

DET NORSKE VERITAS

Certificate No OSL-11-4764

PRODUCT CERTIFICATE

Manufacturer: Manufacturer's order No.: Purchaser:		SKIPPER Electronics AS 80986 RAYTHEON									
						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: Intended purpose: Serial No(s):		SB-60-SA, DB-60-SAX_, SB-100-LA, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder 11464									
Has been built and tested in ac	cordance with the relev	ant require	ements of:								
DNV Rules for Classification:		⊠ HSLC		☐ Naval							
Remarks (if more than one line)								
The product was marked: NV-O			On: Gate Va								
This field is only to be filled in who Manufacturing Survey Arrangement The undersigned manufacturer debeen built and tested in accordant stated above and the conditions of Manufacturing Survey Arranguality System Certificate	ent (MSA). eclares that the product/system ce with the specification/stand eferred to in angement No: R-1948	n has lard	This Ce survey	ertificate is only valid wor.	then signed by a DNV						
For Manufacturers			For Det Norske Veritas AS								
For Manufacturer: Place: Oslo			Place: Høvik								
Date: 02.01.2012			Date: 2	2012-01-31							
Anders Karlstad			Thomas R. Jacobsen Senior Surveyor								
Product Technician				Semor St	ii vey0i						

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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

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