



Quality Assurance Engineering Scheme Certificate

Manufacturer	Desmi Pumping technology A/S
Address	Tagholm 1, Nørresundby, 9400, Denmark
Scheme Type	Quality Assurance Scheme for Machinery (QAM)
Approval Number	QAM 194 / A 01
Product Type	Centrifugal Pumps
Product Name	Type: DSL, ESL, NSL, TSL, S, SA, PVLN, NSA, VAC
Product Type	Gear Pumps
Product Name	Type: GP, HD, PD, CD, ED, CC

This is to certify that the above named manufacturer has been approved by LR EMEA in accordance with the requirements set out in the Quality Assurance Scheme for Machinery (QAM) within the Lloyd's Register Rules and Regulations for the Classification of Ships.

The quality system and procedures at these works covering production methods, inspection and testing, quality control and general standards of workmanship have been examined and are approved for the manufacture of the undernoted product(s) at the stated place(s) of production.

Such items will be eligible for fitting in ships or other installations classed or intended for classification subject to satisfactory installation under the usual conditions of survey and testing.

This approval is conditional upon the product(s) manufactured and certified under this Scheme being in accordance with the relevant requirements of the Rules and Regulations for the Classification of Ships and the organisation and procedures being audited by the Surveyors at agreed intervals.

For details of the scope of approval see subsequent pages of this certificate.

This certificate is issued to the named manufacturer and is valid until the expiry date specified. Lloyd's

Thomas Anhofer

Lead Specialist / QAES Scheme Coordinator
to Lloyd's Register EMEA
A member of the Lloyd's Register group



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Register is to be notified of any change that may affect the validity of this certificate and reserves the right to cancel or withdraw this certificate.

The Quality Assurance Scheme for Machinery is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations for the Classification of Ships are complied with.

Scope of products covered by the scheme:

1. Type: DSL, ESL, NSL, TSL, S, SA, PVLN, NSA, VAC

Type	Pressure [mLC]	Temperature Range [°C]
DSL 50 Hz	2 - 30	80 - 120
DSL 60 Hz	4 - 45	80 - 120
ESL 50 Hz	2 - 45	80 - 140
ESL 60 Hz	3 - 65	80 - 140
NSL 50 Hz	5 - 150	80 - 140
NSL 60 Hz	5 - 220	80 - 140
TSL	0 - 135	80 - 120
S	2 - 150	80 - 120
SA	0 - 110	80 - 120
PVLN	60	max. 120
NSA	55	max. 80
VAC	9,6	max. 80

2. Type: GP, HD, PD, CD, ED, CC

Type	Pressure [bar]	Working Temperature [°C]
GP	max. 16	max. 150
HD	max. 16	max. 250
PD	max. 16	max. 250
CD	max. 16	max. 250
ED	max. 16	max. 250
CC	max. 16	max. 150

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