DET NORSKE VERITAS

Certificate No
OSL-11-4582

PRODUCT CERTIFICATE

Manufacturer:	**SKIPPER Electronics AS**
Manufacturer's order No.:	**78263**
Purchaser:	**Furuno Norge AS 6008 Ålesund**
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-F1_X__, DB-60-SA___, SB-100-LA___, DB-100-SB___, ETNSJB/ETNSLB-100mm___**

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

Serial No(s): **11282**

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-11-4582** 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: **04.08.2011**

Anders Karlstad
Product Technician

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

For **Det Norske Veritas AS**

Place: **Høvik**

Date: **2011-10-11**

Digitally Signed By: Jacobsen, Thomas Rørvik
Location: DNV Oslo, Norway
Signing Date: 2011-10-11

Thomas R. Jacobsen
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