DET NORSKE VERITAS

PRODUCT CERTIFICATE

Manufacturer:	**SKIPPER Electronics AS**
Manufacturer's order No.:	**81557**
Purchaser:	**KONGSBERG**
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):	**12027**

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-12-4327**   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: **20.03.2012**	This Certificate is only valid when signed by a DNV surveyor. For **Det Norske Veritas AS** Place: **Høvik** Date: **2012-05-02**
Anders Karlstad **Product Technician**	**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