

Tubi e raccordi in polipropilene modificato (PP-M) per sistemi di scarico a gravità e sottovuoto nel settore navale (EN1451-1 + Regolamento Lloyds Register).

Pipe and fittings in modified polypropylene (PP-M) for piping systems for discharge systems gravity and vacuum in the naval sector (EN1451-1 + Regolamento Lloyds Register).

SETTORE NAVALE - NAVAL INDUSTRY



Lloyd's
Register

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.

This certificate is issued to:

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| PRODUCER | VALSIR S.p.A |
| PLACE OF PRODUCTION | Localita Merlaro, 2 25078 Vestone (BS) Italy |
| DESCRIPTION | Gravity and vacuum sewage pipes having socket and spigot joints. |
| TYPE | TRIPLUS |
| APPLICATION | Marine offshore and industrial sanitary systems |
| SPECIFIED STANDARDS | Lloyd's Register's Rules and Regulations for the Classification of Ships EN 1451-1:2000 Plastic piping systems for soil and waste discharges DS/CEN/TS 1451-2, 2012 Plastic piping systems for soil and waste discharges ASTM D635/06 - Standard test method for Rate of burning |
| RATINGS | Normal diameter (mm): 32 to 250 Temperature range (°C): 0 to 95 Nominal internal pressure (bar): Not applicable Nominal external pressure (bar): -0.8 |
| OTHER CONDITIONS | Pipes are to be selected and installed in accordance with the manufacturer's instructions and recommendations |

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| Certificate No. | 17/00094 |
| Issue Date | 23 October 2017 |
| Expiry Date | 22 October 2022 |
| Sheet | 1 of 2 |



P.A. Stanney
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The pipes are not to be installed in compartments that could become flooded in systems that are required to remain operational in case of flooding damage, as per Regulation II-1/8-1 of SOLAS 1974 Convention, as amended, or for any pipes that would allow progressive flooding to other compartments through damaged piping

"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. 17/00094 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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