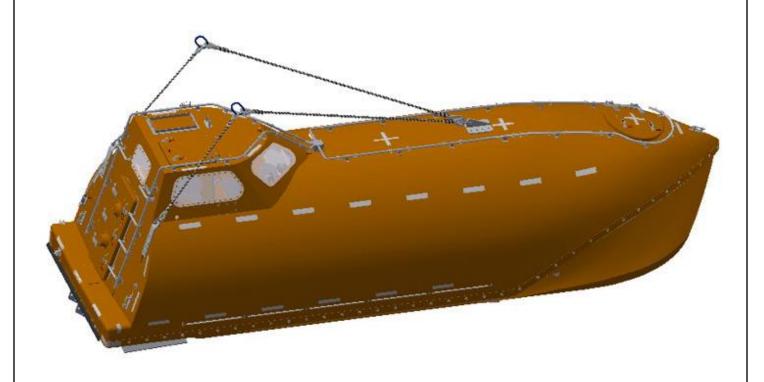




GES-30 MKII - Free Fall Lifeboat



TECHNICAL SPECIFICATION

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VIKING Project No.: TBA Rev. Date: 08.04.2022 VIKING Doc. No.: TSB-0003

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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

| Туре | Totally Enclosed Free fall lifeboat |
|--------------------------------------|--|
| Model | GES-30 MKII T |
| Length overall | 9,00 m |
| Beam | 2,75 m |
| Height | 3,42 m |
| Depth | 1,29m |
| Maximum installation height[m] | 25,0 m |
| Launching ramp length and angle | 10,8 m, 35° |
| Capacity, maximum | 40 persons |
| Weight, fully equipped | 5.800 kg |
| Davit load, with 40 pers@82,5 kg | 9.100 kg |
| Color external | Orange (RAL 2004) |
| Color internal | Grey (RAL 7032) |
| Operation temperature: | -15°C to +40°C (other range on request) |
| Hull/deck material | Fire retardant glass reinforced polyester (GRP) |
| Buoyancy material | Polyurethane foam |
| Windows | Polycarbonate |
| Bollards/towing | Aft bollard port and starboard side, bollard in bow |
| Steering | Hydraulic |
| Fender | Rubber fender at stern of boat |
| Hatches | 1 aft door / 1 top hatch / 1 front top hatch |
| Seat belt type | 4-point adjustable seat harness |
| 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" |
| Compressed air system (tank ver.) | 3 x 50L air bottles, air regulator and high-pressure hoses |
| Under/overpressure valves | Automatic spring loaded on canopy |
| Loose equipment | According to SOLAS |



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Totally Enclosed Free Fall Lifeboat 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 skid launch by a specific 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 form. 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.

Free fall release is activated by either of two, fully independent, hydraulic pump arrangements both located on the transom. Primary release pump control handle is located at the helmsman's position. Secondary release pump is located within reach of one of the aft seating positions. During launch, the hydraulic pump lifts the aft of the boat until the hook disengages the securing bar on the davit. The boat is equipped with lifting sling to allow retrieval of the boat with a crew of three persons after launch.

Embarkation is through the aft door. Seats are positioned on each side of the central aisle. All seats are anatomically shaped and angled, rear facing and fitted with a 4-point harness to provide optimum safety and comfort during free fall launch.

There is a forward hatch on top of the canopy and one at the helmsman's position.

The lifeboat is equipped with hydraulic 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

| Propulsion | Diesel engine with gearbox, shaft, propeller and propeller nozzle |
|-----------------------|--|
| Engine | NLDE-3(380J-3), 20,6 kW |
| Gearbox | ZF12M |
| Propeller | Brass, 18 inches |
| Propeller nozzle | GRP |
| Speed | Minimum 6 knots in calm water |
| Bollard pull, approx. | 396 kg |
| Instrument gauges: | Fuel level, Tachometer (subject to standard engine type), audible alarm for temperature and oil pressure |
| Cooling system | Fresh water cooling with header tank and external cooling loop |
| Exhaust system | Dry exhaust with water lock to prevent water ingress |
| Fuel tank | 163L, Seawater resistant aluminum |
| Fuel valves | 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.



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2.3. LIFTING/RELEASE SYSTEM

| Release system | Hydraulic model, HRS-10 |
|---------------------|--|
| Lifting arrangement | Lifting slings with 2 lifting links for lifting boat into davit in 35 deg. |
| Hang off system | SIM MKII plates, that also can be used for testing release system |

2.4. ELECTRIC SYSTEM AND NAVIGATION

| Electric power supply to boat | 42 VAC male and female connectors included (Power delivered from VIKING Norsafe davit starter cabinet) |
|-------------------------------|--|
| Electric system voltage | 12 VDC |
| Cables type | Marine type, flame retardant halogen free |
| Position light | 12 VDC on top of canopy |
| Search light | 12 VDC handheld |
| Cabin lights | 12 VDC |
| Compass light | 12 VDC inside compass |
| Bilge pump | Manual |
| Alternator | For 12 VDC system |
| Batteries | Main and secondary start battery |
| Switches | Main switch / Secondary switch / Electrical consumers switches |
| 42VAC Supply cable(15m) | From starter cabinet to lifeboat supply plug |

2.5. DOCUMENTATION

| Technical specification boat | According to contract specification |
|----------------------------------|-------------------------------------|
| General arrangement drawing | According to contract specification |
| Seating plan | According to contract specification |
| Electrical system drawing | According to contract specification |
| Product certificate | According to contract specification |
| Lubrication oil chart | VIKING standard |
| Recommended spare parts list | VIKING standard |
| Operation & Maintenance man. | VIKING standard |
| Sprinkler system drawing | VIKING standard (tank version only) |
| Compressed air system drawing | VIKING standard (tank version only) |
| Lifting arrangement drawing | VIKING standard |
| Simulated freefall drawing | VIKING standard |
| SOLAS loose equipment list | VIKING standard |
| Preservation & storage procedure | VIKING standard |

3. PACKING

Packing Secured in transport cradle



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4. OPTIONS

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

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

| GENERAL BOAT | |
|--|--|
| Spare parts for 1 year, 2 years, 5 years or 10 years | |
| Sprinkler system in stainless steel | |
| Remote sprinkler operation | |
| De-humidifier | |
| HVAC connection | |
| Turnbuckle and shackle simulation system | |
| Compressed air filling hose | |
| Labelling in dual language | |
| Plastic shrink wrap | |
| Handrails in stainless steel | |
| Winterization package / cold climate heating / defroster | |
| All hatches hinges stainless | |
| Other options on request | |
| | |
| PROPULSION AND PERFORMANCE | |
| Oil pressure instruments | |
| Water temp. instruments | |
| Rudder pos. instruments | |
| Spring starter | |
| Dual filter | |
| Stainless steel fuel tank | |
| Alternative engine with equal or higher power | |
| | |
| ELECTRIC SYSTEM AND NAVIGATION | |
| AIS system | |
| 12V outlet in console | |
| Ex plug for ext. power supply | |
| Ex cover over marking light | |
| EX battery box | |
| Bilge water detector in engine room | |
| Crew finder | |
| Echo sounder | |
| Cabin heater | |
| Engine heater | |
| EPIRB | |



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| Fire detector in engine room | |
|--|--|
| GPS equipment | |
| HID or LED searchlights | |
| LED illumination in engine room, instr. panel or cabin | |
| Loose el. cable for ext. power supply | |
| Electrical system according to NMD requirements | |
| SART | |
| VHF equipment | |
| Transformer | |
| DOCUMENTATION | |
| | |
| Factory acceptance test procedure | |
| Factory acceptance test report | |
| Inspection and test plan | |
| Shipping, handling and lifting procedure | |
| Packing & unpacking procedure | |
| Commissioning procedure | |
| TAG list | |
| Fuel system drawing | |
| Steering system drawing | |
| Engine, propulsion, exhaust and cooling system drawing | |
| Bilge system drawing | |
| Release system drawing | |
| Noise test report | |
| Weight and COG datasheet | |
| Weighing report/certificate | |
| Other drawings/documentation/procedures | |

5. POSSIBLE DAVIT SOLUTIONS

The VIKING Norsafe GES-30 MKII fits below davit models and variants.

| HD-30 | HD-30 B, HD-30 F, HD-30 S |
|--------------------|---------------------------|
| Others on request. | |

6. YARD SUPPLY / RESPONSIBILITY

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



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