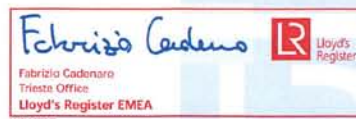
Type Approval Certificate Extension

This is to certify that Certificate No. 03/00043(E3) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Valsir SPA	
PLACE OF PRODUCTION	Fittings Localita Merlaro 2 25078 Vestone (BS) Italy	Pipes Via della Ferriera 1 25079 Vobarno (BS) Italy
DESCRIPTION	Plastic pipe and fittings	
TYPE	HDPE	
APPLICATION	Marine applications for heating and sanitary systems.	
SPECIFIED STANDARDS	Lloyd's Register's Rules and Regulations for the Classification of Ships.	
RATING	Outside Diameter (mm):	32 to 125
	Temperature Range (°C):	-40 to 95
	Nominal Internal Pressure (bar):	Atmospheric
	Nominal External Pressure (bar):	1 (up to 63mm diameter)
OTHER CONDITIONS	Pipes are to be selected and installed in accordance with the manufacturer's instructions and recommendations.	

Certificate No.	03/00043(E3)
Issue Date	30 July 2018
Expiry Date	21 April 2023
Sheet	1 of 2



Fabrizio Cadenaro
 Trieste Technical Support Office
 Lloyd's Register EMEA

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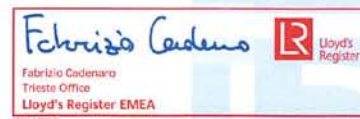
"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 03/00043(E3) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 03/00043(E2) to which this extension should be attached.

Certificate No.	03/00043(E3)
Issue Date	30 July 2018
Expiry Date	21 April 2023
Sheet	2 of 2

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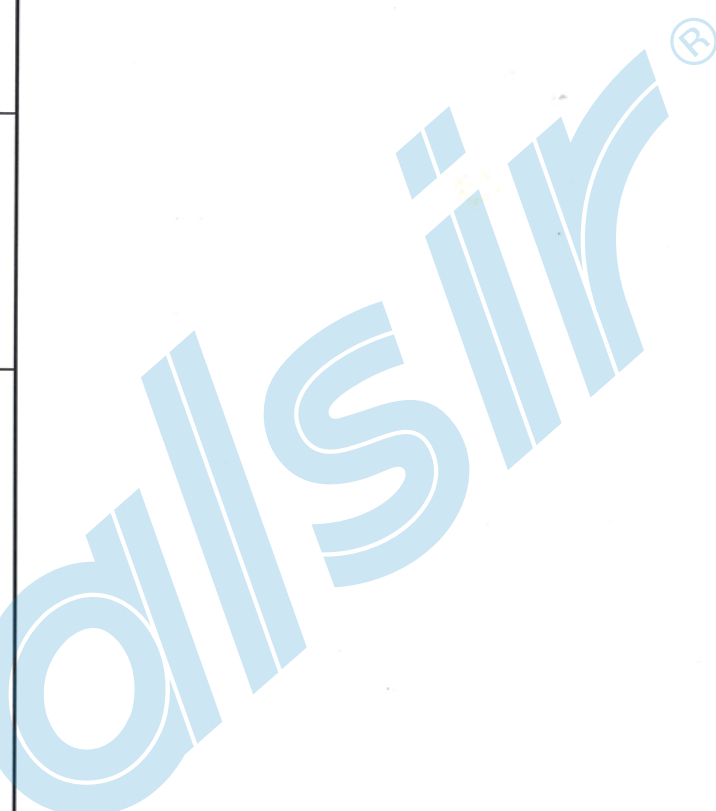
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Tubi e raccordi in polietilene alta densità per scarichi di impianti sanitari nel settore navale (Prescrizioni LR).
Pipes and fittings in high density polyethylene for discharge of dhw systems for the shipping application (LR Prescriptions).

SETTORE NAVALE - NAVAL INDUSTRY

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
VALSIR S.p.A., Località Merliaro, 2, 25078 Vestone (BS), Italy.		HDPE	Plastic Pipe and Fittings: Outside Diameter (mm): 32 to 125 Temperature range (°C): -40 to +95 Nominal internal pressure, (all sizes): Atmospheric Nominal external pressure, (OD 32 to 63): 1 bar	Marine applications for waste systems.	Expires: 21 April 2023 Refer to certificates for conditions of approval	03/00043(E3)

Fabrizio Cardano



**Lloyd's Register EMEA (London Office)**

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DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
30 July 2018	PRJ4499

LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.

Issued to: VALSIR SPA

for: HDPE PLASTIC PIPES AND FITTINGS

TYPE APPROVAL CERTIFICATE No. 03/00043(E3)

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

PQA Report PRJ4499	19 March 2018
Application checklist	15 March 2018
Request for Service	15 March 2018

Previous documentation as listed in Design Appraisal Documents 03/00043, 03/00043(E1) & 03/00043(E2)

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

