

CERTIFICATE OF APPROVAL OF SERVICE SUPPLIER

CERTIFICATE NO. SSU018724XP

This is to certify that

VESSTECH GROUP SP. Z O.O.

UL. WALY PIASTOWSKIE 1/1504
80-958 Gdansk POLAND

*Has been approved in compliance with the
RINA "RULES FOR THE CERTIFICATION OF SERVICE SUPPLIERS"
for the supply of the following services to ships and other units classed by RINA:*

**N - Maintenance, thorough examination, operational testing,
overhaul and repair of lifeboats and rescue boats, launching
appliances and release gear**

Date of the audit: **18 Jul 2024**

Issued in **GDANSK**

on **12 Aug 2024**

This Certificate is valid from the date of the audit until

17 Jul 2027

This certificate consists of this sheet plus an attachment.



This is an electronically signed document and does not require a handwritten signature.

Tomasz RACHWALSKI

RINA Services S.p.A.



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**ATTACHMENT TO
CERTIFICATE NO. SSU018724XP**

VALIDITY CONDITIONS

Service supplier's approval is valid pending the CRALOG A/S certification by RINA - cert. No. SSU027623XD

N - Maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear

This service supplier is certified according to the 'RINA Rules for the Certification of Service Suppliers' to carry out maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear in accordance with SOLAS Regulation III/20 for the list of makes and models/series of equipment in the attached Annex N.

Note 1: For the purpose of application of IMO Resolution MSC.402(96), including Corr.1, the service supplier is to be authorized by the Flag Administration under which the ship is registered.

For Flag Administrations which have authorized RINA as their Recognized Organization and accept RINA 'Certificate of Approval of Service Supplier' as equivalent to their authorization document to the Service Provider, according to the IMO Resolution MSC.402(96), including Corr.1, this Certificate may be accepted also for statutory purpose, in lieu of the Flag's authorization document to the Service Provider, allowing the firm to provide their services on the makes and models/series of equipment listed in the Annex N to this Certificate.

Note 2: This certificate of approval is also issued on behalf of Italian Administration according to the Italian 'Executive Decree n. 321' dated 21st April 2020 and Circular NDS n. 22/2021.

Therefore, this Service Provider is authorized to provide their services on board ships flying Italian flag for the makes and types of equipment defined according to ISO/PAS 23678, listed in the table of Annex N to this Certificate, without prejudice to the particular requirements in the aforementioned Italian official documents.

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessments
- c) RINA personnel are to be allowed to witness during the performance of activities, upon their request
- d) The activities are to be carried out in compliance with the RINA Rules and or other applicable rules
- e) RINA may revoke the approval at any moment in the case of modifications to requirements or conditions for the approval



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Tomasz RACHWALSKI
RINA Services S.p.A.



Annex N

List of makes and types of equipment

SURVIVAL CRAFT	
Type Twin Fall Totally enclosed lifeboats tanker/ dry version	
MAKE	MODEUSERIES
Acebi	TELB, PELB, series
Balden	BO-LB BD-R, series
Beiyang Boatbuilding Co.Ltd	TECB series
DSB Engineering Co Ltd	DSBF, DSBC, series
Fassmer / Marland	CL; CLX, CLR; GMR, TGMR, HH, Dragon series
Gepa	G-FK -FP, GFK series
Greben	TEL series
Harding (Umo Schat Harding) (Palfinger)	LBT, MCM, MCF, MCB, TECB series
Hatecke (Ernst Hatecke)	GSL series
Hoei Senpaku	HS , HS-Fseries
HLB (Hyundai Lifeboats)	HDL, HDL-CF, HLB, HT series
IHI Marine United Inc	GTC, GTR-F, GTC-C, GTC-F, GT-F,
Japan Marine United Corp	GF, GTR Series
Jiangyinshi Beihai	JYB-F, JYB-C series
Jiangsu Jiaoyan (Jiangyin Xingjiang) F.R.P. Co., Ltd	JYQ- FP, JYQ- FN series
Jiangyin Neptune Marine Appliance Co., Ltd.	NPT-C, NPT-F, SC, series
Jiangyin Wolong F.R.P. Boat Co. Ltd	JYCA, JYFA , JYC, JYF series
KANG NAM. corporation	GTB series
Mulder En Rijke (Palfinger)	TELB series
Ned-Deck Marine (Palfinger)	NPT, PN series
Nishi-F Co., Ltd., (Ex. Ishihara Dockyard, Nishi-Nippon)	CML, EML ,G-TR, G-FR series
Ningbo Asia F.R.P. Boat Manufacturing Co Ltd	YZC/ F series
Ningbo New Marine Lifesaving Equipment Co. Ltd	NM series
Noreq (Palfinger)	LBT series
OY Fiskars AB	TELB series
Palfinger	KISS-C. KISS-T, NPT-C, NPT-F, series
Pesbo S.A	BSL, BSC series
Qingdao Beihai Shipbuilding Heavy Industry CO. LTD.	BH-C BH-T, Dolphin series
Shigi Shipbuilding Co Ltd	SZBR/ BRS SZTR / TRS , series
Stocznia Utska SP. Z.O.O	Z series
Survitec	SC series

Tsuneishi	TL-TE, KL-TE, KL-FP,TE,FP series
Vanguard	VG-C, VG-F, VG-HLB series
Viking / Norsafe	JYN-T, JYN-C, JYN-MKI, Miram, Maud, Maggie, Maxima, Matilda series
Waterman (Palfinger)	368, 377,351,366,371,379, 366JHRL,371HRL series
Watercraft (Schat Harding) (Palfinger)	Mk 1,2,3,4, 5 series
Wuxi Haihong	HH-C, HH-T, HH-TS, HH-CS, series
Wuxi Wenjiao	WJBF, WJBC, series
Vanguard	VG-C, VG-F, VG-HLB
Verhoef	DR series
Zhenjiang Marine Auxiliary Machinery Works	YH-DR, YH-QFP Series
Zhenjiang Hengxin Ship Equipment Co. Ltd.	BCC, BCF series

Type Single Fall Totally Enclosed lifeboats conventional /tanker/dry version

Survival Systems Int	CA series
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Type Totally Enclosed Lifeboat free fall tanker/dry version

MAKE	MODEUSERIES
Balden	BD-FFT, BDFFC series
DSB Engineering Co Ltd	DSBFF, DSBFC series
Fassmer	CFL,GAR, GAR-T series
Fassmer / Marland	CFL-C,CFL-T
Gepa	G-FFF series
Greben	FFL series
Harding (UMO Schat Harding) (Palfinger)	FF, LBF series
Hatecke (Ernst Hatecke)	GFF series
Hyundai	HDFN-T, HDFN-F, HDFL series
Jiangyinshi Beihai	JYB-FF, JYB-FC series
Jiangyin Neptune Marine Appliance Co., Ltd.	NPT-FF, NPT-FA NPT FC, NPT-FCA series
Jiangsu Jiaoyan (Jiangyin Xingjiang F.R.P. Co., Ltd)	JY-FF, JY-FN, JYM-FF series
Jiangyin Wolong F.R.P. Boat Co. Ltd.	JYCF,JYFF series
Ningbo Asia F.R.P. Boat Manufacturing Co Ltd	YZFF/ FC series
Ningbo New Marine Lifesaving Equipment CO. LTD	NM-FF series
Nishi-F Co., Ltd., (Ex. Ishihara Dockyard, Nishi-Nippon)	FF series
Noreq	LBF series
Palfinger	FF, NPT-FF, NPT-FC series
Pesbo S.A	BSL series
Qingdao Beihai Shipbuilding Heavy Industry Co. Ltd.	BH-F series
Shigi Shipbuilding Co Ltd	FEL series
Stocznia Utska SP. Z.O.O	FFB series
Survitec	FF series
Viking / Norsafe	JYN-F, GES, series
Watercraft (Schat Harding) (Palfinger)	WFF series
Wuxi Haihong Boat Making Co., Ltd	HH-FC / FF
Wuxi Wenjiao	WJFF ,WJFFC series
Verhoef	FL 50 series
Zhenjiang Just Marine Equipment Co., Ltd	ZJM-FF, ZJM-4.0
Zhenjiang Marine Auxiliary Machinery Works	YH,

Type Open-Lifeboat twin Fall

MAKE	MODEUSERIES
IHI Marine United Inc	G series
Shigi	SZGO, SZGM, series
Ningbo Asia F.R.P. Boat Manufacturing Co Ltd	BJ SERIES
Nishi-F Co., Ltd., (Ex. Ishihara Dockyard, Nishi-Nippon)	NF, NFA series
Jiangyinshi Beihai	JYB series
Jiangyin Wolong F.R.P. Boat Co. Ltd	JYK,series
Wuxi Haihong Boat Making Co., Ltd	BH, BJ series
Wuxi Wenjiao	WJ,, BH,, BJ series

Type Partially Enclosed lifeboat twin fall

MAKE	MODEUSERIES
Acebi	PELB, series
DSB Engineering Co Ltd	DSBP series
Fassmer	CL-P, SEL, PLL, PLT, series
Gepa	G-FYK series
Greben	PL, PEL series
Harding (Umo Schat Harding) (Palfinger)	MPC,CTL, ML series
Hatecke (Ernst Hatecke)	PEL series
Jiangyinshi Beihai	JYB-B; series
Jiangyin Neptune Marine Appliance Co., Ltd.	NPT-P,NPT-PT
Jiangyin Wolong F.R.P. Boat Co. Ltd	JYP series
Mulder En Rijke (Palfinger)	PELB, PELBT, series
Nishi-F Co., Ltd., (Ex. Ishihara Dockyard, Nishi-Nippon	PML series
Noreq (Palfinger)	LBP series
Palfinger	CTL, NPT-P, MPC series
Qingdao Beihai Shipbuilding Heavy Industry Co. Ltd.	BH10
Shigi Shipbuilding Co Ltd	SZP, SZPR, series
Viking / Norsafe	Minima, series
Watercraft (Harding) (Palfinger)	PERB, PELB, MOB, MOBRC, series
Waterman (Palfinger)	367, 365, 391,393 series

Type Rescue Boat single fall	
MAKE	MODEUSERIES
Ambar Marine	AM-420
Avon	RB, SR series
Balden	BD-R series
CASTOLDI S.r.l.	JET TENDER 18 RB
Dafer / Narwhal	SV series
DSB Engineering Co Ltd	DSBR, DSBRA series
DSB Deutsche Schlauchboote	IRB series
Fassmer	RR series
Fassmer Marland	RR series
Gepa	G-RB series
Greben	RB series
Harding (Umo Schat Harding) (Palfinger)	MOB series
Hatecke (Ernst Hatecke)	RB series
HLB (Hyundai Lifeboats)	HOR series
Jiangyinshi Beihai	JYB-R, JYB-KR,SC-KR, SC-K series
Jiangyin Neptune	NPT-R, NPT-RA, NPT-RB, NPT-RFA, series
Jiangsu Jiaoyan (Jiangyin Xingjiang F.R.P. Co., Ltd)	GJ series
Jiangyin Wolong	JYDR, KYKR; series
Mare Safety	RB series
Narwal	SV, series
Ned-Deck Marine	NDM 4,40 Rescue
Noreq (Palfinger)	RRB series
Ningbo Asia F.R.P. Boat Manufacturing Co Ltd	YZ,BJ series
Ningbo New Marine Lifesaving Equipment CO. LTD	NM45R series
Palfinger	RSQ series
Qingdao Beihai Shipbuilding Heavy Industry Co. Ltd.	BH-R saris
Shigi Shipbuilding Co Ltd	SZRS, VOX46 series
Stocznia Utska SP. Z.O.O	R, RIB
Valiant	RB-450 series
Vanguard	VG-KR, VG-DRS series
Viking / Norsafe	Matrix, Midget, Merlion, Mako series
Viking Neuvisa	RR-40
Watercraft (Watercraft Hellas) (Palfinger)	4.9 RB
Wuxi Haihong Boat Making Co., Ltd	JG series

Wuxi Wenjiao	WJ, series
Zhenjiang Marine Auxiliary Machinery Works	YH-FRA, YH-R series
Zhenjiang Hengxin Ship Equipment Co. Ltd.	GJ series
Zodiac Hurricane	H561 PROLUXE, RIBO
Zodiac (Survitec)	RIBO

Type Fast Recue Boat Single Fall	
MAKE	MODEUSERIES
Alusafe	FRB 700, 900 series
Dafer I Narwhal	FRB-700, SV-750 series
Delta	comet, phantom, series
DSB Engineering Co Ltd	DSBRA, DSB RB series
Fassmer	FRR, FRIR series
Gepa	G-FRB series
Hatecke (Ernst Hatecke)	FRB series
HLB (Hyundai Lifeboats)	HDFR series
Jiangyinshi Beihai	JYB-G, JYB-Q series
Jiangyin Neptune	NPTR, NPTRA, NBTRB, NPTRFA series
Jiangsu Jiaoyan (Jiangyin Xingjiang F.R.P. Co., Ltd)	GJ-6.0 B, GJ 610, GJ 7.5, GJB.0Q-2 series
Jiangyin Wolong F.R.P. Boat Co. Ltd.	JYKR series
Mare Safety	FRB, GTC 700 series
Maritime Partners (Alusafe), (Weedo), (Sea Bear)	Alusafe 700,770, 17 SOLAS, 1200DC, Weedo, 600,660,700,, Springer 660 , Sea Bear series
Narwal	SV, FRB series
Ned Deck Marine	FRSQ series
Ningbo Asia F.R.P. Boat Manufacturing Co Ltd	YZRA / RB series
Nishi	FRP series
Normar	FRC series
Noreq	FRB series
Qingdao Beihai Shipbuilding Heavy Industry Co. Ltd.	BH-HR7, FRB series
Palfinger	FRSQ series
Shigi	FRP series
Survitec	SC60RA
Survival Systems Int.	FRC series
Vanguard	VG-FRK, VG-FRW series
Viking / Norsafe	Merlin, Midget-530 MK II WATER JET, Magnum, Mako, Maya
Wuxi Wenjiao	WJRB, WJRA, series
Zodiac	H472S, RIB series
Zhenjiang	YH-FRB series

RELEASE GEAR

Type Lifeboat On-Load - lift not over centre; locking device -flat to flat rotating cams

MAKE	MODEUSERIES
Balden	BD-LBH series
Hoei Senpaku Co., LTD	HS series
HLB (Hyundai Lifeboats)	Talon Mk 1 series
Norsafe I VikinQ	Tor Mk1, Mk 2 series
Qingdao Beihai Shipbuilding Heavy Industry Co. Ltd.	BG series
William Mills	Titan series

Type Lifeboat on load lift not over centre, Curve to flat rotating

MAKE	MODEUSERIES
Fassmer	Duolux > 6t series
Hatecke	Duolux - > 6t series
Hoei Senpaku Co., LTD	HS650 96, HS 520 96 series

Jianavinshi Beihai	JYB-HK series
Jiangyin Neptune Marine Appliance Co., Ltd.	NPT-HK, NPT 50 series
Jianavin Wolong	HK series
Ningbo Asia F.R.P. Boat Manufacturing Co Ltd HK	HK series
Nishi-F Co., Ltd,. (Ex. Ishihara Dockyard, Nishi-Niooon)	SR-3, NS series
Shigi Shipbuilding Co. Ltd.	SRS series
Vanauarde	SH, C-safe series
Zhenjiang Marine Auxiliary Machinery Works	HK series
Type Lifeboat on load lift not over centre; Forward or reverse curve to curve rotating cams	
MAKE	MODEUSERIES
Fassmer	Duplex - < 6.6
BC Service	UHook
Harding	LHR Mk 1, LHR M2
Hatecke	Duplex - <6t series
Hyundai	Talon Mk 2 series
Jiangyin Neptune Marine Appliance Co., Ltd.	PN-HCK, NPT-HCK series
Jianavin Wolona	LB80MR series
Palfinger	LHR, LHR M2 series
Survitec	Safe Launch series
Mad Rock	RocLoc series
Type Lifeboat on load lift not over centre; Up and Down Pins/ Collars	
MAKE	MODEUSERIES
Greben	NLH series
Hoei Senoaku Co., LTD	HS650 83 HS 520 83 series
IHI Marine United Inc.	JX1 series
Jiangsu Jiaoyan (Jiangyin Xingjiang F.R.P. Co., Ltd)	JXN,JX-1 , JX1B, JXN-1B,JXN-1C series
Jianavin Wolona F.R.P. Boat Co. Ltd.	JX-1, FHK series
Nishi-F Co., Ltd,. (Ex. Ishihara Dockyard, Nishi-Nippon)	IHM/ 12/13 series
Shiai Shipbuildina Co. Ltd.	SZK5 SZK series
Tsuneishi	43GS-1 series
Type Free Fall Hydraulic/ Mechanical	
MAKE	MODEUSERIES
Bada Heavv Industries	BHA series
DAE JIN Co. LTD	THP-1B series
Fassmer	F series
Hatecke	GFF series
Harding/ Palfinaer	FFH series
Jianavinshi Beihai	JYB-HKF, series
Jiangsu Jiaoyan (Jiangyin Xingjiang F.R.P. Co., Ltd)	JX-2 series
Jianavin Neptune	NPT-70HKF series
Jianavin Wolong F.R.P. Boat Co. Ltd.	FHK series
Nishi-F Co., Ltd,. (Ex. Ishihara Dockyard, Nishi-Nippon)	ML, F seires
Normar	JX-2
Norsafe/ Viking	HRS, NFFH, series
Pesbo S.A	BSL series
Verhoef	Twistlock series

Type Lifeboat On-Load - lift over centre	
MAKE	MODEUSERIES
SSI	SureSafe
SSI	Triple 5, Triple 5 LX
Vikino / Nadiro	DIB series
Type Rescue boat Offload lift over centre	
MAKE	MODEUSERIES
Bada Heavy Industries	BHR series
BC	U Hook
Davit International	OLH series
Global Davit	HRN series
Hatecke	Simplex 2.0i offload series
Sezamor	HLR18
Type Fast Rescue Boat Offload	
MAKE	MODEUSERIES
Jiangyin Neptune Marine Appliance Co., Ltd.	NPT30HK
Viking / Norsafe	K4 series
Type Rescue Boat Offload w. on-load capability	
MAKE	MODEUSERIES
Sada Heavy Industries	BHR255 series
Davit International	RH series
Global Davit	HR series
Hatecke	Simplex 1.1, Simplex 1,85 -series
Jianavin Neptune	NPT-HK 25R series
Palfinoer / Harding	RRH series
T-ISS BV	PX02 series
Wuxi Xingsheng	XS15 series
Type Fast Rescue Boat Offload w. on-load capability	
MAKE	MODEUSERIES
Jianovinshi Beihai	JYB-HK series
Jiangsu Jiaoyan (Jiangyin Xingjiang F.R.P. Co., Ltd)	JXN-3 series
Jianavin Wolono F.R.P. Boat Co. Ltd.	HK series
Noreq (Palfinoer) (Hardino)	JXN-3
Qingdao Beihai Shipbuilding Heavy Industry Co. Ltd.	BG-2R series
T-ISS BV	PX03
Wuxi Wenliiao	HK series
Zhenjiang Marine Auxiliary Machinery Works	HK 40
Type Fast Rescue Boat Off Load Manuel or Automatic	
MAKE	MODEUSERIES
Henriksen	HMK, HMK-ST, HCH series
Harding / Palfinger / Fast RSQ	CAR 35 F
Type Rescue boat / Davit Launched Liferaft lift over centre automatic	
MAKE	MODEUSERIES
Sada Heavy Industries	BHA series
Balden	BOHR series
Chang Sheng	35kN
Crantson Eagle	APR-356-CB/CBH series

Gepa	G-K
Global Davit	HRL.26
HardinQ	ARH 23 series
Hatecke (Ernst Hatecke)	RAFTI 2.5
Neddeck	CAR 35 series
Jiangyin Neptune Marine Appliance Co., Ltd.	NPT-HK25F
Lalzas Lifesaving	LAR 36
Mansei	RH series
Optimun Marine	31-37KN
PalfinQer	CAR 35 series
Servoship	200 series
Sezamor	HS series
Survitec	SLA 3.5
T-ISS BV	PX 01, PX02 series
Viking / Norsafe	RCH 36 series
Wuxi Mingzi Machinery Manufacturing Co., Ltd	15kN, 25kN, 31-37kN series
Wuxi Xingsheng	XS series
Type Free Fall Hydraulic / Mechanical	
MAKE	MODEUSERIES
Bada Heavy Industries	BHA series
DAE JIN Co. LTD	THP-18 series
Fassmer	FFH45 series
Hatecke	GFF series
Hardina / Palfinger	FFH series
Jianavinshi Beihai	HKF, series
Jiangsu Jiaoyan (Jiangyin Xingjiang F.R.P. Co., Ltd)	JX-2 series
Jiangyin Neptune Marine Appliance Co., Ltd.	NPT-70HKF
Ningbo New Marine Lifesaving Equipment CO. LTD	JX-2 series
Normar	JX-2
Nishi-F Co., Ltd., (Ex. Ishihara Dockyard, Nishi-Nippon)	ML, F seires
Norsafe I Viking	GES series
Verhoef	Twistlock series

Type Devices for activating release; Central Release Unit	
MAKE	MODEUSERIES
Balden	BD-LBH series
BC	U Hook
Fassmer	Duplex > 6t , Duplex - < 6.6 series
Greben	NLH series
Hatecke	Duplex - > 6t, Duplex - <6t series
IHI Marine United Inc.	JX1 series
Jianavinshi Beihai	JYB-HK series
Jiangsu Jiaoyan (Jiangyin Xingjiang F.R.P. Co., Ltd)	JXN,JX-1 , JX1B, JXN-1B,JXN-1C series
Jiangyin Neptune Marine Appliance Co., Ltd.	NPT-50 , NPT-HAN, PNHKG series
Jiangyin Wolong F.R.P. Boat Co. Ltd.	JX-1, HK, LB80MR, series

Ningbo Asia F.R.P. Boat Manufacturing Co Ltd HK	HK series
Hoei Senpaku Co.LTD .	HS, HS650 96, HS 520 96 series
HLB (Hvundai Lifeboats)	Talon Mk 1, Talon MK 2 series
Mad Rock	RocLoc series
Nishi-F Co., Ltd., (Ex. Ishihara Dockyard, Nishi-Nippon)	NS, IHM/ 12/13 series
Norsafe I Viking	Tor Mk1, Mk 2 Nadiro D.I.B.series
Qingdao Beihai	BG series
Palfinger (Harding)	LHR Mk 1, LHR M2 series
Shigi Shipbuilding Co. Ltd	SRS, SZK5, SZK30 series
Survitec	Safe Launch series
SSI	Triple 5, Triple 5 LX series
Tsuneishi	43GS-1 series
Vanguard	S, C-safe series
William Mills	Titan series
Type Devices for activating release Free Fall Hydraulic Primary and Secondary	
MAKE	MODEUSERIES
Bada Heavy Industries	BHA series
DAE JIN Co. LTD	THP-1B series
Fassmer	F, FFH45 series
Hatecke	GFF series
Harding (PalfinQer)	FFH series
Jianavinshi Beihai	HKF, series
Jiangsu Jiaoyan (Jiangyin Xingjiang F.R.P. Co., Ltd)	JX-2 series
Jiangyin Neptune Marine Appliance Co., NPT-70HKF Ltd.	
Ningbo New Marine Lifesaving Equipment CO. LTD	JX-2 series
Nishi-F Co., Ltd., (Ex. Ishihara Dockyard, Nishi-Nippon)	ML, F seires
Normar	JX-2
Norsafe I Viking	GES series
Qingdao Beihai Shipbuilding Heavy Industry Co. Ltd.	BG-F series
Verhoef	Twistlock series
Type Devices for activating release; Hydrostatic Unit with Diaphragm	
MAKE	MODEUSERIES
BC	U Hook
Hoei Senpaku Co.LTD	HS, HS650 96, HS 520 96 series
Hyundai	Talon Mk 1 Mk 2 series
IHI Marine United Inc.	JX1 series
Jiangyinshi Beihai	JYB-HK series
Jiangsu Jiaoyan (Jiangyin Xingjiang F.R.P. Co., Ltd)	JXN,JX-1 , JX1B, JXN-1B,JXN-1C series
Jiangyin Wolong F.R.P. Boat Co. Ltd.	JX-1, LB80MR, series
Norsafe I Viking	Tor Mk1, Mk 2 series
PalfinQer (Harding)	LHR Mk 1, LHR M2 series
QinQdao Beihai	BG series
Survitec	Safe Launch series
Tsuneishi	43GS-1 series
Vanguard	S, C-safe series
William Mills	Titan series

Type Devices for activating release; Hydrostatic Unit with Float	
MAKE	MODEUSERIES
Fassmer	Duplex > 6t , Duolex - < 6.6 series
Hatecke	Duplex - > 6t, Duplex - <6t series
Jiangyin Neptune Marine Appliance Co., Ltd.	NPT-50 ,PNHKC, NPT-HAN series
Mad Rock	Rocloc series
Nishi-F Co., Ltd,. (Ex. Ishihara Dockyard, Nishi-Nippon)	NS, IHM/ 12/13 series
Shigi Shipbuilding Co. Ltd	SRS, SZK5, SZK30 series
Type Devices for activating release; Electronic Sensor	
MAKE	MODEUSERIES
Greben	NLH series
Norsafe / Viking	Nadiro D.I.B.series

DAVITS	
Type Gravity Twin / Single Fall Fixed Outboard	
MAKE	MODEUSERIES
Acebi	A, PF, AF series
Alexander Rvan	BH series
Bada Heavy industries	ORFP
Bianchi & Cecchi	/BC) PE, PET series
Davit International	O-FO, O-FOS series
Global Davit	Gsp.O, Rsp.O series
Greben	FOO series
Jianavinshe Beihai	PD series
Jianasu Jiaovan (Jianavin XinaiianQ F.R.P. Co. Ltd)	JYP series
Jianavin Neptune	NPT-DP, NPT-PL series
Jianavin Wolona	JYPL series
Harding (Umo Schat Harding) (Schat Davit Company) (Palfinaerl)	ORD,HD-FL series
Hatecke	Gsp.O
Navim Group	FDRB
Ned Deck Marine	FPG series
Nincibo New Marine Lifesaving Equipment Co. Ltd	nmpI
NOREQ (PALFINGER)	NRD, series
Nor Davit	PL series
Palfinaer	FPG series
Qingdao Beihai Shipbuilding Heavy Industry Co. Ltd	BD-PL series
Survival Systems Int	PI series
Vanauarde	PL series
VikinQ / Norsafe	AC p. series
Wuxi Huahai	PD series
Vanauarde	PL series
VikinQ / Norsafe	A C D. NDC series
Wuxi Huahai	PD series
Zhenlan Marine Auxiliary Machinery Works	PL series
Type Twin Fall Gravity Roller Track	
MAKE	MODEUSERIES
Acebi	GRA series
Bada Heavy Industries	BDTW
Davit International	D-RT series
Global Davit	Gsp.RT, Gsp.RT
Greben	GR-RTD series
Jianavinshe Beihai	RB-H, HB-H series
Jiancisus Jiaovan (Jianavin XinaiianQ F.R.P. Co. Ltd)	JYGR series
Jianavin Wolona	JYHE, series
Hardina (Umo Schat Hardina) / Schat Davit Comoanvi	GRA,HD-RT, ND, NT, series
Mansei (Murial (Muria Vada)	GRA AT series
Oriental Precision	RTD series
Palfinaer	NPT Series
Sekiaahara	AT. STS series
Sezamor	ZZ-ZtJ ZZ-ZtJ2 series
Tsuji Heavy Industries	TC T83 series
Vikina / Norsafe	E series- A C D. series
Watercraft	WRG series

Wuxi Donowu	25kN-30kN series
Wuxi Shenouo	SMDP series
Type Twin Fall Gravitv Luffina / Pivotina	
MAKE	MODEUSERIES
Acebi	SPG series
Arim	AHA, series
Bada Heavy industries	BDH, BDMS series
Davit International	D-NP, D-NP.MP series
Dona Nam Enterprise, Co Ltd	DLB series
Dongnam Marine	DHGD series
Donawoo Machinerv & Enaineerina Co., Ltd.	DWS
DSB Enaineerina Co Ltd	DSBDL, DSBDDL series
Fassmer	FPD series
Global Davit	Gso.FP, Gso.MP, Glo.FP, Glo.MPseries
Greben	SPG series
Harding (Umo Schat Harding) (Schat Davit Company) (Palfinaer)	HD-SPG, HO-VIP, SPG(L), SPG(VL) series
IHI Marine United Inc	MUL
Iknow Machinery (TSUJI)	HD series
Jianavinshi Beihai	BH-G, LB-H LA series
Jianasu Jiaovan (Jianavin Xinaiiana F.R.P. Co., Ltd)	JYL series
Jiangyin Neptune	NPT-DL, DP, DYL, series
Jianavin Wolona	JYPL series
Mansei (Muria) (Muria Vada)	ABD AH, AV, EM, EH M CM, MVD, SPGCVD) series
Ningbo Asia F.R.P. Boat Manufacturino Co Ltd	L series
Nor Davit	SOP series
Palfinaer	NPT, VIP series
Peleorini Marine Eauipment	GRA Series
Qingdao Beihai Shipbuildinci Heaw Industry Co. Ltd	BD-PV, series
Oriental Precision	HDG HGK, DHA, DMA series
Oriental Precision - Sekiaahara	SHS
Sekigahara	SFA, SFB, SFP, SHS series
Tsuji Heavy Industries	H series
Vanauarde	VL LE series
Vikino / Norsafe	E series
Wuxi Huahai	HMD series
Wuxi Donowu	18kN-110Kn
WUXI SHENGOU	SHMDL series
Youngnam Machinery Co. Ltd	YNBD
Zheniiano Marine Auxiliary Machinerv Works	L
Zhejiang Taizhou Wantong Marine Machinery CO Ltd	YSJ
TYPE Twin Fall Hydraulic Luffing / Pivoting	
MAKE	MODEUSERIES
Acebi	TPC series
Bada Heavv industries	BDTD series
Davit International	D-NP, D-SP series
DSB Enaineerino Co Ltd	DSBDYL series
Fassmer	FMPD series
Global Davit	Gso.FLh, Gso.FPh, Glo.FLh Glo.FPh series
Greben	HD, GD-PD series
Hatecke	GspFP
Harding (Umo Schat Hardina)	SPD series
Jiangyinshi Beihai	BHGH series
Jianasu Jiaovan (Jianavin Xinaiiana F.R.P. Co., Ltd)	JYHG series
Navim Group	SGHD- L, SPHD- T
Ned Deck Marine	PLG series
NOREQ TPALFINGER	NPD series
Palfinoer	PFH NPD series
TTS / Hydralift	HL9D
Vanauarde	PFH SRH series
Vikino / Norsafe	LH series
Zhenjiang Marine Auxiliary Machinerv Works	SRH series
Type Single Arm Slewing	
MAKE	MODEUSERIES
Abas	MDE, KDE series
Acebi	PFR TPU RRP series
Acuin	R18700
Acta	MOB ; DR DC, HSC series
Alexander Rvan	AREH series
Arim	AREH, ARPV series
A Tech	AT-LRD
Bada Heavv Ind. Co. Ltd (Ex. Daervuck Machinerv)	BDR, BLR series
Coastal Marine Eauipment Inc.	D series

Daesung	Combi series
Davit International	D-AS.S, D-CRM, D.BC.R, D-FOS D-BR , D-CRH.R, D- RC, D-RC.T, D.Cre.R D-SR04 series
Davit Comoanv	SRR series
Denizsan	DSRBD, DRBD, DRBLRD series
Dongnam Marine Crane Co Ltd	DCPV, DSAD, DSAC, DNRD, DR, DRLD,DRBLRD series
Donawoo Machinery & Engineering Co., Ltd	DBD series
DSB Engineering Co Ltd	DSB23DR series
EO Lifesaving	CH-52 R-LR
Fassmer	FSARR
FERRI	1872 series
Global Davit	Lms, Lms.s, Lmes.S,R Rms, Rmes.S, Rms.L, Rmes.L.S, Rms.S, Rms.L.S, Rhs, Rhs.L, Rhs.S, Rhs.L.S, Lml,RMI,Rhl, Rhp, Fhs,Fhs.S, Fhs.L, Fhs.R. Fhs.R.S. Fhs.R.L., Fhs.R.L.S, Rhs, Rhs.L. Rhs.L.S series
Greben	SAR series
Gibert & Schmalriede GmbH & Co. KG	PJ series
Gurdesan	GD-KHK GD-RRS series
Haeon Machinery Ind. Co. Ltd.	HED-PC
Hanyoung Enterprise	RBD series
IMT.CO, LTD	ILR series
Jiangyinshi Beihai	SA, SAC, SMR series
Jiangsu Jiaovan (Jian9yin Xinliiliana F.R.P. Co., Ltd)	JYR, JYRH JYRCA series
Jianavin Neotune	NPT-DR series
Jianovin Wolono	JYSA series
Juna-A-Marine Co., Ltd	PCRLC series
Kyoritsu Kikai	DBZ series
Harding (Umo Schat Harding) (Schat Davit Company) /Palfinorl	LAR,MOB, SAR,SPR, SRR series
Naviaations	1.1 series
Ned Deck Marine	SCH, SCM SCT, SEC series
Ninobo Asia F.R.P. Boat Manufacturing Co Ltd	YZ, ZFDZ series
NMF	BP, KD.2 series
Nore<J (Palfinaer)	SCH, SCHD, SCM-L, SCH-R, SCM-R
Mansei (Murial (Muria Vada)	R. RD.SAR. SR, series
Oriental Precision	RD series
Palfimier	SCM-L, SCH-R, SCM -R series
Peletini Marine Equipment	CHCD 2 507+ RLC 2,1/4,5, RLC series
Qinodao Beihai Shio Building Heavy Industry Co. Ltd	BD- SA, BD-SH series
Oriental Precision	SHS series
Sekigahara	SSS series
Sekwana Marine Machinery CO, LTD	Single Arm Slewino Davit series
Servo Shio S.L	PR4M1100HR
Sezamor	ZZ-ZOT ZZ-ZOL series
Shanghai Hengyuan Marine Equipment Corporation	SAF, series
Shin Mvuno Tech	SMRBD-SD SMRBD&LRD SMRBD&PV, SMRB&LRD-FT series
Taizhou Haihao Marine Equipment Co. Ltd	21kN Boat/Raft Davit
Tsuji Heavy Industries	RP series
Vikino / Norsafe	NDSC-R, NRC-R series
Vanauarde	HS, MS, VS
Vestdavit	L series
Ulstein Fama /Fama Gniel	ZO, ZT series
Welin Lambie	LRW SABRE series
Wuxi Huahai	HMB series
Wuxi Dongwu	21kN-35kN DWC210 series
Wuxi Jiana Nan Marine Equipment Co. Ltd	ZFQ series
Wuxi Shenou	SMC SMD series
Zhejiang Henaxin Shio Equipments CO.,LTD	SA23-1 series
Zhenjiang Marine Auxiliary Machinery Works	ZF, HDCL, SAFC, SAW series

Type Single Fall Rescue / Fast Rescue Boat A Frame I Hydraulic	
MAKE	MODEUSERIES
Acebi	TPF TPU series
Arim	ARPV series
Bada Heavy Ind. Co. Ltd (Ex. Daeryuck Machinery)	BDA BDFA BFRD series
BOPP Treuils JEB	BHD series
Davit International	D-NPS.SP D-TT.SP, D-NP.FR , D-NPS.MP series
Denizsan	DSFRB series
DSB Engineering Co Ltd	DSBARH, DSBDR DSBDR series
Global Davit	Rho. Rho.He series
Greben	RLC series
Jiangyinshi Beihai	EHRD, FRH SRH series
Jiangsu Jiaovan (Jianavin Xinliam: F.R.P. Co. Ltd)	JYA, JYH series
Jiangyin Neotune	NPT- BE, NPT-DR series

Jianovin Wolono	JY-PLR; JY-LFR; JY-LRHE series
Hardina /Umo Schat Hardina/ /Palfinaer\	FR.P.SP, NPDS,SA, series
Holens AS	KOPAS A-1000
Hvdralift/ TTS	HL series
Hydramarine	HMD, HMC series
Macareoor ITTS\ Hvdramarine\	A-TynP., G-Tvoo, HLD, HMD, HMC, series
Mansei /Murial /Muria Vada)	EHR series
Ned Deck Marine (Palfinoer)	PFH, PRH, PRHE series;
Ninabo New Marine Lifesavina Eauiment Co. Ltd	NM, NMAR
NOREQ (PALFINGER)	NPd series
Palfinoer	SCM-L, SCH-R, SCM -R series
Qinodao Beihai Shipbuildino Heavy Industry Co. Ltd	BO-AR, series
Oriental Precision	RD series
Redrock	ROA series
Vestdavit	P PL, PLA, PLP,PLR, PLAR PLO, PAP, PAPH, PLI series
Vanguard	OH, PR, PRH series
Vikino: / Norsafe	NDA,,NRB, series
Welin Lambie	PIV.1.0A series
Wuxi Huahai	HMDA series
Wuxi Donowu	Rescue Boat Davit (A30-H35). series
Wuxi Shenaou	HMDA series
Zhentiano West Marine Equipment Co. Ltd	WME-LRH series

Type Single or Twin Fall Lifeboat Rescue Boat/ Fast Rescue Boat Telescopic Hydraulic

MAKE	MODEUSERIES
Bada	TT, BDTD, series
Cramm Yachtino Svstems B.V	CDT 7000 series
Davit International	D-TT, DTT.SP series
Gibert & Schmalriede GmbH & Co. KG	PJ series
MacGregor (Hydramarine)	T-Type series
Navim Group	SPOT L, SPOT T, SPOT R series
Palfinoer	NTD Series
Redrock	ROT series
Vest Davit	TBD; series

Type Gravity Free Fall Primary/ Secondary Hydraulic A Frame

MAKE	MODEUSERIES
Acebi	TPF series
Acta	HSC series
Bada Heavv industries	BDF, HDFL series
Davit International	D-FH, D-IF series
Daelim Technology Co. Ltd. / Hvundai\	FF-740 series
Denizsan	DSFDD
DSB Enomeerino Co Ltd	DSBDF series
Fassmer	FFH, FLR series
Fassmer Marland	FFH
Graben	HFF series
Gurdesan	GD-FFD series
Jianovinshi Beihai	FA series
Jianasu Jiaovan (Jianovin Xinotiano F.R.P. Co. Ltd)	JYF series
Jianovin Neptune	NPT-DF series
Jianavin Wolong	JY-FH series
Kvoritsu Kikai	LAF-MUF68 series
Hardin!1 (Umo Schat Hardina)	LA, FF series
Hateke	FFA, FFB series
Mansei (Murial (Muria Vada\	MFH, F, D-FH series
Ned Deck Marine	FFH series
Ningbo Asia F.R.P. Boat Manufacturing Co Ltd	YZF series
Palfinoer /Qinodao	FF NPT-DF series
Beihai Shiobuildino Heavy Industrv Co. Ltd	BO-FF series
Oriental Precision	FD, series
SEC (Shies Eauiment Centre)	HP2 series
Servo Shio S.L	FFR series
Sekigahara	SF series
Shanohai Henovuan Marine Eauiment Cororation	FH series
Stoznia Utska SP. 2.0.0	PZ, HZ
Taizhou Haihao Marine Eauiment Co.,Ltd	55kn
Vikino / Norsafe /Jianovin\	H, HO, SW series
Verhoef	FL series
Wuxi Donowu	F55, F70 NPT10OF series
WUXI SHENGOU	SMDF series
Zheniiano Just Marine Eauiment Co. Ltd	FH
Zhenjiang Marine Auxiliary Machinery Works	FH series

WINCH

Type Twin drum; lifeboat gravity lowering electric hoisting

Brake system; static brake; cone/ disk; pads/band; decent brake; centrifugal with pads

MAKE	MODEUSERIES
Bada Heavy Industries	BA BM, Elec. Motor Driven, PWD series
Davit Company	24 EPB series
Davit International	12 ;40;series
Dongwoo Machinery & Engineerina Co., Ltd.	DWS series
Global davit	04 ,07 ,10, 14, 20, 26kNm series
Greben	EW, CW series
Harding (Watercraft)	NW: MW series
Harding (Umo Schat Harding) (Schat Davit Company) (Palfinaer)	HO, BE MW series
Iknow Machinery (TSUJI)	EB series
IMT.CO, LTD	ILR-W series
Mansei	EW, MW, CMW, AW series
Ned-Deck Marine (Palfinger)	15 series
Nor Davit	SP series
Pelegrini Marine Equipment	VAS 45 E Series
Qingdao Beihai Shipbuilding Heavy Industry Co. Ltd.	BW-LL, BW-HL, BW-HR, series
Tsuji Heavy Industries	EB series
Watercraft	NW;MW
Welin Lambie	55;53 ;97 series

Brake system; static brake hydraulic; multiple disks; decent brake; hydraulic pump

MAKE	MODEUSERIES
Harding	CW,,W series
Palfinger	CW W series

Brake system; static brake mechanical; multiple disks; decent brake; centrifugal with pads

MAKE	MODEUSERIES
Aciebi	TBE series
Bada Heavy Industries	BW, BMW, BWR, BDTW, series
Dong Nam Enterprise..Co Ltd	HLW
Fassmer	FDW series
IHI Marine United Inc	MUW series
Japan Marine United Corp	MU series
Jiangyinshi Beihai	DS, DZ, OW, JYBW series
Jiangsu Jiaoyan (Jiangyin Xingjiang F.R.P. Co. Ltd)	JYW, JYWP series
Jiangyin Neptune	DW, OS series
Jiangyin Wolong	JYD series
Jung-A-Marine Co., Ltd	PCRLC seires
Mansei	EBW, ABW, series
Oriental Precision	BWE, SWE series
Sekigahara	SNW, SWE , series
Viking(Norsafe) (Jianavinl	NW series
Wuxi Huahai Marine	HMW series
Wuxi Dongwu	DS/2, D/Z Series
WUXI SHENGOU	SMW series
Youngnam Machinerv Co. Ltd	YNBW
Zhenjiang Marine Auxiliary Machinery Works	D, DP series

Type Single drum; lifeboat rescue boat I gravity lowering electric hoisting

Brake system; static brake; band/ pad; cone, disk, decent brake; centrifugal with pads

MAKE	MODEUSERIES
Acebi	TBE series
ACTA	KNT
Dongnam Marine Crane Co.,Ltd.	DSAD series
Dongwoo Machinerv & Engineering Co., Ltd.	DBD

Harding (Umo Schat Harding)	16 EBR series
Jiangyin Neptune	NPT-DWseries
Ned deck Marine	04 ,series
SEC	WL series
Survival Systems Int.	Wseries
Viking (Norsafe) (Jiangyin)	OW

Type Single drum mechanical; liferaft *I* rescue boat

Brake system; static brake; pad/ disk/ eccentric cam; decent brake; centrifugal with pads

MAKE	MODEUSERIES
Alexander Welin	AIWseries
Bada Heavy Industries	BDF, BLW, BMW, BRWseries
Davit Company	16 EV , SRR series
Davit International	0.1., 02., 03., 04. ,07kn series
Dongnam Marine Co Ltd	DRBD, DRBLRWseries
EO Lifesaving	W
Fassmer	DEWseries
FERRI	1872
Global Davit	01 ,02,04 ,08,10 Kn, series
Gurdesan	GD-FLWseries
Haeon Machinery Ind. Co. Ltd.	HHD-PC series
Jiangyinshi Beihai	YZ series
Jiangsu Jiaoyan (Jiangyin Xingjiang F.R.P. Co., Ltd)	JYZseries
Mansei	SW, RMW, MW, ERW, RBH, LBH series
Ned deck Marine	HWCT series
Oriental Precision	ROW series
Qingdao Beihai Shipbuilding Heavy Industry Co. Ltd	BW-SC series
Harding (Umo Schat Harding) (Schat Davit Company) (PalfinQer)	FME series
Pelegriani Marine Equipment	RLC
Taizhou Haihao Marine Equipment Co. ,Ltd.	21kn
Tsuji Heavy Industries	TC series
Ulstein Fama (Fama Gniw)	ERM, ER10B series
Viking (Norsafe) (Jiangyin)	W
Welin Lambie	5619,9502, PIV.1.0A series
Wuxi Huahai Marine	MWseries
Zhenjiang Oh Marine Equipment CO ., LTD	DWseries
Zhejiang Hengxin Ship Equipment	YZ series

Type Single drum hydraulic hoisting and lowering

MAKE	MODEUSERIES
Bada	HOF, PWD, series
Cramm Yachting Systems B.V	BWF1500
BOPP Treuils JEB	BHD , BHP 4200 series
BREVINI	BWF 025, BWC 050
Global Davit	W05HC, W0SHC, WS; series
Davit International	06 series
Fassmer <i>I</i> Marland	FFWH series
Gurdesan	GD-HC-A series
Greben	HWseries
Haeon Machinery Ind. Co. Ltd.	HHD-PC series
Harding (Umo Schat Harding) (Schat Davit Company) (Palfinaer)	HO , LN , EW-02-PL, series
Hatecke	FFA, 07.02.08series
Hydralift	SP series
Macgregor (TTS) Hydramarine)	HMW SERIE S
Mansei	06 ,FWseries
Noreq	NWseries
Oriental Precision	WL series
Servo Ship S.L	FFRWseries

TMA Winches	TN MW series
Vestvinsj	BW series
Verhoef	FL 50 series
Viking (Norsafe) (Jiangyin)	HYO-FF
Zollem	ZR, A2FM45-61A, ZHP series
Zhenjiang Marine Auxiliary Machinery Works	SAW series