



CERTIFICATE NUMBER  
18-HS1788815-PDA

DATE  
23 Oct 2018

ABS TECHNICAL OFFICE  
Houston ESD - Piping

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## CERTIFICATE OF Design Assessment

This is to certify that a representative of this Bureau did, at the request of

### **ROBERT H. WAGER CO., INC.**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Valve, Inverted Vent Check**

Model: **1700 / 1750**

This Product Design Assessment (PDA) Certificate 18-HS1788815-PDA, dated 23/Oct/2018 remains valid until 22/Oct/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

*Dustin De Los Santos*

Dustin De Los Santos

Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product 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 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

**ROBERT H. WAGER CO.**

570 MONTROYAL ROAD

Rural Hall NC

United States 27045

Telephone: 336-969-6909

Fax: 336-969-6375

Email: mwagerjr@wagerusa.com

Web: www.wagerusa.com

**Tier: 3 - Type Approved, unit certification not required**

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**Product:** Valve, Inverted Vent Check

**Model:** 1700 / 1750

**Intended Service:**

Marine & Offshore Application - Automatic Closing Tank Vent Valves.

**Description:**

Inverted Vent Check Valves and Ballast Float Valves for Tanks.

**Rating:**

Sizes 1.5", 2", 2.5", 3", 4", 5", 6", 8", 12", 10", 14", 16"

**Service Restriction:**

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

**Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**

Dwg No. 1.5-1700, Rev.-, Inverted Vent Check Valve - 1.5";

Dwg No. 2-1700, Rev.-, Inverted Vent Check Valve

Dwg No. 2.5-1700, Rev.-, Inverted Vent Check Valve - 2.5

Dwg No. 3-1700, Rev.-, Inverted Vent Check Valve - 3

Dwg No. 4-1700, Rev.-, Inverted Vent Check Valve - 4";

Dwg No. 5-1700, Rev.-, Inverted Vent Check Valve - 5";

Dwg No. 6-1700, Rev.-, Inverted Vent Check Valve - 6

Dwg No. 8-1700, Rev.-, Inverted Vent Check Valve - 8

Dwg No. 10-1700, Rev.-, Inverted Vent Check Valve - 10";

Dwg No. 12-1700, Rev.-, IVC, 12

Dwg No. 14-1700, Rev.-, Inverted Vent Check Valve - 14";

Dwg No. 16-1700, Rev.-, Inverted Vent Check Valve - 16";

Impact Test Reports FLT-X-SS-X, Robert H Wager Co., Inc., Date: October 2013

Tightness Test Reports X-1700-SS-001, Robert H Wager Co., Inc., Date: September 2013

Pressure Drop Test Reports X-1700-SS-001, Robert H Wager Co., Inc., Date: October 2013

Vacuum Test Reports X-1700, Robert H Wager Co., Inc., Date: October 2014 to May 2016

**Terms of Validity:**

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**STANDARDS**

**ABS Rules:**

ABS Rules for Conditions of Classification (2018) 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:  
2018 Steel Vessels Rules 4-6-4/9.3.5 (a), 4-6-4/9.3.7

ABS Rules for Conditions of Classification (2018) – Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2018 MODU Rules 4-2-3/1.9.5

**National:**

NA

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

Manufacturer's Specifications