



DET NORSKE VERITAS

Certificate No
OSL-11-4336

PRODUCT CERTIFICATE

Manufacturer: SKIPPER Electronics AS
Manufacturer's order No.: 75555
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__X_, SB-100-SB___, 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): 11036
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-11-4336** 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 Karlsfjad

(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