

DET NORSKE VERITAS

PRODUCT CERTIFICATE

Manufacturer: SKIPPER Electronics AS					
Manufacturer's order No.:	77856				
Purchaser:	ELSE TECHNICAL and Research Service CO				
Purchaser's order No.:					
The product is intended for					
Yard:	(TBD)	****			
Yard No.:	***************************************	**************************	•••••		
Name of vessel:	46 19				
DNV Id. No.:	P261.1C				
THIS IS TO CERTIFY:					
that the product:	Bottom F	Penetration fo	or Echo Sounder,	Sonar or Log	
Type designation: Intended purpose: Serial No(s):	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 speed log or echo sounder 11216				
Has been built and tested in accordance with the rele	evant require	ments of			
	orani rogano				
	⊠ HSLC		☐ Naval		
DNV Rules for Classification: Ships Other standards	⊠ HSLC		☐ Naval		
DNV Rules for Classification:	:			☑ Offshore	
DNV Rules for Classification: Ships Other standards Remarks (if more than one line, use page 2): The product was marked: NV-OSL-11-4516 This field is only to be filled in when the certification is based	0	on: Gate Valve			
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Certificate No OSL-11-4516

Technical data:	
Remarks: The valve housing has been subjected to a hydrostatic pressure test, and the valve assembly to a seat leakage test bar. Holding time 5 minutes.	st 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 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