

DET NORSKE VERITAS

PRODUCT CERTIFICATE

Manufacturer's order No.: 85	KIPPER Electronics AS 5713
Purchaser: SA Purchaser's order No.:	5713
Purchaser's order No.:	
	AM Taihang
The product is intended for	
Yard: (T	TBD)
Yard No.:	
Name of vessel: "	33
DNV Id. No.: P2	261.1C
THIS IS TO CERTIFY:	
that the product: B	Bottom Penetration for Echo Sounder, Sonar or Log
Type designation: E1 Th Th Intended purpose: sp Serial No(s): 12	SB-60-SA, DB-60-SA, SB-100-SBX_, DB-100-LA, TNSJB/ETNSLB-100mm he gate valve may be used in conjunction with installation of peed log or echo sounder 2338
Lines peep built and tested in accordance with the relevant	requirements of.
	HSLC Naval Offshore
	⊠ HSLC □ Naval ⊠ Offshore
DNV Rules for Classification: Ships	HSLC Naval Offshore
DNV Rules for Classification: Ships Image: Content of the standards: Cher standards: Other standards: Remarks (if more than one line, use page 2): Image: Content of the standards: The product was marked: NV-OSL-12-4638 This field is only to be filled in when the certification is based on a Manufacturing Survey Arrangement (MSA). Image: Content of the specification of the specific	On: Gate Valve This Certificate is only valid when signed by a DNV surveyor. as
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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