

DET NORSKE VERITAS

PRODUCT CERTIFICATE

| Manufacturer: | | SKIPPER Electronics AS | | | |
|--|--|---|--|--------------------|----------------------|
| Manufacturer's order No.: Purchaser: | | 84164 MACKAY | | | |
| | | | | | |
| The product is intended for | | | | | |
| Yard: | | (TBD) | | | |
| Yard No.: | | | | | |
| Name of vessel: | | ۲۴ <u>۲۶</u> | | | |
| DNV Id. No.: | | P261.1C | | | |
| THIS IS TO CERTIFY: | | | | | |
| that the product: | | Bottom Pe | enetration fo | r Echo Sounde | r, Sonar or Log |
| Type designation: Intended purpose: Serial No(s): | | SB-60-SA_X_, DB-60-SA, SB-100-SB, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder 12217 | | | |
| | | | | | |
| Serial No(s): | cordance with the relev | /ant requirem | nents of: | | |
| | cordance with the relev ⊠ Ships | /ant requirem ⊠ HSLC | | 🗌 Naval | ⊠ Offshore |
| Serial No(s): Has been built and tested in ac DNV Rules for Classification: | ☑ Ships☐ Other standards: | - | | 🗌 Naval | ⊠ Offshore |
| Serial No(s): Has been built and tested in ac DNV Rules for Classification: Remarks (if more than one line | ☑ Ships☑ Other standards:, use page 2): | ⊠ HSLC | | ☐ Naval | ⊠ Offshore |
| Serial No(s): Has been built and tested in ac | ☑ Ships ☑ Other standards: , use page 2): SL-12-4517 en the certification is based of | | : Gate Valve This Certific | | ☑ Offshore |
| Serial No(s): Has been built and tested in ac DNV Rules for Classification: Remarks (if more than one line The product was marked: NV-O This field is only to be filled in whe Manufacturing Survey Arrangeme The undersigned manufacturer de been built and tested in accordan stated above and the conditions r Manufacturing Survey Arra Quality System Certificate | Ships Other standards: Other standards: Use page 2): SL-12-4517 en the certification is based or ent (MSA). eclares that the product/system ce with the specification/stance eferred to in angement No: R-1948 | HSLC | : Gate Valve | cate is only valid | when signed by a DNV |
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Technical data:

Remarks:

The valve housing has been subjected to a hydrostatic pressure test, and the valve assembly to a seat leakage test to 5 bar. Holding time 5 minutes.

Marking and certificate numbers for the different parts:

Drawings with dates of approval and/or type approval certificate number: $\ensuremath{\text{DNV}}$ S-6000