

DET NORSKE VERITAS

Certificate No OSL-12-4548

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	59872
Purchaser:	L-3 Marine
Purchaser's order No.:	
The product is intended for	
Yard:	(TBD)
Yard No.:	
Name of vessel:	и "
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, SB-100-SAX_, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of
Intended purpose: Serial No(s):	speed log or echo sounder 12248
Has been built and tested in accordance with the release DNV Rules for Classification: ☐ Ships ☐ Other standards: Remarks (if more than one line, use page 2):	☐ HSLC ☐ Naval ☐ Offshore
The product was marked: NV-OSL-12-4548	On: Gate Valve
This field is only to be filled in when the certification is based o Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/syste been built and tested in accordance with the specification/stanstated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001:	surveyor. em has ndard
, ,	For Det Norske Veritas AS
For Manufacturer: Place: Oslo	Place:
Date: 31.08.2012	Date:
Anders Karlstad Product Technician	Jørn Henrik Pedersen Surveyor

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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