



DET NORSKE VERITAS

Certificate No
OSL-11-4420

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	76718
Purchaser:	Kongsberg Maritime AS 3616 Kongsberg
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-SB__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):	11120
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-11-4420	On: Gate Valve
<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:</p> <p>Place: Oslo</p> <p>Date: 28.04.2011</p> <p>.....</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</p> <p>Date: 2011-05-12</p> <p>.....</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
