



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

21-2112059-PDA
29-Apr-2021
28-Apr-2026
Houston SED - Commercial,
Existing Vessels

CERTIFICATE OF Product Design Assessment

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

UNIVERSAL MOTION COMPONENTS., CO INC

located at

2920 AIRWAY AVE, , COSTA MESA, CA, United States, 92626

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: Hatch Cover
Model: BFHQ, BFHHQ and BFHLP
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 28/Apr/2026 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).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Suresh K Pisini

Suresh Kumar Pisini, 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 ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

UNIVERSAL MOTION COMPONENTS., CO INC

2920 AIRWAY AVE

COSTA MESA CA

United States 92626

Telephone:

Fax:

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Web:

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Product: Hatch Cover
Model: BFHQ, BFHHQ and BFHLP
Endorsements:

Intended Service:

Marine & Offshore Application - For Quick Acting Watertight Hatch Assemblies.

Description:

BFH Quick Acting Watertight Round, Square and Oval Aluminum Hatches, with a 4-dog, center cam actuation by a Quick Acting T-Handle. Covers are of Cast Aluminum, and Deck Rings are of Cast Steel or Cast Aluminum. V-Groove gasket forms a Watertight Seal between the Deck Ring and Hatch Cover Edge Ring. BFHQ, BFHHQ, and BFHLP clear openings are 20" round, 15" x 24" oval and 24"x24" square. Cover configuration is either lift-out, low profile or hinged.

Rating:

Load Rating in Head of Water (top side of Hatch only):

20" Round, Aluminum Cover (28 ft, 8.53 m);

15"x24" Oval, Aluminum Cover (28 ft, 8.53 m);

24"x24" Square, Aluminum Cover (20 ft, 6.09 m).

Service Restriction:

1. 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.

2. This product is NOT to be installed on the exposed fore deck of vessels over 80 meter (263 ft) in length L (L is the scantling length of a ship), within the forward 0.25L, where the deck in way of the hatch is less than 0.1L or 22 meter (72.2 ft) above the summer load line, whichever is less, as per ABS Marine Vessels Rules 3-2-15/13. Aluminum covers are not allowed on cargo decks as per ABS Marine Vessels Rules 3-2-15/7.1. These hatches are NOT for use in watertight bulkheads, internal decks and external openings below damage waterline (see Marine Vessels Rules 3-2-9, 3-2-15/17). When installing a Hatch, consideration is to be given to preventing corrosion arising from using dissimilar metals. Hatch covers are tested as per 3-7-1/Table 1/16 of Marine Vessels Rules, upon installation. Aluminum casting material tests to be in accordance with ABS Rules for Materials and Welding 2-5-10. Steel casting material tests to be in accordance with ABS Rules for Materials and Welding 2-1-5.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. For each installation, drawings are to be submitted for review for verification that the cover Scantlings, Coaming Heights, Materials and Arrangements, including closing arrangements are acceptable for the proposed location. Deck mounting Ring is to be welded on both sides to the Structure in which the Hatch is installed. Hatch installation and operation to be in accordance with the Manufacturer's Instructions.

Notes/Drawing/Documentation:

Drawing No. 04-01-2021, Baier Marine - Declaration of Conformity, Revision: -, Pages: 1

Terms of Validity:

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STANDARDS

ABS Rules:

2021 ABS Rules for Conditions of Classification, 1-1-4/7.7, 1-1-A3, 1-1-A4

2021 ABS Rules for Conditions of Classification – Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following

2021 ABS Marine Vessel Rules 3-2-15/21.1

2021 ABS Rules for Building and Classing Mobile Offshore Units 3-3-2/5.3

2021 ABS Materials and Welding Rules 2-5-5

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA

Documents List

Drawing No.	Rev. No.	Title	Status
08863-104A	C	HATCH ASSY 20IN QA-AL-HINGED	Approved (From Original PDA Task 731543)
08863-104B	B	HATCH ASSY QA-AL-HINGED 20IN QA-AL-HINGED	Approved (From Original PDA Task 731543)
08863-115A	A	HATCH ASSY 15x24 QA HINGE AL	Approved (From Original PDA Task 731543)
08863-115B	A	HATCH ASSY 15x25 QA HINGE AL	Approved (From Original PDA Task 731543)
08864-101A	F	HATCH ASSY QA 15x24 AL-AL	Approved (From Original PDA Task 731543)
08864-101B	D	HATCH ASSY QA 15x24 STL	Approved (From Original PDA Task 731543)
08864-105A	F	HATCH ASSY QA 20 QA-AL-DR	Approved (From Original PDA Task 731543)
08864-105B	E	HATCH ASSY 20 QA ALUM-STL	Approved (From Original PDA Task 731543)
08864-110A	C	COVER ASSY, CAM TYPE F	Approved (From Original PDA Task 731543)
08864-151A	B	HATCH ASSY, LOW-PRO	Approved (From Original PDA Task 731543)
08864-151B	B	HATCH ASSY, LOW-PRO	Approved (From Original PDA Task 731543)
08864-161A	A	HATCH ASSY, 20 LP-ALUM	Approved (From Original PDA Task 731543)
08864-161B	A	HATCH ASSY, 20 LP-QA	Approved (From Original PDA Task 731543)

Electronic copies of the documents, appropriately stamped, are available in the ABS Client Portal.