

## DET NORSKE VERITAS

## PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	81418
Purchaser:	RAYTHEON
Purchaser's order No.:	
The product is intended for	
Yard:	( TBD )
Yard No.:	
Name of vessel:	۵۵ اور ۲۶ ۱۹
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-SB_X_, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder 12036
Has been built and tested in accordance with the relevant requirements of:    DNV Rules for Classification:  ⊠ Ships  ⊠ HSLC  □ Naval  ⊠ Offshore    □ Other standards:  □  □  □  □  □	
Remarks (if more than one line, use page 2):	
This field is only to be filled in when the certification is based on Manufacturing Survey Arrangement (MSA).	This Certificate is only valid when signed by a DNV surveyor.
The undersigned manufacturer declares that the product/system been built and tested in accordance with the specification/stand stated above and the conditions referred to in Manufacturing Survey Arrangement No: <b>R-1948</b> Quality System Certificate No: <b>TI 151 ISO 9001:2</b>	ard
For Manufacturer:	For <b>Det Norske Veritas AS</b>
Place: <b>Oslo</b>	Place: Høvik
Date: 03.02.2012	Date: 2012-05-03
Anders Karlstad Product Technician	Thomas R. Jacobsen Senior 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