

## DET NORSKE VERITAS

## PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	79484
Purchaser:	Kongsberg Maritime
Purchaser's order No.:	
The product is intended for	
Yard:	( TBD )
Yard No.:	
Name of vessel:	۶۶ ۲۶ ۱۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰
DNV Id. No.:	P261.1C
THIS IS TO CERTIFY:	
that the product:	Bottom Penetration for Echo Sounder, Sonar or Log
	SB-60-SA, DB-60-SA, SB-100-SB_X_, DB-100-SB,
Type designation:	ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of
Intended purpose: Serial No(s):	speed log or echo sounder 11361
Has been built and tested in accordance with the relev	-
DNV Rules for Classification: Ships	☐ HSLC
Other standards:	
Remarks (if more than one line, use page 2):	
The product was marked: NV-OSL-11361	On: Gate Valve
This field is only to be filled in when the certification is based on Manufacturing Survey Arrangement (MSA).	This Certificate is only valid when signed by a DNV surveyor.
The undersigned manufacturer declares that the product/systen been built and tested in accordance with the specification/stand stated above and the conditions referred to in Manufacturing Survey Arrangement No: <b>R-1948</b> Quality System Certificate No: <b>TI 151 ISO 9001:2</b>	ard
	For Det Norske Veritas AS
For Manufacturer:	
Place: Oslo	Place: Høvik
Date: 17.10.2011	Date: 2011-12-06
Anders Karlstad	Thomas R. Jacobsen
Product Technician	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:  $\ensuremath{\text{DNV}}$  S-6000