



DET NORSKE VERITAS

Certificate No  
OSL-11-4337

PRODUCT CERTIFICATE

Manufacturer: SKIPPER Electronics AS

Manufacturer's order No.: 75548

Purchaser: Raytheon Anschutz GmbH Mecklenburger Strasse 32 24106 Kiel

Purchaser's order No.: \_\_\_\_\_

The product is intended for  
Yard: ( TBD )

Yard No.: \_\_\_\_\_

Name of vessel: " "

DNV Id. No.: P261.1C

THIS IS TO CERTIFY:  
that the product: Bottom Penetration for Echo Sounder, Sonar or Log

Type designation: SB-60-SA\_\_\_, DB-60-SA\_\_\_, SB-100-SB\_\_\_, DB-100-SB\_\_X\_,  
ETNSJB/ETNSLB-100mm\_\_\_

Intended purpose: The gate valve may be used in conjunction with installation of  
speed log or echo sounder

Serial No(s): 11037

Has been built and tested in accordance with the relevant requirements of:  
DNV Rules for Classification:  Ships  HSLC  Naval  Offshore  
 Other standards:

Remarks (if more than one line, use page 2):

The product was marked: **NV-OSL-11-4337** On: **Gate Valve**

This field is only to be filled in when the certification is based on a Manufacturing Survey Arrangement (MSA).

The undersigned manufacturer declares that the product/system has been built and tested in accordance with the specification/standard stated above and the conditions referred to in  
Manufacturing Survey Arrangement No: **R-1948**  
Quality System Certificate No: **TI 151 ISO 9001:2008**

For Manufacturer:  
Place: **Oslo**  
Date: **27.01.2011**

**pr. SKIPPER Electronics A/S**  
*Anders Rønstad*

(name)  
(title)

This Certificate is only valid when signed by a DNV surveyor.

For Det Norske Veritas AS

Place:  
Date:

(name)  
Surveyor

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:  
**DNV S-6000**