

**CERTIFICATE**  
FOR VALVE - PRESSURE REDUCING

Certificate No:  
**N141TDWS**

**This is to certify**

that the product:	<b>Valve</b>
Type designation:	<b>SB-100-SB</b>
Application/context:	<b>The valve may be used in conjunction with installation of speed log or echo sounder</b>
Serial/tag no:	<b>19178</b>

Has been found to comply with relevant requirements in:  
**DNVGL-RU-SHIP :DNV GL Rules for classification – Ships (2017-07)**

The product is intended for

Yard:	-
Yard No:	-
Name of vessel:	<b>STOCK</b>
DNV GL Id No:	-

**The product / material has been marked: N141TDWS on: Valve housing**

**Particulars of Vendor and Purchaser**

Vendor:	<b>Skipper Electronics AS</b>
Vendor reference:	
Purchaser:	
Purchaser reference:	


Issued at **Oslo Maritime and CAP** on **2019-07-29**



for **DNV GL**

This document has been digitally signed and  
will therefore not have handwritten signatures

**Karlsen, Håkon**  
**Surveyor**



Certificate No: **N141TDWS**

**Linked Type Approvals:**

TAS00001J9, Bottom Penetration for Echo Sounder, Sonar or Log

**Surveyor Supplementary information:**

**The valve housing has been subjected to a hydro-static pressure test, and the valve assembly to a seat leakage test to 5 bar. Holding time 5 minutes.**

**Manufacturing Survey Arrangement No: MSARC0000B3Z**

**Quality System Certificate No: TI151 ISO 9001:2015**