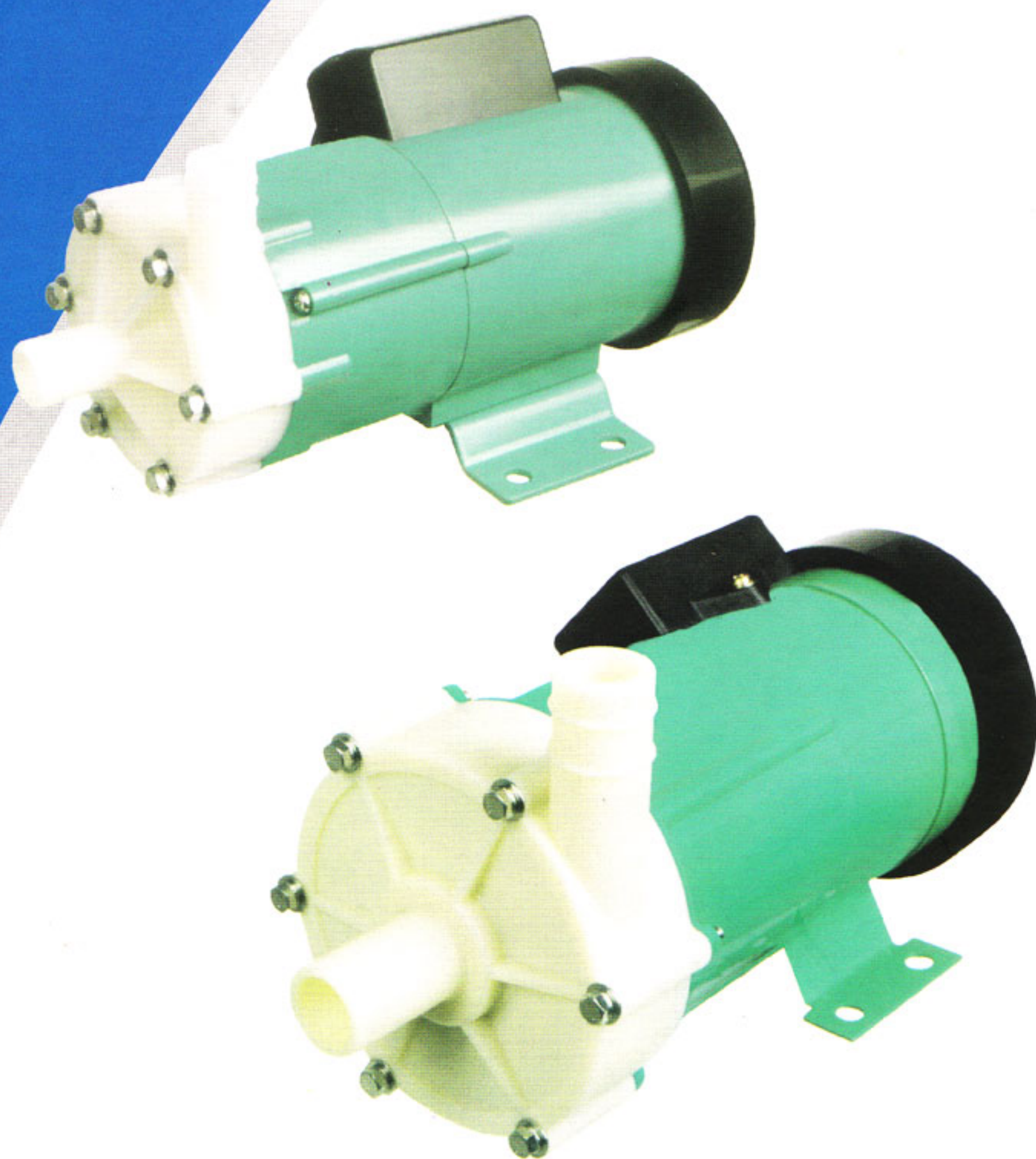


磁力驱动循环泵

MAGNETIC PUMP



TALOW MAPCATO PUMP MANUFACTURE CO.,LTD.

特殊结构 SPECIAL STRUCTURE

磁力驱动循环泵运转是在连轴上和叶轮上分别装配有磁性材料而互相吸引偶合，无需配以传统机械轴封，因而是完全密封的。电动机转动扭力是通过主动磁及从动磁的引力带动叶片工作运转。现今惯用的磁力驱动泵极大的缺点是在缺液情况下绝对严禁运转，否则整机将毁坏，给使用者增添不必要的麻烦和烦恼。“天龙泵业”的磁力驱动泵则不必为此担心，它采选了一种特别设计的特种配方陶瓷作轴承，具有极强的耐磨擦性和抗腐蚀性，使其先进性能和安全性能得以可靠的保证。

磁力驱动循环泵采用无轴封设计，完全避免了传统机械轴封泵存在的液体泄漏而引起的腐蚀后污染的缺陷，是工业设备中最理想的液体输送泵。

Magnetic drive circulation pump is a full-sealed pump, for motor connecting shaft and impeller are separately equipped with magnetic materials, they attract each other and coupled. It's unnecessary to fit with traditional shaft seal. The rotation torsion of motor drives impeller to rotate through the attraction between driving magnet and driven magnet. The shortcoming of present customary magnetic drive pump is that rotation is absolutely prohibited under the condition of lacking liquid, otherwise, the machine will be destroyed, resulted in unnecessary troubles for customer. "MAPCATO" adopts special ceramics as shaft bearing, characterizing strong resistance for abrasion and corrosion.

Magnetic drive circulation pump is generally designed for no shaft seal, completely avoids defects of pollution after corrosion caused by liquid leakage, which exists in traditional mechanical shaft seal pump. It is the optimum liquid transport pump on the industrial equipments.

构造图 Structural diagram

部件

- 1、固定螺丝及垫圈
- 2、泵壳
- 3、泵轴
- 4、叶轮
- 5、被动磁铁
- 6、密封圈
- 7、隔离套
- 8、主动磁铁
- 9、电机

材料

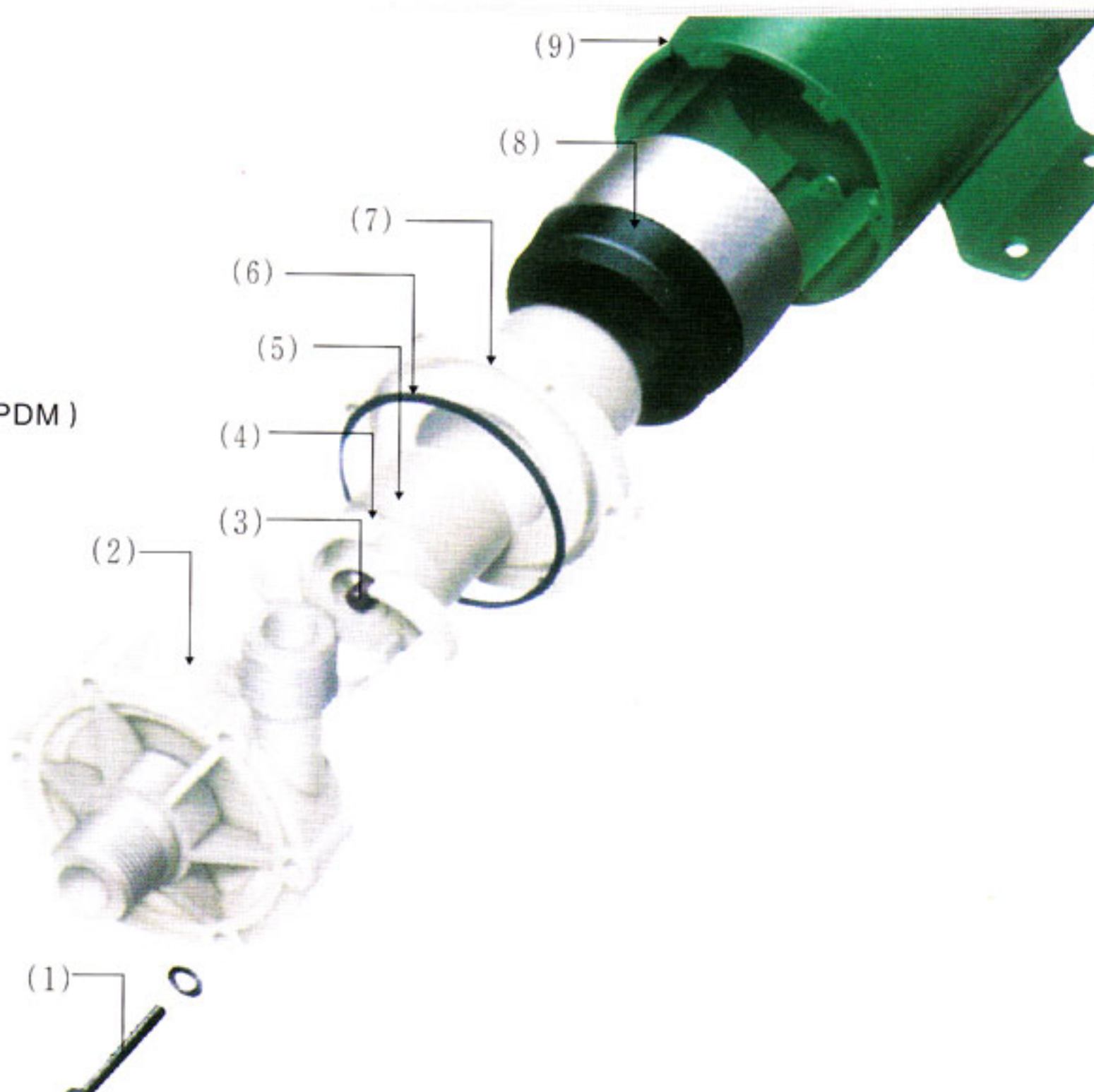
- 不锈钢
玻璃纤维增强聚丙烯
氧化铝陶瓷
玻璃纤维增强聚丙烯
锶铁氧体
氟橡胶 (FKM) 或三元乙丙橡胶 (EPDM)
玻璃纤维增强聚丙烯
锶铁氧体

Parts

- 1、Fixed screw and washer
- 2、Case
- 3、Shaft
- 4、Impeller
- 5、Driven magnet
- 6、Sealring
- 7、Insulate Sheath
- 8、Driving magnet
- 9、Motor

Material

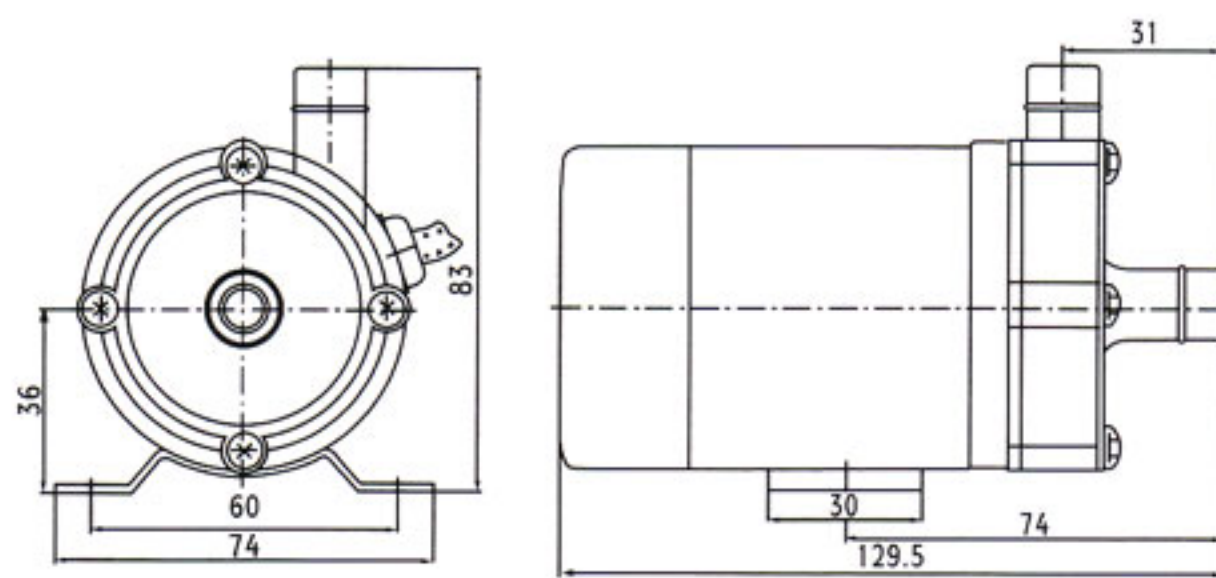
- Stainless steel
Glass fiber reinforce polypropylene
Alumina ceramic
Glass fiber reinforce polypropylene
Sr ferrite
Fluoride rubber (FKM) or ternary ethylene propylene rubber (EPDM)
Glass fiber reinforce polypropylene
Sr ferrite



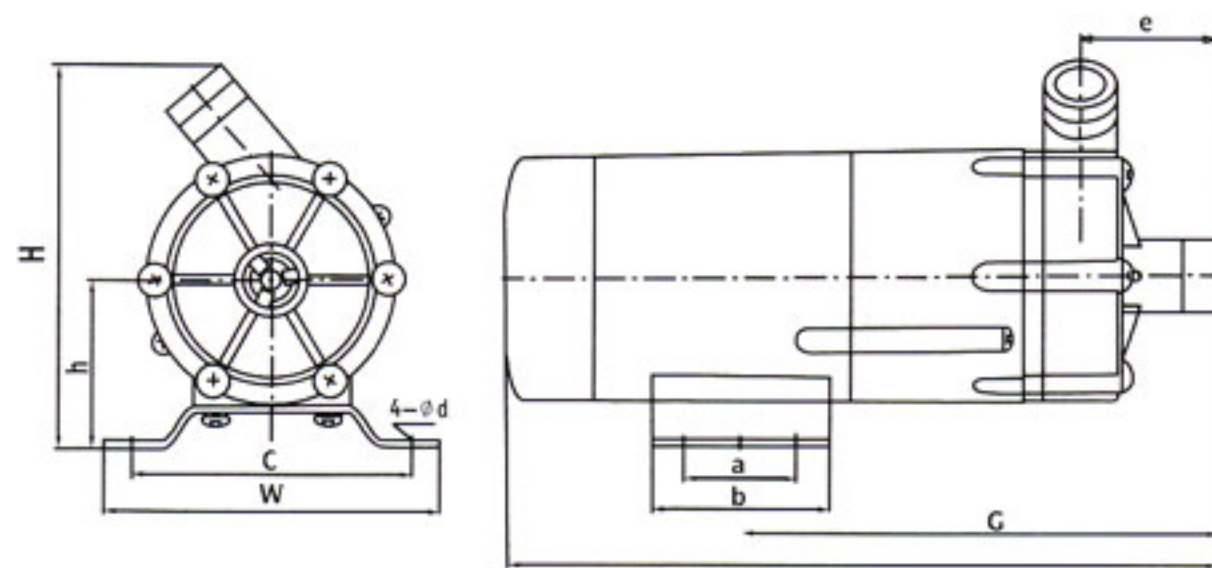
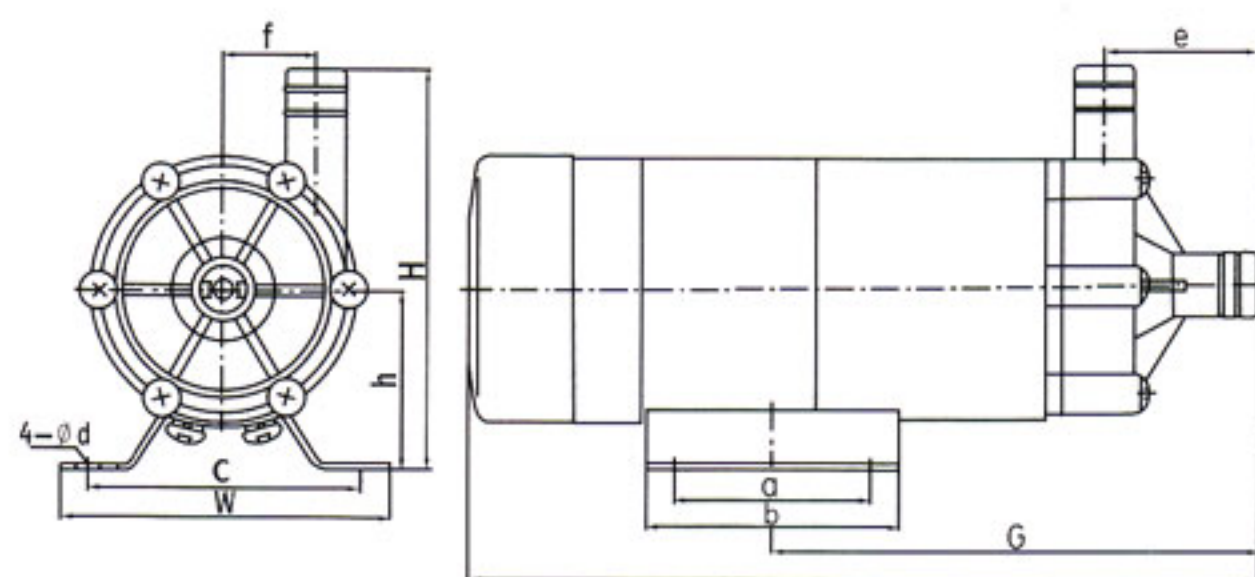
规格 SPECIFICATION

型号 Model	软管接口式 Tube interface		螺纹接口式 Thread interface		最大流量 Max.Capacity (L/min) 50Hz/60Hz	最高扬程 Max.Head (m) 50Hz/60Hz	标准输出量 Standard capacity		比重 Specific gravity	马达 Motor	
	入口 Inlet(mm)	出口 Outlet(mm)	出入口 Out-inlet (inch)	活管 Tube(mm)			流量 Capacity(L/min) 50Hz/60Hz	扬程 Head(m) 50Hz/60Hz		输出 Output(w) 50Hz/60Hz	相 Phase
MD-6R	14	14	-	-	8/9	1/1.4	2.8/5	0.8	<1.2	3	1
MD-10R	14	14	-	-	11/12	1.5/2.1	5/8	1	<1.1	6	1
MD-15R	16	16	-	-	16/19	2.7/3.4	8/12	1.5	<1.3	10	1
MD-20R	18	18	-	-	27/32	3.1/4.3	17/22	2	<1.2	20	1
MD-30R	20	20	-	-	33/38	3.8/5.4	16/25	2.5	<1.3	45	1
MD-40R	20	20	-	-	45/52	4.6/6.5	22/34	4	<1.1	65	1
MD-55R	26	26	-	-	60/70	5.6/8.2	30/45	4	<1.2	90	1or3
MD-70R	26	26	-	-	86/97	6.7/9.7	50/72	4	<1.1	150/180	1or3
MD-100R	26	26	-	-	120/130	8.6/11.6	60/70	7/9	<1.3	250/265	1or3

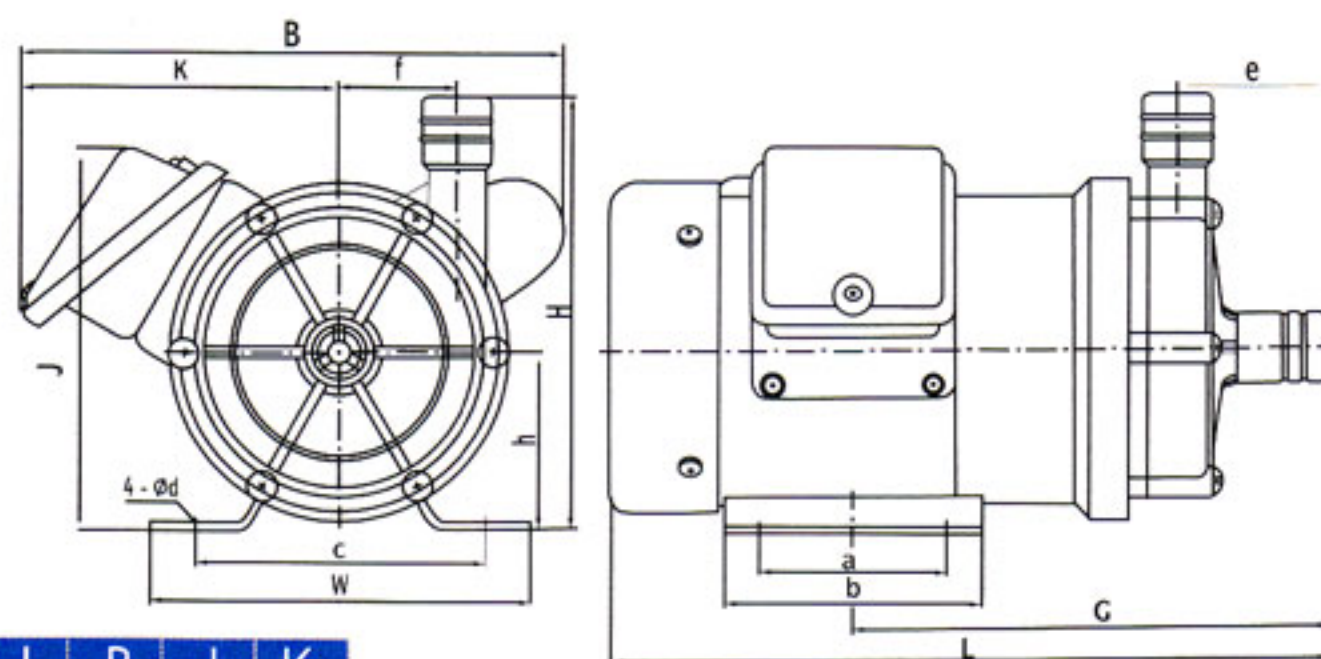
安装尺寸 DIMENSIONS



MD-6R、6RZ、10R



型号Model	a	b	c	d	e	f	G	h	H	W	L
MD-15R	49	63	68	6	38	23	121	45	100	82	196.5
MD-20R	30	50	68	5.5	38.5	28.5	131.5	56	116	85	209
MD-30R	40	64	100	9	48	30	166.5	60	130	120	249.5



型号Model	a	b	c	d	e	f	G	h	H	W	L	B	J	K
MD-40R	40	64	100	9	48	30	167.5	60	130	120	274	—	118	60
MD-55R	40	64	100	9	56.5	43	198.5	65.5	161	120	275	—	140	54
MD-70R	70	96	108	9.5	55.75	44	177	66	161	142	267	202	142	118
MD-100R	70	100	110	9	66	44	195.5	74	174	156	322	202	150	118

工作用途 APPLICATIONS

世元牌磁力驱动循环泵以聚丙烯为材料制造，具有耐化学药液腐蚀的性能，用途非常广泛。

The " Talow " Brand magnetic-driven cycle pump,made by polypropylene,has an excellent performance to endure the corrosion from chemical Liquid,Its applications is very extensive

化 学 工 业	碳酸钠化工业（盐酸、次氯酸、二次化学品的生产）；氯化物、化学肥料的生产；气体吸收塔反应液体循环；油脂提炼（硫酸）；废酸类的回收及再生系统；化工厂和运输车辆间的强酸类输送。
药 剂 业	半导体用的发光化学物（EL）、农药、医药、水处理化学剂的生产。
电 镀 业	循环过滤各类电镀液。
照 片 业	即现照相系统；X-光片、黑白、彩色、立体照片的冲晒。
电器用具业	电解质电容器的生产（铝膜的浸蚀）；干电池和蓄电池制造过程中输送电解液；电路版的蚀刻；半导体生产过程中输送高纯度化学液。
金 属 工 业	氧化铝膜处理设备；线材拉伸、钢铁轧制中除油及酸洗；车辆喷漆前除油及酸洗处理；氧化钛、稀土元素的生产等。
矿 业	金属熔炼（输送及循环电解液）；废液的洗涤处理。
食 品 工 业	葡萄糖酸的生产（盐酸）；食油的提炼（硫酸）；罐装水果工业（盐酸）。
医 疗	人造肾脏、心肺、超声波清洗机及各种医疗设备。
水 处 理	清洗离子交换树脂；纯水生产设备；海水淡化设备。
污 染 控 制	添加污水处理化学药剂到药液缸；收集及输送废液；废气吸收设备（除臭装置，排放废气前脱硫）。
其 它	应用银回收、晶片制造、实验工厂、制冰机、饮品机、生活锅炉、热交换器、太阳能系统、漂染、激光系统等领域及喷水池、鱼池、观赏鱼缸循环使用。
Chemical industry:	Sodium carbonate industry(production of hydrochloric acid,hypochlorous acid,secondary chemical product); production of fluoride,chemical fertilizer;cycle of reactive liquid of gas absorb tower,abstract grease(sulfuric acid);recycle & reactivation system of waste acid substance;transport of strong acid between chemical factory and transport vehicle.
Pharmaceuticals industry:	Production of luminophor(EL)for semiconductor,pesticides,medicine,water treatment agent.
Electric plate:	Cycle filter kinds of electroplating liquid.
Photograph processing:	At-once photograph system;X film, wash-out of black and white,colour and solid photograph
Electric appliance:	Production of chemical capacitor(erosion by alum inurn film),transport electrolyte for manufacture of dry battery and accumulator;Etching circuit board;Transfer high purity of chemical liquid during the manufacture of semiconductor.
Metal industry:	Treatment device for aluminum oxide film;Wire stretching;Oil elimination and acid cleaning for steel rolling;Oil elimination and acid cleaning before painting of vehicle;production of oxidized titanium and rare-earth element.
Mineral industry:	Fusion metallurgy(Transport and recycle the electrolyte);handling waste liquid.
Food industry:	Production of gluconic acid(hydrochloric acid);abstracting cooking oil(sulfuric acid);potted fruit industry (hydrochloric acid)
Medicine remedy:	Man-made kidney and heart,ultrasonic washing machine and various of medical equipment.
Water treatment:	Cleaning ion exchange resin;pure water production equipment;sea-water desalting equipment.
Pollution controll:	Add waste water treatment agent to medical liquid tank;collect and transport waste liquid;waste gas absorb equipment(deodorization equipment,desulfurisation before waste gas discharge)..
Other application:	Applied in silver recycle,wafer manufacture,laboratory-ice making machine,drinking machine,living boiler. Heating exchange machine,solar energy system,dyeing ,laser system,water spouting pool,rearing pond fish jar etc.