

DET NORSKE VERITAS

Certificate No OSL-13-4547

PRODUCT CERTIFICATE

Manufacturer: Manufacturer's order No.: Purchaser: Purchaser's order No.: The product is intended for Yard: Yard No.:	(TBD)
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: 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 13247
Has been built and tested in accordance with the relev DNV Rules for Classification: ☐ Ships ☐ Other standards:	vant requirements of: ☐ Naval ☐ Offshore
Remarks (if more than one line, use page 2):	
The product was marked: NV-OSL-13-4547	On: Gate Valve
This field is only to be filled in when the certification is based on Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/system been built and tested in accordance with the specification/stands stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001:2	surveyor. n has lard
For Manufacturer:	For Det Norske Veritas AS
Place: Oslo	Place:
Date: 01.08.2013	Date:
Anders Karlstad Product Technician	Håkon Karlsen 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 test to 5 bar. Holding time 5 minutes. Marking and certificate numbers for the different parts:	

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