

DET NORSKE VERITAS

Certificate No OSL-12-4486

PRODUCT CERTIFICATE

Manufacturer:	SKIPPEI	SKIPPER Electronics AS				
Manufacturer's order No.:	83286 Raytheon					
Purchaser:						
Purchaser's order No.:						
The product is intended for						
Yard:	(TBD)					
Yard No.:						
Name of vessel:	" "					
DNV Id. No.:	Company Comp	P261.1C				
THIS IS TO CERTIFY:						
that the product:	Bottom	Penetration fo	r Echo Sounde	r, Sonar or Log		
Type designation: Intended purpose:	ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder					
Serial No(s):	12186					
Has been built and tested in accordance with the rele			_	_		
DNV Rules for Classification: Ships Other standards		_C	☐ Naval			
_ office standards	•					
Remarks (if more than one line, use page 2):						
The product was marked: NV-OSL-12-4486	(On: Gate Valve				
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/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	andard					
For Manufacturer:			For Det Nors	ke Veritas AS		
Place: Oslo		Place:				
Date: 09.07.2012		Date:				
Anders Karlstad			Jørn Henri	k Pedersen		
Product Technician		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