



Confirmation of Product Type Approval

Company Name: DESMI PUMPING TECHNOLOGY A/S

Address: TAGHOLM 1 NORRESUNDBY DK-9400 Denmark

Product: Pump, Centrifugal Self-Priming

Model(s): SA20-90, SA25-122, SA35-135, SA50-180, SA65-250, SA80-160, SA80-220, SA100-235, SA125-235, SA150-260, SA200-320.

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	24-2513443-PDA	12-MAR-2024	11-MAR-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

Tier

4 - Enrolled in PQA Program

Intended Service

Ballast pumps, cooling-water pumps, general service pumps.

Description

Single-stage self-priming centrifugal pump,

material combination:

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

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

Ratings

Nominal Diameter: 20÷200mm

Capacity: up to 650 m³/h,

Pressure: up 110 bar

See manufacturer's 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 this product.
 - Marine Steel Vessel Rules 4-1-1/Table 6, 4-6-1/7.3.1, 4-6-1/7.3.2,
 - MOU 6-1-6/Table1, 6-1-6/7.3.2,
3. All pumps from size SA35 (inclusive) are equipped with a relief valve.

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

- 401350, SA 20-90A&D-9-H, Revision: A2,
- 401353, SA 25-122_12, Revision: B,
- 401380, SA 35-135A&D-9-H, Revision: A2
- 400005, SA 50-180A&D-9-H, Revision: A1
- 400219, SA 65-250A&D-9-H, Revision: A1,
- 400671, SA 80-160A&D-9-H, Revision: A1
- 402602, SA 80-220A&D-9-H, Revision: A1
- 401360, SA 100-235A&D-9-H, Revision: A1,
- 400246, SA 125-235A&D-9-H, Revision: B2,
- 400228, SA 150-260A&D-9-H, Revision: A1
- 400020, SA 200-320A&D-9-H, Revision: A1,
- 100607, Impeller SA-20-90/9 H M, Revision: A3,
- 100635, Impeller SA-25 RIGHT M, Revision: A4,
- 507690, Impeller for SA 35-13512 M, Revision: B5,
- 504030, Impeller, Right SA 50-1804 TO 6 M, Revision: A6,
- 507720, Impeller SA-65-2506 M, Revision: B3,
- 507830, Impeller SA-80-220 H M, Revision: A6,
- 100690, Impeller SA 80-16017 M, Revision: A5,
- 504590, Impeller SA 100-23528 (H) M, Revision: A9
- 100772, Impeller SA 125-235 32 (H), Revision: B,

504620, Impeller for SA 150-26033 M, Revision: C2,

506660, Impeller for SA 200-32050 M, Revision: A6,

DESMI Test Certificates for SA Pumps, Test. No 31369-01-01, dated 2014-03-03

DESMI Test-report-SA125-235, dated 2012-02-20, Test No. 14847

DESMI Test Report - DSL-ESL-ESLH-SA Static Pressure Test for Pump, Dated 2018 Dec, QR-92-007

T1345, OPERATION AND MAINTENANCE INSTRUCTIONS,

Curves of SA types

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 11/Mar/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

Rules for Conditions of Classification, Part 1 - 2023, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

Marine Vessels Rules, 2024: 4-1-1/Table 6, 4-6-1/7.3, 4-6-1/7.5.3;

Rules for Conditions of Classification, Part 1 - 2023 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which

covers the following:

Mobile Offshore Unit Rules (MOU), 2024: 4-2-2/3, 6-1-6/7.3.2, 6-1-6/Table 1 and 6-1-8/11, 6-1-8/Table 1;

The Rules for Conditions of Classification - Part 1 (2023) - Light and High-Speed Craft, 1-1-4/11.9, 1-1-A2, 1-1-A3,

which cover the following:

Rules for Building and Classing High Speed Craft - 2024: 4-1-1/3.3

International Standards

NA

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read "Joseph W. White".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 17-May-2024 12:04

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.