



DET NORSKE VERITAS

Certificate No  
OSL-11-4400

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	75375
Purchaser:	Sam Electronics GmbH Friensweg 4 22763 Hamburg Gerany
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-SA____, DB-60-SA____, SB-100-LA__X__, 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):	11100
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: <b>NV-OSL-11-4400</b>	On: <b>Gate Valve</b>
<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: <b>R-1948</b> Quality System Certificate No: <b>TI 151 ISO 9001:2008</b></p> <p>For Manufacturer: Place: <b>Oslo</b> Date: <b>28.03.2011</b></p> <p>..... <b>Anders Karlstad</b> (title)</p>	<p>This Certificate is only valid when signed by a DNV surveyor.</p> <p>For <b>Det Norske Veritas AS</b></p> <p>Place: <b>Høvik</b> Date: <b>2011-05-12</b></p> <p>..... <b>Thomas R. Jacobsen</b> Surveyor</p>

Technical data:

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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.**

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Marking and certificate numbers for the different parts:

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Drawings with dates of approval and/or type approval certificate number:

**DNV S-6000**

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