



**VIKING  
NORSAFE**  
Boats and davits

Enterprise No.: NO940411696  
[www.VIKING-life.com](http://www.VIKING-life.com)

## NDA-65 NO – Rescue Boat Davit



WHS-1510-ADM-DAS-NSF-00003 - TECHNICAL SPECIFICATION

### **VIKING Norsafe Life-Saving Equipment Norway AS**

Tybakken 90, N-4818 Faervik  
P.O. Box 115, N-4852 Faervik  
Arendal, Norway

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Tel: +47 37 05 85 00

Fax: +47 37 05 85 01

E-mail: [VIKING-Norsafe@VIKING-life.com](mailto:VIKING-Norsafe@VIKING-life.com)

## 1. REGULATION AND CERTIFICATION

<b>Applicable rules and regulations</b>	<b>In accordance with IMO/ SOLAS requirements, LSA Code and European Council Directive 2014/90/EU on Marine Equipment (MED), Norsok R-002 2017</b>
<b>Certificate</b>	MED
<b>Other certificate</b>	DoC Issued by Viking Norsafe Class certificate or flag acceptance on request

## 2. DAVIT SPECIFICATION

### 2.1. GENERAL DAVIT

<b>Type</b>	<b>Rescue Boat Davit</b>
<b>Model</b>	NDA-65 NO
<b>Application</b>	Conventional Rescue Boat handling
<b>Drawing reference</b>	G-503364
<b>Execution</b>	Hydraulic operation with EOS back-up system
<b>Boarding position</b>	Inboard on deck level
<b>Operating position</b>	From deck side and from inside the boat
<b>Davit system weight</b>	7500 kg, davit incl. winch (dry weight)
<b>Safe Working Load (SWL)</b>	6625 kg
<b>Trim / list conditions</b>	20° / 10°, 17° / 17°
<b>Max. lowering height</b>	60 m (including 20°/20° trim/list condition)
<b>Operation temperature</b>	-20°C till +45°C (other range on request)
<b>Max. hoisting speed</b>	50 m/min +/-10%
<b>Max. lowering speed</b>	60 m/min +/-10%
<b>Manual hoisting</b>	By manual hand-cranking
<b>Wire sheaves</b>	Galvanized, equipped with ball bearings
<b>Installation</b>	8 (eight) deck welding points
<b>Deck reinforcement requirements</b>	See general arrangement drawing
<b>Davit system H / W / D</b>	See general arrangement drawing
<b>Deck space required</b>	See general arrangement drawing

The Viking Norsafe Rescue boat Davit system is especially designed for safe and efficient launching and retrieval of a Viking Norsafe rescue boat. The davit system is designed for long time operation in a tough and corrosive marine/offshore environment. The davit system is designed to fulfil all requirements as given in latest SOLAS/IMO and Norsok R-002 requirements.

The system will allow:

- Launch of rescue boat in maximum load condition by means of hydraulic power
- Launch of rescue boat based on stored mechanical power (gravity lowering)
- High speed retrieval of rescue boat
- Redundant retrieval system in case of power loss on primary unit
- Double limit stop devices



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Viking Norsafe rescue boat davit system comprises a hydraulically operated A-frame, wire dampening system and a hydraulically powered redundant winch with single wire fall. This davit system is suitable for all types of installations, monohulls, semi-submersible or fixed platforms. Optionally the davit can be delivered with a hydraulic boat cradle, which will allow to achieve horizontal clearance from the davit, so that the boat can be picked up and launched by deck crane.

The winch consists of a housing frame, grooved drum with integrated gear train, holding brakes, accumulators and hydraulic motor for "power ON" operation.

The davit system is designed to minimize noise and vibration levels and provide straight forward service access which leads to optimum performance in terms of safety and reliability and minimal maintenance levels.

## 2.2 WINCH AND WIRE

Type	Zollern ZR 4.24
Wire rope type	Galvanized, rotation resistant (certified item)
Wire rope diameter, MBL and spec.	Ø 20 mm, MBL 390 kN, 2160 N/mm <sup>2</sup>
Inner / outer wire end	Secured to drum / Thimble
Master link w/handle	Included (certified item)

## 2.3. ELECTRICAL

Electric power supply	440V/3ph/60Hz (other on request)
Electrical cabinet	IP56
Remote control	IP56
Limit switch	IP56
Power consumption	110 kW (normal mode), 17 kW (EOS mode)
Starting method	DOL - Direct on line
Duty rating	S6-40% (Main), S1 (EOS)
Motor space heating	Included, 40W,
Electrical cabinet heating	Heat loss from 42V transformer
Wiring	Included, (only power supply cable required)
Wiring	Included, (only power supply cable required)
Transformer	Included, 440/42VAC (other on request)
Emergency stop	Yes, mushroom type
Hazardous area classification	Ex-proof, Zone II 2 G Ex de IIB T3

## 2.4. PAINTING SYSTEM

Blasting	SA 2.5
Specification primer	1 x 100um Epoxy Primer
Coating System	Norsok M-501, System 1
Total dry film thickness	280 µm

## 2.5. DOCUMENTATION

Technical specification davit	According to contract specification
General arrangement drawing	According to contract specification
Electrical wiring diagram	According to contract specification



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<b>Starter cabinet drawing</b>	According to contract specification
<b>Product certificate</b>	According to contract specification
<b>Lubrication oil chart</b>	Norsafe standard
<b>Spare parts list</b>	Norsafe standard
<b>Operation &amp; Maintenance manual</b>	Norsafe standard
<b>Installation manual</b>	Norsafe standard
<b>Preservation &amp; storage procedure</b>	Norsafe standard

### 3. PACKING

Format **Packed for transport in a 40 ft standard container**

### 4. OPTIONS

*Note: Some options influence davit weight and performance, some option combinations may be incompatible. Maximum SWL must not be exceeded.*

marking means to be supplied by maker,  marking means not supplied by maker.

<b>GENERAL DAVIT</b>	
<b>Additional supports for lights, lanterns, starter cabinet etc.</b>	<input type="checkbox"/>
<b>Winterization / cold climate heating / canvas solutions</b>	<input type="checkbox"/>
<b>Commissioning performed by Norsafe or No rsafe Service Partners</b>	<input type="checkbox"/>
<b>Other options on request</b>	<input type="checkbox"/>
<b>ELECTRIC SYSTEM</b>	
<b>Voltage variation</b>	<input type="checkbox"/>
<b>Protection box for remote control</b>	<input type="checkbox"/>
<b>Star <math>\Delta</math> starting method</b>	<input type="checkbox"/>
<b>Additional electric cabinet heater</b>	<input type="checkbox"/>
<b>Alternative cabinet size / material / surface protection</b>	<input type="checkbox"/>
<b>PAINTING SPECIFICATION</b>	
<b>Marine paint system</b>	<input type="checkbox"/>
<b>Norsok M-501 system 2B, TSZ</b>	<input type="checkbox"/>
<b>Other painting system and final color</b>	<input type="checkbox"/>
<b>SPARE PARTS</b>	
<b>Spare parts for Startup / Commissioning</b>	<input type="checkbox"/>
<b>Spare parts for Onboard spare</b>	<input type="checkbox"/>
<b>Spare parts for 1 year</b>	<input type="checkbox"/>
<b>Spare parts for 2 years</b>	<input type="checkbox"/>



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DOCUMENTATION	
Factory acceptance test procedure	<input type="checkbox"/>
Factory acceptance test report	<input type="checkbox"/>
Inspection and test plan	<input type="checkbox"/>
Shipping, handling and lifting procedure	<input type="checkbox"/>
Packing & unpacking procedure	<input type="checkbox"/>
Commissioning procedure	<input type="checkbox"/>
TAG list	<input type="checkbox"/>
Winch drawing	<input type="checkbox"/>
Noise test report	<input type="checkbox"/>
Vibration test report	<input type="checkbox"/>
Weight and COG datasheet	<input type="checkbox"/>
Weighing report/certificate	<input type="checkbox"/>
Other drawings/documentation/procedures	<input type="checkbox"/>

## 5. POSSIBLE BOAT FITTING THIS DAVIT SYSTEM

*The VIKING Norsafe boats fit the NDA-65 NO davit types and variants.*

Magnum 850

## 6. YARD SUPPLY / RESPONSIBILITY

Transport	Depending on contract
Deck foundations / reinforcement	
Assembly, erection and welding to deck	
Wire installation on winch, routing on davit and termination	
All cables to starter cabinet and agreed interface	
Hydraulic oil filling of HPU	
Testing according to regulation after installation onboard	
Preservation and maintenance after davit arrived yard and installed	



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