



AMERICAN BUREAU OF SHIPPING

Customer Name	SKIPPER ELECTRONICS A/S	Purchase Order No.	84645
Attending Office	Oslo	Report Number	OS2209710-A
First Visit Date	28-Sep-2012	Last Visit Date	28-Sep-2012

Certification Of: Ship Side Valve Quantity: Six (6)
Manufacturer: SKIPPER ELECTRONICS A/S

Survey Location : Oslo, Norway

Equipment Data

Destination Vessel (Name)
Destination Vessel (Class Number)
Designer Name SKIPPER ELECTRONICS A/S

Design Details

Design State Product Design Assessed
ABS Reviewing Organization London Engineering Department
Drawing Number 07-LD231781/1-PDA

Additional Data

One (1) Valve 60mm for Echosounder Transducer Installation

Manufacturer Number(S. No.) 12296
Model No. SB-60-SA
ABS Stamping * OS2209710
Valve Size 60
Valve Material Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED
Design Pressure 5 bar

One (1) Valve 60mm for Echosounder Transducer Installation

Manufacturer Number(S. No.) 12294
Model No. SB-60-SA
ABS Stamping * OS2209710
Valve Size 60
Valve Material Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED
Design Pressure 5 bar

One (1) Valve 60mm for Echosounder Transducer Installation

Manufacturer Number(S. No.) 12295
Model No. SB-60-SA
ABS Stamping * OS2209710
Valve Size 60
Valve Material Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED
Design Pressure 5 bar

One (1) Valve 100mm for Echosounder Transducer Installation

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Manufacturer Number(S. No.) 12291
Model No. SB-100-SB
ABS Stamping * OS2209710
Valve Size 100
Valve Material Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED
Design Pressure 5 bar

**One (1) Valve 100mm for Echosounder
Transducer Installation**

Manufacturer Number(S. No.) 12293
Model No. SB-100-SB
ABS Stamping * OS2209710
Valve Size 100
Valve Material Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED
Design Pressure 5 bar

**One (1) Valve 100mm for Echosounder
Transducer Installation**

Manufacturer Number(S. No.) 12292
Model No. SB-100-SB
ABS Stamping * OS2209710
Valve Size 100
Valve Material Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED
Design Pressure 5 bar

This is to Certify that the undersigned surveyor(s) to this Bureau did, at the request of the customer, carry out the following survey and report as follows:

Hydrostatic pressure test was carried out at 5 bar with open and closed valve, no leakages or plastic deformation were noted.

Traceability of materials used on this project has been verified.

The principal data has been verified in accordance with the applicable Rules/specifications and approved plans, and confirmed to be within acceptable tolerances.

All testing (pressure/load/operational/etc.) has been carried out as applicable and verified in accordance with the applicable Rules/specifications.

Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.

Manufacturer confirmed the product does not contain asbestos through Asbestos Free Declarations and/or supporting documents.

Manufacturer test records and/or mill certificates were confirmed to comply with specification.

Final markings for identification confirmed.

**Surveyor(s) to The American Bureau of Shipping
Attending Surveyors**

Silvestro Francesco

Electronically Signed on 04-Dec-2012

Reviewed By
Fuglei, Tor Brodde

Electronically Signed on 12-Dec-2012, Oslo Port

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AMERICAN BUREAU OF SHIPPING

Customer Name **SKIPPER ELECTRONICS A/S**
Attending Office **Oslo**
First Visit Date **28-Sep-2012**

Purchase Order No. **84645**
Report Number **OS2209710-B**
Last Visit Date **28-Sep-2012**

Certification Of: Pipe Quantity: Two (2)
Manufacturer: SKIPPER ELECTRONICS A/S

Survey Location : Oslo, Norway

Equipment Data

Destination Vessel (Name)
Destination Vessel (Class Number)
Designer Name **SKIPPER ELECTRONICS A/S**

Design Details

Design State **Product Design Assessed**
ABS Reviewing Organization **London Engineering Department**
Drawing Number **07-LD231781/1-PDA**

Additional Data

One (1) Set of three (3) Intermediate Elements 60mm for Echosounder Transducer Installation

Manufacturer Number(S. No.) **37598**
Model No. **Flanged Intermediate Element 60 mm**
ABS Stamping *** OS2209710**
Diameter **60 mm**
Material **Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED**
Test Pressure **5 bar**

One (1) Set of three (3) Intermediate Elements 100mm for Echosounder Transducer Installation

Manufacturer Number(S. No.) **C1256**
Model No. **Flanged Intermediate Element 100 mm**
ABS Stamping *** OS2209710**
Diameter **100 mm**
Material **Stainless Steel - High Strength Steel - NOT SPECIFIED - NOT SPECIFIED**
Test Pressure **5 bar**

This is to Certify that the undersigned surveyor(s) to this Bureau did, at the request of the customer, carry out the following survey and report as follows:

Hydrostatic pressure test of intermediate element connected to the valve flange was carried out at 5 bar, no leakages or plastic deformation were noted.

Traceability of materials used on this project has been verified.

The principal data has been verified in accordance with the applicable Rules/specifications and approved plans, and confirmed to be within acceptable tolerances.

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All testing (pressure/load/operational/etc.) has been carried out as applicable and verified in accordance with the applicable Rules/specifications.

Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.

Manufacturer confirmed the product does not contain asbestos through Asbestos Free Declarations and/or supporting documents.

Manufacturer test records and/or mill certificates were confirmed to comply with specification.

Final markings for identification confirmed.

**Surveyor(s) to The American Bureau of Shipping
Attending Surveyors**

Silvestro Francesco

Electronically Signed on 04-Dec-2012

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Fuglei, Tor Brodde

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