

EO lifesaving

Powered by EO Lifesaving bv













Main office and worldwide distributors

The head quarters and factory of EuroOffshore is based in Werkendam in the Netherlands. The GRP production facilities are based in Poland and China. With a worldwide distributor network we are able to deliver our products to the location of your request. Our main office and factory EO Lifesaving BV is based in Werkendam in the south of the Netherlands, approximately 1 hour drive from Amsterdam international airport (Schiphol).

Our yard facilities in the Netherlands include the main office with sales, service, design & engineering and backoffice, a workshop over 2000m2 with an inhouse aluminium welding facility, assembly department and sailmakershop.

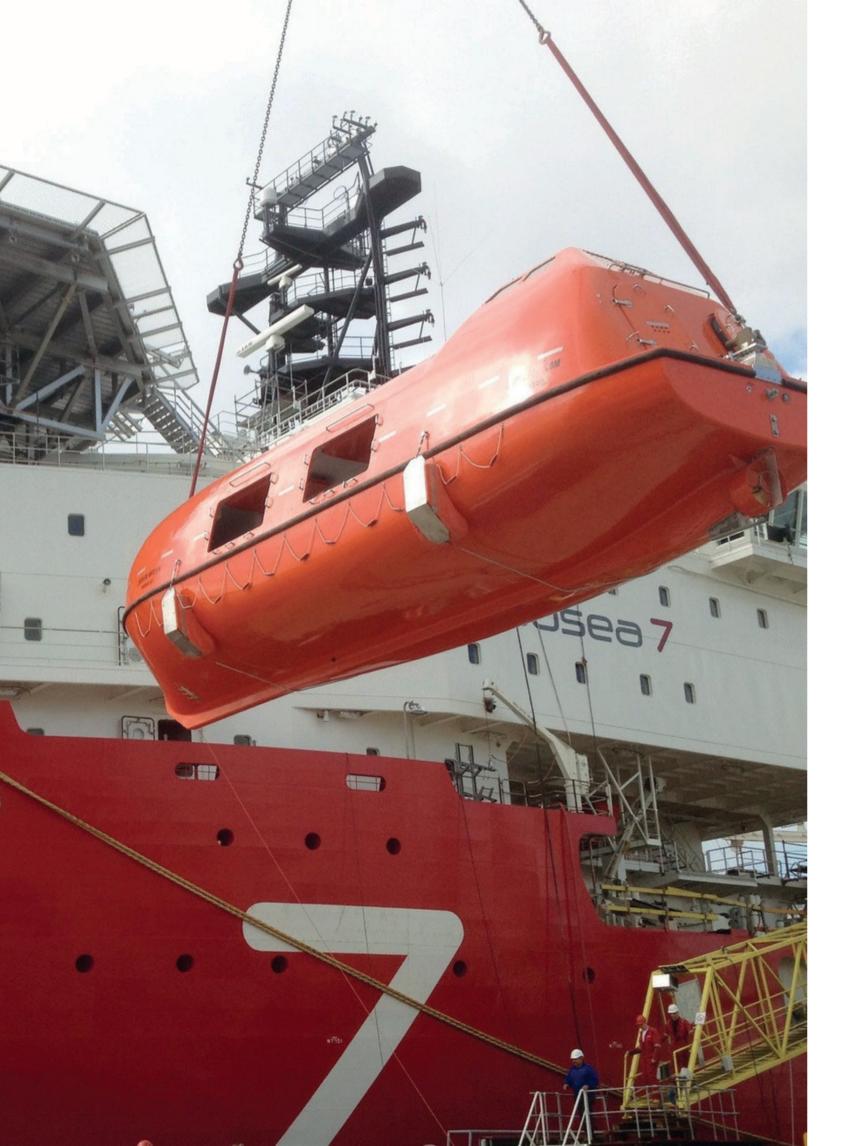


The GRP production facilities are based in Poland and China.



With the worldwide distributor network we are able to deliver our products to the location of your request.





EO lifesaving

Products

Our offshore lifesaving program contains the following products:

- Lifeboats,
- Rescueboats and fast rescueboats (FRC),
- Davits and motion compensated launching appliances for rescue- and lifeboats. Our experience in the boat building industry gives

Our experience in the boat building industry gives the client the possibility to order custom built boats, especially FRC's.



Lifeboats

All EO lifeboats are made of fireproof glass fiber reinforced polyester (GRP) and are injected with foam in certain areas to assure buoyancy and strength. Extra strengthening is built into the bow, to absorb the forces of the water during diving. EO Lifesaving distributes the following lifeboats: freefall lifeboats, enclosed lifeboats and partly enclosed lifeboats.



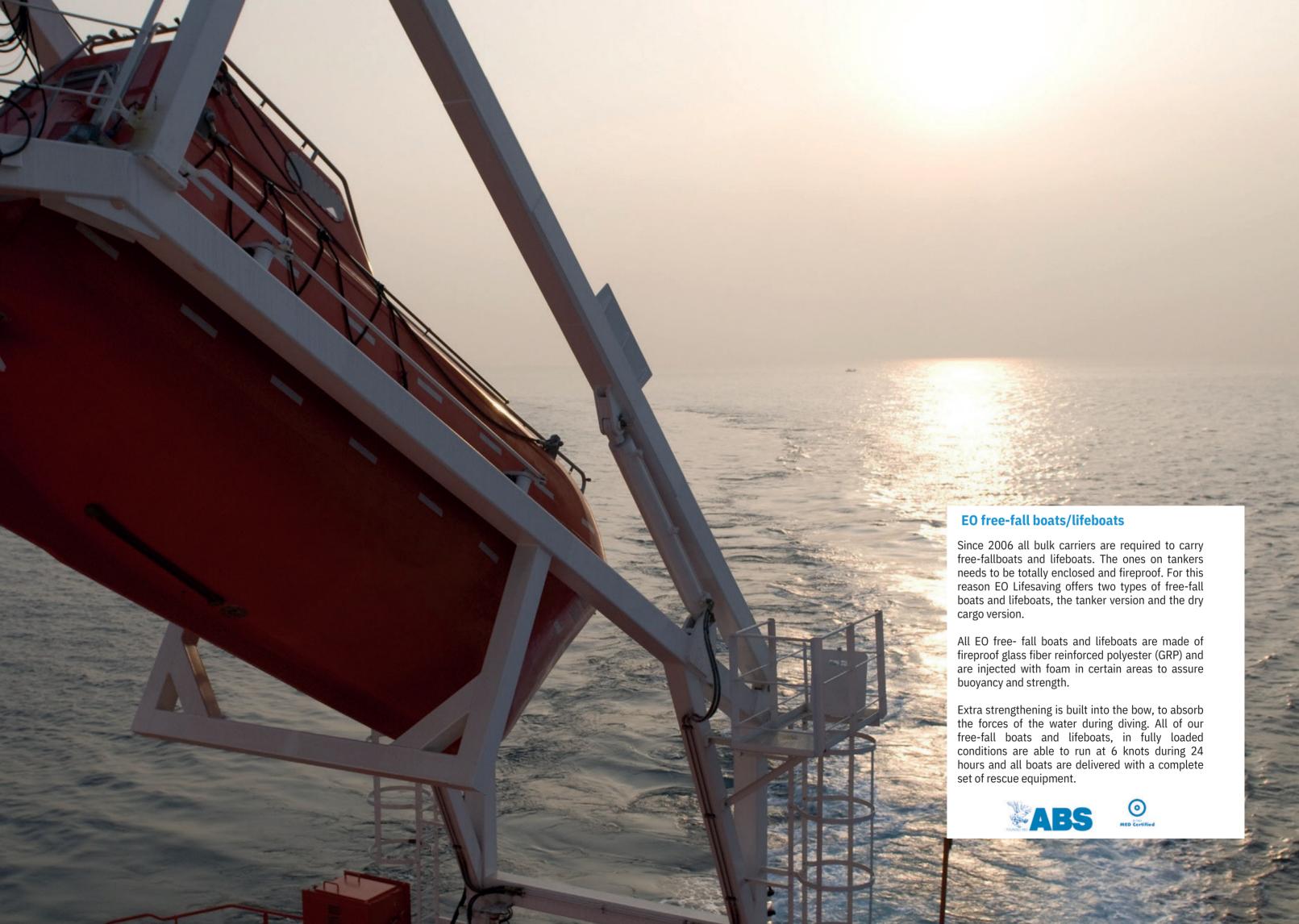
Rescueboats and fast rescueboats (FRC)

With the brand name Blue Spirit, EO Lifesaving designs and builds custom GRP patrol and rescue boats of the RIB type (rigid hull inflatable boats). Our existing boat lines proved theirselves as the ideal starting platform for a boat built according to your specifications. Our custom fast rescueboat (FRC) is SOLAS approved.



Davits and other launching appliances

To safely lower a rescue boat from a ship, davits are produced in all shapes and sizes, using different mechanisms. EO Lifesaving distributes high quality davits and freefall systems for all life- and rescue boats. All davit systems are designed to withstand extreme conditions in a highly corrosive marine environment and are capable to perform consistently.



EO Lifesaving

Totally enclosed

Dry Cargo Version

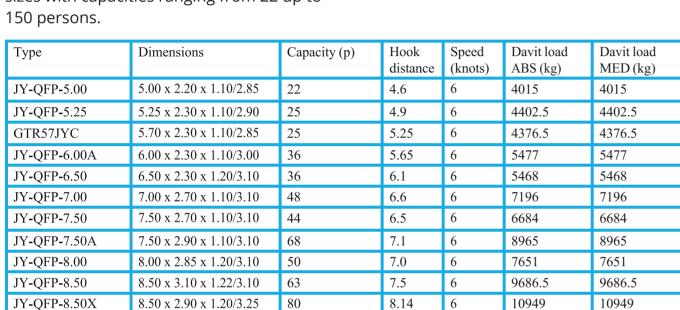
JY-QFP-9.35

JY-QFP-10.90

JY-QFP-11.8

JY-QFP-12.5

The dry cargo version of the totally enclosed lifeboats is available in different sizes with capacities ranging from 22 up to 150 persons.



8.95

10.5

11.3

12.1

6

6

102

130

150

130 (98,5kg/pp)

9.35 x 3.60 x 1.20/3.25

10.90 x 3.90 x 1.20/3.65

11.80 x 4.20 x 1.25/4.00

12.50 x 3.90 x 1.25/4.00



13771

17406

21250

21645

13771

17406

21250

21645

Tanker version

The totally enclosed lifeboat for tankers is available in different sizes with capacities ranging from 22 up to 150 persons. All tanker lifeboats are equipped with a water-spraying system for fire protection and an air supply system (for the maximum number of persons, for a minimum of 10 minutes).



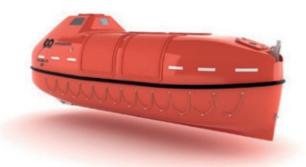
Туре	Dimensions	Capacity (p)	Hook distance	Speed (knots)	Davit load ABS (kg)	Davit load MED (kg)
JY-QFN-5.00	5.00 x 2.20 x 1.10/2.85	22	4.6	6	4365	4365
JY-QFN-5.25	5.25 x 2.30 x 1.10/2.90	25	4.9	6	4752.5	4752.5
GTR57JYF	5.70 x 2.30 x 1.10/2.85	25	5.25	6	4787.5	4787.5
JY-QFN-6.00A	6.00 x 2.30 x 1.10/3.00	36	5.65	6	5857	5857
JY-QFN-6.50	6.50 x 2.30 x 1.20/3.10	36	6.1	6	5918	5918
JY-QFN-7.00	7.00 x 2.70 x 1.10/3.10	48	6.6	6	7584	7584
JY-QFN-7.50	7.50 x 2.70 x 1.10/3.10	44	6.5	6	7184	7184
JY-QFN-7.50A	7.50 x 2.90 x 1.10/3.10	68	7.1	6	9335	9335
JY-QFN-8.00	8.00 x 2.85 x 1.20/3.10	50	7.0	6	8001	8001
JY-QFN-8.50	8.50 x 3.10 x 1.22/3.10	63	7.5	6	9942.5	9942.5
JY-QFN-8.50X	8.50 x 2.90 x 1.20/3.25	80	8.14	6	11295	11295
JY-QFN-9.35	9.35 x 3.60 x 1.20/3.25	102	8.95	6	14271	14271
JY-QFN-10.90	10.90 x 3.90 x 1.20/3.65	130	10.5	6	17906	17906
JY-QFN-11.8	11.80 x 4.20 x 1.25/4.00	150	11.3	6	22000	22000
JY-QFN-12.5	12.50 x 3.90 x 1.25/4.00	130 (98,5kg/pp) 150 (82,5kg/pp)	12.1	6	22395 22100	22395 22100



Lifeboats

Partly enclosed

The partly enclosed lifeboat is lighter than a totally enclosed lifeboat and are more accessible in case of an emergency. The sides can be closed with a foldable cover. The partly enclosed lifeboat must be lowered using a simultaneous release lifting hook.



Туре	Dimension LxWxH	Capacity (p)	Hook distance	Speed (knots)	Davit load ABS (kg)	Davit load MED(kg)
JY-BF-7.00	7.00 x 2.70 x 1.10/3.10	45	6.6	6	6367	6367
JY-BF-7.50A	7.50 x 2.90 x 1.10/3.10	68	7.1	6	8110	8110
JY-BF-8.50	8.50 x 2.90 x 1.20/3.20	82	8.14	6	9779	9779
JY-BF-110	9.35 x 3.60 x 1.20/3.25	110	8.95	6	12500	12500
JY-BF-9.60	9.60 x 4.60 x 1.55/3.45	150	9.2	6	17000	17000

Freefall lifeboats

Cargo version

The cargo version of freefall lifeboats is available in different sizes with capacities ranging from 16 up to 75 persons. The drop height ranges from 16 meters to 25 meters, depending on the size of the vessel.



Туре	Dimension LxWxH	Capacity (p)	Speed (knots)	Davit load ABS (kg)	Davit load MED (kg)
JY-FN-4.90	4.90 x 2.25 x 0.86/3.10	16	6	4040	4040
JY-FN-5.80	5.80 x 2.55 x 0.90/3.10	25	6	5560	5560
JYM-FN-6.65	6.65 x 2.70 x 1.20/3.15	30	6	6337	6337
JY-FN-6.80	6.80 x 2.70 x 1.20/3.22	31	6	6439.5	6439.5
JY-FN-7.50	7.50 x 2.70 x 1.20/3.22	35	6	7374	7374
JY-FN-8.50	8.80 x 2.94 x 1.20/3.30	40	6	8422	8422
JY-FN-9.50	9.50 x 3.23 x 1.06/3.50	51	6	10810	10810
JY-FN-13.0	13.0 x 3.70 x 1.06/3.50	50	6	16500	16500
JY-FN-13.6	13.6 x 3.74 x 1.06/3.55	60	6	21140	21140
JY-FN-15.0	15.0 x 3.70 x 1.06/3.55	70	6	21250	21250

Tanker version

The tanker version of freefall lifeboats is available in different sizes with capacities ranging from 16 up to 100 persons. The drop height ranges from 16 meters to 25 meters, depending on the size of the vessel. All tanker freefall lifeboats are equipped with a water- spraying system for fire protection and an air supply system (for the maximum number of persons, for a minimum of 10 minutes). A fully loaded lifeboat can run at 6 knots for 24 hours and all boats are delivered with a complete set of rescue equipment.



Туре	Dimension LxWxH	Capacity (p)	Speed (knots)	Davit load ABS (kg)	Davit load MED(kg)
JY-FF-4.90	4.90 x 2.25 x 0.86/3.10	16	6	4320	4320
JY-FF-5.80	5.80 x 2.55 x 0.90/3.10	25	6	5890	5890
JYM-FF-6.65	6.65 x 2.70 x 1.20/3.15	30	6	6637	6637
JY-FF-6.80	6.80 x 2.70 x 1.20/3.22	31	6	6739.5	6739.5
JY-FF-7.50	7.50 x 2.70 x 1.20/3.22	35	6	7724	7724
JY-FF-8.50	8.80 x 2.94 x 1.20/3.30	40	6	8722	8722
JY-FF-9.50	9.50 x 3.23 x 1.06/3.50	51	6	11485	11485
JY-FF-13.0	13.0 x 3.70 x 1.06/3.50	50	6	17250	17250
JY-FF-13.6	13.6 x 3.74 x 1.06/3.55	60	6	21740	21740
JY-FF-15.0	15.0 x 3.70 x 1.06/3.55	70	6	22000	22000
JY-FF-16.5	16.5 x 3.74 x 1.06/3.55	100	6	25500	25500



EO rescue and fast rescue boats

The International Convention for the safety of Life at Sea (SOLAS) of 1914 dictates that every ship needs to carry rescue boats. Since then the development of rescue vessels has seen a tremendous innovative growth. New developments in boat design and materials helped to improve speed and durability.

The rigid Fast Rescue Boats (FRB's) are primarily used for SAR/MOB operations, because of their fast response time and big capacity. They can also be used for crew transfer, inspections, patrols and so on. Beacause of their deep V-shapped hulls they have excellent performance on sea, also at high speeds.

The Fast Rescue Boats produced by EO Lifesaving comply with the latest SOLAS requirements and LSA code. We produce FRB'S with a capacity from 8 to 16 persons and with top speeds from 22 knots to 30 knots.





EO Rescue boats

EO rescue boats

At EO Lifesaving we distribute multiple open Rigid Rescue Boats designed for offshore operations.



Туре	Dimensions	Capacity (p)	Speed (knots)	Davit load ABS (kg)	Davit load MED (kg)
GJ4.20 25 hp Mercury	4.20 x 1.86 x 0.86	6	6	1045	1045
GJ4.20 40 hp Mercury	4.20 x 1.86 x 0.86	6	6	1119	1119
GJ4.25/A 25 hp Mercury	4.25 x 1.84 x 0.75	6	6	954	954
GJ4.50 25 hp Mercury	4.50 x 1.86 x 0.86/2.58	6	6	1190	1190
GJ4.50 Siyang 380J-3	4.50 x 1.86 x 0.86/2.58	6	6	1280	1280
GJ4.50 Bukh DV 24	4.50 x 1.86 x 0.86/2.58	6	6	1280	1280
GJ5.00 40 hp Mercury	5.00 x 1.86 x 0.90/2.58	6	6	1241	1241
GJ5.00 60 hp Mercury	5.00 x 1.86 x 0.90/2.58	6	6	1271	1271
GJ5.25 Siyang 380J-3	5.25 x 2.00 x 0.90/2.58	6	6	1270	1270
GJ5.25 Bukh DV 24	5.25 x 2.00 x 0.90/2.58	6	6	1343	1343

GI fast rescue boats

The EO Fast Rescue Boats (FRB's) are primarily used for SAR/ MOB operations, because of their fast response time and big capacity. They can also be used for crew transfer, inspections, patrols and so on. Because of their deep Vshaped hulls they have excellent performance on sea, also at high speeds.



Туре	Dimensions	Capacity (p)	Speed (knots)	Davit load ABS (kg)	Davit load MED (kg)
GJ 6.10 Outboard 60 hp	6.10 x 2.20 x 0.90/2.30	8	22	1631	1631
GJ 6.10 Outboard 90 hp	6.10 x 2.20 x 0.90/2.30	8	25	1697	1697
GJ 6.0B-1 Twin 2 x 60 hp	6.00 x 2.15 x 1.10/2.30	13	28	2532.5	2532.5
GJ 6.0B-1 Inboard 236 hp	6.00 x 2.15 x 1.10/2.30	13	30	2761.5	2761.5
GJ 750 Inboard 236 hp	7.50 x 2.32 x 1.10/2.30	13	30	3077.5	3077.5
GJ 8.0 Q-2	8.05 x 2.80 x 1.10	16	30	4700	4700
GJ 8.50 Q-2	8.50 x 2.80 x 1.10	16	30	4950	4950

Blue Spirit and custom fast rescue boats

With the brand name Blue Spirit, EO Lifesaving designs and builds custom GRP patrol and fast rescue boats of the RIB type (rigid hull inflatable boats). Our existing boat lines proved their selves as the ideal starting platform for a boat built according to your specifications.



Туре	Dimensions	Capacity (p)	Speed (knots)	Davit load ABS (kg)	Davit load MED(kg)
BS 620 FRC Jet	6.20 x 2.47 x 2.65	10	28	2615	2615
BS 620 FRC Outboard	6.20 x 2.47 x 2.65	10	28	2307	2307
BS 620 FRC Sterndrive	6.20 x 2.47 x 2.65	10	28	2615	2615
BS 750 FRC Jet	7.52 x 2.81 x 2.65	16	30	3920	3920
BS 750 FRC Outboard	7.52 x 2.81 x 2.65	16	30	3290	3290
BS 750 FRC Sterndrive	7.52 x 2.81 x 2.65	16	30	3720	3720



Davits

Rescue boat davits / Combined davits

The davit system for rescue boats is suitable for both a rescue boat (RB) and one or more life rafts (LR). After the lifeboat is waterborne a so-called "Quick Return Unit" retrieves the hook, and the life rafts can be lowered. The safe working load and outreach of the davit is normally determined by the size of the life raft, so there is a limited range of standard designs which can be adapted to some extent to meet individual needs. (*I-r is life raft – rescue boat swl)



Туре	Slewing type	Capacity (kN)	Reach (m)	Lowering height (m)
EOL CM 52	Manual	10	3.0/3.5/4.0	std 20
EOL CM 144	Hydraulic	10	4.5	std 20
EOL CH 52	Hydraulic	10/12/13	3.0/3.5/4.0/4.5	std 20
EOL CH 144	Hydraulic	17/12	4.0/4.5/5.3	std 20
EOL CM 52 *(<i>l-r</i>)	Manual	15-10	3.5	std 20
EOL CM 144 *(<i>l-r</i>)	Hydraulic	23-10/36-10	4.0	std 20
EOL CH 52 *(<i>l-r</i>)	Hydraulic	15-12	3.5	std 20
EOL CH 144 *(l-r)	Hydraulic	21-12/23-17/36-17	4.0/4.5	std 20

Life raft davits

The davit system for life rafts can lift a fully loaded life raft with 14 up to 33 persons, with a lowering height (m) std 20. The safe working load and outreach of the davit is normally determined by the size of the life raft, so there is a limited range of standard designs which can be adapted to some extent to meet individual needs.



Туре	Slewing type	Capacity (kN)	Reach (m)	Lowering height (m)
EOL CM 52	Manual	12/15	3.0/3.5/4.0	std 20
EOL CM 144	Manual	21/23/36	4.0/4.5	std 20

FRC davits

The davit systems for rescue boats have a capacity of 10 to 37.5 Kn, with a lowering height (m) std 20. All davit systems for rescue boats use gravity for lowering the boat by hydraulic slewing.



Туре	Slewing type	Capacity (kN)	Lowering height (m)
EOL DAF 120	Hydraulic	12	std 20
EOL DAF 160	Hydraulic	16	std 20
EOL DAF 275 E	Hydraulic	27.5	std 20
EOL DAF 375	Hydraulic	37.5	std 20

Gravity davits

The gravity lifeboat davit is a hinged gravity type davit that lowers the boat by use of its own weight (gravity) and are available for a capacity from 55 Kn to 170 Kn. The lifeboat is lowered without stopping, as turing out and lowering is a continuous motion. In case manual slewing is not allowed to recover the lifeboat, a hydraulic slewing davit van be used as an alternative.



Туре	Slewing type	Capacity (kN)	Lowering height (m)
LE 55	Gravity	55	std 20
LE 65	Gravity	65	std 20
LE 85	Gravity	85	std 20
LE 100	Gravity	100	std 20
LE 138	Gravity	138	std 20
HE 170	Gravity	170	std 20

Platform davits

The platform lifeboat davit is a hinged platform type davit, which lowers the boat by the help of its own weight. The lifeboat is lowered without stopping, as turning out and lowering of the platform davit is a contenuous motion. Recovery of the lifeboat is done by the use of a permanently mounted motor on the winch.



Туре	Slewing type	Capacity (kN)	Lowering height (m)
PL 65	Fixed frame-gravity lowering	65	std 45
PL 85	Fixed frame-gravity lowering	85	std 45
PL 110	Fixed frame-gravity lowering	110	std 45
PL 138	Fixed frame-gravity lowering	138	std 45
PL 180	Fixed frame-gravity lowering	180	std 45

Free fall boat davits

The freefall systems davit consists of a ramp with rollers and a winch and is mounted on the deck. The entrance platform for the freefall system needs to be designed by the client. Recovery of the lifeboat is done using a permanently mounted motor on the winch.



Туре	Slewing type	Capacity (kN)	Lowering height (m)
FFH 55	Ramp with rollers	55	approx 20
FFH 75	Ramp with rollers	75	approx 20
FFH 85	Ramp with rollers	85	approx 20
JYF105	Ramp with rollers	105	depending on type free fall
JYF180	Ramp with rollers	180	depending on type free fall
JYF220	Ramp with rollers	220	depending on type free fall



Hook modifications

The new IMO regulations

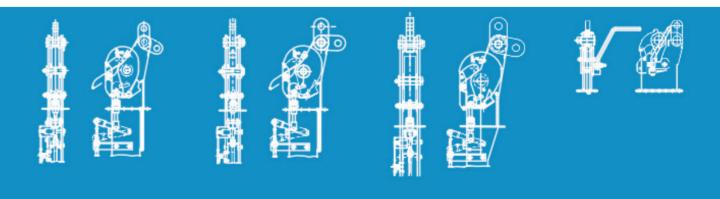
Resolution MSC.320. Amendments to the LSA code:

- •• The mechanism shall not be able to open due to wear, misalignment, and unintended force within the hook assembly or operating mechanism.
- •• The hook assembly shall continue to be closed and hold its safe working load through rotation of the cam by up to 45 degrees in either direction.
- •• To provide hook stability, the release mechanism shall be designed so that when it is fully reset in the closed position, the weight of the lifeboat does not cause any force to be transmitted to the operating mechanism.
- •• Locking devices shall be designed so that they cannot become open due to forces from the hook load.
- •• All components of the hook unit in a lifeboat shall be of material that is corrosion resistant in the marine environment, without the need for coatings or galvanizing.

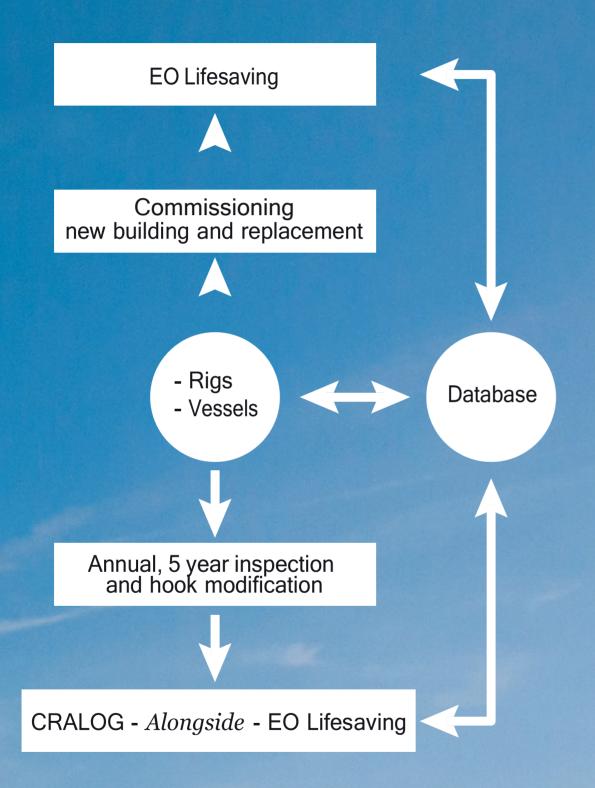
Resolution MSC.321. Prototype testing:

- •• The lifeboat release and retrieval system loaded to 100% of its safe working load and released. Load and release should be repeated 50 times.
- •• The hook assembly, whilst disconnected from the operating mechanism, should then be tested 10 times with cyclic loading from zero load to 1.1 times the safe working load, at a nominal 10 seconds per cycle, and the hook should not open during this test.





EO Lifecycle program With the EO lifecycle program we provide a one stop solution for our clients: service - rigging - repair - sales - commissioning Our program begins with the flowwing service: Installation of life saving equipment. Commissioning of life saving equipment. Annual and 5-year survey on lifeboats, rescue boats, launching appliances and release gears. Load tests with water bags. Maintenance and repairs. Genuine spare parts supply. Instruction and training programs of customers during service work on above mentioned products. Constant technical assistance and immediate availability of skilled experts are only some of ourstrengths. We ensure the availability of our serice engineers. Worldwide lifecycle program service - rigging - repair - sales - commissioning



CRALOG - *Alongside* - **EO** Lifesaving

CRALOG - Alongside - EO Lifesaving facilitate certification through a database intended for service engineers, ship owners, Vessels and Offshore management companies.

The CRALOG Academy is recognized by the Danish Maritime Authority.

CRALOG and EO Lifesaving work closely together under the name 'Alongside' and have established a global network with service engineers and distributors. These activities are carried out by service engineers who are trained multi purposes, and have the following approvals:

- Manufacturer training certificates
- Classification approval as authorized service suppliers
- Flag state approval as authorized service providers

The aim of this network is to simplify and perform service and certification related to lifesaving appliances, deck cranes and gangways. Besides service, the CRALOG -

Alongside - EO Lifesaving distributors deliver also new and used lifesaving equipment.

CRALOG - Alongside - EO Lifesaving service engineers and distributors take care of inspection, repairs, certification and making reports on ships and offshore installations. All inspection reports and certificates

are stored in the CRALOG - Alongside - EO Lifesaving Database.

For ship owners, Vessel Management and Offshore companies it is easy to request certificates and inspection reports via the automated certification system 24/7, 365 days a year.

It is also possible to search the database for a service engineer and distributor in a port of arrival or in the immediate vicinity of the port.

Through this system, we offer fast service that is always available. Direct contact via the website, e-mail and telephone is also possible.

When a service provider or distributor is temporarily not available it is also possible to contact CRALOG - Alongside



- EO Lifesaving, they will assist in finding an available service provider/ distributor who can help to service on location in the fastest and most economicalway.

Optimal key points for ship owners, Vessel and Offshore Management companies:

- Online survey about certificates and inspection of lifesaving appliances, deck cranes and gangways.
- Global network of service providers and distributors.
- Multipurpose trained service engineers on board.
- One service company on board for service instead of three service companies for your lifesaving equipment, deck cranes and gangways.
- Know how.
- Approvals checked by manufacturer, flag state and Classification society.
- Online and direct delivery of certificates and inspection reports.
- Support, delivery, and commissioning of new equipment by EO Lifesaving distributors



