

# TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:  
**MERB00007F5**  
Revision no.:  
**2**

This Certificate is issued by DNV UK Limited, UKAS accredited certification body no. 6086, based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body (no. 0097) to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2025.

## This is to certify:

that the **Compass bearing device**

with type designation(s)  
**PV 23 (Type 2535, 2535-AA), PV 24 (Type 2695), PV 25 (Type 5042)**

issued to

**Sperry Marine B.V. - German Branch**  
**Woltmanstr. 19 20097 Hamburg Germany,**

is found to comply with the Regulation (UK) **MSN 1874 Amendment 11** for  
Item no. **UK/4.54 (Row 2 of 2)**  
according to the following requirements:  
**SOLAS 74 Reg. V/19, SOLAS 74 Reg. V/18**

Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2026-04-30**

Expiry date: **2031-04-29**

DNV local unit:  
**Hamburg – CMC**  
**North/East**

Approval Engineer:  
**Jörg Rebel**



Approved Body No.: **0097**



for **DNV UK Ltd.**

Digitally Signed By:

**Christine Mydlak-Röder**

**Christine Mydlak-Röder**  
**MER Service Responsible**



**Maritime &  
Coastguard  
Agency**

UK Approved Body Authorised  
by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

"The Mark of Conformity" may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2025, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

## Product description

The compass bearing device PV 23 is an azimuth reading device with vanes, i.e. of Group I according to ISO 25862, Annex C.1.1. It is constructed to be used with a bearing repeater type 4881 or 5016 with a card diameter of 172 mm.

The compass bearing device PV 24 is an azimuth reading device with vanes, i.e. of Group I according to ISO 25862, Annex C.1.1. It is constructed to be used with a magnetic compass type 2060 or 2555 with a card diameter of 180 mm.

The compass bearing device PV 25 is an azimuth reading device with vanes, i.e. of Group I according to ISO 25862, Annex C.1.1. It is constructed to be used with a magnetic compass type 2060 or 2555 with a card diameter of 180 mm.

## Application/Limitation

None

## Type Examination documentation

Please see Appendix: Type Examination Documentation

## Tests carried out

- Environmental and EMC testing: IEC 60945 (2002) incl. Corrigendum 1 (2008)
- Performance testing: ISO 25862 (2019) incl. Amendment 1 (2024)

## Marking of product

According to IEC 60945, Sect.4.9:

The product to be marked with following information, where practicable:

- Identification of the manufacturer,
- Equipment type number or model identification under which it was type tested,
- Serial number of the unit,
- Compass safe distance.

Alternatively, the marking may be presented on a display at equipment start-up, and in case of fixed equipment compass safe distance may be given in the equipment manual.

# APPENDIX

## Type Examination documentation

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| Document No.      | Rev.       | Title   |
|-------------------|------------|---|
| 106-16            | Issue 1    | Report: Treo, Cold test acc. to IEC 60945, 8.4  |
| 107-16            | Issue 1    | Report: Treo, Vibration test acc. to IEC 60945, 8.7   |
| -                 | 2016-03-02 | Report: Hein & Oetting, Dry heat test for PV 23 acc. to IEC 60945, 8.2  |
| -                 | 2016-03-02 | Report: Hein & Oetting, Dry heat test for PV 24 acc. to IEC 60945, 8.2  |
| -                 | 2016-02-15 | NG Sperry Marine, Material declaration for Bearing Devices PV 23 and PV 24 acc. to IEC 60945, 8.12 (Corrosion test) |
| -                 | 2016-05-17 | Report: Hein & Oetting, Performance test for PV 23 acc. to ISO 25862, 6 and Annex C                                 |
| -                 | 2016-05-17 | Report: Hein & Oetting, Performance test for PV 24 acc. to ISO 25862, 6 and Annex C                                 |
| 9049 15 48909 157 | A          | Report: DNV GL, Performance test for PV 23 and PV 24 acc. to ISO 25862, 6 and Annex C                               |
| 056016            | E          | Manual: Operation and installation for magnetic compass JUPITER (type 2060)   |
| GL_CP1_2012       | 2012-11-02 | Report: GL, Tests according to ISO 25862 (2009), Annex C for PV 25  |
| 056406            | A          | Manual: Operation, Installation and Service for NAVIPOL CP  |
| 056376            | C1         | Manual: Operation, Installation and Service for analogue compass repeaters (PV 23)                                  |