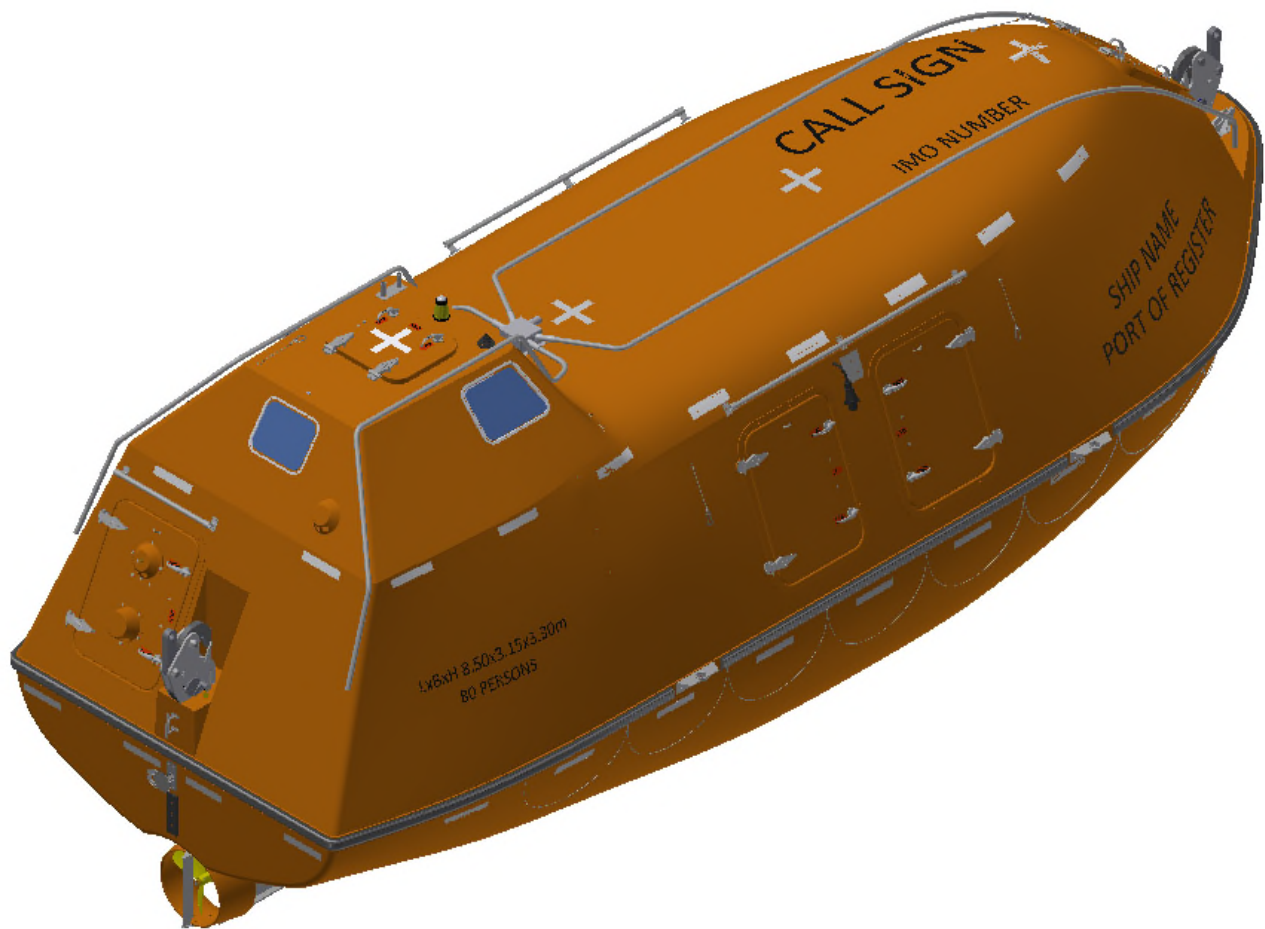




**VIKING  
NORSAFE**  
Boats and davits

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

## JYN-85 MKI Davit Launching Lifeboat



### TECHNICAL SPECIFICATION

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VIKING Project No.: TBA  
Rev. Date: 12.08.2019

VIKING Doc. No.: TSB-0026  
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. BOAT SPECIFICATION

## 2.1. GENERAL BOAT

Type	Totally Enclosed Life Boat (TELB)
Model	JYN-85 MKI
Length overall (on fender)	8,56 m
Length of hull	8,50 m
Beam	3,15 m
Height	3,30 m
Hook distance	8,00 m
Hook height aft & forward	1,89 m
Capacity, SOLAS maximum	80 persons
Weight, fully equipped	4600 kg
Davit load, with 80 pers@82,5 kg	11200 kg
External Color	Orange (RAL 2004)
Internal Color	Light Gray (RAL 7032)
Operation temperature:	-15°C till +40°C (other range on request)
Hull/deck material	Fire retardant glass reinforced polyester (GRP)
Buoyancy material	Polyurethane foam
Windows	Toughened glass with GRP frame
Bollards/towing	Aft bollard, painter hook in bow
Steering	Mechanical
Fender	PVC-fender
Skates / bobbins	If lifeboat is to be installed on a vessel
Hatches	1 aft door / 2 side door each side / 1 top hatch / 1 front top hatch
Sprinkler pipe system (tank ver.)	Seawater resistant aluminum piping, stainless steel deflectors
Sprinkler pump (tank ver.)	Belt connection to engine
Sprinkler shut-off valve (tank ver.)	Ball valve 4"



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<b>Compressed air system (tank ver.)</b>	3 x 50 liter air bottles, air regulator and high pressure hoses
<b>Under/overpressure valves</b>	Automatic spring loaded on canopy
<b>Loose equipment</b>	According to SOLAS

Totally Enclosed Lifeboat (TELB) designed and manufactured according to latest SOLAS requirements.

The lifeboat provides a secure and protected means of escape for persons onboard vessels or platforms. The lifeboat is for launch and retrieval by a suitable davit. Design and construction fulfil the need for reliable, low maintenance standby and operation.

The space between hull and hull liner, and between deck and deck liner, is filled with polyurethane buoyancy foam. In fully flooded and loaded condition, the lifeboat is self-righting. If damaged below the waterline, buoyancy is sufficient to float the boat at safe level.

When installed on ship's side, the boat is fitted with a shock absorbing fender and skates.

The lifeboat is fitted with approved On Load Release Hooks with a hydrostatic Interlock. The hook release is operated by a handle mounted at the steering position. The mechanism provides simultaneous release of the two hooks when the lifeboat is fully water-borne. The hooks are protected from accidental release by the hydrostatic interlock. On-load release of the hooks are possible by manual override, but the system is secured against accidental release.

Prime embarkation to the lifeboat is through the side hatches. Additional access is via a large embarkation after door. The side hatches allow pick up operations.

All seating positions have 4-point safety belts of alternating color.

The lifeboat is equipped with mechanical steering. A steering nozzle gives optimum maneuverability and increased bollard pull. The steering position is at the aft of the boat.

## 2.2 PROPULSION AND PERFORMANCE

<b>Propulsion</b>	<b>Diesel engine with gearbox, shaft, propeller and propeller nozzle</b>
<b>Engine</b>	NLDE-3(380J-3), 20,6 kW
<b>Gearbox</b>	ZF12M
<b>Propeller</b>	Brass, 18 inch.
<b>Propeller nozzle</b>	GRP
<b>Speed</b>	Minimum 6 knots in calm water
<b>Bollard pull, approx.</b>	3200 N
<b>Instrument gauges:</b>	Tachometer (subject to standard engine type), audible alarm for temperature and oil pressure
<b>Cooling system</b>	Fresh water cooling with header tank and external cooling loop



<b>Exhaust system</b>	Dry exhaust with water lock to prevent water ingress
<b>Fuel tank</b>	161 L, Seawater resistant aluminum
<b>Fuel valves</b>	Shut off on top of fuel tank & tank drain

*Typical data – subject to variation in engine installation and specified equipment. Engines of at least 20,6kW can be installed. Please note that boat weight and bollard pull are only for reference and may vary with several factors.*

### 2.3. LIFTING/RELEASE SYSTEM

<b>Release system</b>	Release hooks, release handle unit, hydrostat and cables
<b>Release hooks</b>	Tor Mk2-S

### 2.4. ELECTRIC SYSTEM AND NAVIGATION

<b>Electric power supply to boat</b>	<b>42 VAC male and female connectors included (Power delivered from Norsafe davit starter cabinet)</b>
<b>Electric system voltage</b>	12 VDC
<b>Cable type</b>	Marine type, flame retardant halogen free
<b>Position light</b>	12 VDC on top of canopy
<b>Search light</b>	12 VDC handheld
<b>Cabin lights</b>	12 VDC
<b>Compass light</b>	12 VDC inside compass
<b>Bilge pump</b>	Manual
<b>Alternator</b>	For 12 VDC system
<b>Batteries</b>	Main and secondary start battery
<b>Switches</b>	Main switch / Secondary switch / Electrical consumers switches
<b>Electric power supply to boat</b>	<b>42 VAC male and female connectors included (Power delivered from Norsafe davit starter cabinet)</b>

### 2.5. DOCUMENTATION

<b>Technical specification boat</b>	<b>According to contract specification</b>
<b>General arrangement drawing</b>	According to contract specification
<b>Seating plan</b>	According to contract specification
<b>Electrical system drawing</b>	According to contract specification
<b>Product certificate</b>	According to contract specification
<b>Lubrication oil chart</b>	Norsafe standard
<b>Spareparts list</b>	Norsafe standard
<b>Operation &amp; Maintenance man.</b>	Norsafe standard
<b>Sprinkler system drawing</b>	Norsafe standard (tank version only)



<b>Compressed air system drawing</b>	Norsafe standard (tank version only)
<b>Lifting arrangement drawing</b>	Norsafe standard
<b>Skate/pin lashing drawing</b>	Norsafe standard
<b>SOLAS loose equipment list</b>	Norsafe standard
<b>Preservation &amp; storage procedure</b>	Norsafe standard

### 3. PACKING

**Packing**

**Secured in transport cradle**

### 4. OPTIONS

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

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

<b>GENERAL BOAT</b>	
<b>Spare parts for 2 years, 5 years or 10 years</b>	<input type="checkbox"/>
<b>Seat padding</b>	<input type="checkbox"/>
<b>Sprinkler system in stainless steel</b>	<input type="checkbox"/>
<b>Remote sprinkler operation</b>	<input type="checkbox"/>
<b>De-humidifier</b>	<input type="checkbox"/>
<b>HVAC connection</b>	<input type="checkbox"/>
<b>Compressed air filling hose</b>	<input type="checkbox"/>
<b>Labelling in dual language</b>	<input type="checkbox"/>
<b>Plastic shrink wrap</b>	<input type="checkbox"/>
<b>Handrails in stainless steel</b>	<input type="checkbox"/>
<b>Pin lashing brackets</b>	<input type="checkbox"/>
<b>Hatches, additional/larger aft/side hatches available</b>	<input type="checkbox"/>
<b>Winterization package / cold climate heating / defroster</b>	<input type="checkbox"/>

<b>PROPULSION AND PERFORMANCE</b>	
<b>Fuel level instruments</b>	<input type="checkbox"/>
<b>Oil pressure instruments</b>	<input type="checkbox"/>
<b>Water temp. instruments</b>	<input type="checkbox"/>
<b>Rudder pos. instruments</b>	<input type="checkbox"/>
<b>Spring starter</b>	<input type="checkbox"/>
<b>Dual oil filters</b>	<input type="checkbox"/>
<b>Stainless steel fuel tank</b>	<input type="checkbox"/>



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## ELECTRIC SYSTEM AND NAVIGATION

AIS system	<input type="checkbox"/>
12V outlet in console	<input type="checkbox"/>
Ex plug for ext. power supply	<input type="checkbox"/>
Ex cover over marking light	<input type="checkbox"/>
Ex battery box	<input type="checkbox"/>
Bilge water detector in engine room	<input type="checkbox"/>
Crew finder	<input type="checkbox"/>
Echo sounder	<input type="checkbox"/>
Cabin heater	<input type="checkbox"/>
Engine heater	<input type="checkbox"/>
EPIRB	<input type="checkbox"/>
Fire detector in engine room	<input type="checkbox"/>
GPS equipment	<input type="checkbox"/>
HID or LED searchlights	<input type="checkbox"/>
LED illumination in engine room, inst. panel or cabin	<input type="checkbox"/>
Loose el. cable for ext. power supply	<input type="checkbox"/>
Electrical system according to NMD requirements	<input type="checkbox"/>
SART	<input type="checkbox"/>
VHF equipment	<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"/>
Fuel system drawing	<input type="checkbox"/>
Steering system drawing	<input type="checkbox"/>
Engine, propulsion, exhaust and cooling system drawing	<input type="checkbox"/>
Bilge system drawing	<input type="checkbox"/>
Release system 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"/>

## 5. POSSIBLE DAVIT SOLUTIONS

The VIKING Norsafe JYN-85 MKI fits below davit models and variants.

<b>A-110</b>	<b>C-110</b>
<b>C-7.8 NO</b>	D-110
<b>E-110</b>	LH-140
<b>LHP-150</b>	LHD-150

Others on request.

## 6. YARD SUPPLY / RESPONSIBILITY

<b>Transport</b>	<b>Depending on contract</b>
<b>Fuel</b>	Marine diesel oil according to engine manual specification
<b>Installation of 42VAC Supply cable</b>	From starter cabinet to lifeboat supply plug
<b>Testing according to regulation after installation onboard</b>	
<b>Preservation and maintenance after boat arrived yard and installed</b>	