



Marine & Offshore

Certificate number: 26117/C0 BV

File number: SON 18/01

Product code: 6506H

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

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

Humphree AB

Göteborg - SWEDEN

for the type of product

HULL INSERTION OF IMMERSED DEVICE

Transom Passage for Interceptor Installation

Requirements:

- BUREAU VERITAS Rules for the Classification of Steel Ships
- BUREAU VERITAS Rules for the Classification of Naval Ships
- BUREAU VERITAS Rules for the Classification of Yachts
- BUREAU VERITAS Rules for the Classification of High Speed Crafts
- BUREAU VERITAS Rules for the Classification of Inland Navigation Vessels

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: 31 Aug 2027

For Bureau Veritas Marine & Offshore,

At BV GOTHENBURG, on 31 Aug 2022,

Torbjorn Ygesjo

This certificate was created electronically and is valid without signature



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: <https://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypec.jsp?id=hwwabhicpz>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

Transom Passage for Interceptor Unit

1.1 Design Specifications

Maximum working pressure: 1 bar

Transom hole diameter : 60 / 120 mm

1.2 Material and components

Part	Material
Shaft sleeve	Polyacetal (POM)
Shaft	Stainless Steel SS2324-2 PA66+PA6i/6t
Servo flange	POM GF30 Stainless Steel SS2377 Aluminium 6026
Mounting Plate	Aluminium (5083) / POM / PA6-MOS2

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

2. DOCUMENTS AND DRAWINGS

- Humphree Boat Control Systems 012110-02
- Drawings N° 011704 Rev. X01 & N° 020408 Rev. P02 - Transom passage and Interceptor installation
- Drawing N° 22540 Rev. X01 dated 09/02/2017 : HLS Hull Transition for 8-15 mm Transom
- Drawing N° 22572 Rev. X01 dated 02/02/2017 : HLS Hull Transition for 16-23 mm Transom
- Drawing N° 22541 Rev. X01 dated 09/02/2017 : HLS Hull Transition for 24-34 mm Transom
- Drawings N° P10047 Rev. P14 & N° 012387 Rev. P02 - Shaft sleeve L=125
- Drawings N° P10196 Rev. P09 & N° 020243 Rev. P07 - Shaft sleeve L=190
- Drawings N° P10200 Rev. P06 & N° 012117 Rev. P03 - Shaft short
- Drawings N° P10209 Rev. P07 - Shaft long
- Drawing N° 900131 Rev. 05 - Shaft Stainless steel
- Drawings N° P10247 Rev. P06 & N° 012385 Rev. P03 - Servo flange
- Drawings N° P10083 Rev. P03 & N° 012377 Rev. P05 - Transom sleeve nut
- Data sheet for O-rings: NBR 70 - Compound 36624 dated 08/1998
- Data sheet for Turcon seal ring dated 08/2009
- Quick installation guide 011611-01
- Installation manual HCS-5 5.7.x-03 (version 5.7.x)

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

- Humphree Test procedure 03/11/2011
- Pressure test at 1 bar of Interceptor transom passage HLS 022540 X01 dated 20/06/2017 witnessed by a BV Surveyor.

4. APPLICATION / LIMITATION

- 4.1 Approved as hull penetration in way of transom.
- 4.2 The following parts are outscope of this approval:
 - The interceptor
 - The servo unit
 - The control panel
 - The associated connection diagram and the wiring diagram.

4.3 Not to be fitted inside compartments intended for fuel or hydrocarbons according to BUREAU VERITAS Rules in Part B, Ch 8, Sec 10, [5.1.1].

4.4 Not to be fitted in hazardous areas according to BUREAU VERITAS Rules in Part B, Ch 8, Sec 10, [5.1.1].

4.5 Mounting and using conditions are to be specified in case of ships carrying dangerous products in bulk (oil, gas or chemical tankers).

4.6 The mounting to the hull is to be approved for each application on board ships.

5. PRODUCTION SURVEY REQUIREMENTS

5.1 The products are to be supplied by **Humphree AB** 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 **Humphree AB** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 For information, **Humphree AB** has declared to Bureau Veritas the following production site:

Humphree AB
Grimboåsen 16
SE-417 49 Göteborg
SWEDEN

6. MARKING OF PRODUCT

Each Interceptor series shall be marked with at least:

- Manufacturer's trade mark
- Manufacturing data
- Identification data

Other markings are given in the manufacturer's standard STD 7320 issue 4.

7. OTHERS

It is **Humphree AB**'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° 26117/B0 issued by the society.

*** END OF CERTIFICATE ***