

DET NORSKE VERITAS

PRODUCT CERTIFICATE

		SKIPPER Electronics AS
lanufacturer:	****	***************************************
lanufacturer's order No.:		78091 Northrop Grumman Sperry MarineKT3 4NR New Malden U.K.
Purchaser:	****	Mortinop Graniman opony
Purchaser's order No.:	•••	
he product is intended for		
/ard:		(TBD)
/ard No.:		
Name of vessel:		46 19
ONV Id. No.:		P261.1C
THIS IS TO CERTIFY:		
that the product:		Bottom Penetration for Echo Sounder, Sonar or Log
that the product		SB-60-SA, DB-60-SA, SB-100-SBX_, DB-100-SB,
Type designation:		ETNE ID/ETNEI R.100mm
		The gate valve may be used in conjunction with installation of speed log or echo sounder
Intended purpose: Serial No(s):		11276
		to a strong anta of
Has been built and tested in ac	cordance with the relev	vant requirements of:
		M HSI C ☐ Naval ☐ Offshore
DNV Rules for Classification:	☑ Ships	☐ HSLC ☐ Naval ☐ Offshore
		⊠ HSLC □ Naval ⊠ Offshore
	Ships Other standards: Other stand	⊠ HSLC □ Naval ⊠ Offshore
DNV Rules for Classification:	Ships Other standards: Other stand	⊠ HSLC □ Naval ⊠ Offshore
DNV Rules for Classification: Remarks (if more than one line	⊠ Ships ☐ Other standards: , use page 2):	Naval ⊠ Offshore On: Gate Valve
DNV Rules for Classification: Remarks (if more than one line The product was marked: NV-C	Ships ☐ Other standards: , use page 2): OSL-11-4576 ten the certification is based o	On: Gate Valve This Certificate is only valid when signed by a DNV
DNV Rules for Classification: Remarks (if more than one line The product was marked: NV-C This field is only to be filled in wh Manufacturing Survey Arrangement	Ships Other standards: use page 2): OSL-11-4576 Then the certification is based of cent (MSA).	On: Gate Valve This Certificate is only valid when signed by a DNV surveyor.
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echnical 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.			
larking and certificate	numbers for the different parts:		
Orawings with dates of ONV S-6000	approval and/or type approval certificate number:		

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