



Confirmation of Product Type Approval

Company Name: DESMI PUMPING TECHNOLOGY A/S

Address: TAGHOLM 1 DK-9400 Denmark

Product: Pump, Centrifugal

Model(s): NSL80-215, NSL80-265, NSL80-330 NSL100-215, NSL100-265, NSL100-330, NSL100-415
NSL125-215, NSL125-265, NSL125-330, NSL125-415 NSL150-215, NSL150-265, NSL150-330,
NSL150-415, NSL200-265, NSL200-330, NSL200-415, NSL200-525, NSL250-265, NSL250-330,
NSL250-415, NSL250-525 NSL300-415, NSL300-418, NSL300-525, NSL350-525. NSLV65-215,
NSLV65-265, NSLV80-215, NSLV80-265, NSLV80-330 NSLV100-215, NSLV100-265, NSLV100-330,
NSLV100-415 NSLV125-215, NSLV125-265, NSLV125-330, NSLV125-415 NSLV150-265,
NSLV150-330, NSLV150-415, NSLV200-265, NSLV200-330, NSLV200-415, NSLV200-525,
NSLV250-330, NSLV250-415, NSLV250-525, NSLV300-415, NSLV300-418, NSLV300-525
NSLH65-215, NSLH65-265, NSLH80-215, NSLH80-265, NSLH80-330 NSLH100-215, NSLH100-265,
NSLH100-330, NSLH100-415 NSLH125-215, NSLH125-265, NSLH125-330, NSLH125-415
NSLH150-265, NSLH150-330, NSLH150-415, NSLH200-265, NSLH200-330, NSLH200-415,
NSLH200-525, NSLH250-330, NSLH250-415, NSLH250-525, NSLH300-415, NSLH300-418,
NSLH300-525

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	22-2285092-PDA	10-SEP-2022	09-SEP-2027
Manufacturing Assessment (MA)	18-CP3549904	23-AUG-2018	25-NOV-2023
Product Quality Assurance (PQA)	18-3549904-PQA	23-AUG-2018	22-AUG-2023

Tier

4 - Enrolled in PQA Program

Intended Service

Marine ballast, bilge, fire fighting, general service and cooling water pumping.

Description

Vertical, horizontal, radially split, single-stage centrifugal pumps. All models listed above are in the following material combination:

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

Additionally all pumps are approved in material combination 'E' (special bronze) intended for sea water applications.

Ratings

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

Service Restrictions

1. Connection flange standard and rating is to be suitable for the intended application.
2. Unit Certification is required for pumps as per:
 - Marine 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
3. 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.

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.

Notes, Drawings and Documentation

- NSL80-215 Assembly Drawings parts
- NSL80-265 Assembly Drawings parts
- NSL80-330 Assembly Drawings parts
- NSL100-215 Assembly Drawings parts
- NSL100-265 Assembly Drawings parts
- NSL100-330 Assembly Drawings parts
- NSL100-415 Assembly Drawings parts
- NSL125-215 Assembly Drawings parts
- NSL125-265 Assembly Drawings parts
- NSL125-330 Assembly Drawings parts
- NSL125-415 Assembly Drawings parts
- NSL150-265 Assembly Drawings parts
- NSL150-330 Assembly Drawings parts

NSL150-415 Assembly Drawings parts
NSL200-265 Assembly Drawings parts
NSL200-330 Assembly Drawings parts
NSL200-415 Assembly Drawings parts
NSL200-525 Assembly Drawings parts
NSL250-330 Assembly Drawings parts
NSL250-415 Assembly Drawings parts
NSL250-525 Assembly Drawings parts
NSL250-525 Assembly Drawings parts
NSL300-415 Assembly Drawings parts
NSL300-418 Assembly Drawings parts
NSL300-525 Assembly Drawings parts
NSL350-525 Assembly Drawings parts
NSLH100-215, Assembly Drawings parts
NSLH100-265, Assembly Drawings parts
NSLH100-330, Assembly Drawings parts
NSLH100-415, Assembly Drawings parts
NSLH125-215, Assembly Drawings parts
NSLH125-265, Assembly Drawings parts
NSLH125-330, Assembly Drawings parts
NSLH125-415, Assembly Drawings parts
NSLH150-265, Assembly Drawings parts
NSLH150-330, Assembly Drawings parts
NSLH150-415, Assembly Drawings parts
NSLH200-265, Assembly Drawings parts
NSLH200-330, Assembly Drawings parts
NSLH200-415, Assembly Drawings parts
NSLH200-525, Assembly Drawings parts
NSLH250-330, Assembly Drawings parts
NSLH250-415, Assembly Drawings parts
NSLH250-525, Assembly Drawings parts
NSLH300-415, Assembly Drawings parts

NSLH300-418, Assembly Drawings parts

NSLH300-525, Assembly Drawings parts

NSLH65-215, Assembly Drawings parts

NSLH65-265, Assembly Drawings parts

NSLH80-215, Assembly Drawings parts

NSLH80-265, Assembly Drawings parts

NSLH80-330, Assembly Drawings parts

QR-92-007 Test Report, Test Date: Jan,2013 – Oct,2017, DESMI PUMPING TECHNOLOGY
A/S.Drawing No. 2416_001, Type Approval Request, Revision: -, Pages: 1

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 09/Sep/2027 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

2022 Marine Vessel Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-1-1/Table 6, 4-6-1/7.3.1, 4-6-1/7.3.2, 4-6-1/7.5.3, 5C-13-2/3

2022 Mobile Offshore Unit Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3, 6-1-6/7.3.2

International Standards

NA

EU-MED Standards

NA

National Standards

NA

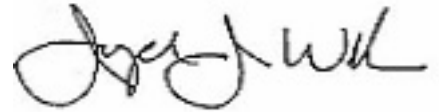
Government Standards

NA

Other Standards

NA





Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 20-Sep-2022 7:02

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.