

## DET NORSKE VERITAS

Certificate No OSL-12-4458

## PRODUCT CERTIFICATE

Manufacturer:	SKIPPE	SKIPPER Electronics AS 83187			
Manufacturer's order No.:	83187				
Purchaser:	RAYTH	RAYTHEON			
Purchaser's order No.:					
The product is intended for					
Yard:	(TBD)				
Yard No.:					
Name of vessel:	"	,,			
DNV Id. No.:	P261.10	P261.1C			
THIS IS TO CERTIFY:					
that the product:	Botton	n Penetration	for Echo Sounder,	Sonar or Log	
Type designation:	ETNSJ	SB-60-SA_X, DB-60-SA, SB-100-SB, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of			
Intended purpose: Serial No(s):		log or echo so			
Has been built and tested in accordance with DNV Rules for Classification: ☐ Ships☐ Other s  Remarks (if more than one line, use page 2	⊠ HS tandards:		□ Naval		
The product was marked: NV-OSL-12-4458		On: <b>Gate Valv</b>	re		
This field is only to be filled in when the certification Manufacturing Survey Arrangement (MSA).  The undersigned manufacturer declares that the posen built and tested in accordance with the spectated above and the conditions referred to in Manufacturing Survey Arrangement Not Quality System Certificate No: TI 151 I	oroduct/system has ification/standard	This Certi surveyor.	ficate is only valid w	hen signed by a DNV	
			For <b>Det Norsk</b> e	e Veritas AS	
For Manufacturer: Place: <b>Oslo</b>		Place:			
Date: <b>18.06.2012</b>		Date:			
Date. 10.00.2012		Date.			
Anders Karlstad Product Technician		Jørn Henrik Pedersen 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