



Marine & Offshore

Certificate number: 12138/D0 BV

File number: ACM 135/0325/003

Product code: 2060H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

ILTA INOX SpA

Robecco d'Oglio (CR) - ITALY

for the type of product

PIPES & FITTINGS

STECKDRAIN - Stainless steel pipes and fittings for sanitary discharge system

Requirements:

- BUREAU VERITAS Rules for the Classification of Steel Ships
- BUREAU VERITAS Rules for the Classification of Offshore Units

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 06 Apr 2023

For Bureau Veritas Marine & Offshore,

At BV VENEZIA, on 06 Apr 2018,

Sandro BRUSEGAN



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=0alu0lwda4>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

STECKDRAIN - Pipes and fittings of stainless steel for gravity and vacuum sanitary discharge system

1.1 Description

STECKDRAIN stainless steel pipe systems are jointed by a spigot and socket type joint. The rubber sealing ring is fitted between the socket and the spigot in such way that it grips on the whole rim of the socket. The seal ring is proven to be suitable for use in vacuum systems.

1.2 STECKDRAIN products (pipes and fittings)

Size x Thickness (mm)	40 x 1 and 50 x 1 65 x 1.25, 80 x 1.25 and 100 x 1.25 125 x 1.5 and 150 x 1.5 200 x 2
Seals	40, 50 and 65 mm for gravity and vacuum 80, 100, 125, 150 and 200 mm for gravity
Product type	as per catalogue

1.3 Material specification

Pipe and fitting	Stainless steel AISI 304 / UNI X5 CrNi 18 10 Stainless steel AISI 316L / UNI X6 CrNiMoTi 17 12
Sealing ring for pipes	SBR / EPDM / CR

When other choices of materials are used per manufacturer's recommendations, the BV agreement is to be obtained.

2. DOCUMENTS AND DRAWINGS

- Manufacturer's catalogue as provided on 22/02/2018
 - Dimensional drawings of pipes, fittings and seals as provided on 02/03/2018
- No departure from the above documents shall be made without the prior consent of the Society. The manufacturer must inform the Society of any modification or changes to these documents and drawings.*

3. TEST REPORTS

- Hydrostatic and vacuum tests report 17/Comm 1/PM/rb dated 15/11/1999 witnessed by a Classification Society

4. APPLICATION / LIMITATION

- 4.1 As grey and black water drainage systems and scuppers on board ships (designed for gravity or vacuum operation):
- Above the freeboard deck
 - Below the freeboard deck in enclosed spaces and machinery compartments without direct overboard connection
- 4.2 Penetration in watertight and fire class divisions is not covered by this approval. The drawing examination is subject to the Society's approval in each case.
- 4.3 Assembly instructions given by the manufacturer are to be complied with.
- 4.4 The pipes are to be properly secured and protected from mechanical damages.

5. PRODUCTION SURVEY REQUIREMENTS

- 5.1 The product are to be supplied by **Ita Inox SpA** in compliance with the type described in this certificate.
- 5.2 This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
- 5.3 **Ita Inox SpA** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

For information, **Ita Inox SpA** has declared to Bureau Veritas the following production site:

Ita Inox SpA: Unità produttiva Chibro, Via Valtellina, 15, 22070 Montano Lucino (CO), ITALY

6. MARKING OF PRODUCT

The product shall be at least marked with:

- Manufacturer's name or logo
- Type designation

7. OTHERS

It is **Ilta Inox SpA**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

This certificate supersedes the Type Approval Certificate N° 12138/C2 BV issued by the Society.

***** END OF CERTIFICATE *****