



Design Approval Certificate

[Centrifugal Pumps]

Initial Approval 7th December, 2021

Manufacturer DESMI Pumping Technology (Suzhou) Co., Ltd.
 1st to 3rd Fl. of No.4 Office Bldg., and No.5 Bldg. No.108 Houdai Street, SIP,
 Suzhou, Jiangsu Province, P.R. China

Product Description Type : DL, S, DSL Series

“ See Appendix 1 ”



Approval Condition “ See Appendix 1 ”

THIS IS TO CERTIFY that the design of the above-mentioned product has been approved in accordance with relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt. 5, Ch. 6, Sec. 1 of the Rules for Classification of Steel Ships.

This Certificate is valid until 6th December, 2026
Issued at Shanghai, China on 7th December, 2021



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "http://e-cert.krs.co.kr" by using the tracking No(ME22001116133) and certificate No.(SHI27069-PP002).



KOREAN REGISTER

*General Manager of
Technical Support Team
CHINA KR Co., Ltd.*

- Note :**
1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
 2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
 3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
 4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Product Description and/or Approval Condition

Date of Issue : 7th December, 2021

1. Product Description

1) Product specification

Pump Series	Pump Type	Flow rate (m ³ /h)	Head (m)	Speed @60Hz (rpm)	Power (kW)	Medium
DL	DL300	315	218	1800	101.0	Lub. oil
	DL300B	376	138	1800	101.0	
	DL350	303	117	1800	105.6	
	DL350B	500	120	1800	105.6	
	DL400	850	310	1800	147.0	
	DL400B	1050	197	1800	160.2	
	DL500	1328	126	1200	301.6	
S	S100-80-275N	210	150	3600	103.0	
	S125-80-275N	292	150	3600	125.0	
DSL	DSL150-265	530	153.0	3600	169.6	Fresh water & Sea water
	DSL250-310	1799	60.0	2000	209.4	
	DSL300-320	2415	57.4	2000	251.3	
	DSL300-495	2250	135.0	1800	739.7	
	DSL350-460	3000	105.0	1800	761.0	
	DSL400-430	4030	46.0	1200	389.6	
	DSL400-460	4150	114.0	1800	1017.9	
	DSL400-495	4510	51.5	1200	389.6	
	DSL400-498	4430	75.0	1400	545.4	
	DSL450-490	4575	69.0	1400	580.6	
DSL500-515	4847	55.8	1200	477.5		

2. Approved Drawings

1) DL Series

- DL300 : 523450_rev. C. 2, 520660_rev. B. 2, 520640_rev. B. 4, , 114052_rev. A. 2, 415136_rev. C. 2, 413345_rev. A. 6
- DL300B : 523450_rev. C. 2, 520660_rev. B. 2, 522960_rev. A. 7, 114057_rev. A. 2, 413740_rev. A. 3, 415136_rev. C. 2
- DL350 : 523450_rev. C. 2, 568600_rev. A. 8, 568560_rev. A. 6, 117074_rev. A. 2, 415136_rev. C. 2, 422674_rev. A. 5
- DL350B : 567680_rev. A. 5, 567640_rev. A. 6, 567660_rev. A. 4, 116181_rev. A. 3, 415136_rev. C. 2, 421641_rev. A. 4
- DL400 : 524000_rev. D. 2, 520420_rev. B. 2, 520400_rev. A. 7, 114532_rev. A. 1, 414697_rev. A. 1, 415136_rev. C. 2,
- DL400B : 524030_rev. B. 2, 521930_rev. A. 7, 521950_rev. A. 10, 112671_rev. A. 2, 416171_rev. B. 3, 414164_rev. A. 2
- DL500 : 523550_rev. B. 2, 523620_rev. A. 8, 523600_rev. A. 9, 114067_rev. A. 2, 415380_rev. A. 1, 415381_rev. B. 3,

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- 2) S Series
- S100-80-275N : 517920_rev. B. 2, 514090_rev. C. 3, 514060_rev. B. 2, 514350_rev. B. 2,
410039_rev. A. 1, 419328_rev. A. 3, 419630_rev. A. 3
 - S125-80-275N : 517940_rev. C. 3, 514190_rev. B. 2, 514060_rev. B. 2, 514350_rev. B. 2,
419953_rev. A. 2, 419328_rev. A. 3, 419952_rev. A. 4,
- 3) DSL Series
- DSL150-265 : 528660_rev. A. 4, 527520_rev. A. 2, 527500_rev. B. 3, 114673_rev. A. 6,
407157_rev. B. 2
 - DSL250-310 : 509760_rev. E. 2, 509780_rev. C. 2, 509800_rev. D. 2, 106302_rev. A. 4,
407235_rev. A. 1
 - DSL300-320 : 509920_rev. D. 2, 509510_rev. F. 2, 509940_rev. E. 2, 106411_rev. A. 5,
407842_rev. C. 2
 - DSL300-495 : 561100_rev. B. 3, 560810_rev. C. 2, 560790_rev. A. 9, 115366_rev. A. 1,
493784_rev. A. 1
 - DSL350-460 : 561090_rev. B. 2, 560700_rev. C. 2, 560660_rev. C. 2, 115263_rev. A. 2,
493701_rev. B. 2
 - DSL400-430 : 500710_rev. h, 508390_rev. C. 2, 500720_rev. A. 5, 503600_rev. A. 5,
407098_rev. a
 - DSL400-460 : 564410_rev. A. 4, 563960_rev. A. 3, 564430_rev. B. 2, 115533_rev. A. 2,
493701_rev. B. 2
 - DSL400-495 : 500710_rev. h, 509060_rev. C. 3, 500720_rev. A. 5, 503600_rev. A. 5,
407098_rev. a
 - DSL400-498 : 509640_rev. C. 3, 522940_rev. C. 4, 509660_rev. B. 2, 106291_rev. A. 6,
406741_rev. C. 2
 - DSL450-490 : 564090_rev. C. 3, 522940_rev. C. 4, 564120_rev. B. 4, 106291_rev. A. 6,
406741_rev. C. 2
 - DSL500-515 : 523110_rev. B. 3, 523150_rev. D. 2, 523170_rev. A. 3, 112995_rev. A. 1,
405932_rev. D. 3

3. Approval Condition

- 1) Materials for the main components are to be supplied by the approved manufacturers and is to be certified by the Society or to be satisfactory to the surveyor.
- 2) Individual Product Certification is required.

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