Certificate No:
TAP00001W8

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pipe System with Couplings

with type designation(s)
Press fitting system in Stainless Steel

Issued to
Ilta Inox S.p.A. - Division CHIBRO
Montano Lucino CO, Italy

is found to comply with
DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems
DNVGL-OS-D101 – Marine and machinery systems and equipment, Edition January 2018
DNV GL class programme DNVGL-CP-0185 – Type approval – Mechanical joints

Application :

Product(s) approved by this certificate is/are accepted for installation on vessels classed by DNV GL.
Temperature range: -20°C to +120°C
Max. pressure: 16 bar
Design:

Issued at **Høvik** on **2019-10-17**
This Certificate is valid until **2024-10-16**.
DNV GL local station: **Italy/Malta CMC**

Approval Engineer: **Adel Samiei**

for **DNV GL**

Zeinab Sharifi
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

Pipe system including press fitting made of stainless steel 1.4404 (According to EN10088) and pipes made of 1.4404.
Sizes:

Outside diameter (mm)	15	18	22	28	35	42	54	76.1	88.9	108
Thickness (mm)	1	1	1.2	1.2	1.5	1.5	1.5	2	2	2

Application/Limitation

The pipe system covered by this certificate may be used for non-pressurized sanitary discharge systems and outside drainage systems.

Pipe penetrations through watertight bulkheads, fire bulkheads or shell plating shall be approved in each separate case. When penetrating a watertight bulkhead there shall be remotely operated valves secured to each bulkhead. The valves and control system shall be located outside the damage zone of the ship.

Type Approval documentation

Tests carried out

Tightness test, burst pressure test, Pull-out, Vibration, fire test, vacuum test

Marking of product

For traceability to this type approval, each pipe system shall be at least to marked clearly with:

- Manufacturer's name or trademark
- Type designation

The identification marking shall be located in low stressed areas.

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNVGL-CP-0338.