

DET NORSKE VERITAS

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	
Purchaser:	
Purchaser's order No.:	
The product is intended for	
Yard:	(TBD)
Yard No.:	
Name of vessel:	" 33
DNV Id. No.:	P261.1C
THIS IS TO CERTIFY:	
that the product:	Bottom Penetration for Echo Sounder, Sonar or Log
Type designation: Intended purpose:	SB-60-SA, DB-60-SA, SB-100-SB_X, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder
Serial No(s):	13280
Has been built and tested in accordance with the relevant requirements of:	
DNV Rules for Classification: Ships	☐ HSLC
☐ Other standards:	
Remarks (if more than one line, use page 2):	
The product was marked: NV-OSL-13-4580	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/system 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	ard
For Manufacturer:	For Det Norske Veritas AS
Place: Oslo	Place:
	Date:
Date: 21.08.2013	Dale.
Anders Karlstad	Håkon Karlsen
Product Technician	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