

## DET NORSKE VERITAS

Certificate No OSL-11-4335

## PRODUCT CERTIFICATE

Manufacturer:  Manufacturer's order No.:  Purchaser:		SKIPPER Electronics AS 75553 Raytheon Anschutz GmbH Mecklenburger Strasse 32 24106 Kiel									
						Purchaser's order No.:					
						The product is intended for					
Yard:		(TBD)									
Yard No.:											
Name of vessel:		"	"								
DNV Id. No.:		P261.1	С								
THIS IS TO CERTIFY:											
that the product:		Bottom Penetration for Echo Sounder, Sonar or Log									
Type designation: Intended purpose:		SB-60-SA, DB-60-SAX_, SB-100-SB, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of									
Serial No(s):		speed log or echo sounder 11035									
Has been built and tested in ac	cordance with the relev	ant requi	irements of:								
DNV Rules for Classification:	⊠ Ships	⊠ HS		☐ Naval							
	Other standards:										
Remarks (if more than one line	, use page 2):										
The product was marked: NV-O	SL-11-4335		On: Gate Valv	e							
This field is only to be filled in when the certification is based on a Manufacturing Survey Arrangement (MSA).  The undersigned manufacturer declares that the product/system has been built and tested in accordance with the specification/standard stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001:2008			This Certi surveyor.	ficate is only valid w	rhen signed by a DNV						
For Manufacturer:			For Det Norske Veritas AS								
Place: Oslo			Place:								
Date: 27.01.2011			Date:								
pr. SKIPPER Electrical	onics A/S										
(name)			(name)								
(title)			Surveyor								

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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							

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