

DET NORSKE VERITAS

Certificate No OSL-12-4600

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	84470
Purchaser:	Kongsberg
Purchaser's order No.:	
The product is intended for	
Yard:	(TBD)
Yard No.:	
Name of vessel:	и <u>п</u>
DNV Id. No.:	P261.1C
THIS IS TO CERTIFY:	
that the product:	Bottom Penetration for Echo Sounder, Sonar or Log
Type designation: Intended purpose: Serial No(s):	SB-60-SA, DB-60-SA, SB-100-SBX, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder 12300
Has been built and tested in accordance with the relev	rant 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-12-4600	On: Gate Valve
This field is only to be filled in when the certification is based or Manufacturing Survey Arrangement (MSA).	This Certificate is only valid when signed by a DNV surveyor.
The undersigned manufacturer declares that the product/syster been built and tested in accordance with the specification/stand stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001:2	n has ard
For Manufacturer:	For Det Norske Veritas AS
Place: Oslo	Place:
Date: 10.10.2012	Date:
Anders Karlstad Product Technician	Jørn Henrik Pedersen Surveyor
Froduct reclinician	Jul Veyor

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Technical data:	
Remarks: The valve housing has been subjected to a hydrostatic pressure test, and the valve assembly to a seat leakage te 5 bar. Holding time 5 minutes.	t to
Marking and certificate numbers for the different parts:	
Drawings with dates of approval and/or type approval certificate number: DNV S-6000	

DET NORSKE VERITAS AS, Veritasveien 1, NO-1322 Høvik, Norway, Tel.: +47 67 57 99 00, Fax: +47 67 57 99 11, Org.No. NO 945 748 931 MVA www.dnv.com Form No.: 20.92a Issue: October 2010 Page 2 of 2