



Confirmation of Product Type Approval

Company Name: DESMI PUMPING TECHNOLOGY A/S

Address: TAGHOLM 1 NORRESUNDBY DK-9400 Denmark

Product: Pump, Centrifugal

Model(s): Self-Priming Modular S: S32-25-110N; S50-32-135N; S70-50-175N; S70-50-220N; S70-50-275N; S80-70-175N; S80-70-220N; S80-70-275N; S100-80-175N; S100-80-220N; S100-80-275N; S125-80-220N; S125-80-275N; S125-100-220N

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	24-0040948-PDA	08-AUG-2024	07-AUG-2029
Manufacturing Assessment (MA)	23-5948943	18-JUL-2023	22-AUG-2028
Product Quality Assurance (PQA)	23-5948943-PQA	18-JUL-2023	22-AUG-2028

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4 - Enrolled in PQA Program

Intended Service

Bilge water, ballast pumps, fire pumps, cooling-water pumps, wash-deck pumps, general service pumps.

Description

Self-priming single stage centrifugal pumps.

The pump has horizontal inlet on the centre line and vertical outlet at the top.

All models listed above are in the following

material combination:

- 'A' (casing - cast iron / cast iron alloy, impeller - Aluminum bronze), which is intended for fresh water applications,

- 'D' (casing - bronze, impeller - Aluminum bronze), which is intended for sea water applications.

Ratings

For use with liquids between 0 deg C and 80 deg C, up to 400m³/hr;

Max. number of revolutions: 3600RPM

See manufacturer's ABS approved pump curves. The pump capacity will vary with working conditions and impeller design.

Service Restrictions

1. Connection flange standard and rating is to be suitable for the intended application.
2. Unit certification is required for all pumps as listed in Marine Vessels Rules 4-6-1/7.3.1 and the required tests per ABS Marine Vessels Rules 4-6-1/7.3.2 are to be carried out at the manufacturer's plant in the presence of the Surveyor.

Comments

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Hydrostatic and Capacity testing are to be performed at the manufacturer's plant in the presence and to the satisfaction of the Surveyor (ABS Marine Vessels Rules 4-6-1/7.3.2 a) & b).
3. Pump capacity may vary with working conditions and impeller design. Reference should be made to the manufacturer.
4. ABS witnessed additional testing may modify the pump ratings covered by this approval.

Notes, Drawings and Documentation

- 409282 A.2 S100-80-175N/D11-02
- 410039 A.1 S100-80-275N/02
- 410215 A.2 S32-25-110/09
- 411006 S70-50-275N/D09
- 411009 A.2 S70-50-275N/D02
- 411063 A.1 S70-50-175N/D11-02
- 413755 A.4 S80-70-275N/D09
- 413766 A.3 S70-50-220N/D09
- 413777 A.1 S80-70-275N/D02
- 413778 A.1 S70-50-220N/D02
- 413779; S50-32-135N /A09
- 415899; CE 1S-3 A-FGJ-A-V
- 415910; S32-25-110/D02
- 419530; S70-50-175N/A09
- 419561; Assembly drawing modular S-Pumps in A11-09 Design
- 419563; S-pumps D11-09
- 419624; S100-80-220N/D09
- 419627; S100-80-220N/D02
- 419630; S100-80-275N/D02
- 419825; S80-70-175N/D09
- 419832; S80-70-175/D02

419834; S80-70-175/D11-09
419932; Modular S-100-80-175N/D09
419938; S100-80-175N/D02
419952; S125-80-275N/D09
419954; S125-80-275N/D02
419962; S80-70-220N/D09
419968; S80-70-220N/D02
514230; Impeller B2M
514080; Impeller D5 M
514090; Impeller E5 M
514100; Impeller C5 M
514110; Impeller D4 M
514150; Impeller C4 M
514190; Impeller F5 M
514200; Impeller F4 M
514250; Impeller E3 M
514260; Impeller A1 M
514300; Impeller G4 M
514400; Impeller E4 M
514570; Impeller C3 M
514580; Impeller D3 M
S100-80_175N; Curves
S100-80_220N; Curves
S100-80_275N; Curves
S125-100-220N; Performance Curve
S125-80_220-275N; Curves
S32-25-110N; Performance Curve
S50-32-135N; Performance Curve
S70-50_175-275N; Curves
S80-70_175-275N; Curves
25032-01-01; DESMI test certificate S50-32-135N
25663-04-01; DESMI test certificate S70-50-220N

25704-01-02; DESMI test certificate S80-70-175N

25706-01-02; DESMI test certificate S80-70-275N

25748-01-01-1; DESMI test certificate S100-80-275N

25962-05-01; DESMI test certificate S80-70-220N

26483-01-01; DESMI test certificate S32-25-110N

26566-04-01; DESMI test certificate S100-80-175N

26763-01-01; DESMI test certificate S70-50-175N

27089-03-01; DESMI test certificate S70-50-275N

28295-04-01; DESMI test certificate S100-80-220N

32072-01-02; DESMI test certificate S125-80-220N

S125-100-220N Manufacturer test report dated 2010-11-01 at PUMPQUIP ENG. PTE LTD

S125-80-275N Manufacturer test report, dated 2010-11-01 at PUMPQUIP ENG. PTE LTD

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 07/Aug/2029 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.

ABS Rules

Conditions of Classification January 2024, Part 1A; 1A-1-4/7.7, 1A-1-A3, 1A-1-A4, which covers the following:

2024 Marine Vessel Rules 4-6-1/ 7.3.1, 4-6-1/7.3.2, 4-6-1/7.5.3

Conditions of Classification, Offshore Units and Structures 2024, Part 1B; 1B-1-4/9.7, 1B-1-A2, 1B-1-A3, which covers the following:

2024 Mobile Offshore Units Rules 4-2-2/3, 6-1-6/7.3.2, 6-1-6/7.3.3

Conditions of Classification - Light and High - Speed Craft 2024, Part 1C; 1C-1-4/11.9, 1C-1-A2, 1C-1-A3, which covers the following:

2024 High-Speed Craft Rules 4-1-1/3.3, 4-4-2/1

International Standards

NA

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 04-Sep-2024 2:53

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 is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

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 prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. 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.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

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.

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.