

DET NORSKE VERITAS

Certificate No OSL-12-4513

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER	R Electronics	AS			
Manufacturer's order No.:	83950 RAYTHEON					
Purchaser:						
Purchaser's order No.:						
The product is intended for						
Yard:	(TBD)	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:	ETNSJB	/ETNSLB-100	mm	_		
Intended purpose: Serial No(s):				in conjunction	with installation of	
DNV Rules for Classification: Ships Other standards: Remarks (if more than one line, use page 2):	⊠ HSL	С	□ N	aval	⊠ Offshore	
The product was marked: NV-OSL-12-4513	C	n: Gate Valv e)			
This field is only to be filled in when the certification is based or Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/syster been built and tested in accordance with the specification/stand stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001:2	m has dard		icate is	only valid when	signed by a DNV	
For Manufacturer: Place: Oslo		For Det Norske Veritas AS				
		Place:				
Date: 07.08.2012	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