



DET NORSKE VERITAS

Certificate No
OSL-11-4314

PRODUCT CERTIFICATE

Manufacturer: **SKIPPER Electronics AS**

Manufacturer's order No.: **75085**

Purchaser: **SAM Electronics GmbH Friensweg 4 22763 Hamburg 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-LA_X__, DB-60-SA__, SB-100-SB__, DB100-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): **11014**

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-11-4314**

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: **12.01.2011**

pr. SKIPPER Electronics A/S
Anders Karlstad

(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