



DET NORSKE VERITAS

PRODUCT CERTIFICATE

Manufacturer:	SKIPPE	R Electronics AS			
Manufacturer's order No.:	77856	77856			
Purchaser:	ELSE T	ELSE TECHNICAL and Research Service CO			
Purchaser's order No.:					
The product is intended for					
Yard:	(TBD)				
Yard No.:					
Name of vessel:	44	91			
DNV Id. No.:	P261.10	<u>C</u>	•••••		
THIS IS TO CERTIFY:					
that the product:	Botton	n Penetration for	Echo Sounder,	, Sonar or Log	
Type designation:	ETNSJ	SB-60-LA, DB-60-SA_X, SB-100-SB, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of			
Intended purpose:	speed	speed log or echo sounder			
Serial No(s):	11215				
Has been built and tested in accordance wi	th the relevant requi	irements of:			
DNV Rules for Classification: Ships	⊠ HS	SLC	□ Naval		
☐ Other s	standards:				
Remarks (if more than one line, use page 2	?):				
The product was marked: NV-OSL-11-4515		On: Gate Valve			
This field is only to be filled in when the certification is based on a Manufacturing Survey Arrangement (MSA).		This Certificate is only valid when signed by a DNV surveyor.			
The undersigned manufacturer declares that the been built and tested in accordance with the spectated above and the conditions referred to in Manufacturing Survey Arrangement N Quality System Certificate No: TI 151	o: R-1948		For Det Norsk	te Veritas AS	
For Manufacturer:					
Place: Oslo		Place: Høvik			
Date: 21.06.2011		Date: 2011- 0	7-06	W SKE V	
Anders Karlstad	41		Nils Fredi	rik Broch 7864	
Product Technican			Principal :	Surveyor OSLO	

Certificate No OSL-11-4515

Technical data:	
Remarks: The valve housi 5 bar. Holding tii	ing has been subjected to a hydrostatic pressure test, and the valve assembly to a seat leakage test time 5 minutes.
Marking and certi	ificate numbers for the different parts:
Drawings with da	ates of approval and/or type approval certificate number:

DET NORSKE VERITAS AS, Veritasveien 1, NO-1322 Hovik, 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