

DET NORSKE VERITAS

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	81417
Purchaser:	RAYTHEN
Purchaser's order No.:	
The product is intended for	
Yard:	(TBD)
Yard No.:	
Name of vessel:	" "
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-SBX_, 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):	12039
Has been built and tested in accordance with the relevant 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-12-4339 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/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	n has ard 2008
For Manufacturer:	For Det Norske Veritas AS
Place: Oslo	Place: Høvik
Date: 03.02.2012	Date: 2012-05-03
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