



CERTIFICATE NUMBER 19-HS1935115-1-PDA -EUMR-DE

EFFECTIVE DATE 25-FEB-2021

EXPIRATION DATE 04-DEC-2024

ABS TECHNICAL OFFICE Houston ESD - Piping

## CERTIFICATE OF

# European Union Recognized Organization (EU RO) Mutual Recognition Design Evaluation (in accordance with Article 10.1 of EU Regulation 391/2009)

This is to certify to the Manufacturer named below, that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognized Organization Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements.

## **ROBERT H. WAGER CO.**

who maintains a plant at

**570 Montroyal Road, Rural Hall, NC, United States 27045**

**Product Vent, Check Valve**

**Model 1500-MV**

This certificate, by itself does not reflect that the product is Type Approved. The scope and limitations of this evaluation are detailed on the pages attached to this certificate.

When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations", the following organizations, recognized by the EU on this date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate:

- American Bureau of Shipping (ABS);
- Bureau Veritas (BV);
- China Classification Society (CCS);
- Croatian Register of Shipping (CRS);
- DNV GL;

NOTE: This certificate evidences compliance with one or more of the ABS Rules and the EU Regulations 391/2009. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product or manufacturing process without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules and Conditions of the request for EU Product Type Approval and Agreement.



- Indian Register of Shipping (IRS);
- Korean Register (KR);
- Lloyd's Register Group Ltd. (LR);
- Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK);
- Polish Register of Shipping (PRS);
- RINA Services S.p.A. (RINA);
- Russian Maritime Register of Shipping (RS).

The scheme for the mutual recognition of class certificates for materials, equipment and components laid down by Article 10(1) of Regulation (EC) No 391/2009 is only enforceable within the Union in respect of ships flying the flag of a Member State. As far as foreign vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS). (In accordance with COMMISSION IMPLEMENTING REGULATION (EU) No 1355/2014 amending Regulation (EC) No 391/2009 - recital (25)).

This EU RO Mutual Recognition Design Evaluation Certificate remains valid until 04-DEC-2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

American Bureau of Shipping

*Yongjin Lee*

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Yongjin Lee, Sr. Managing Principal Engineer

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**Product:** Vent, Check Valve

**Model:** 1500-MV

**Intended Service:** Vent Outlet Automatic Closing and Overfill Preventive Device

**Description:**

The 1500-1 vertical vent check valve is used in line with the 1500-MV mud overflow valve and is designed for tanks that carry liquid mud. The mud valve prevents liquid mud from rising into the upper vertical vent check valve by forcing the liquid mud through a spring loaded door on the front of the valve.

**Rating:** Sizes 4", 5", 6", 8" and 10"

**Service Restrictions:**

- Onboard ships with exceptions as per Article 5 of International Convention on Load Lines (ICLL).
- EU RO Mutual Recognition Technical Requirements for Air Pipe Automatic Closing Device apply to automatic closing devices of air pipes intended for the water tank or oil tank except cargo tank extending above the freeboard or superstructure decks", as per Reg.20 of ICLL. Flame arresting function is excluded from the scope of this requirements. If the device is fitted with a flame screen, the flame screen is subject to separate approval by the individual RO classing the vessel.
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- Manufacturers of the approved equipment are, in principle, to mark the product before shipment for identification of approved equipment as per referenced standard. In addition, and as a minimum, the following items to be marked at the suitable place:
  - a) Manufacturer's name or logo
  - b) Type designation;
  - c) Nominal Diameter;
  - d) Resistance coefficient;
  - e) Intended for the water tank or oil tank.

**Notes/Drawing/Documentation:**

Drawing No. 1500-MV, Vent Check Valve,  
Drawing No. 10-1300FSG-MV, 10-1300 Mud Overflow,  
Drawing No. 10-1500-MV, 10-1500-MV,  
Test Report No. 10-1500-MV-PD, Pressure Drop Test Report, Revision: A,  
Test Report No. 10-1500-MV-RF, Vacuum Test Report,  
Test Report No. 10-1500-MV-TT, Vacuum Test Report, Revision: C,  
Drawing No. 10-1500FSS-1, 10-1500-316SS Vertical Vent Check Valve,  
Drawing No. 4-1300FSG-MV, 4 1300 Mud Overflow,  
Drawing No. 4-1500-MV, 4 1500 MV,  
Test Report No. 4-1500-MV-PD, Pressure Drop Test Report, Revision: A,  
Test Report No. 4-1500-MV-RF, Vacuum Test Report,  
Test Report No. 4-1500-MV-TT, Tightness Test Report, Revision: C,  
Drawing No. 4-1500FSS-1, 4 1500 Flanged 316SS Vertical Vent Valve,  
Drawing No. 5-1300FSG-MV, 5 1300 Mud Overflow,  
Drawing No. 5-1500-MV, 5-1500-MV,

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Test Report No. 5-1500-MV-PD, Pressure Drop Test Report, Revision: A,  
Test Report No. 5-1500-MV-RF, Vacuum Test Report,  
Test Report No. 5-1500-MV-TT, Tightness Test Report, Revision: C,  
Drawing No. 5-1500FSS-1, 5-1500 Vertical Vent Flanged Valve,  
Drawing No. 6-1300FSG-MV, 6-1300 Mud Overflow,  
Drawing No. 6-1500-MV, 6-1500MV,  
Test Report No. 6-1500-MV-PD, Pressure Drop Test Report, Revision: A,  
Test Report No. 6-1500-MV-RF, Vacuum Test Report,  
Test Report No. 6-1500-MV-TT, Tightness Test Report, Revision: C,  
Drawing No. 6-1500FSS-1, 6-1500 316SS Flanged Vertical Vent Valve,  
Drawing No. 8-1300FSG-MV, 8-1300 Mud Overflow,  
Drawing No. 8-1500-MV, 8-1500-MV,  
Test Report No. 8-1500-MV-PD, Pressure Drop Test Report, Revision: A,  
Test Report No. 8-1500-MV-RF, Vacuum Test Report,  
Test Report No. 8-1500-MV-TT, Tightness Test Report, Revision: C,  
Drawing No. 8-1500FSS-1, 8-1500 316SS Vertical Vent Valve,  
Test Report No. FLT-12-SS, Impact Test Report, Revision: A,  
Test Report No. FLT-12SS, 12 Full Stainless steel Ball Float,  
Drawing No. FLT-5SS, 5 Ball Float,  
Test Report No. FLT-6-SS, Impact Test Report, Revision: A,  
Drawing No. FLT-6SS, 6 Full Stainless Ball Float,  
Test Report No. FLT-7-SS, Impact Test Report,  
Drawing No. FLT-7SS, Full Stainless Steel Ball Float,  
Test Report No. FLT-9-SS, Impact Test Report, Revision: A,  
Drawing No. FLT-9SS, 9 Full Stainless Steel Ball Float,  
Test Report No. WI-Impact Test-01 (Impact Test) Rev B, Impact Test Instruction, Revision: B,  
Test Report No. WI-PD Test-01 (Pressure Drop Test) Rev B, Pressure Drop Test Instruction,  
Test Report No. WI-Tightness Test-01 (Tightness Test) Rev C, Tightness Test Instruction,  
Drawing No. WI-Vacuum Test-01, Vacuum Test Instruction, Revision: B,

#### **Rules and Standards**

EU RO Mutual Recognition Technical Requirements for Air Pipe Automatic Closing Device, Version 0.4, dated 2018-07-01.

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