



Certificate no.:  
**TAP00002YU**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

that the **Pumps**

with type designation(s)  
**DL100, DL125**

issued to

**Svanehøj Danmark A/S**  
**Svenstrup J, Nordjylland, Denmark**

is found to comply with

**DNV rules for classification – Ships**

## Application:

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Type:	Max. working press.:	Operating media:	Temperature range:
<b>DL100</b>	<b>16</b>	<b>Oil and Chemicals</b>	<b>0-80°C</b>
<b>DL125</b>	<b>16</b>	<b>Oil and Chemicals</b>	<b>0-80°C</b>

Issued at **Høvik** on **2024-12-18**

for **DNV**

This Certificate is valid until **2029-12-17**.

DNV local unit: **Denmark CMC**

Approval Engineer: **Tage Olav Alexander Strøm**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

## Product description

Centrifugal deepwell cargo pump.

## Manufactured by:

Svanehøj Danmark A/S Svenstrup J, Nordjylland, Denmark

## Application/Limitation

The pump is approved for piping systems handling Oil and Chemicals on board ships with the following main data:

Type	DL100	DL125	
Volume rate of flow [m <sup>3</sup> /h]	70-170	100-250	
Maximum Delivery head, [m]	150	150	
Min. temperature, [°C]	0	0	
*M.A.W.P., [bar]	16	16	
Revolution, [rpm]	2400-3350	2400-3100	
Materials	Casing	AISI 316	AISI 316
	Impeller	AISI 316	AISI 316
	Shaft	AISI 316	AISI 316

\*maximum allowable working pressure

Performance- and technical data see manufacturers data sheet & capacity curves

## Type Approval documentation

1. Table of Contents	31. 34183-21	61. 49273-12-SH001-A
2. 1001-2459-00	32. 34342-00-SH001-A	62. 49283-00-B
3. 1001-2855-02	33. 35263-25-SH001-B	63. 49283-04
4. 1001-4604-01	34. 35263-26_B	64. 49327-00-SH001-B
5. 1001-4627-02	35. 35439-00-SH001-A	65. 49328-10-C
6. 1001-4718-02	36. 35629-20-SH001-A	66. 49330-10-E
7. 1001-7912-00	37. 35630-00-SH001-A	67. 49477-60
8. 1002-3390-00	38. 35747-01	68. 49499-03
9. 1002-3719-00	39. 35868-15-SH001-C	69. 49500-00
10. 1002-3721-00	40. 35869-06-SH001-C	70. 49534-00-SH001-A
11. 1002-3810-00	41. 36362-01	71. 49556-11-SH001-A
12. 1002-3860-00	42. 36365-02-SH001-A	72. 49640-14-SH001-A
13. 1002-3864-00	43. 36373-45-SH001-B	73. 49734-44-C
14. 1002-4669-00	44. 36390-08-B	74. 50090-17
15. 1002-4670-00	45. 36406-21-B	75. 50090-32-SH001-A
16. 1003-2766-01	46. 36587-05	76. 50112-30-SH001-A
17. 1003-3705-04	47. 36587-06	77. 50203-00
19. 1003-4429-02	48. 36587-16-A	78. 50204-00
20. 1003-4431-00	49. 36732-00-SH001-A	79. 50204-00
21. 12213-01-SH001-A	50. 36793-02-B	80. 50778-10-C
22. 12228-01-SH001-B	52. 41840-06	81. 50778-11-B
23. 12264-30-D	53. 41840-14-SH001-A	82. 50840-00_c Model
24. 12339-51	54. 48065-09-C	83. 50970-00-B
25. 12696-00-SH001-C	55. 48065-25	84. 51006-00-D
26. 24001-10-SH001-A	56. 48162-13-SH001-A	85. XAAA233477-A
27. 24398-62-A	57. 48552-17-SH001-A	86. XAAA235623-A
28. 24398-63-A	58. 48552-43	87. XAAA426531-SH001—
29. 24651-01-SH001-A	59. 49182-30-SH001-A	88. XAAA742540-A (114 pg.)
30. 24677-03-B	60. 49220-54-D	143. XAAB009283-SH001-A

## Marking of product

The product to be marked with manufacturer's name or trademark and type number identification

## Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.



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In case where the type approved product is manufactured at other companies, the periodical assessment shall verify that the type approval applicant has a quality control system for consistent production at their licensees/subcontractors. Furthermore, periodical assessment shall be carried out randomly at these companies.

**Other conditions**

Pumps are subject to a performance test at the manufacturer's works under attendance of a DNV Surveyor and are to be presented for final inspection.