

## DET NORSKE VERITAS

Certificate No OSL-12-4559

## PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS	
Manufacturer's order No.:	84213 Raytheon	
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 for Echo Sounder, Sonar or Log
Type designation:	ETNSJE	SA, DB-60-SA, SB-100-SBX_, DB-100-SB, B/ETNSLB-100mm e valve may be used in conjunction with installation of
Intended purpose: Serial No(s):		og or echo sounder
DNV Rules for Classification:  ☐ Other standards  Remarks (if more than one line, use page 2):	⊠ HSI :	_C
The product was marked: NV-OSL-12-4559	(	On: <b>Gate Valve</b>
This field is only to be filled in when the certification is based Manufacturing Survey Arrangement (MSA).  The undersigned manufacturer declares that the product/syst been built and tested in accordance with the specification/sta stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001	tem has ndard	This Certificate is only valid when signed by a DNV surveyor.
• •		For <b>Det Norske Veritas AS</b>
For Manufacturer: Place: <b>Oslo</b>		Place:
Date: 23.08.2012		Date:
Anders Karlstad Product Technician		Jørn Henrik Pedersen Surveyor

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