



DET NORSKE VERITAS

Certificate No
OSL-11-4433

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	76157
Purchaser:	Furuno Norge AS 6008 Ålesund
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_, DB100-SB_, ETNSJB/ETNSLB-100mm_
Intended purpose:	The gate valve may be used in conjunction with installation of speed log or echo sounder
Serial No(s):	11133
Has been built and tested in accordance with the relevant requirements of:	
DNV Rules for Classification:	<input checked="" type="checkbox"/> Ships <input checked="" type="checkbox"/> HSLC <input type="checkbox"/> Naval <input checked="" type="checkbox"/> Offshore <input type="checkbox"/> Other standards:

Remarks (if more than one line, use page 2):

The product was marked: NV-OSL-11-4433	On: Gate valves
<p>This field is only to be filled in when the certification is based on a Manufacturing Survey Arrangement (MSA).</p> <p>The undersigned manufacturer declares that the product/system has been built and tested in accordance with the specification/standard stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001:2008</p> <p>For Manufacturer: Place: Oslo Date: 02.05.2011</p> <p>..... Anders Karlstad (title)</p>	<p>This Certificate is only valid when signed by a DNV surveyor.</p> <p>For Det Norske Veritas AS</p> <p>Place: Høvik Date: 2011-05-12</p> <p>..... Thomas R. Jacobsen Surveyor</p>

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
