

DET NORSKE VERITAS

Certificate No OSL-12-4571

PRODUCT CERTIFICATE

Manufacturer:		SKIPPE	R Electroni	cs AS		
Manufacturer's order No.:		71932				
Purchaser:		L-3 Com	munication	1		
Purchaser's order No.:						
The product is intended for	Bottom Penetration for Echo Sounder, Sonar or Log SB-60-LA DB-60-SA, SB-100-LBX_ DB-100-LA, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder 12271 In accordance with the relevant requirements of: ion: Ships HSLC Naval Offshore Other standards: In when the certification is based on a angement (MSA). turer declares that the product/system has cordance with the specification/standard filtions referred to in By Arrangement (NS). For Det Norske Veritas AS Place: Date:					
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: Intended purpose: Serial No(s):		ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder				
Has been built and tested in ac DNV Rules for Classification:	⊠ Ships			☐ Naval	⊠ Offshore	
The product was marked: NV-O	SL-12-4571		on: Gate Va	alve		
Other standards: emarks (if more than one line, use page 2): ne product was marked: NV-OSL-12-4571 This field is only to be filled in when the certification is based of Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/syste been built and tested in accordance with the specification/stan stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001:		а		-	hen signed by a DNV	
been built and tested in accordance stated above and the conditions ro Manufacturing Survey Arra	ce with the specification/standa eferred to in angement No: R-1948	ard		For Det Norsk e	o Veritas AS	
For Manufacturer:			1 Of Del Noiske Verilas AS			
Place: Oslo			Place:			
Date: 14.12.2012			Date:			
Anders Karlstad Product Technician						

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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