



## Confirmation of Product Type Approval

**Company Name:** DESMI PUMPING TECHNOLOGY A/S

**Address:** TAGHOLM 1 NORRESUNDBY DK-9400 Denmark

**Product:** Pump, Gear-Type

**Model(s):** Rotan Geared Pumps

**Endorsements:**

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	24-0031266-PDA	05-JUL-2024	04-JUL-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**

GP (General Purpose) for use with clean non abrasive liquids HD (Heavy Duty) for use with high viscosity liquids PD (Petrochemical Duty) for use with petrochemical liquids CD (Chemical Duty) for chemical duty including corrosive liquids ED (Environmental Duty) for no leakage applications

### **Description**

Self priming reversible flow geared pumps

### **Ratings**

GP Up to: 50 m3/h, 1750 rpm, 16 bar g, 0.5 bar g vacuum while priming, 0.8 bar g vacuum while pumping, 7500 cSt, 150 deg C.

HD Up to: 170 m3/h, 1750 rpm, 16 bar g, 0.5 bar g vacuum while priming, 0.8 bar g vacuum while pumping, 250000 cSt, 250 deg C.

PD Up to: 170 m3/h, 1750 rpm, 16 bar g, 0.5 bar g vacuum while priming, 0.8 bar g vacuum while pumping, 250000 cSt, 250 deg C.

CD Up to: 170 m3/h, 1750 rpm, 16 bar g, 0.5 bar g vacuum while priming, 0.8 bar g vacuum while pumping, 250000 cSt, 250 deg C.

ED Up to: 90 m3/h, 1750 rpm, 16 bar g, 0.5 bar g vacuum while priming, 0.8 bar g vacuum while pumping, 10000 cSt, 250 deg C.

### **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 Vessel 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.
5. Pumps without a Rotan bypass valve must use another equivalent safety device which protects pump and motor.
6. Any change to the pump's max. operating pressure must be followed by a change to the valve's setting - the working pressure must however not exceed the maximum allowable pressure of the pump/valve.
7. Ball/roller bearings must be lubricated with heat-resistant grease when pumping liquids over 100°C.
8. Slide bearings must be lubricated with heat-resistant grease when pumping liquids over 100°C.

### Notes, Drawings and Documentation

See attached document for drawings list.

### Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 04/Jul/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



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

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 12-Aug-2024 1:49

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.