

DET NORSKE VERITAS

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	84131
Purchaser:	RAYTHEON
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: Intended purpose: Serial No(s):	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 speed log or echo sounder 12320
Has been built and tested in accordance with the relevant DNV Rules for Classification:	
DNV Rules for Classification: Ships	HSLC Naval Offshore
Remarks (if more than one line, use page 2):	
The product was marked: NV-OSL-12-4620	On: Gate Valve
This field is only to be filled in when the certification is based on Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/system been built and tested in accordance with the specification/standa stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1948 Quality System Certificate No: TI 151 ISO 9001:2	surveyor.
	For Det Norske Veritas AS
For Manufacturer:	Disco
Place: Oslo	Place:
Date: 08.11.2012	Date:
Anders Karlstad	Håkon Karlsen
Product Technician	Surveyor

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: $\ensuremath{\text{DNV}}$ S-6000