



OIL INDUSTRY



MARINE & FISHERY

Product Catalog



Explanation of pictograms



OIL INDUSTRY

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MARINE & FISHERY

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Explanation of pictograms for „OIL INDUSTRIES“







Gear Pumps GL Series for Low Viscosity oil

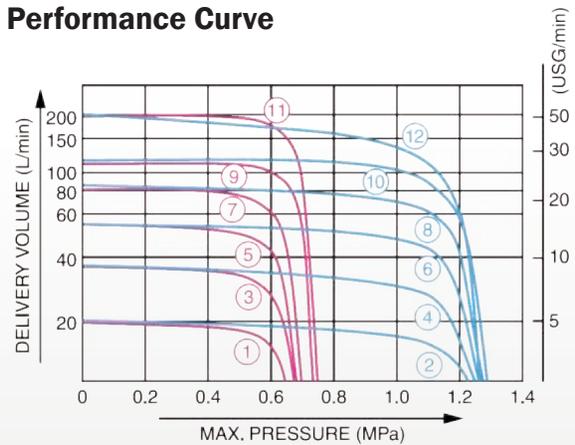
Outstanding Features

Since the pump is of high-quality, finished at the same accuracy as hydraulic pump, it can be applied to a wide range of activities from low-viscosity oil such as kerosene, light oil, etc. to medium/high-viscosity oil. Since the pump is a bypass valve built-in type, and is equipped with relief function, it can be used safely.

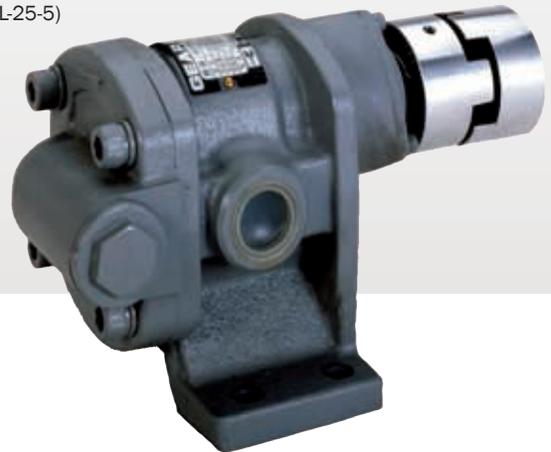
Applications

- Kerosene
- Machine oil
- Heavy oil
- Light oil

Performance Curve



(GL-25-5)



Model		GL-13-5	GL-13-10	GL-20-5	GL-20-10	GL-25-5	GL-25-10	GL-32-5	GL-32-10	GL-40-5	GL-40-10	GL-50-5	GL-50-10
Performance Curve No.		1	2	3	4	5	6	7	8	9	10	11	12
P U M P	Connection Dia	13 mm (½")		20 mm (¾")		25 mm (1")		32 mm (1¼")		40 mm (1½")		50 mm (2")	
	Power	0.4 kW	0.75 kW	0.75 kW	1.5 kW	1.5 kW	2.2 kW	2.2 kW	3.7 kW	2.2 kW	5.5 kW	3.7 kW	7.5 kW
	Poles	4 P						6 P					
	Max. Pressure	0.5 Mpa (5 kgf/cm²)	1 Mpa (10 kgf/cm²)	0.5 Mpa (5 kgf/cm²)	1 Mpa (10 kgf/cm²)	0.5 Mpa (5 kgf/cm²)	1 Mpa (10 kgf/cm²)	0.5 Mpa (5 kgf/cm²)	1 Mpa (10 kgf/cm²)	0.5 Mpa (5 kgf/cm²)	1 Mpa (10 kgf/cm²)	0.5 Mpa (5 kgf/cm²)	1 Mpa (10 kgf/cm²)
Delivery Volume	60 Hz (1720 rpm)	20 L/min (5 USG/min)		35 L/min (9 USG/min)		55 L/min (14 USG/min)		85 L/min (22 USG/min)		125 L/min (32 USG/min)		200 L/min (52 USG/min)	
	50 Hz (1450 rpm)	17 L/min (4 USG/min)		29 L/min (7 USG/min)		46 L/min (12 USG/min)		71 L/min (18 USG/min)		100 L/min (26 USG/min)		165 L/min (43 USG/min)	
Coupling		ZDC						JIS					
Pump Shaft Dia		ø18 mm				ø18 mm				ø22 mm			
Gross Weight		8 kg		8.5 kg		9 kg		11 kg		21 kg		23 kg	
Dimensions LxWxH (mm)		234 x 160 x 170		234 x 160 x 170		234 x 160 x 170		234 x 160 x 170		328 x 268 x 235		328 x 268 x 235	
Packing Unit		1											

* Must not be used for gasoline. Specifications subject to change without notice.



Change Master Oil Change Pumps

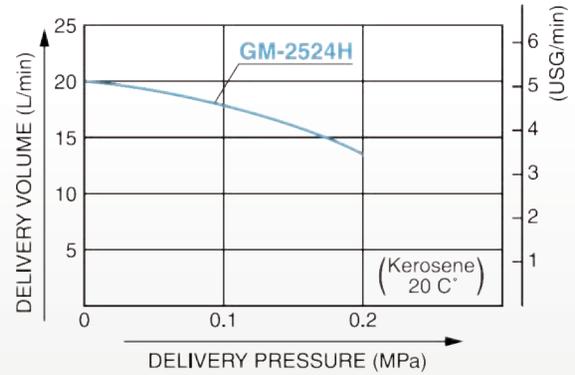
Outstanding Features

This powerful pump will transfer high viscosity oils (up to 800cst) with ease. It is a handy and compact pump provided with a carrying handle, so that it can be transported to on-site applications easily. The noise, generated during operation, is kept at an extremely low level. It is provided with a by-pass valve to protect the motor. The pump's main use will be as an oil change pump for various types of oils.

Applications

- Motor oil
- Machine oil
- Heavy oil
- Light oil

Performance Curve



(GM-2524H)



Model	GM-2524H	
Dia of Hose Inlet	25 mm(1")	
Dia of Hose Outlet	20 mm(3/4")	
P U M P	Connection Thread	Inner Pipe Thread
	Max. Delivery Pressure	0.2MPa (2 kgf/cm ²)
	Delivery Volume	20 L/min 5.3 U.S.G./min
	Applicable Viscosity	800 cst
M O T O R	Voltage	DC-24 V
	Rated Current	16 A
	Power	200 W
	Revolution	6200 rpm
	Rating	25 min
Power Cord	5 m 16ft	
Gross Weight	10 kg	
Dimension	320 x 188 x 268	
Packing Unit	1	

* Must not be used for gasoline. Specifications subject to change without notice.



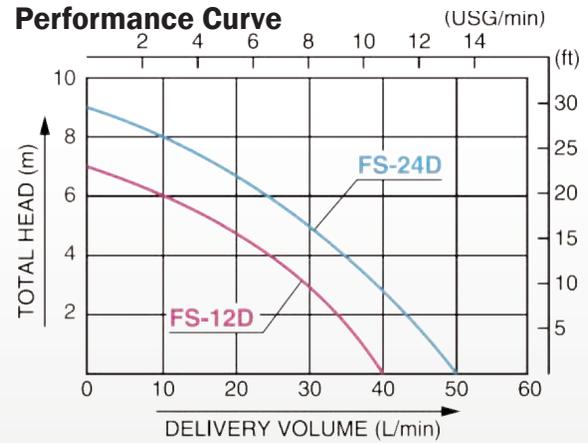
FS Pump Self-priming Pump for Low Viscosity Oil

Outstanding Features

It has a powerful self-priming capacity of up to 3m. vertically. It can be easily carried to any place depending on the application. The pump can be powered by a small DC-24V battery, available in trucks and vessels. Excellent durability is ensured by using a saltproof motor, brine resistant aluminium and stainless steel for the pump.

Applications

- Kerosene
- Machine oil
- Heavy oil
- Light oil



Model	FS-12D	FS-24D
Connection Dia.	20 mm(3/4")	
Total Head	7 m (23Ft)	9 m (30Ft)
Delivery Volume	40 L/min (10 USG/min)	50 L/min (13 USG/min)
Voltage	DC-12 V	DC-24 V
Rated Current	15 A	8 A
Power	80 W	90 W
Revolution	7300 rpm	
Gross Weight	20 kg	
Dimension	790 x 315 x 240	
Packing Unit	5	

Specifications subject to change without notice.



Gear Pumps Suitable for Water, Oil & Various Liquids Applications

Outstanding Features

A highly stable and durable pump with a large delivery volume, widely usable for agricultural and industrial applications. Agricultural applications: irrigation, water-sprinkling of hotbeds, spraying of liquid manure and fertilizers, water-sprinkling for rice nurseries and water drainage. Other applications: pumping of frying oil, millet jelly, coal tar, pitch and other non-oxidizing liquids. Our GB-type is recommended for sea-water, brine and oxidizing liquids.

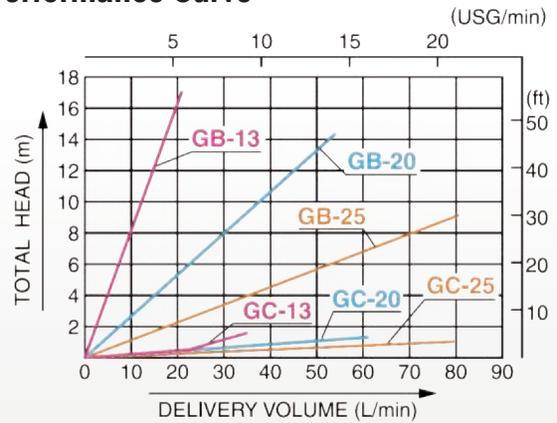
Applications (GB)

- Water
- Sea water
- Weak acid
- Various chemicals
- Coal tar

Applications (GC)

- Kerosene
- Light oil
- Machine oil
- Heavy oil

Performance Curve



*800 cst viscosity at 0°C, B-Crude

(GB-13 / GC-13)



(GB-25 / GC-25)

Model	GC-13	GC-20	GC-25
	GB-13	GB-20	GB-25
Gear Material	Cast iron (entire): GC Brass (gear): GB		
Connection Dia	13 mm (1/2")	20 mm (3/4")	25 mm (1")
Delivery Volume	Revolution: 200 rpm		
	10 L/min	18 L/min	27 L/min
	(2 USG/min)	(4 USG/min)	(7 USG/min)
	Revolution: 400 rpm		
	21 L/min	37 L/min	55 L/min
	(5 USG/min)	(9 USG/min)	(14 USG/min)
Revolution: 600 rpm			
32 L/min	56 L/min	83 L/min	
(8 USG/min)	(14 USG/min)	(22 USG/min)	
Delivery Pressure	0.1 - 0.3 MPa (1-3kg/cm ²)		
Syphoning Factor	3 m (10 ft)		
Power	200 W	400 W	750 W
Pulley	125 x A1	150 x A1	200 x A1
Gross Weight	18 kg	17 kg	26 kg
Dimensions LxWxH (mm)	401 x 246 x 182	492 x 262 x 194	265 x 265 x 275
Packing Unit	4		2

Specifications subject to change without notice.



Powerful Fill Pump Only 2 Minutes to Empty 200 L Drum (FR-200)

Outstanding Features

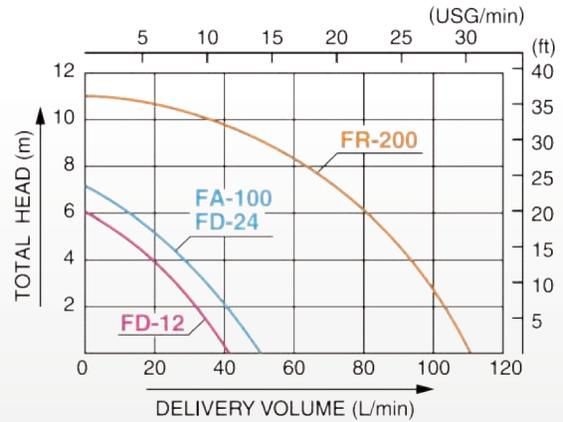
Two stage system of axial flow vane and spiral vane result in an excellent flow rate.

Applications

- High to low viscosity oil
- Machine oil
- Heavy fuel oil B
- Kerosene
- Diesel

* These pumps are not for use with liquids having a low flash-point, such as gasoline etc.

Performance Curve



(FD-12*)



(FA-100*)



(FR-200*)



Model		FA-100		FD-24	FD-12	FR-200	
P U M P	Connection Dia	20 mm (3/4")				32mm (1 1/4")	
	Connection Thread	Inner Pipe Thread					
	Total Head	7 m (23 ft)			6 m (19.5 ft)		11 m (36 ft)
	Delivery Volume	50 L/min (13 USG/min) (Kerosene, Light Oil)			40 L/min (11 USG/min) (Kerosene, Light Oil)		110 L/min (29 USG/min) (Kerosene, Diesel)
M O T O R	Type	Enclosed Fan-Cooled Commutator				Fan-Cooled Commutator	
	Voltage	AC 110V	AC 220V-240V	DC 24V	DV 12V	AC 110V	AC 220V-240V
	Rated Current	2 A	1 A	7 A	14 A	5 A	2.5 A
	Power	100 W		90 W	80 W	200 W	
	Revolution	7500 rpm		7300 rpm	7000 rpm	6200rpm	
	Rating	Continuous					
	Power cord	5 m (16 ft)					
Delivery Hose	2m Oil-Proof Rubber Hose						
Gross Weight	20 kg				30 kg		
Dimensions	1228 x 291 x 172				1290 x 490 x 205		
LxWxH (mm)	1228 x 291 x 172				1290 x 490 x 205		
Packint Unit	2						

Specifications subject to change without notice.



Raku-Auto Suitable for Transferring Kerosene & Diesel

Outstanding Features

10 minutes to empty 200 L drum. Easy to use gun nozzle. Suction pipe with mesh strainer.

Applications

- Kerosene
- Diesel

* This pump is not for use with liquids having a low flash-point, such as gasoline etc.



Oil Pump For High Viscosity Oil

Outstanding Features

Specially designed for dispensing oil at service stations.

Applications

- High viscosity oil

(FP-25)



(SO-25)



Model	FP-25	FP-2512
Connection Dia	25 mm (1")	
Total Head	3.5 m (11 ft)	2.8 m (9 ft)
Delivery Volume	20 L/min (5 USG/min)	18 L/min (4.7 USG/min)
Voltage	AC 100 V AC 220 V	DC 12 V
Frequency	50 Hz / 60 Hz	-
Power Code	4 m (13 ft)	
Delivery Hose	1.5 m (4.9 ft)	
Gross Weight	3.8 kg	3.1 kg
Dimensions LxWxH (mm)	1190 x 235 x 130	
Packing Unit	1	

Model	SO-25
Delivery Volume	0.5 L / Stroke (0.1 USG/min)
Pump Length	1380 mm (54")
Suction Pipe (mm)	32 x 1038 (1¼" x 40")
Gross Weight	35 kg
Dimensions LxWxH (mm)	1080 x 398 x 220
Packing Unit	5

Specifications subject to change without notice.



High Liter Pump

High Volume

Outstanding Features

Delivers 1 L per rotation. Mesh strainer can filter fine dust. Applicable for low viscosity oil.

Applications

- Diesel
- Kerosene
- Spindle oil
- Heavy fuel oil A*

* Oil temperature is over 10 °C



Hand Rotary Pump

Compact in Design & Light Weight

Outstanding Features

Applicable for oil from high to low viscosity.

Applications

- Machine oil
- Heavy fuel oil A*
- Kerosene
- Diesel

* Oil temperature is over 10 °C

(LP-32)



(SB-25)



Model	LP-32
Delivery Volume	1 L / Rotation, [Nomal Use] 100 L/min (26 USG/min)
Suction Pipe (mm)	32 x 956 (1¼" x 37")
Delivery Hose (mm)	32 x 1280 (1¼" x 50")
Strainer	#60 with Mesh, Polyethylene
Gross Weight	38 kg
Dimensions LxWxH (mm)	1137 x 252 x 295
Packing Unit	5

Model	SB-20	SB-25
Delivery Volume	20 L/min (5 USG/min) / 105 Rotations	
Impeller Material	PPS	
Delivery Hose	20 mm x 1100 mm	25 mm x 1280 mm
	(¾" x 43")	(1" x 50")
Gross Weight	24 kg	25 kg
Dimensions	1065 x 245 x 145	1085 x 202 x 225
LxWxH (mm)		
Packing Unit	6	4

Specifications subject to change without notice.



(PP-25)



(PP-25C)

Big Auto Pump Light Weight & Economical to Use

Outstanding Features

Made from strong plastics.

Applications (PP-25)

- Dispensing small volumes of liquid
- Heavy fuel oil B
- Kerosene
- Diesel
- Water
- Wine

Applications (PP-25C)

- Solvent

(PP-25)



(PP-25C)



Model	PP-25	PP-25-C
Delivery Volume	20 L/min (5 USG/min)	
Material	Polyethylene	
Pump Length	1190 mm (47")	
Suction Pipe (mm)	(Inside Dia) 22 x 875 (0.86" x 34")	
Delivery Pipe (mm)	(Inside Dia) 20 x 1180 (3/4" x 46")	
Gross Weight	11 kg	
Dimensions LxWxH (mm)	1237 x 435 x 257	
Packing Unit	20	

Specifications subject to change without notice.

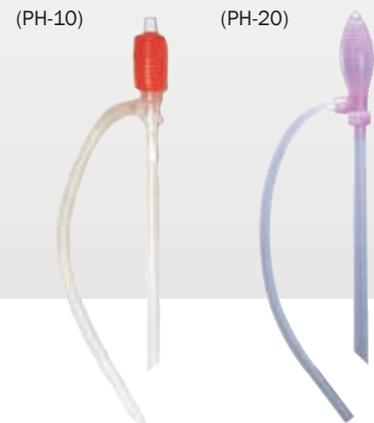
Paco-Pet Plastic Syphon Pumps

Outstanding Features

These pumps can be used for kerosene, gasoline, diesel oil and various other types of light solvents.

Applications

- Kerosene
- Gasoline
- Diesel oil
- Solvent
- Water (non-potable)



Model	PH-10	PH-20
Delivery Volume	6.7 L/min (1 USG/min)	11.5 L/min (3 USG/min)
Pump Length	690 mm (27")	840 mm (33")
Gross Weight	11.5 Kg	10.5 Kg
Dimensions LxWxH (mm)	690 x 340 x 618	810 x 355 x 510
Packing Unit	120	60

Specifications subject to change without notice.

Mama Auto Plastic Pumps Operates by Dry Cell Battery

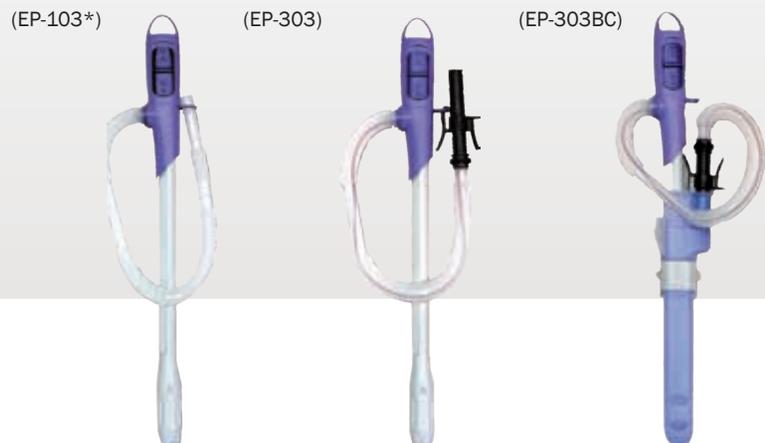
Outstanding Features

The EP-series can be used for kerosene. It is operated by two 1.5V dry-cell-batteries. **IMPORTANT:** Do not use these pumps for gasoline or other liquids with a low flash point.

Applications

- Kerosene

**EP-103 does not have auto stop function.*



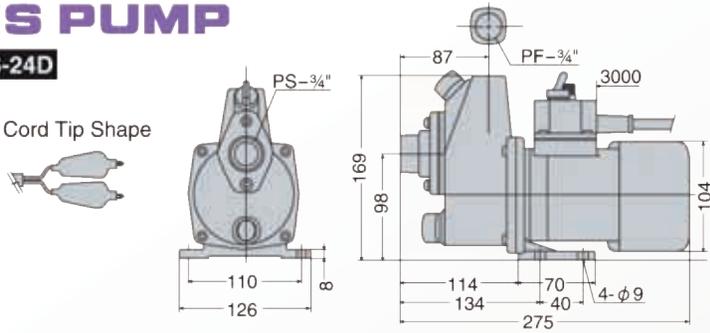
Model	EP-103	EP-303	EP-303BC
Delivery Volume	10 L/min (2 USG/min)		
Pump Length	547 mm (21")		
Case Length	-----	-----	435 mm (17")
Power	2 x 1.5V AA Batteries (Not Included)		
Gross Weight	6 kg	7 kg	6 kg
Dimensions LxWxH (mm)	300 x 315 x 585		290 x 280 x 615
Packing Unit	20		12

Specifications subject to change without notice.

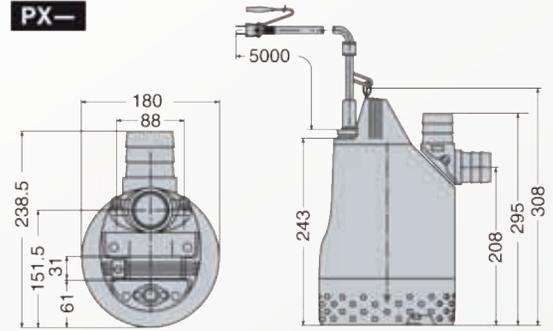
FS PUMP

FS-24D

Cord Tip Shape



PX-

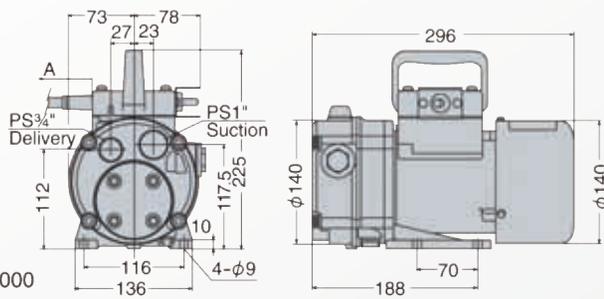


CHANGE-MASTER

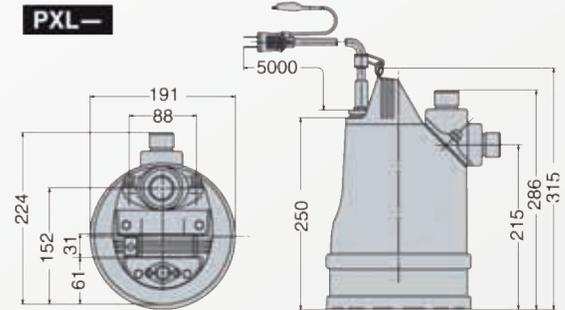
GM-2524H

Cord Tip Shape

A Code Length:5000



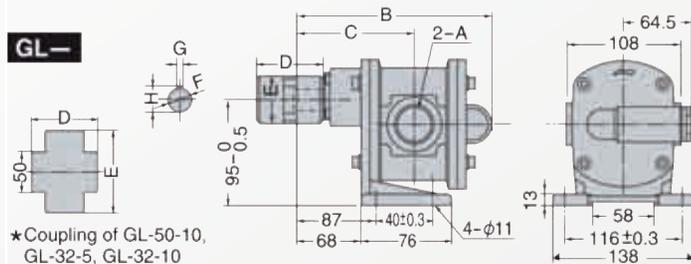
PXL-



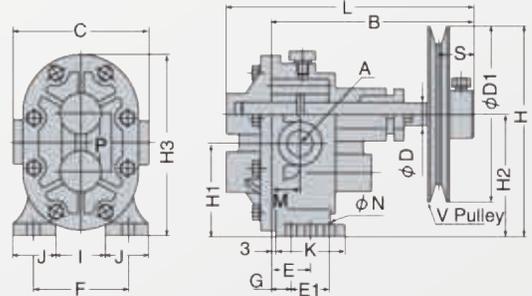
GEAR PUMP

GL-

* Coupling of GL-50-10, GL-32-5, GL-32-10



GB- GC-



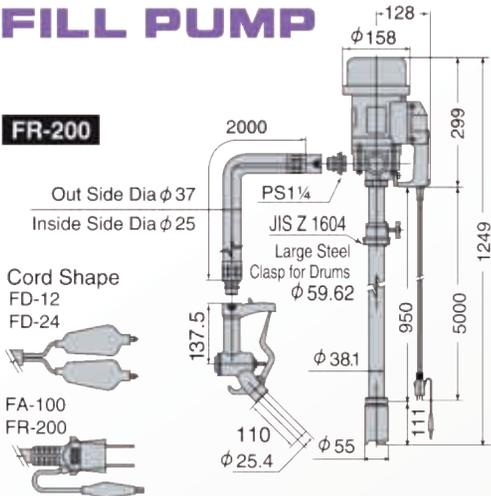
Model	A	B	C	D	E	F	G	H
GL-13-5	PS $\frac{1}{2}$ "	188.5	112.5	61	55	14 ^{+0.028} _{+0.008}	5 ^{+0.050} _{+0.020}	16.3 ^{+0.1} ₀
GL-13-5								
GL-20-5	PS $\frac{3}{4}$ "	196.5	116.5	69	55	19 ^{+0.030} _{+0.009}	6 ^{+0.035} _{+0.013}	21.8 ^{+0.1} ₀
GL-20-5								
GL-25-5	PS1"	207.5	122	93	125	24 ^{+0.030} _{+0.009}	8 ^{+0.035} _{+0.013}	27.3 ^{+0.1} ₀
GL-25-5								
GL-32-5	PS1 $\frac{1}{4}$ "	222.5	129.5	93	125	28 ^{+0.030} _{+0.009}	8 ^{+0.035} _{+0.013}	31.3 ^{+0.1} ₀
GL-32-5								

Type	A	L	B	C	D	D1	H	H1	H2	H3
GC-13/GB-13	PS $\frac{1}{2}$ "	181	148	100	18	127	151	67	88	130
GC-20/GB-20	PS $\frac{3}{4}$ "	201	165	130	20	152	179	78	103	153
GC-25/GB-25	PS1"	247	204	142	22	203	230	91	129	191

F	J	I	K	E	G	E1	N	M	P	S	Pulley
70	32	36	51	33	-	-	9	21	41	25	A1
97	36	58	30	-	23	28	9	25	50	25	A1
114	38	65	75	-	30	34	10	33	63	24	A1

FILL PUMP

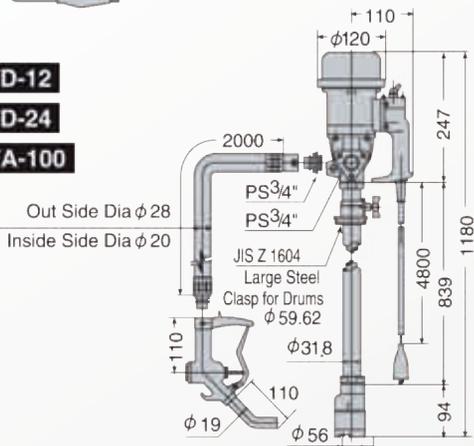
FR-200



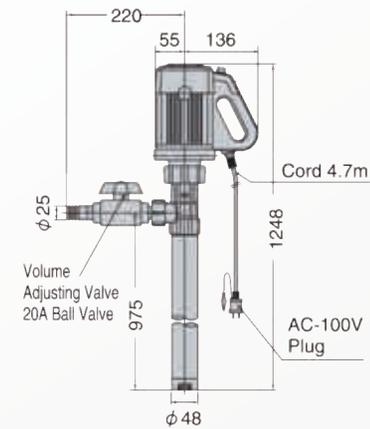
FD-12

FD-24

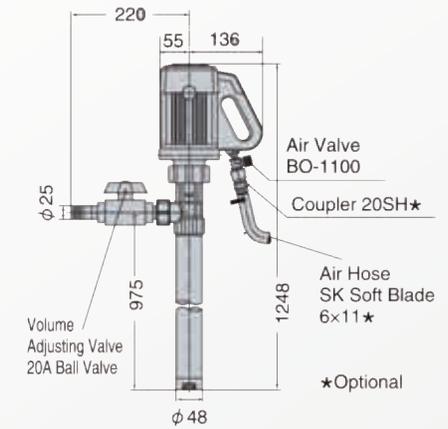
FA-100



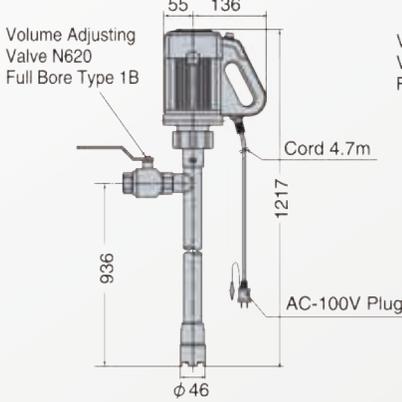
FC-103



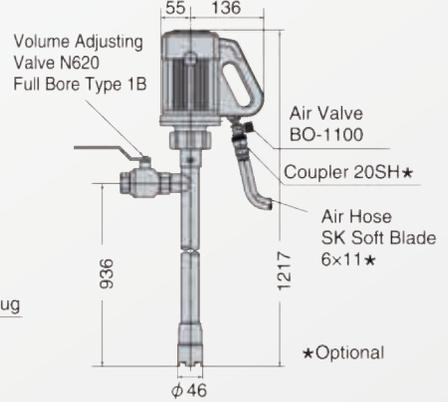
FC-103A



FC-104



FC-104A



Explanation of pictograms for „MARINE & FISHERY“



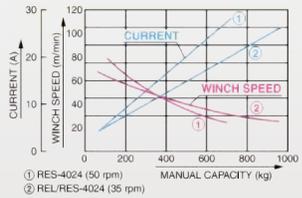
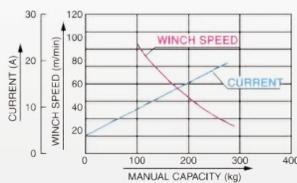
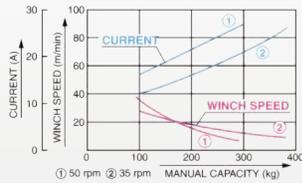


ECarl Light weight & Compact Most Suitable for Fishing Boats

Applications

- Winding anchor for boats
- Drawing fishing net
- Towing line
- Winding up basket

Performance Curve



(REL-2512)



(RES-2512)

Model		RES-2512	REL-2512	REL-2524	RES-4024	REL-4024	RES-4024L	REL-4024L	
Voltage		DC 12 V		DC 24 V		DC 24 V			
Rated Current		30 A		15 A		25 A			
Motor Output		250 W				400 W			
Rating		1 h / 30 A		1 h / 15 A		1 h / 25 A			
Roller Revolution		50 rpm (Low), 100 rpm (High)		50 rpm (Low), 100 rpm (High)		50 rpm (Low), 100 rpm (High)		35 rpm (Low), 70 rpm (High)	
Manual Capacity	Max	280 kg (Low), 140 kg (High) (90 A)		280 kg (Low) 140 kg (High)		700 kg (Low) 350 kg (High), (110 A)		900 kg (Low) 450 kg (High), (110 A)	
	Rating	90 kg (Low), 45 kg (High), (30 A)		140 kg (15 A)		140 kg (Low), 70 kg (High), (25 A)		200 kg (Low), 100 kg (High), (25 A)	
Winch Speed (With 100 kg Load)		6 m/min (19 ft/min), (Low) 13 m/min (42 ft/min), (High)		23 m/min (75 ft/min)		20 m/min (65 ft/min), (Low) 33 m/min (108 ft/min), (High)		13 m/min (45 ft/min), (Low) 23 m/min (82 ft/min), (High)	
Standard Accessories		1 Cable Gland for Ship, 1 Waterproofing Plate, 1 Vertical Type Main Body Packing, 5 Crimping Terminals, 1 Connection Terminal							
Gross Weight		20 kg		15 kg		24 kg		21 kg	
Dimensions LxWxH (mm)		478x245x285		570x250x285		478x245x285		570x250x285	
Packing Unit		1							

Specifications subject to change without notice.

ECarl Effective Electromagnetic Brake Model

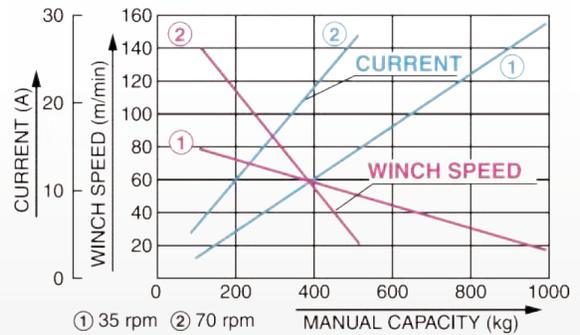
Outstanding Features

Motor case is made of corrosion resistance aluminum alloy to withstand seawater. Possible to stop instantly.

Applications

- Winding anchor for boats
- Drawing fishing net
- Towing line
- Winding up basket

Performance Curve



(REL-5524LB)



(RES-5524LB)



Model		RES-5524LB	REL-5524LB
Voltage		DC 24 V	
Rated Current		31 A	
Motor Output		550 W	
Rating		1 h / 31 A	
Roller Revolution		35 rpm (Low) 70 rpm (High)	
Manual Capacity	Max.	1000 kg (Low), 500 kg (High), (120 A)	
	Rating	280 kg (Low), 140 kg (High) (31 A)	
Winch Speed (With 100 kg Load)		15 m/min (49 ft/min) (Low) 25 m/min (82 ft/min) (High)	
Standard Accessories		1 Waterproofing Plate, 1 Vertical Type Main Body Packing, 5 Machine Screws M5x20	
Gross Weight		30 kg	
Dimensions LxWxH (mm)		593 x 330 x 355	
Packing Unit		1	

Specifications subject to change without notice.

ECarl High Speed & High Load Rolling Up Max. Winch Up Power 900 kg

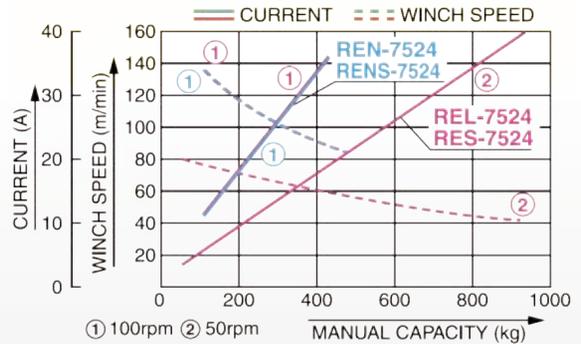
Outstanding Features

Use magnet motor. Simple wiring and easy to switch direction between clockwise to counterclockwise. Approx. 25 % more power from usual 400 W type by high speed an high load rolling up. 2 stage switchable winch capacity (REL, RES). Switch to 900 kg / 50 rpm an 450 kg / 100 rpm by gearshift. Motor case. Roller, etc are made of alluminum alloy. Light compact, sea water proof and no rust damage to FRP boat. Polyurethane coat protects corrosion perfectly.

Applications

- Winding anchor for boats
- Drawing fishing net
- Towing line
- Winding up basket

Performance Curve



Model	REN-7524	RENS-7524	REL-7524	RES-7524
Voltage	DC 24 V			
Rated Current	43 A			
Motor Output	750 W			
Rating	1 h / 43 A			
Roller Revolution	100 rpm		35 rpm (Low) 70 rpm (High)	
Manual Capacity	Max.	450 kg (150 A)	900 kg (Low), 450 kg (High), (150 A)	
	Rating	110 kg (43 A)	220 kg (Low), 110 kg (High), (43 A)	
Winch Speed (With 100 kg Load)	33 m/min (108 ft/min)		17 m/min (55 ft/min) (Low), 33 m/min (108 ft/min) (High)	
Standard Accessories	1 Cable Gland For Ship, 1 Waterproofing Plate, 1 Vertical Type Main Body Packing, 2 Crimping Terminals			
Gross Weight	20.5 kg	30.5 kg	19.5 kg	24.5 kg
Dimensions LxWxH (mm)	510 x 280 x 290	585 x 315 x 330	520 x 280 x 270	570 x 275 x 285
Packing Unit	1			

Specifications subject to change without notice.



Pondy & Marine Pet Submersible Pump for Seawater

Outstanding Features

Small light-weight and portable. These pumps are usable for a wide range of application, as well as bilge drain. No rust, shock resistant by using high grade ABS resin, SUS-304 stainless steel and an aluminium alloy to prevent sea-water corrosion. Durable for long operations by a unique cooling system. (SK-2512, SK-2524) Perfect discharge of bilge-water as its impeller was designed to be at the lowest position.

Applications

- Feeding or draining water in fish farms
- Washing purpose
- Draining bilge water

Performance Curve



(SK-2524)



(BL-2524N)



Model		SK-2522		SK-2524	BL-2524S	BL-2512S	BL-2524N	BL-2512N	
P U M P	Connection Dia	25 mm (1")							
	Total Head	5 m (16 ft)	7 m (23 ft)	6 m (19 ft)	4 m (13 ft)		5 m (16 ft)		
	Delivery Volume	70 L/min (18 USG/min)	80 L/min (21 USG/min)		70 L/min (18.5 USG/min)				
M O T O R	Voltage	AC 220V		DC 24V	DC 24V	DC 12V	DC 24V	DC 12V	
	Frequency	50 Hz	60 Hz	-					
	Rated Current	0.9 A	1.1 A	8.5 A	2.5 A	5.4 A	3.8A	7.8 A	
	Rating	Continuous				Continuous			
	Output	100 W		123 W	45 W		50 W		
	Revolution	2800 rpm		3200 rpm	5400 rpm		5800 rpm		
Standard Accessories	1 Coupling set (ø25), 1 Hose nipple (ø20) 1 Hose Band (ø32), 1 Hose Band (ø26), 1 Rope (5 m)				-		1 Elbow		
Gross Weight	13 kg			20 kg		30 kg			
Dimensions LxWxH (mm)	240 x 420 x 310			568 x 286 x 373		574 x 283 x 403			
Packing Unit	4			20					

Specifications subject to change without notice.

New Bilge King Necessities for Boat

Outstanding Features

Auto-stop feature prevents dry running, increases pump performance and life. Easy to use starter switch. Integrated fuse and switch assembly for ease of maintenance. Separate switch can be attached anywhere you want. Strainer and switch are made of a special sea water and oil resistance resin for longer durability. Two stage system of axial flow vane and spiral vane. Easy to clean strainer.

(BK-12)



Applications

- Draining of water and oil/water mix from bilge

* Type S Pump for without Accessories
For Replacement „Bilge Pump,,

(BK-12S*)



Model	BK-12	BK-12S	BK-24	BK-24S
Suction / Delivery Dia	15 mm (1/2")			
Max. Delivery Volume	20 L/min (5 USG/min)			
Voltage	DC 12 V		DC 24 V	
Rated Current	10A		5A	
Suction Head	1 m (3 ft)			
Suction Time	2 - 5 sec (20-C)			
Rating	80 W		90 W	
Standard Accessories (*Type S : Not Included)	1 Code with Starting Switch, 1 Strainer 1 Delivery Nozzle, 1 Delivery Nozzle Nat 1 Hose (3 m), 4 Tapping Screws (5x10) 4 Tapping Screws (4x20) 4 Tapping Screws (4x10) 4 Tapping Screws (4x16) 1 Water Proofing Connector (Only S Type)			
	1 Fuse (15 A),		1 Fuse (8 A)	
Net Weight	18.5kg	11kg	18.5kg	11kg
Dimensions LxWxH (mm)	495 x 333 x 351	340 x 306 x 265	495 x 333 x 351	340 x 306 x 265
Packing Unit	4			

Specifications subject to change without notice.



(MF-40MS)



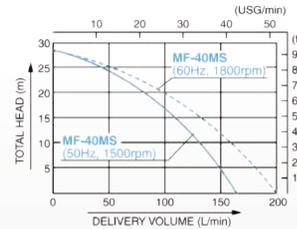
(MF-4024X)

Long Durability „Revolvex Pump with Motor“ & „Rubber Master“ Flexible Rubber Impeller Pumps

Outstanding Features

Compact design and can be removed on the deck easily. Small and compact, but large delivery volume for this class of pumps. They can be used continuously with motor fan. Dry prime pump, no need to prime with water, immediate suction.

Performance Curve



(MF-4024X)



(MF-40MS)



Model		MF-40MS	MF-2524	MF-4024X
P U M P	Connection Dia	40 mm (1½")	25 mm (1")	40 mm (1½")
	Connection Thread	Inner Pipe Thread		
	Material	Bronze Castings (Gunmetal)		
	Total Head	29 m (95 ft)	35 m (114 ft)	14 m (46 ft)
	Max. Self-Priming Head	5 m (16 ft)	3.5 m (11 ft)	
	Delivery Volume	60 Hz : 200 L/min (52 USG/min) 50 Hz : 170 L/min (44 USG/min)	80 L/min (21 USG/min)	150 L/min (39 USG/min)
M O T O R	Voltage	Three Phase 200 V	DC 24V	
	Current	6.8 A / 50 Hz, 6.0 A / 60 Hz	12 - 15 A	22 - 30 A
	Output	1.5 kW	250 W	400 W
	Power Cord	10 m (1.25 mm ²)	10 m (2.5 mm ²)	
Standard Accessories	1 Strainer, 1 Hose Band (ø48)	1 Strainer, 2 Connecting Nipples (ø32), 3 Hose Bands (ø32)	1 Strainer, 1 Hose Band (ø48)	
Net Weight	24 kg	8.3 kg	20 kg	
Dimensions LxWxH (mm)	498x254x359	315x213x238	429x230x295	
Packing Unit	1			

Specifications subject to change without notice.



Revolvex Pumps Flexible Rubber Impeller for Seawater

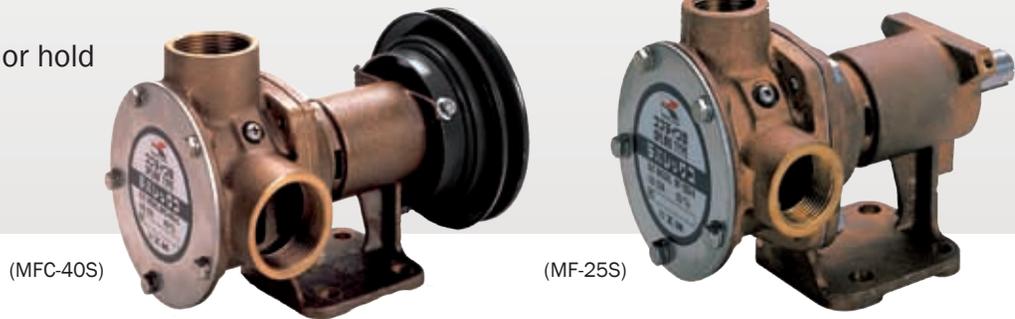
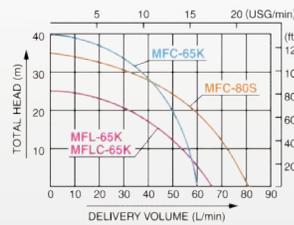
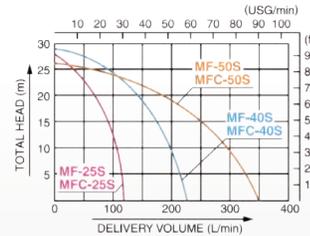
Outstanding Features

Complete structure is manufactured from gunmetal, no rusting. START/STOP is easily controlled by pressing one switch. (MFC type). MFC type is fitted with electromagnetic clutch. Easy to replace rubber impeller. Self-priming. Adopted special impeller to avoid damage by seaweed. Special sleeve to transfer seaweed smoothly.

Applications

- Transfer seaweed from small boat to mother ship
- Built in for the machinery for seaweed
- Discharge of bilge water, emergency water discharge
- Washing a deck or hold

Performance Curve



Revolvex Pump For Seaweed Model

Outstanding Features

Adopted special impeller to avoid damage by seaweed. Special sleeve to transfer seaweed smoothly.

Applications

- Transfer seaweed from small boat to mother ship
- Built in for the machinery for seaweed
- Draining of bilge water, emergency water discharge
- Washing a deck or hold



Model	MF-25S	MF-40S	MF-50S	MFC-65K*	MFLC-65K*	MFL-65K*
Connection Dia	25 mm (1")	40 mm (1½")	50 mm(2")	65 mm (2½")	65 mm (2½")	
Connection Thread	Inner Pipe Thread			Inner Pipe Thread		
Material	Bronze Castings (Gunmetal)			Bronze Castings (Gunmetal)		
Total Head	28 m (92 ft)	29 m (95 ft)	26 m (85 ft)	40 m (131 ft)	24 m (78 ft)	
Delivery Volume	115 L/min (30 USG/min)	215 L/min (56 USG/min)	350 L/min (92 USG/min)	600 L/min (158 USG/min)	650 L/min (171 USG/min)	
Output	1.5 kw (2.0 PS) / 1750 rpm		3.7 kw (5.0 PS) / 1750 rpm	5.5 kW (7.5 PS) / 1,750 rpm	5.5 kW (7.5 PS) / 1,750 rpm	
Number of Blades	9			11	6	
Driving Method	Belt Drive					
Revolution Direction	Anti-clockwise (Watching from driving shaft)					
Revolution	500-2300rpm					
Shaft Dia	20 mm (¾")		25 mm (1")	Electromagnetic Clutch	25 mm (1")	
Standard Accessory	Parallel Key 5x5x31.5		Parallel Key 7x7x40	-		
Net Weight	4.8 kg	6 kg	11.6 kg	24.5 kg	24.5 kg	19.5 kg
Dimensions LxWxH (mm)	250 x 152 x 198	270 x 168 x 206	347 x 196 x 241	460 x 240 x 285	480 x 234 x 285	460 x 234 x 285
Packing Unit	1			1		

Electromagnetic Clutch Specifications

Model	MFC-25S	MFC-40S	MFC-50S	MFC-25S		
Voltage (Clutch)	DC 24 V			DC 24 V		
Capacity (Clutch)	43 W		36 W	36 W		
Pulley	ø138 (B-1)		ø130 (B-2)	ø130		
Net Weight	7.6 kg	8.8 kg	18.3 kg			
Dimensions LxWxH (mm)	272 x 160 x 205	292 x 178 x 198	408 x 203 x 223			
Packing Unit	1					

Specifications subject to change without notice.

Model	MFC-80S*
Connection Dia	80 mm (3")
Connection Thread	Inner Pipe Thread
Material	Bronze Castings (Gunmetal)
Total Head	35 m (114 ft)
Delivery Volume	820 L/min (216 USG/min)
Output	7.5 kW (10.2 PS) / 1,750 rpm
Number of Blades	13
Driving Method	Belt Drive
Revolution Direction	Anti-clockwise (Watching from driving shaft)
Revolution	500-2300 rpm
Shaft Dia	Electromagnetic Clutch
Net Weight	31.5 kg
Dimensions (LxWxH)	430x240x280
Packing Unit	1

Specifications subject to change without notice.



FS Pumps Marine Self-priming Pump for Seawater

Outstanding Features

Specially designed for use with seawater. Pump and motor are constructed to withstand seawater and operated by a DC 24 V power source.

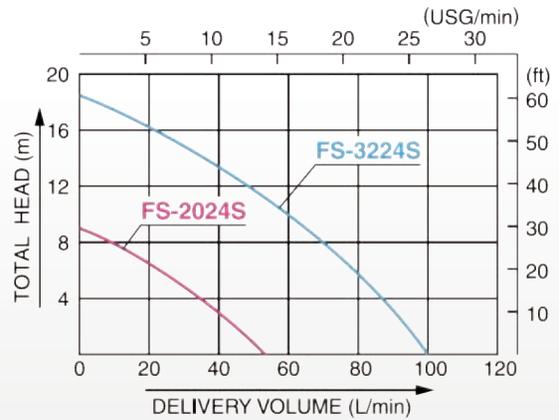
1. Seawater proof motor: These motors are specially designed for seawater applications.
2. Special aluminum compound for motor casing is made to withstand seawater corrosion. Moreover, this material does not add heavy weight to the pump.

Applications

- Washing a deck or hold
- Discharge of bilge water
- Cooling engine

* To transfer fuel, please use special impeller for oil.
(Impeller type: MF-2524KN)

Performance Curve



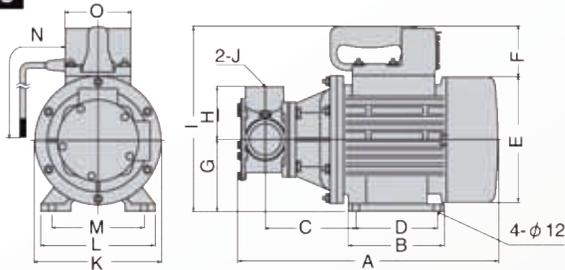
(FS-3224S)

Model		FS-2024S	FS-3224S
PUMP	Connection Dia	20 mm (3/4")	32 mm (1 1/4")
	Connection Thread	Inner Pipe Thread	
	Total Head	9m (30 ft)	
	Delivery Volume	50 L/min (13 USG/min)	100 L/min (26 USG/min)
MOTOR	Voltage	DC 24V	
	Rated Current	7A	16 A
	Output	90 W / 7300rpm	200 W / 6200 rpm
	Power Cord	3 m (10 ft)	5 m (16 ft)
Standard Accessories		1 Strainer, 2 Hose Nipple, 1 Set Carbon Brush	
Gross Weight		28.5 kg	28 kg
Dimension		790 x 305 x 252	565 x 395 x 340
Packing Unit		5	3

Specifications subject to change without notice.

REVOLVEX PUMP

MF-40MS

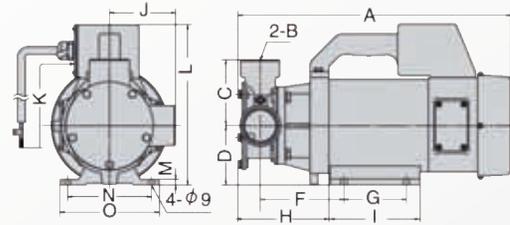


Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
MF-40MS	407	150	143	120	200	90	105	80	293	PS $\frac{1}{2}$ "	200	170	140	9700	120

RUBBER MASTER

MF-2524

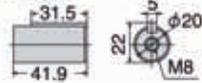
MF-4024M



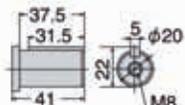
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
MF-2524	281.5	PS $\frac{1}{2}$ "	63	60	29	119.5	66	133.5	96	63	5000	205	10	100	120
MF-4024M	394	PS $\frac{1}{2}$ "	95	75	31.5	119.5	88	131	128	95	5000	200	8	118	140

[Shaft Size]

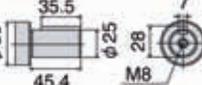
MF-25S



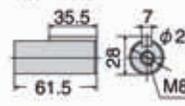
MF-40S



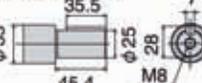
MFC-80S



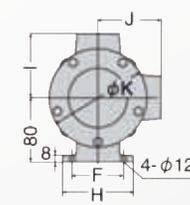
MF-50S



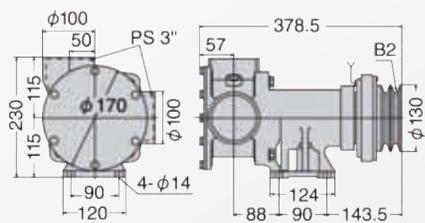
MF65 Series



MF- MFC-



MFC-80S

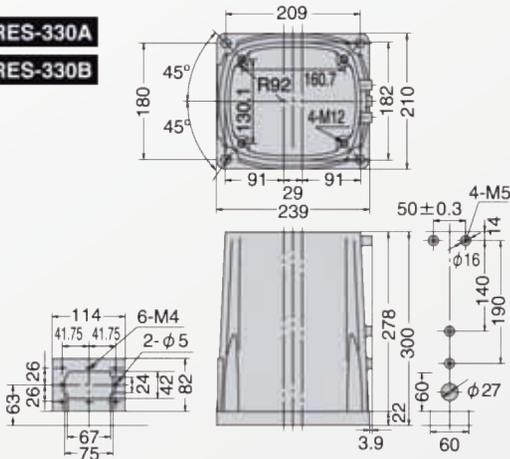


Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N(Pulley)
MF-25S-MFC-2524S	PS $\frac{1}{2}$ "	219(234)	60	72(864)	50	60	85	85	70	70	108	136.5	80	B1
MF-40S-MFC-4024S	PS $\frac{1}{2}$ "	232(247)	62.5	73(88)	55	60	90	90	80	80	123	136.5	80	B1
MF-50S-MFC-5024S	PS $\frac{1}{2}$ "	311(335)	90.5	85.5(108.5)	80	80	105	105	95	95	123	130	91	B2
MFLIC-65K-MFC-65K	PS $\frac{1}{2}$ "	384(403)	105	124.5(143.5)	90	90	120	120	115	115	170	130	115	B2

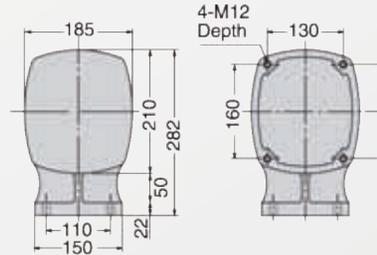
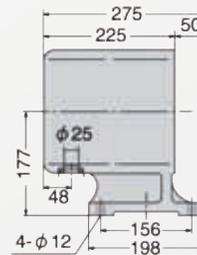
ECARL BOX

RES-330A

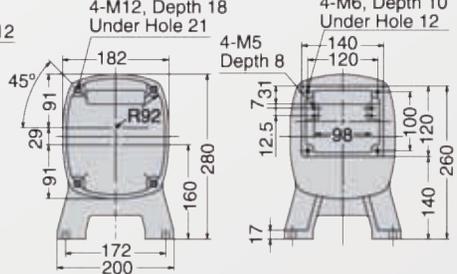
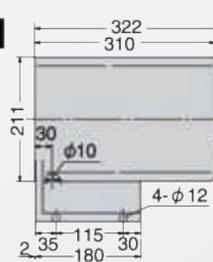
RES-330B



REF-300



REF-330

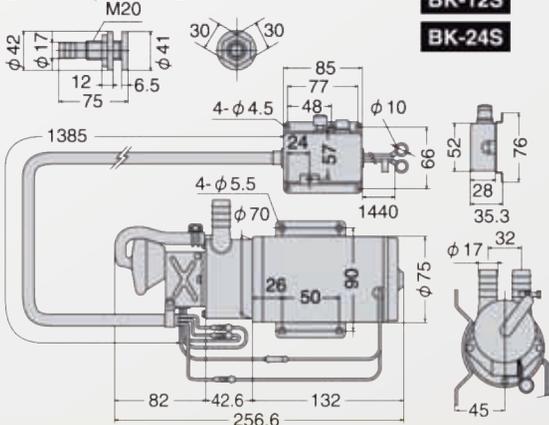


NEW BILGE KING

[Derivery Nozzle]

BK-12S

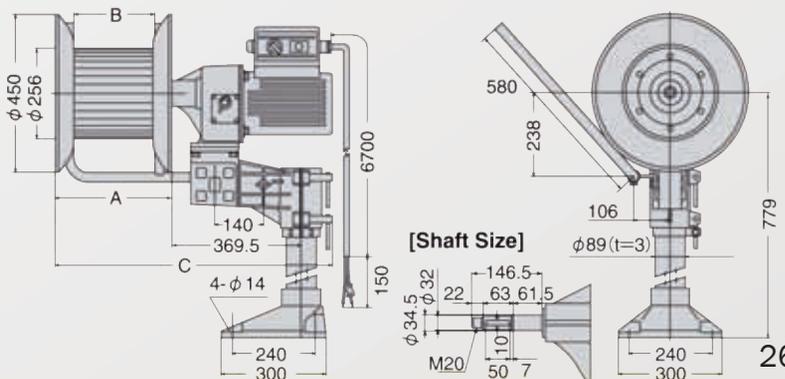
BK-24S



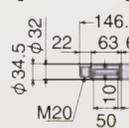
MAG-ROLLER

MR-

Model	A	B	C
MR-120	210	110	689.5
MR-240	328	228	807.5
MR-360	446	346	925.5

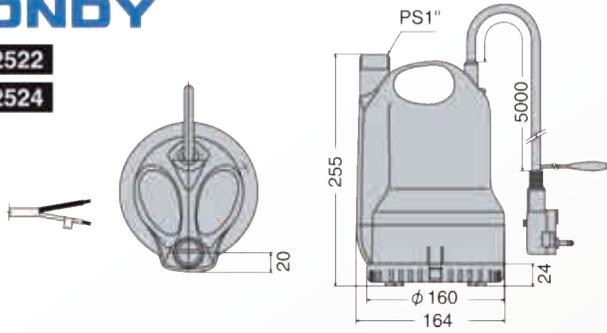


[Shaft Size]



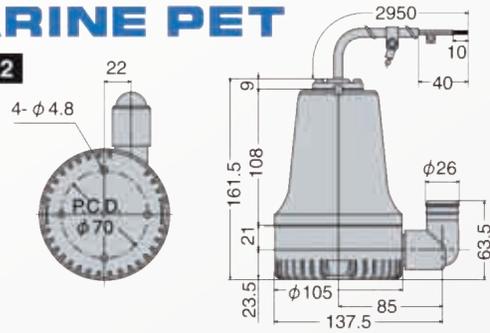
PONDY

SK-2522
SK-2524



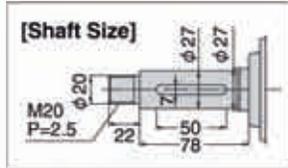
MARINE PET

SK-2522



ECARL

[Shaft Size]



RES-2512

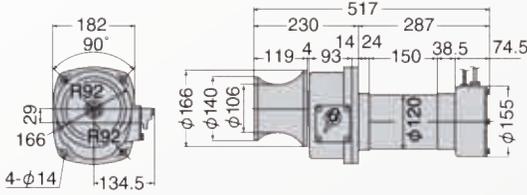
RES-4024(L)

RES-7524

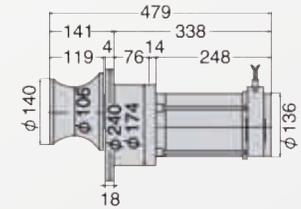
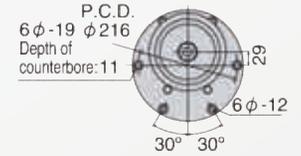
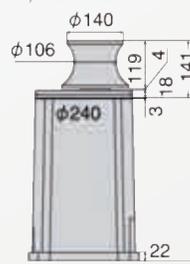
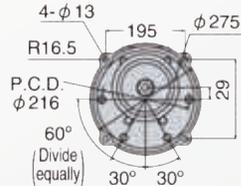
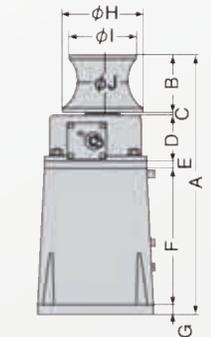
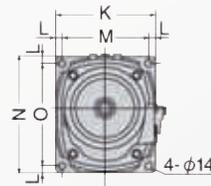
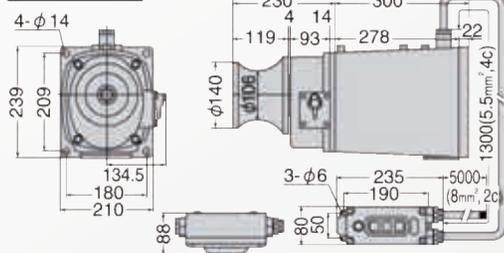
RENS-7524

REN-7524

REL-5524LB



RES-5524LB

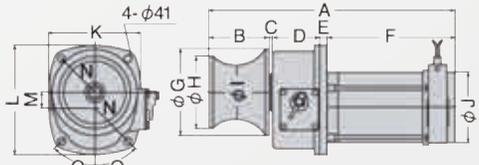


REL-2512

REL-2524

REL-4024(L)

REL-7524



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
RES-2512	530														
RES-4024(L)	119	4	93	14	278	22	166	140	106	210	15	180	239	209	
RES-7524	532	6													

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
REL-2512(L)	427					197					113	182			
REL-2524		119	4	93	14	203	166	140	106		136	211	29	R92	45°
REL-4024(L)	433					248					136	182			
REL-7524	480	6													

Outline

Company Name

KOSHIN LTD

Head Office

12 Kami-Hachinotsubo Kotari,
Nagaokakyo City,
Kyoto 617-8511 JAPAN

Founded

February 1948

Capital

98,000,000 yen

Business

Manufacturing and Sales of Pumps

Number of Employees

190

Overseas Subsidiaries & Affiliates

KOSHIN LITIAN (NINGBO) CO., LTD
NINGBO KOSHIN MOTER CO., LTD
KOSHIN AMERICA CORP. (Chicago)
KOSHIN THAILAND CO., LTD (Bangkok)

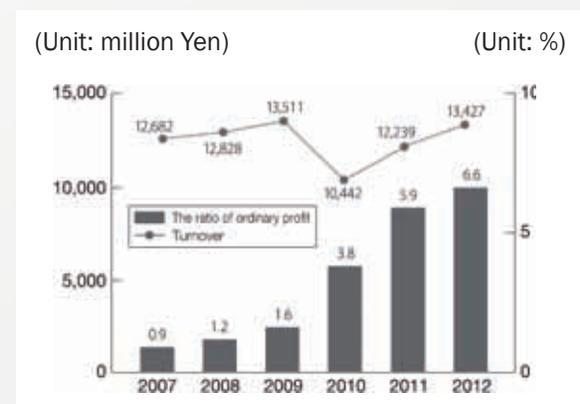
Representative office

EUROPE OFFICE
MEXICO OFFICE

The Board of Director

President	Tsutomu Kohara
Managing Director	Koshi Satake
Managing Director	Noboru Okutani
R&D Director	Eiichi Kohara
Director	Mayumi Koyama
Inspector	Tishiko Kohara

Transition for turnover and ordinary profit



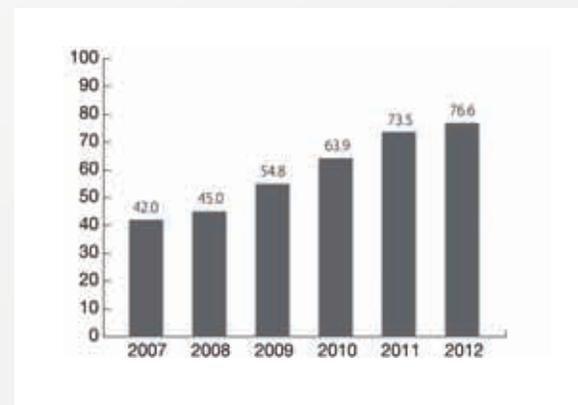
KOSHIN

History

- 1948** Established by Mr. Jin-Ichi Kohara, founder and first president
- 1956** Re-organized into a corporation due to business growth
- 1960** Awarded the prize from the Director General of the Small and Medium Enterprise Agency
- 1968** Construction of Nagaoka Factory
- 1972** Relocation to Nagaokakyo city and integrated operations
- 1980** Construction of new head office building
- 1985** Appointed by the Kyoto Prefecture as a model factory of small and medium enterprises
- 1990** Appointed by the Small and Medium Enterprise Agency as an instructive model factory of small and medium enterprises
- 1992** Construction of Bangkok factory, Thailand
- 1993** Construction of Koshin Research Laboratory
Construction of ZhonhShand factory in Guangdong
- 1995** Construction of head office building extention
- 1996** Construction of automated distribution center ware house
- 1998** Investment od 3 fully automatic machines aluminum die-casting
- 2000** Construction of mold manufacturing factory
- 2002** Construction and Completion of Koshin Distribution Center in Bangkok, Thailand
- 2003** Construction and Completion of Koshin Litian Factory in Ningbo, Zhejiang Province, China
- 2005** Construction and Completion of New Thailand Factory in bangkok, Thailand
- 2006** Established KOSHIN THAILAND CO., LTD
- 2008** 60th anniversary
- 2010** Established KOSHIN (NINGBO) PUMP DEVELOPMENT CO., LTD
Construction and completion motor factory in NIgbo, Zhejian Province, China
- 2011** Obtain R&I AAA grade

Transition for turnover and ordinary profit

(Unit: %)



KOSHIN

Notes

KOSHIN

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KOSHIN

KOSHIN Germany
Austria
Switzerland

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