



CERTIFICATE NUMBER 26-0546057-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: BMHC15X23 Variants include: BMHC15X23BZ, BMHC15X23DD, BMHC15X23BS, BMHC15X23D, BMHC15X23F, BMHC15X23H, BMHC15X23S, BMHC15X23Z, BMHC15X23-26F, BMHC15X23-26D
Raised: BMHC15X23X2.5BZ,...
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 Ragunathan, 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: BMHC15X23 Variants include: BMHC15X23BZ, BMHC15X23DD, BMHC15X23BS, BMHC15X23D, BMHC15X23F, BMHC15X23H, BMHC15X23S, BMHC15X23Z, BMHC15X23-26F, BMHC15X23-26D Raised: BMHC15X23X2.5BZ, BMHC15X23X2.5BSDD, BMHC15X23X4BS

Endorsements:

Intended Service:

Watertight Hatch for Marine Vessels

Description:

15" x 23" Oval Bolted Manhole fabricated from A-36 Grade Steel, 304 Stainless Steel or HR-1020 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. 08866-101BZ Rev. D. BAIER MAN HOLE COVER 15 X 23, BZ
- Dwg. No. 02590-103S Rev. B. HATCH ASSY, FLUSH HEX BIT SS HW 15 X 23 ALL STAINLESS
- Dwg. No. 08866-101BS Rev. C. BAIER MAN HOLE COVER 15 X 23, BS
- Dwg. No. 08866-101D Rev. D. BAIER MAN HOLE COVER 15 X 23, D
- Dwg. No. 08866-101F Rev. D. BAIER MAN HOLE COVER 15 X 23, FLUSH
- Dwg. No. 08866-101H Rev. A. BAIER MAN HOLE COVER 15 X 23, Z
- Dwg. No. 08866-101S Rev. E. BAIER MAN HOLE COVER 15 X 23, W/ STUDS
- Dwg. No. 08866-101Z Rev. E. BAIER MAN HOLE COVER 15 X 23, Z
- Dwg. No. 02610-101A Rev. F. HATCH FLUSH BOLTED 15 X 23 (DF 505)
- Dwg. No. 02590-102SA Rev. C. HATCH ASSY, FLUSH HEX BIT SS HW 15 X 23 - 26 BOLT
- Dwg. No. 02570-101A Rev. F. HATCH, RAISED (501)
- Dwg. No. 02570-101S Rev. B. HATCH RAISED 4 IN St. Steel 15 X 23 (501)
- Dwg. No. 02570-105A Rev. B. HATCH ASSY, RAISED BOLTED 15 X 23 SS HW

Terms of Validity:

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Tier: 2 - PDA Issued

Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

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STANDARDS

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	BAIER MARINE COMPANY, INC.
Model Number	BMHC15X23 Variants include: BMHC15X23BZ, BMHC15X23DD, BMHC15X23BS, BMHC15X23D, BMHC15X23F, BMHC15X23H, BMHC15X23S, BMHC15X23Z, BMHC15X23-26F, BMHC15X23-26D Raised: BMHC15X23X2.5BZ, BMHC15X23X2.5BSDD, BMHC15X23X4BS
PDA Number	21-2112060-PDA
Issuance date	27 May 2021
Expiration date	26 May 2026
Revision number	0

Baier Marine Company Inc.
BMC 15" X 23" Bolted Manhole

Model Number: BMHC15X23 Variants include: BMHC15X23BZ, BMHC15X23DD, BMHC15X23BS, BMHC15X23D, BMHC15X23F, BMHC15X23H, BMHC15X23S, BMHC15X23Z, BMHC15X23-26F, BMHC15X23-26D Raised: BMHC15X23X2.5BZ, BMHC15X23X2.5BSDD, BMHC15X23X4BS

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

Description		Model Number	Drawing Number	Rev.	Material Grade	Plate Thickness (mm)	Maximum Hydrostatic Head (m)
15 x 23 Series	15"x23" (20 Bolt Flush)	BMHC15X23BZ	08866-101BZ	D	HR-1020 (34 Ksi)	10	8.5
		BMHC15X23DD	02590-103S	B	304 Stainless Steel	10	7
		BMHC15X23BS	08866-101BS	C	HR-1020 (34 Ksi)	10	8.5
		BMHC15X23D	08866101D	D	HR-1020 (34 Ksi)	10	8.5
		BMHC15X23F	08866-101F	D	HR-1020 (34 Ksi)	10	8.5
		BMHC15X23H	08866-101H	A	HR-1020 (34 Ksi)	10	8.5
		BMHC15X23S	08866-101S	E	HR-1020 (34 Ksi)	10	8.5
		BMHC15X23Z	08866-101Z	E	HR-1020 (34 Ksi)	10	8.5
	15"x23" (26 Bolt Flush)	BMHC15X23-26F	02610-101A	F	A-36	13	10
		BMHC15X23-26D	02590-102SA	C	HR-1020 (34 Ksi)	10	8.5
	15"x23" (20 Bolt Raised)	BMHC15X23X2.5BZ	02570-101A	F	HR-1020 (34 Ksi)	10	8.5
		BMHC15X23X2.5BSDD	02570-101S	B	304 Stainless Steel	10	7
		BMHC15X23X4BS	02570-105A	B	HR-1020 (34 Ksi)	10	8.5