



CERTIFICATE NUMBER
14-HS1293751-1-PDA

DATE
13 Jul 2017

ABS TECHNICAL OFFICE
Houston ESD - Piping

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of
PBM, 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, Ball 2 - Way Ball Valves**

Model: **SP Series 1, AN Series 1, SP Series 5**

This Product Design Assessment (PDA) Certificate 14-HS1293751-1-PDA, dated 13/Jul/2017 remains valid until 05/Jan/2020 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

Tim Kimble
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).

PBM

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Web: www.pbmvalve.com

Tier: 2 - PDA Issued

Product: Valve, Ball 2 - Way Ball Valves**Model:** SP Series 1, AN Series 1, SP Series 5**Intended Service:**

Marine and Offshore Applications

Description:

ASME Class 150 and 300, 2 way ball valves - SP Series 1, 1/4" to 4"; AN Series 1, 1/2" to 10"; SP Series 5, 1/4" to 6"; including all ASME B16.34 materials as well as ASTM alloys C83600, C92200, (MSS SP 72), C95300, C95400, C95500, or C95800 (manufacturer's standard only).

Rating:

Ratings are to be as specified in standards MSS SP 72 or ASME B16.34 for those valves constructed in accordance with those standards (see description above) - NOTE: valves constructed to Manufacturer's standard, at the rating given by the manufacturer, may only be used in ABS class III systems. SP Series MAWP: 900 psi (limited based on valve size, valve material, and end fitting type) AN Series 1 MAWP: 285 psi (limited based on valve size, valve material, and end fitting type); MDMT: -40 degrees F.

Service Restriction:

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

Valves constructed to the manufacturer's standard and at the manufacturer's ratings, may only be used in ABS Class III Systems. Valve end connections to be in accordance with the "Pipe Joint Limitations" tables for specific systems.

Comments:

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

Marking of valves constructed to ASME B16.34 or MSS SP 72 are to be in accordance with those standards.

Notes/Drawing/Documentation:

Drawing No. 14-HS1293751-PDA (ABS Application), ABS Application Request Revision for 14-HS1293751-PDA

Drawing No. 14-HS1293751-PDA (Confirmation of Product Type Approval), Product Type Approval Certificate for 2-Way Ball Valves (SP Series 1, AN Series 1, SP Series 5)

Drawing No. Correspondence, Email 28-Jun-2017 SUBJ: PDA Revision of Cert 14-HS1293751-PDA

Drawing No. RP-1601-1, USCG Category "A" Seat Leakage Calculations (AN Series 1), Pages: 7

Drawing No. RP-1504-3, USCG Category "A" Seat Leakage Testing (AN Series 5), Pages: 12

Supporting Documentation (previous task: T1293751)

Drawing No. ANB-H1L3V--K04, 2 2-Way 836 Bronze Ball Valve with Non-Adjust -O-Seal Design, 150# F.F.

Flange Connections, RTFE Seat, Revision: 0, Page: 1

Drawing No. Correspondence, Incoming Letter, Pages: 1

Drawing No. Correspondence, Purchase Order 43539, Pages: 1

Drawing No. SPB-H5Q-A--S, 2" SPB-H5 Manual 2-Way Ball Valve with Female N.P.T. connections, RTFE Seats & Seals, Monel Ball, Stem, Revision: 0, Page: 1

Drawing No. SPN1H1U8A--L, 2" SPN-HI, 2 Way Ball Valve with Socket Weld for Pipe End Connections, 922 Bronze Body, 90/10 Cu/Ni En, Revision: 0, Page: 1

Terms of Validity:

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STANDARDS**ABS Rules:**

Rules for Conditions of Classification, Part 1 - 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2015 Steel Vessels 4-6-1/7.1, 4-6-2/3, and 4-6-2/5.11;

Rules for Conditions of Classification, Part 1 - 2015 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2015 Mobile Offshore Drilling Units 4-2-2/9, 4-2-2/17.

National:

ASME B16.34 (2013) (where applicable to specific Model and Material) MSS SP 72 (2010) (where applicable to specific Model and Material);

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

Manufacturer's standard (for valves constructed of ASTM C95300, C95400, C95500, or C95800.)