

## DET NORSKE VERITAS

Certificate No OSL-12-4331

## PRODUCT CERTIFICATE

| Manufacturer:   |   | SKIPPE  | R Electronic         | s AS                   |                     |  |  |
|---|---|---|----------------------|------------------------|---------------------|--|--|
| Manufacturer's order No.: Purchaser: Purchaser's order No.:   |   | 81717   |                      |                        |                     |  |  |
| Purchaser:  |   | RAYTHE  | ON                   |                        |                     |  |  |
| Purchaser's order No.:  |   |   |                      |                        |                     |  |  |
| The product is intended for   |   |   |                      |                        |                     |  |  |
| Yard:   |   | (TBD)   |                      |                        |                     |  |  |
| Yard No.:   |   |   |                      |                        |                     |  |  |
| Name of vessel:   |   | ii 33   |                      |                        |                     |  |  |
| DNV Id. No.:  | <del></del>   | P261.1C   |                      |                        |                     |  |  |
| THIS IS TO CERTIFY:   |   |   |                      |                        |                     |  |  |
| that the product:   | <u>.</u>  | Bottom Penetration for Echo Sounder, 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 12031 |                      |                        |                     |  |  |
| Has been built and tested in ac DNV Rules for Classification:  Remarks (if more than one line   | <ul><li>☑ Ships</li><li>☐ Other standards:</li></ul>                            | ant requir<br>⊠ HSI   |                      | □ Naval                |                     |  |  |
|   |   | (   | On: <b>Gate Val</b>  | ve                     |                     |  |  |
| The product was marked: <b>NV-OSL-12-4331</b> This field is only to be filled in when the certification is based on a Manufacturing Survey Arrangement (MSA). |   |   | This Cer<br>surveyor | •                      | hen signed by a DNV |  |  |
| The undersigned manufacturer de been built and tested in accordant stated above and the conditions of Manufacturing Survey Arra Quality System Certificate    | ce with the specification/standa<br>eferred to in<br>angement No: <b>R-1948</b> | ard   | 3ul veyol            |                        |                     |  |  |
| For Manufacturer:   |   |   |                      | For <b>Det Norsk</b> e | e Veritas AS        |  |  |
| Place: Oslo   |   |   | Place: <b>Høvik</b>  |                        |                     |  |  |
| Date: <b>07.06.2012</b>   |   |   | Date: <b>20</b>      | 12.07.05               |                     |  |  |
| 7   | s Karlstad<br>Technician  |   |                      | Thomas R. Senior Su    |                     |  |  |
|   |   |   |                      |                        |                     |  |  |

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| Remarks: The valve housing has been subjected to a hydrostatic pressure test, and the valve assembly to a seat leakage te 5 bar. Holding time 5 minutes. | t to |
|--|------|
| Marking and certificate numbers for the different parts:   |      |
| Drawings with dates of approval and/or type approval certificate number:  DNV S-6000   |      |
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