



TYPE APPROVAL CERTIFICATE
No. FPE151722CS/001

This is to certify that the product identified below satisfies the requirements of the standard quoted under "Reference standard"

| | |
|-----------------------------|---|
| <i>Description</i> | Magnetic compass |
| <i>Type</i> | URANIA 4" |
| <i>Applicant</i> | BU1- BU2 - BU3 - BU4 - BU5 - BU6 - BU7 RIVIERA SOCIETA' A RESPONSABILITA' LIMITATA GENOVA VIA INFERIORE RIO MAGGIORE 4 A 16138 Genova (GE) ITALY |
| <i>Manufacturer</i> | RIVIERA SOCIETA' A RESPONSABILITA' LIMITATA |
| <i>Place of manufacture</i> | GENOVA VIA INFERIORE RIO MAGGIORE 4 A 16138 Genova (GE) ITALY |
| <i>Reference standards</i> | Guida per il riconoscimento di Tipo Omologato delle bussole magnetiche e relative chiesuole |

Issued in **Genoa** *on* **April 28, 2022. *This Certificate is valid until* **April 27, 2027****

RINA Services S.p.A.
Giovanni Carratino

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE

No. FPE151722CS/001

Enclosure - Page 1 of 1

URANIA 4"

Product description

Hemispherical compass type;
Material of bowl: nylon/glass fibre;
Material of spherical bowl: polycarbonate;
Compass card diameter : real =70,5mm; apparent =100mm;
Number of magnets: 2;
Magnetic moment: 0,270 A.m²;
Type of liquid: SHELL SOL D 70;
Magnets for compass adjustment: no 4.

Field of application

Merchant ships of less than 150 GT and fishing vessels engaged on coastal navigation service.

Reference documents

Drawing n° 167 - Complessivo bussola BU1 5° filed by RINA with n° 2319897.
Drawing n° 183 - Complessivo bussola BU2 5° filed by RINA with n° 2319898.
Drawing n° 188 - Complessivo bussola BU3 5° filed by RINA with n° 2319899.
Drawing n° 194 - Complessivo bussola BU4 5° filed by RINA with n° 2319900.
Drawing n° 209 - Complessivo bussola BU5 5° filed by RINA with n° 2319901.
Drawing n° 221 - Complessivo bussola BU6 5° filed by RINA with n° 2319902.
Drawing n° 224 - Complessivo bussola BU7 5° filed by RINA with n° 2319903.
Technical spec. dated July 11, 2000 edit by RIVIERA Srl.
Materials data sheets filed by RINA with n° CSST/20233;
Materials data sheets filed by RINA with n° CSST/20255.

Tests carried out

Report no. 1999DGTO454/3edit by RINA on July 12, 2000.
Report no. 2007CS01124.
Test report n° 222041A-a filed by RINA with n° CSST/20231.
Test report n° 222041A-b filed by RINA with n° CSST/20232.
Test report n° 22-4790306765-1-1-0-PER filed by RINA with n° CSST/20234.
Test report n° VR2208201RIOF.docx filed by RINA with n° CSST/20235.
Test report n° 22-4790306765-1-1-0-PER filed by RINA with n° CSST/20236.

Limitation of use

This compass, being not provided with the correctors for the quadrantal deviation, is not suitable for installation on board ships which hull or superstructure are made in steel.

Remarks

Each item of the mass production to be fitted on vessels classed by RINA is to be previously inspected at the manufacturer workshop by a RINA Surveyor and is to be marked or labelled with the trade name and the data of the Company to whom this Certificate is addressed. The validity of this Certificate ceases in the case of amendments to the rules on the basis of which the Certificate was issued.

Genoa April 28, 2022

RINA Services S.p.A.
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Production Quality Assurance Certificate

CERTIFICATE Nr. PQA098622GE/001

This is to certify that RINA did undertake the examination of the equipment identified below with the criteria for the Production Quality Assurance set-up in the "Rules for Testing and Certification of Marine Materials and Equipment".

Description

Magnetic compass

Type

URANIA 4"

Applicant

BU1- BU2 - BU3 - BU4 - BU5 - BU6 - BU7

**RIVIERA SOCIETA' A RESPONSABILITA' LIMITATA
GENOVA**

VIA INFERIORE RIO MAGGIORE 4 A
16138 Genova (GE)

ITALY

Type Approval
certificate

Number

FPE151722CS/001

Date

28/04/2022

Issued in RINA Genoa Marine
on
May 16, 2022

This Certificate is valid until
May 15, 2025

This Certificate consists of this sheet plus an attachment

This certificate is relevant to the verification of the effectiveness of the quality assurance system adopted by the Manufacturer and applied for production, inspection and testing during manufacturing and on finished products, to guarantee the required characteristics of the products covered by relevant Type Approval certificates.



Enrico Ursomando
RINA Services S.p.A.

Enrico Ursomando

RINA Services S.p.A.





ATTACHMENT TO
CERTIFICATE Nr. PQA098622GE/001

Equipment:

URANIA 4"

BU1- BU2 - BU3 - BU4 - BU5 - BU6 - BU7

Manufacturer

RIVIERA SOCIETA' A RESPONSABILITA' LIMITATA GENOVA

Place of Manufacturer

VIA INFERIORE RIO MAGGIORE 4 A

16138 Genova (GE)

ITALY

Technical documentation

| INTERMEDIATE SCHEDULED AND UNSCHEDULED AUDITS | | | |
|--|----------------|----------------------|--|
| Due Date | Carried out on | Surveyor's signature | Surveyor's stamp |
| 15/05/2023 | 25.05.2023 | | Michelino Casella Marine Surveyor |
| 15/05/2024 | 10.05.2024 | | Michelino Casella Marine Surveyor RINA Services S.p.A. |

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- d) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- e) RINA may revoke the approval in the case of modifications to requirements or conditions for the approval
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.
- g) This certificate loses its validity in case the Type Approval certificate is no more valid.

Ursomando Enrico
RINA Services S.p.A.
26043

Enrico Ursomando