



DET NORSKE VERITAS

Certificate No  
OSL-11-4580

PRODUCT CERTIFICATE

Manufacturer:

SKIPPER Electronics AS

Manufacturer's order No.:

78421

Purchaser:

Raytheon Anschutz 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\_X\_, DB-60-SA\_, 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):

11280

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-11-4580

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: 01.08.2011

Anders Karlstad  
Product Technician

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

For Det Norske Veritas AS

Place: Høvik

Date: 2011-08-12

Thomas R. Jacobsen  
Senior 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**