

TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No. **13 866 - 99 HH**

Company **ilta inox S.p.A.**

**Strada Statale 45 bis
26010 Robecco d'Oglio, ITALY**

Product Description **Pipe penetrations through A Class divisions and watertight bulkheads and decks**

Type **Hermetic**

Environmental Category **None**

Technical Data /
Range of Application **The penetration Hermetic consists of nodular cast iron casing screwed to stainless steel flanges fitted with one EPDM gasket and one layer of intumescent material. The pipe penetration is insulated with mineral wool (density 100kg/m³) according to the installation drawings listed below.**

**Pipe O.D.: 6mm up to 273mm
Pipe materials: stainless steel
Flanges: stainless steel AISI 304
Body/casing: nodular cast iron 400/15+2%Ni
Gasket and O-ring: EPDM
Thermo expanding packing (intumescent sealing): Type INFS0811 (INCA)**

RANGE OF APPLICATION:

The Hermetic pipe penetration is type approved for installation at A-Class watertight divisions as follows:

- A0/A60 for deck applications with pipe diameter from 6 mm to 273 mm;
- A0/A60 for bulkhead applications with pipe diameter from 6 mm to 14 mm;
- A60 for bulkhead applications with pipe diameter from 15 mm to 219 mm;
- A30 for bulkhead applications with pipe diameter 267 mm and 273 mm.

The insulation of each penetration is to be carried out in accordance with drawings 2.39.189.650, 2.39.189.658, 2.39.189.659.

For installation the manufacturer's instruction "Hermetic catalog - Assembling" has to be observed.

Production place: **ilta inox S.p.A. – Production Unit CHIBRO - Via Valtellina, 15, 22070 - Montano Lucino (CO) – Italy.**

Test Standard **Guidelines for the Performance of Type Approvals, Test Requirements for Sealing Systems of Bulkhead and Deck Penetrations (Legacy GL Rules: VI-7-4, Edition 2014)**

Documents **refer to page 2**

Remarks **The Hermetic penetration is not approved for installation at boundary of tanks.**

Valid until **2019-06-21**

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Hamburg, 2014-11-18

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Olaf Drews


Plamen Dinkov

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DOCUMENTS:

Drawings:

2.39.191-Rev.Q dd. 2014-11-06;
2.39.189.650 -Rev.D dd. 2014-11-06,
2.39.189.658 - Rev.C dd. 2014-11-06,
2.39.189.659 - Rev. C dd. 2014-11-06.

Pressure test report 98-DG-TO 428/IV;

Fire test certificates with reports:

LAPI 0987/MED-B/239 Rev.1 dd. 2013-10-31 with Test Report 1073.4IMO150/09 dd.2009-10-02;

RINA /MED 307913CS/002 dd. 2013-10-14 with Test Reports:

2008CS012001 dd. 2008-07-22,
2008CS014752 dd. 2009-03-30,
2009CS011893 dd. 2009-06-04,
2009CS012436 dd. 2009-09-17,
2009CS013911 dd. 2009-10-19,

Audit Report dd. 2014-10-08;

GL Approval ref.no. 14-047329, 13-100440.

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