



CERTIFICATE NUMBER 26-0537396-PDA
EFFECTIVE DATE 09-Apr-2026
EXPIRY DATE 08-Apr-2031
ABS TECHNICAL OFFICE Houston SED - Load Line / Stability

CERTIFICATE OF Product Design Assessment

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

UNIVERSAL MOTION COMPONENTS CO., LLC

located at

2920 AIRWAY AVE, , COSTA MESA, CA, United States, 92626-6008

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: BMHC18X24BZ, BMHC18X24X2.5BZ
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 08/Apr/2031 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

Subramani Raguathan, Manager

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., LLC

2920 AIRWAY AVE

COSTA MESA CA

United States 92626-6008

Telephone: 714-437-9600

Fax:

Email: rcall@umcproducts.com

Web: <https://universalmotioncomponents.com>

Tier: 2 - PDA Issued

Product: Hatch Cover
Model: BMHC18X24BZ, BMHC18X24X2.5BZ
Endorsements:

Intended Service:
Watertight Hatch for Marine Vessels

Description:
18" x 24" Oval Bolted Manhole is fabricated from A-36 Grade Steel, Buna-N Gasket fitted between Hatch Cover and Deck Ring.

Rating:
See attached "pdf" for model details.

Service Restriction:

1. Unit Certification is not required for this product.
2. 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.
3. The hatch cover scantlings were reviewed for the pressure head, as indicated in the Ratings section. For each installation, drawings are to be submitted for review for verification that the materials, arrangements and coaming height and thickness, including closing arrangements are acceptable for the proposed location.
4. These fittings are difficult to maintain gastight, and are not to be in cargo or fuel tanks where lack of gastight seal possess a serious hazard.
5. This Product is not to be used as a Means of Escape or on fire-rated boundaries.
6. The hatches are not to be installed below the freeboard deck.
7. The hatches are not to be installed on watertight subdivision boundaries.
8. This Product is not to be used for Small Hatches on the Exposed Fore Deck (MVR 3-2-15/13).
9. The covers are to be tested upon installation as per 3-7-1/Table 1 of Marine Vessel Rules 2026.

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

Notes/Drawing/Documentation:
Dwg. No. 02580-101A Rev. E. HATCH RAISED 18 X 24, 20" DF-502
Dwg. No. 02600-101A Rev. G. HATCH FLUSH 18 X 24, 20" (504)

Terms of Validity:
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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.

STANDARDS

UNIVERSAL MOTION COMPONENTS CO., LLC

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ABS Rules:

2026 ABS Rules for Conditions of Classification, 1-1-4/7.7, 1-1-A3, 1-1-A4

2026 Marine Vessel Rules 3-2-15/21.1, 3-2-9/5.1, 3-2-10/3.1, 3-2-15/3.3, 3-2-15/10

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA

Company Name	UNIVERSAL MOTION COMPONENTS CO., LLC
Model Number	BMHC18X24BZ, BMHC18X24X2.5BZ
PDA Number	26-0537396-PDA
Issuance date	7 April 2026
Expiration date	6 April 2031
Revision number	0

Baier Marine Company Inc.
BMC 18" X 24" BOLTED MANHOLE

Model Number: BMHC18X24BZ, BMHC18X24X

Table indicating description, model number, drawing number, revision, plate thickness and maximum hydrostatic head:

Description		Model Number	Drawing Number	Rev.	Plate Thickness (mm)	Maximum Hydrostatic Head (m)
18 x 24 Series	18"x24" (24 Bolt Flush)	BMHC18X24BZ	02600-101A	G	10	9
	18"x24" (24 Bolt Raised)	BMHC18X24X	02580-101A	E	10	9

Material Grade: A-36