

## DET NORSKE VERITAS

Certificate No OSL-12-4377

## PRODUCT CERTIFICATE

| Manufacturer:  Manufacturer's order No.:  Purchaser:  Purchaser's order No.:  The product is intended for  Yard:  Yard No.:  Name of vessel:   |   | SKIPPER Electronics AS 81705 FURUNO  (TBD)   |                       |          |                                   |  |
|--|---|--|-----------------------|----------|-----------------------------------|--|
| DNV Id. No.:   | <br>  | P261.1C  |                       |          |                                   |  |
| THIS IS TO CERTIFY: that the product:  Type designation: Intended purpose: Serial No(s):   |   | Bottom Penetration for Echo Sounder, Sonar or Log  SB-60-F1X_ 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 12077 |                       |          |                                   |  |
| Serial No(s):  Has been built and tested in accordance with the relevant requ DNV Rules for Classification: Ships Other standards:  Remarks (if more than one line, use page 2):   |   |  |                       |          |                                   |  |
| The product was marked: NV-O   | SL-12-4377  | (  | On: <b>Gate Val</b>   | ve       |                                   |  |
| This field is only to be filled in whe Manufacturing Survey Arrangeme  The undersigned manufacturer de been built and tested in accordance stated above and the conditions re Manufacturing Survey Arra Quality System Certificate | nt (MSA). eclares that the product/system be with the specification/standal eferred to in angement No: R-1948 | has<br>ird   | This Cert<br>surveyor | •        | when signed by a DNV e Veritas AS |  |
| For Manufacturer: Place: <b>Oslo</b>   |   |  | Place: <b>H</b> e     | øvik     |                                   |  |
| Date: <b>20.03.2012</b>  |   |  | Date: <b>20</b>       | 12-05-02 |                                   |  |
| Anders Karlstad Product Technician   |   | Thomas R. Jacobsen<br>Senior Surveyor  |                       |          |                                   |  |

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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 |
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| 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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