

Certificate No OSL-12-4312

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	81053
Purchaser:	FURUNO
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:	SB-60-F1_X, DB-60-SA, SB-100-SB, DB-100-SB, ETNSJB/ETNSLB-100mm
Intended purpose: Serial No(s):	The gate valve may be used in conjunction with installation of speed log or echo sounder 12012
Remarks (if more than one line, use page 2):	
The product was marked: NV-OSL-12-4312	On: Gate Valve
This field is only to be filled in when the certification is based o Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/syste been built and tested in accordance with the specification/state stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001:	surveyor. tem has andard 8
For Manufacturer:	1 of Del Noiske Ventas As
Place: Oslo	Place: Høvik
Date: 30.01.2012	Date: 2012-05-03
Anders Karlstad Product Technician	Thomas R. Jacobsen Senior Surveyor

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Remarks: The valve housing has been subjected to a hydrostatic pressure test, and the valve assembly to a seat leakage te 5 bar. Holding time 5 minutes.	t to
Marking and certificate numbers for the different parts:	
Drawings with dates of approval and/or type approval certificate number: DNV S-6000	

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