



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 03-MAR-2024. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Pump
Model Name(s): XL 1.25 " to 4" Series

Presented to:

BLACKMER, A DOVER RESOURCES COMPANY
1809 CENTRY AVENUE
MI 49509
United States

Intended Service: Marine & Offshore Application - Transfer and Stripping Pumps for AFFF (Foam), Clean Distillate and Heavy Fuels, Lubes, Oil, Dirty Distillate and Heavy Oils.

Description: Sliding Vane Pumps constructed with Ductile Iron (ASTM 536, 18% Elongation).

Tier: 5

Ratings: Series XL: Maximum Working Pressure: 350 psi (24.1 bar) Maximum Differential Pressure: 150 psi (10.3 bar) Maximum Temperature: 300°F (148 °C) with FKM or PTFE O-rings Performance Data: Capacity to 17 to 187 GPM Speed (RPM): 350 to 1800 RPM Power (HP): 1.2 to 15 HP Maximum Operating Limits: 17 to 345 GPM Pump Speed: 1800 to 640 RPM See "pdf" attachment for Performance Curves

Service Restrictions: Unit Certification is required for this product if the pumps are used for services listed in Marine Vessels Rules 4-6-1/7.3.1, hydrostatic and capacity testing is to be performed to the satisfaction of the Surveyor as indicated in Marine Vessels Rules 4-6-1/7.3.2 a), b).

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

Notes / Documentation: Supporting Documentation: XL Series Spec. Sheet 107-001, Effective September 2015 Characteristic Curves, Page Number 107-021, Effective Dec. 2007
XL_MATERIALS_SHEET- MATERIALS OF CONSTRUCTION MODELS:
'XLR1.25A XL1.25A XL1.5A XRLF1.25B XLF1.25B XLF1.5B Effective Dec. 2015

XL_SPEC_SHEET - XL SERIES SHOCK-RESISTANT DUCTILE IRON PUMPS
 XL_CURVES_SHEET_XL1_5 and XLF1_5 Sheet 107-025 Effective December 2007
 XL_MATERIALS_SHEET_XL2, XL3 & XL4 Materials of Construction page 107-093
 Effective July 2018 - XL_CURVES_SHEET_XL4 Sheet 107-031 Effective
 December 2007 - XL_CURVES_SHEET_XL2 Sheet 107-027 Effective December
 2007 - XL_CURVES_SHEET_XL1_25 and XLF1_25 Sheet 107-023 Effective
 December 2007-

Term of Validity:

This Product Design Assessment (PDA) Certificate 19-HS1825395-PDA, dated 04/Mar/2019 remains valid until 03/Mar/2024 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.

ABS Rules:

2019 ABS Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-1/7.3.1, 4-6-1/7.3.2
 2019 ABS Mobile Offshore Units Rules 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-2-2/3

- National Standards:**
- International Standards:**
- Government Authority:**
- EUMED:**
- Others:**

None

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	19-HS1825395-PDA	04-MAR-2019	03-MAR-2024



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.