

## DET NORSKE VERITAS

Certificate No OSL-12-4530

## PRODUCT CERTIFICATE

Manufacturer:	SKIPPER EI	R Electronics AS			
Manufacturer's order No.:					
Purchaser:					
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		r Echo Sounde	r, Sonar or Log	
Type designation: Intended purpose: Serial No(s):	SB-60-F1_X, DB-60-SA, 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 12230				
Has been built and tested in accordance with the rele	vant requireme	ents of			
		31160 01.			
DNV Rules for Classification:   ⊠ Ships	⊠ HSLC	onto on	☐ Naval		
	•	511.6 61.	☐ Naval	⊠ Offshore	
DNV Rules for Classification:  ☐ Ships ☐ Other standards:  Remarks (if more than one line, use page 2):	⊠ HSLC		□ Naval	⊠ Offshore	
DNV Rules for Classification: Ships Other standards:  Remarks (if more than one line, use page 2):  The product was marked: NV-OSL-12-4530	⊢ HSLC	Gate Valve			
DNV Rules for Classification:   Other standards:  Remarks (if more than one line, use page 2):	On:	Gate Valve		☑ Offshore  when signed by a DNV	
DNV Rules for Classification: Ships  Other standards:  Remarks (if more than one line, use page 2):  The product was marked: NV-OSL-12-4530  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:	On:	Gate Valve This Certific	cate is only valid		
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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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