DET NORSKE VERITAS

Certificate No
OSL-11-4374

PRODUCT CERTIFICATE

Manufacturer:	**SKIPPER Electronics AS**
Manufacturer's order No.:	**76001**
Purchaser:	**Raytheon Anschuz GmbH 24106 KIEL Germany**
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-LA___ , ETNSJB/ETNSLB-100mm__X_**
Intended purpose:	**The gate valve may be used in conjunction with installation of speed log or echo sounder**
Serial No(s):	**11074**

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-11-4374**   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: **23.02.2011**

Anders Karlstad
(title)

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

For **Det Norske Veritas AS**

Place: **Høvik**

Date: **2011-03-03**

Per Helstrup
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