



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

25-0170184-PDA
19-Mar-2025
18-Mar-2030
Houston ESD - Offshore
Equipment

CERTIFICATE OF Product Design Assessment

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

YORK PRECISION MACHINING & HYDRAULICS, LLC

located at

706 WILLOW SPRINGS LANE, , YORK, PA, United States, 17406

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: Actuator, Hydraulic
Model: Linear BEAR-LOC® Actuators, Linear BEAR-LOC® Units, Linear BEAR-LOC® Piston Locks, and Rotary BEAR-LOC® Units.
Endorsements:
Other Endorsement: N/A
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 18/Mar/2030 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

Mohamed C Boukamcha

Mohamed C Boukamcha,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)

YORK PRECISION MACHINING & HYDRAULICS, LLC

706 WILLOW SPRINGS LANE

YORK PA

United States 17406

Telephone: (717) 764-8855

Fax:

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Web: <https://yorkpmh.com>

Tier: 2 - PDA Issued

Product: Actuator, Hydraulic
Model: Linear BEAR-LOC® Actuators, Linear BEAR-LOC® Units, Linear BEAR-LOC® Piston Locks, and Rotary BEAR-LOC® Units.

Endorsements:

Other Endorsement: N/A

Intended Service:

Marine and Offshore Applications

Description:

Bear-Loc® is a fail-safe, infinite positioning, hydraulic rod locking device for hydraulic lifting and load-holding.

Rating:

Load Capacity: 880 lbs to 4,000,000 lbs

Rod Diameter: 1" - 20"

Bore Diameter: 1.5" - 40"

Stroke: up to 184"

Service Restriction:

Unit Certification is not required for this product, except for the propulsion, maneuvering and mooring System where the failure of the locking system affects the safety of the vessel/platform.

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.

Bear Loc® Load Capacity is the minimum load capacity that the lock is to be designed to hold times the required safety factor for that loading. The safety factor is to be determined per an applicable standard for the application.

Bear Loc® is to be load tested to the Bear Loc® Load Capacity after the Bear Loc® is built.

Comments:

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

Notes/Drawing/Documentation:

Drawing No. PDADOC-1, Bear Loc® Standard Sizes Brochure, Revision: -, Pages: 4

Drawing No. PDAAPP-1, PDA Type Approval Request, Revision: -, Pages: 4

Drawing No. ABS-Bear-Loc-Calc, Bear Loc® Design Methodology and Calculations, Revision: -, Pages: 27

Terms of Validity:

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STANDARDS

YORK PRECISION MACHINING & HYDRAULICS, LLC

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YORK PA

United States 17406

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Fax:

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ABS Rules:

2025 Rules for Conditions of Classification, Part 1A-1-4/7.7, 1A-1-A3, 1A-1-A4

2025 Rules for Conditions of Classification - Offshore Units and Structures 1B-1-4/9.7, 1B-1-A2, 1B-1-A3

National:

N/A

International:

N/A

Government:

N/A

EUMED:

N/A

OTHERS:

N/A