

DET NORSKE VERITAS

PRODUCT CERTIFICATE

Manufacturer:	SKIPPER Electronics AS
Manufacturer's order No.:	83624
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_X_, DB-60-SA, SB-100-SB, DB-100-SB, ETNSJB/ETNSLB-100mm The gate valve may be used in conjunction with installation of speed log or echo sounder 12176
	HSLC Naval Offshore
DNV Rules for Classification: ⊠ Ships ☐ Other standards Remarks (if more than one line, use page 2):	HSLC INaval Offshore
Other standards Remarks (if more than one line, use page 2): The product was marked: NV-OSL-12-4476	HSLC INaval Offshore
DNV Rules for Classification: Ships Other standards Remarks (if more than one line, use page 2): The product was marked: NV-OSL-12-4476 This field is only to be filled in when the certification is based Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/sysible been built and tested in accordance with the specification/stassitated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1944 Quality System Certificate No: TI 151 ISO 9001	Image: Market Marke
DNV Rules for Classification: ☑ Ships ☐ Other standards ☐ Remarks (if more than one line, use page 2): The product was marked: NV-OSL-12-4476 This field is only to be filled in when the certification is based Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/sys 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 For Manufacturer:	HSLC Naval Naval Offshore On: Gate Valve on a This Certificate is only valid when signed by a DNV surveyor. tem has andard 8 1:2008 For Det Norske Veritas AS
DNV Rules for Classification: □ Ships □ Other standards Remarks (if more than one line, use page 2): The product was marked: NV-OSL-12-4476 This field is only to be filled in when the certification is based Manufacturing Survey Arrangement (MSA). The undersigned manufacturer declares that the product/system been built and tested in accordance with the specification/stastated above and the conditions referred to in Manufacturing Survey Arrangement No: R-1944 Quality System Certificate No: TI 151 ISO 9001	Image: MSLC Image: Naval Image: Offshore Image: MSLC Image: One of the mase

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