

DET NORSKE VERITAS

PRODUCT CERTIFICATE

Manufacturer: Manufacturer's order No.: Purchaser:		SKIPPE	SKIPPER Electronics AS		
		77609 L-3 Communication Valmarine AS 3027 Drammen .			
					Purchaser's order No.:
The product is intended for					
Yard:		(TBD)			
Yard No.:					
Name of vessel:		66 91	•		
DNV Id. No.:		P261.1C			
THIS IS TO CERTIFY:					
that the product:		Bottom	Bottom Penetration for Echo Sounder, Sonar or Log		
Type designation:		SB-60-SA, DB-60-SA, SB-100-SBX_, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of			
Intended purpose:		speed log or echo sounder			
Serial No(s):		11190			
Has been built and tested in acc	cordance with the re	elevant requi	rements of:		
DNV Rules for Classification:	⊠ HS	LC Navai			
	Other standard	is:			
Remarks (if more than one line,	use page 2):				
The product was marked: NV-O	SL-11-4490		On: Gate Valve		
This field is only to be filled in when the certification is based on a Manufacturing Survey Arrangement (MSA).			This Certificate is only valid when signed by a DNV surveyor.		
The undersigned manufacturer de been built and tested in accordance stated above and the conditions of Manufacturing Survey Arra Quality System Certificate	e with the specification/s eferred to in angement No: R-19	standard 48	Fau Dat	Norske Veritas AS	
For Manufacturer:			For Det	Norske Verilas AS	
Place: Oslo			Place: Høvik	RSKE	
Date: 09.06.2011			Date: 2011-07-06	And 1864*	
Anders Karlstad			Nils Fredrik Broch		
Product Technican			Principal Surveyor		

Certificate No OSL-11-4490

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

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