



**VIKING
NORSAFE**
Boats and davits

Enterprise No.: NO940411696
www.VIKING-life.com

NRC-R-34 – Life Raft Davit



TECHNICAL SPECIFICATION

VIKING Norsafe Life-Saving Equipment Norway AS
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VIKING Project No.: Standard

VIKING Doc. No.: TSD-0344

Rev. Date: 20.09.2019

Rev. No: 2

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1. REGULATION AND CERTIFICATION

Applicable rules and regulations In accordance with IMO/ SOLAS requirements, LSA Code and European Council Directive 2014/90/EU on Marine Equipment (MED)

Certificate	MED
Other certificate	Class certificate or flag acceptance on request

2. DAVIT SPECIFICATION

2.1. GENERAL DAVIT

Type	Life Raft Davit
Model	NRC-R-34
Application	Life raft handling
Drawing reference	G-502110
Execution	Manually slewing arm davit
Boarding position	Inboard / Outboard on deck level
Operating position	From deck side and from inside the boat (Gravity lowering)
Davit system weight (Approx.)	2750 kg, davit incl. winch (dry weight)
Safe Working Load (SWL)	3400 kg (max. 4.5 m slewing radius)
Trim / list conditions	10° / 20°
Max. lowering height	50 m (including 10°/20° trim/list condition)
Operation temperature	-20°C till +45°C (other range on request)
Hoisting	Manually
Lowering speed	Not less than that obtained from the formula $S=0.4+(0.02H)$, and not exceed 1.3 m/s.
Manual hoisting	By manual hand-cranking
Pivot bearing type	Slewing bearing
Wire sheaves	Galvanized, equipped with ball bearings
Installation	1 (one) deck welding point (reduced installation time)
Deck reinforcement requirements	See general arrangement drawing
Davit system H / W / D	See general arrangement drawing
Deck space required	See general arrangement drawing

The Viking Norsafe NRC-R-34 slewing davit system is especially designed for safe and efficient launching of life rafts. The davit system is designed for long time operation in a tough and corrosive marine/offshore environment and to fulfil all requirements as given in latest SOLAS/IMO requirements.

The system will allow:

- Manual slewing of the davit arm.
- Gravity lowering of the fully loaded raft, controlled from within the raft or controlled by the operator on the deck, completely independent of any power supply.
- High-speed manually retrieval of the empty hook. Low-speed retrieval of the full load (Convenient for training / testing purpose).



The davit system has a manually driven, mechanical slewing arm and a manually driven winch with single wire fall.

The lowering is based on gravity only, which allows full operation of the davit in “dead ship” conditions.

The davit is designed to achieve optimum performance in terms of safety and reliability, and minimal maintenance levels. All selected equipment is chosen and installed to ensure the lowest possible emission of sound and for good access for service and repair.

The winch is fitted with a one-way clutch. In the event of power loss during hoisting, the brake will automatically activate and davit motion will stop. A centrifugal brake is located on the winch. The brake controls the speed of descent for the life raft(s). The brake is enclosed, and provides reliable operation in all climate conditions.

2.2 WINCH AND WIRE

Type	DW-34 winch
Drawing reference	DS-02777
Execution	Gravity lowering / Manually hoisting / Manually fast hoisting
Brakes type	Centrifugal brakes
Wire rope type	Galvanized, rotation resistant (certified item)
Wire rope diameter, MBL and spec.	Ø 18 mm, MBL 204 kN, 1960N/mm ²
Inner / outer wire end	Secured to drum / Swaged eye
Connection shackle in thimble	Included (certified item)

2.3. PAINTING SYSTEM

Blasting	SA 2.5
Specification	ISO 12944-5
System	Marine paint system (Jotun paint system)
Coating Two (2) layers (other on request)	Layer 1 Penguard universal, Alu - 220 µm Hardtop AX - 80 µm RAL 9016 (Traffic white)
Total dry film thickness	300 µm

2.4. DOCUMENTATION

Technical specification davit	According to contract specification
General arrangement drawing	According to contract specification
Product certificate	According to contract specification
Lubrication oil chart	Viking Norsafe standard
Spareparts list	Viking Norsafe standard
Operation & Maintenance manual	Viking Norsafe standard
Installation manual	Viking Norsafe standard
Preservation & storage procedure	Viking Norsafe standard

3. PACKING



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Format

Packed for transport in a 20 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.

GENERAL DAVIT

Automatic release raft hook	<input type="checkbox"/>
Combined raft-/rescue hook	<input type="checkbox"/>
Electrical motor for hoisting	<input type="checkbox"/>
Winterization / cold climate heating / canvas solutions	<input type="checkbox"/>
Commissioning performed by Viking Norsafe or Viking Norsafe Service Partners	<input type="checkbox"/>
Other options on request	<input type="checkbox"/>

PAINTING SPECIFICATION

Norsok M-501 system (Viking Norsafe Doc. No. TSS-0030)	<input type="checkbox"/>
Other painting system and final color	<input type="checkbox"/>

SPARE PARTS

Spare parts for Startup / Commissioning	<input type="checkbox"/>
Spare parts for Onboard spare	<input type="checkbox"/>
Spare parts for 1 year	<input type="checkbox"/>
Spare parts for 2 years	<input type="checkbox"/>

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"/>
Weight and COG datasheet	<input type="checkbox"/>
Weighing report/certificate	<input type="checkbox"/>
Other drawings/documentation/procedures	<input type="checkbox"/>



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5. POSSIBLE BOAT FITTING THIS DAVIT SYSTEM

The below life rafts fit the NRC-R-34 davit types and variants.

Davit launched rafts, typically up to 3400kg of raft weight including persons

(Others on request)

6. YARD SUPPLY / RESPONSIBILITY

Transport	Depending on contract
Deck foundations / reinforcement	
Assembly, erection and welding to deck	
Wire routing on davit and termination	
Testing according to regulation after installation onboard	
Preservation and maintenance after davit arrived yard and installed	