

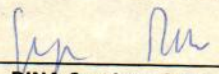


TYPE APPROVAL CERTIFICATE
No. MAC083215XG/002

This is to certify that the product identified below is in compliance with the regulations herewith specified.

<i>Description</i>	AIR PIPE AUTOMATIC CLOSING DEVICES
<i>Type</i>	Liquid Mud Valve LMD
<i>Applicant</i>	WINTEB B.V. PARALLELWEG 1 9672 AW WINSCHOTEN NETHERLANDS
<i>Manufacturer</i>	WINTEB B.V.
<i>Place of manufacture</i>	PARALLELWEG 1 9672 AW WINSCHOTEN NETHERLANDS
<i>Reference standards</i>	Par 9.1, Sec 10, Ch 1, Pt C of RINA Rules for the Classification of Ships and RINA Rules for the Type Approval and Testing of Air Pipe Automatic Closing Devices, ed 2009.
<i>Reference documents</i>	RINA TYPE APPROVAL SYSTEM

Issued in **HAMBURG** on **June 24, 2015**. This Certificate is valid until **June 23, 2020**


RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure



TYPE APPROVAL CERTIFICATE

No. **MAC083215XG/002**

Enclosure - Page 1 of 1

Liquid Mud Valve LMD

Product Description

Float Check valve to be used in-line with an approved Air Vent Head in liquid mud systems manufactured by WINTEB WIN2000 & WIN 2000 HIAS

Reference documents

Manufacturer's drawings:

- LMV Assembly Drawing Approved with HMMC 5639 on 24 June 2015

Test reports:

- Hochschule Bremen-Test report no. Winteb 2012/02, dated 25/07/2012

Materials/Components

- As per the above mentioned approved drawings.

Technical characteristics

LMV	Tensile Force [Kg]	Opening Pressure [bar]
DN125	11	0.1
DN150	32	0.2
DN200	34	0.1
DN250	38	0.1

Fields of application

- As per Product Description

Remarks

For Approved Air Vent Head see RINA Type Approval Certificate MAC083215XG/001.

HAMBURG June 24, 2015



Handwritten signature in blue ink.