

## DET NORSKE VERITAS

Certificate No OSL-11-4654

## PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	
Purchaser:	FURUNO NORGE AS
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: Serial No(s):	SB-60-F1_X_, DB-60-SA, SB-100-SB, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder 11354
Has been built and tested in accordance with the rele	ovent requirements of:
has been built and tested in accordance with the rele	evant requirements or.
DNV Rules for Classification: Ships	☐ HSLC ☐ Naval ☐ Offshore
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DNV Rules for Classification:  ☐ Ships ☐ Other standards:	☐ HSLC ☐ Naval ☐ Offshore
DNV Rules for Classification:  ☐ Other standards:  Remarks (if more than one line, use page 2):	☐ HSLC ☐ Naval ☐ Offshore
DNV Rules for Classification: Ships Other standards:  Remarks (if more than one line, use page 2):  The product was marked: NV-OSL-11-4654  This field is only to be filled in when the certification is based of Manufacturing Survey Arrangement (MSA).  The undersigned manufacturer declares that the product/syste been built and tested in accordance with the specification/stan stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948	On: Gate Valve  This Certificate is only valid when signed by a DNV 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:		
Drawings with dates of approval and/or type approval certificate number:  DNV S-6000		

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