

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007F0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Penetrations through "A" class divisions: pipe, duct, trunk, etc penetrations

with type designation(s)
INOXPRES

Issued to

RACCORDERIE METALLICHE S.P.A.
Campitello di Marcaria MN, Italy

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2020/1170,

item No. MED/3.26b. SOLAS 74 as amended, Regulation II-2/9, IMO MSC.1/Circ.1276, IMO 2010 FTP Code and IMO MSC.1/1488

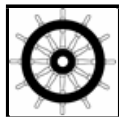
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-06-16**.

Issued at **Hamburg** on **2021-06-17**

DNV local station:
Italy/Malta CMC

Approval Engineer:
Hagen Markus



Notified Body
No.: **0098**

for **DNV SE**

Christine Mydlak-Roeder
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

The pipe penetration of type "INOXPRES 179/001" consists of a transit pipe made of stainless steel with length of 450mm provided with carbon steel collar welded to the pipe at the mid length. Steel collar thickness for individual penetration sizes according to drawings series 115179.

The welding's and carbon steel collar are corrosion protected by a primer.

Application/Limitation

Class A-60 an A-0 Steel Bulkheads and Decks, general application.

For application on A-15 and A-30 divisions, the penetration system shall be insulated as approved for class A-60.

The penetrated division is to be insulated as for A-60 at least 200 mm around the penetration.

Reference: INOXPRES: Insulation dimensions DECK & BULKHEAD, Rev. 1, May 2021

Other applications are subject to case-by-case approval.

The insulation material used has to be approved according to the Marine Equipment Directive, bearing the Mark of Conformity.

Each pipe penetration system is to be supplied with its actual manual for installation and use.

Size range of penetration pipes (media pipe)

Transit pipe material	DN	Pipe outer diameter mm
Stainless steel	10 - 100	15 - 108

Installation

System pipes to be connected to the pipe penetration by using press fitting socket coupling with a ring gasket made of EPDM according to manufacturer instruction and pressing tools specified in RACCORDERIE METALLICHE S.P.A "Pressfitting systems Technical Handbook".

The welding of the INOXPRES 179/001 pipe penetration is to be carried out according to "Technical Handbook, Annex I"- Welding instructions".

Type Examination documentation

Tests carried out

- Fire tests according to IMO Res.MSC.307(88)-(2010 FTP Code).
- IMO MSC.1/Circ.1488

Marking of product

Each penetration is to be marked at least as follows:

Scope	Example
Type designation	INOXPRES
Pipe size	42
Manufacturing country	IT (Italy)
Traceability number to production (6 digits)	101234
Mark of Conformity ¹	 0098/2021
US Coast Guard Number	Acc. to MED Module D certificate

Note

¹ may only be affixed to the type approved equipment, in case the associated production surveillance module (D, E or F) is valid.