



在使用本产品前请仔细阅读本手册，本将其放在设备附近以备将来参阅。

Before use, please read this manual carefully and be placed nearby to the equipment for future reference



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Shangcheng Pump and valve
Being trustworthy because of its sincerity

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❖ 磁力泵系列

Series self-priming magnetic pump

用户使用手册

User operating brochure



CHENG

上海上诚泵阀制造有限公司

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上海上诚泵阀制造有限公司

SHANGHAI SHANGCHENG PUMP AND VALVE MANUFACTURING CO., LTD



BRIEF 企业简介 INTRODUCTION

上海上诚泵阀制造有限公司是一家集科研、开发、生产、销售于一体的泵阀企业；公司拥有一支经验丰富、勇于实践、不断创新的高素质开发、科研队伍：其中高级工程师2名，研究、设计技术人员35名，生产技术制造人员68名，现有员工总数达298人；公司拥有国内外先进的电脑微机控制性能水泵测试台，使客户更安全、更有效、更放心地使用上诚产品。

公司全面采用ISO9001：2000《质量管理体系要求》，并有效的实施；自创办以来始终把质量管理作为第一追求目标，发扬拼搏精神，争创一流的精神在泵阀行业中不断发展壮大。

公司主要生产经营各类水泵及配套蝶阀；产品畅销全国各地，广泛应用于石油、化工、电力、造纸、食品、制药、给排水工程等，深受各行业用户的一致好评，上诚秉承“以诚为贵，以质取胜”的经营理念，诚心为您提供优质的品牌产品和完美的服务，竭诚欢迎社会各界惠顾合作。

Shanghai Shangcheng Pump and valve manufacturing Co.,Ltd. is an enterprise of Researching, developing, producing and selling; The company has an experience team to develop high quality products, 2 senior engineers, 35 designing engineers, 68 technicians, which totally amounts to 298; The company has the domestic advanced automatical system to perform water pump test, which can make the customer to use our products safely, effective and easily.

The ISO9001:2000"quality control system request" always be implemented effectively since our company is opened, the quality control is always our first pursue goal and we are growing strong in the pump and valve industry.

Our main products are pumps and matched valves, which are sold to the strongly all over of China, it can be widely applied to petroleum, chemical industry, electric power, paper-making, food, drugs manufacturing and so on, "honesty oriented, quality comes first" is our management idea, which sincerely provides the high quality brand product and the consummation service for you.



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磁力泵概述

• Briefing of Magnetic Pump •

磁力泵概述

在石油、化工、军工、制药等领域中，经常存在着一些输送腐蚀性液体的场所，因此研制和开发全密封、无泄漏、抗腐蚀性能强的离心泵是我们关心和研究的方向。磁力传动静密封技术在泵领域的应用显示出其零泄漏的密封特性。

磁力传动离心泵(简称磁力泵)是应用现代磁力学原理，利用永磁体的磁力传动实现扭矩的无接触传递的一种新型泵，也就是电机带动外转子(即外磁钢)总成旋转时，通过磁场的作用磁力线穿过隔离套带动内转子(即内磁钢)总成和叶轮同步旋转，由于介质封闭在静止的隔离套内，从而达到无泄漏抽送介质的目的，彻底解决了机械传动泵的轴封泄漏而设计的全密封、无泄漏、无污染的新型工业用泵。

磁力泵是化工流程中杜绝跑、冒、滴、漏现象，消除环境污染，创造“无泄漏车间”、“无泄漏工厂”，实现安全、文明生产的理想用泵。广泛应用于石油、化工、制药、印染、电镀、食品、环保等企业的生产流程中输送不含铁屑杂质的腐蚀性液体，尤其适用于易燃、易爆、易挥发、有毒和贵重液体的输送。

磁力泵产品有CQ、CQF、ZCQ、CQB、CQB-F、CQB-G、ZBF、MP、CQG等系列，产品符合国际标准ISO2858、国家标准GB5662和JB/T 7742-1995的有关要求；以上各种系列磁力泵都采用最优秀的水力模型，达到了高效、节能、性能稳定等优点。而且结构简单，安装简便，占地面积小，拆卸维修方便，噪音低，是石油、化工、制药、电镀、电子、环保等行业的首选产品。

BRIEFING OF MAGNETIC PUMP

In the fields of petroleum, chemicals, war industry and pharmaceuticals etc., there are often needs to handle some corrosive liquids. For this reason we dedicate ourselves to the development and research of fully sealed, leak-tight and corrosion-resisting centrifugal pumps. Magnetism-driven silent seal technology performs leak-tight seal in pump industry.

Magnetism-driven centrifugal pump (magnetic pump for short) is a late model uses the theory of modern magnetics. The noncontact transfer of torque is actualized by the magnetic force of permanent magnet. Namely, when motor drives outer rotor (outer magnet steel) assembly rotating, inner rotor (inner magnet steel) assembly will rotate synchronously with impeller driven by magnetic line of force through spacer sleeve under the function of magnetic field. As medium is closed in the actionless spacer sleeve, leak-tight delivery of medium can be effected, making it a new-style industrial pump of full seal and no leakage and pollution, and away from the trouble of leakage at shaft seal borne by mechanical drive pumps.

Magnetic pump is an environmental-friendly solution to the phenomena of bleeding, emitting, dropping and leaking, thus to effect "leak-tight workshop" and "leak-tight factory" for safe and civilized production. They are widely used in the industries of petroleum, chemicals, pharmaceuticals, printing and dyeing, electroplating, foodstuff, environment protection and etc. to handle corrosive liquid not containing scrap irons, especially inflammable, explosive, volatile, toxic and precious liquids.

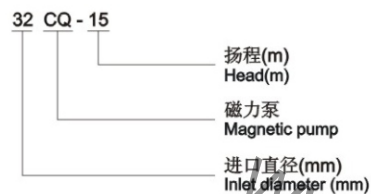
Magnetic pumps are provided with CQ, CQF, ZCQ, CQB, CQB-F, CQB-G, ZBF, MP, CQG series conforming to ISO2858, GB5662 and JB/T7742-1995, Using the most superior hydraulic model, all magnetic pumps above are featured by high efficiency, energy saving, steady performance, simple structure, easy installation, small occupation of floor, convenient disassembly and maintenance and low noise, making the m optimal for the industries of petroleum, chemicals, pharmaceuticals, electroplating, electronics, environment protection and etc.

产品特点 PRODUCT FEATURES

CQ型泵具有结构简单、外型美观、体积小、噪音低、运转可靠、使用维修方便等优点。磁传动部分采用铁氧体为主要材料，过流部分采用不锈钢，是目前应用最广泛的无泄漏磁力传动离心泵。

CQ series pump, this pump is featured by simple structure, appealing profile, small volume, low noise, reliable running, easy operation and maintenance, and etc. its magnetism-driven part uses ferrite as main material, provided with competitive price, it is the most widely-used leak-tight pump at present.

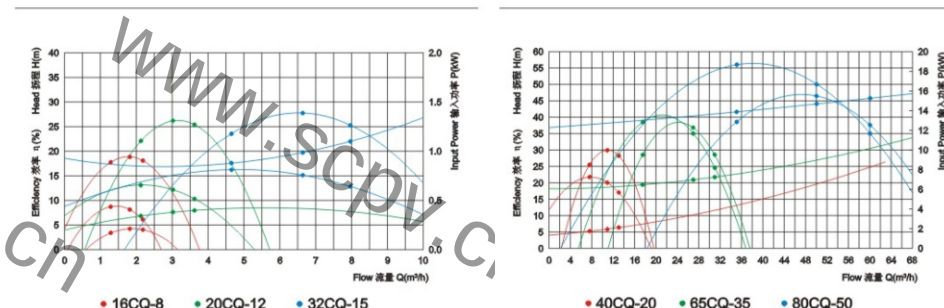
型号意义 SIGNIFICATION OF MODEL



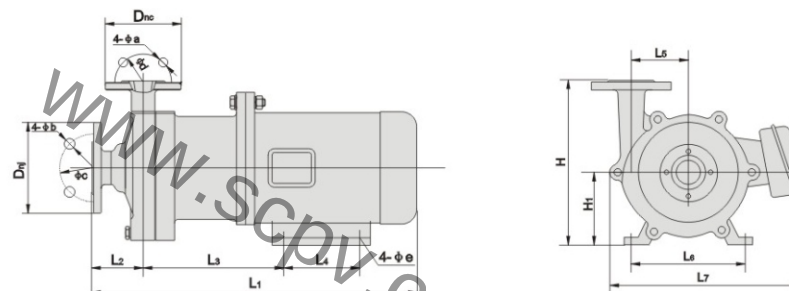
性能参数 PERFORMANCE PARAMETERS

型号 Model	口径 (mm) Caliber	流量 (m³/h) Flow	扬程 (m) Head	汽蚀余量 (NPSH)r(m) Net positive suction head	电机功率 (kW) Motor power	转速 (r/min) Rotary speed	电压 (V) Voltage
16CQ-8	16	1.8	8	6.0	0.18	2900	220/380
20CQ-12	20	3	12	6.0	0.37	2900	220/380
25CQ-15	25	5.4	15	6.0	1.1	2900	380
32CQ-15	32	6.6	15	6.0	1.1	2900	380
32CQ-25	32	4.8	25	5.5	1.1	2900	380
40CQ-20	40	10.8	20	4.0	2.2	2900	380
40CQ-32	40	12	32	4.0	4.0	2900	380
50CQ-25	50	14.4	25	4.0	4.0	2900	380
50CQ-40	50	13.2	40	4.0	4.0	2900	380
50CQ-50	50	7.8	50	4.0	5.5	2900	380
65CQ-25	65	16.8	25	4.0	5.5	2900	380
65CQ-35	65	27	35	4.0	7.5	2900	380
80CQ-20	80	50	20	4.0	7.5	2900	380
80CQ-35	80	50	35	4.0	11	2900	380

性能曲线 PERFORMANCE GRAPH



安装尺寸 INSTALLATION DIMENSIONS



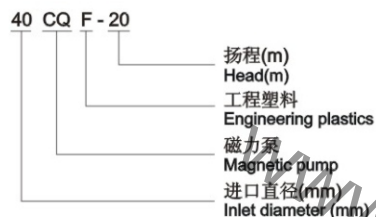
型号 Model	4-φa	4-φb	φc	φd	D _{nc}	D _{ri}	4-φe	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	H	H ₁
16CQ-8	管子连接 Pipe connection						7	330	60	125	71	50	90	140	140	60
20CQ-12	管子连接 Pipe connection						8	350	57	130	80	55	100	160	170	73
25CQ-15	10	12	75	65	90	100	10	460	68	190	100	72	125	240	205	80
32CQ-15	12	14	90	75	100	120	10	460	68	190	100	72	125	240	205	80
32CQ-25	14	14	90	75	100	120	10	460	68	190	100	85	125	260	260	80
40CQ-20	14	14	100	90	120	130	10	545	75	235	125	78	140	290	220	90
40CQ-32	14	14	100	90	120	130	12	620	80	271	140	91	190	336	260	112
50CQ-25	14	14	110	100	130	140	12	620	80	271	140	91	190	336	260	112
50CQ-40	14	14	110	100	130	140	12	620	90	305	140	91	190	336	260	112
50CQ-50	14	14	110	100	130	140	12	695	90	305	140	0	216	350	300	132
65CQ-25	14	14	130	110	140	160	12	695	90	305	140	91	216	350	300	132
65CQ-35	14	14	130	110	140	160	12	720	76	360	140	0	216	350	292	132

产品特点 PRODUCT FEATURES

CQF型产品以增强聚丙烯为主要材料,泵的过流零部件均为注塑成型,能耐大多数的有机和无机酸、碱和盐类溶液,也适于在室外大气中暴露,对应力腐蚀破裂的抗蚀性良好。

CQF product is mainly made of reinforced PP and all flow through pump parts adopt injection mould with resistance to most organic and inorganic acid, alkali and salty solutions, applicable for being exposed outdoor with fine anticorrosive performance of stress corrosion cracking.

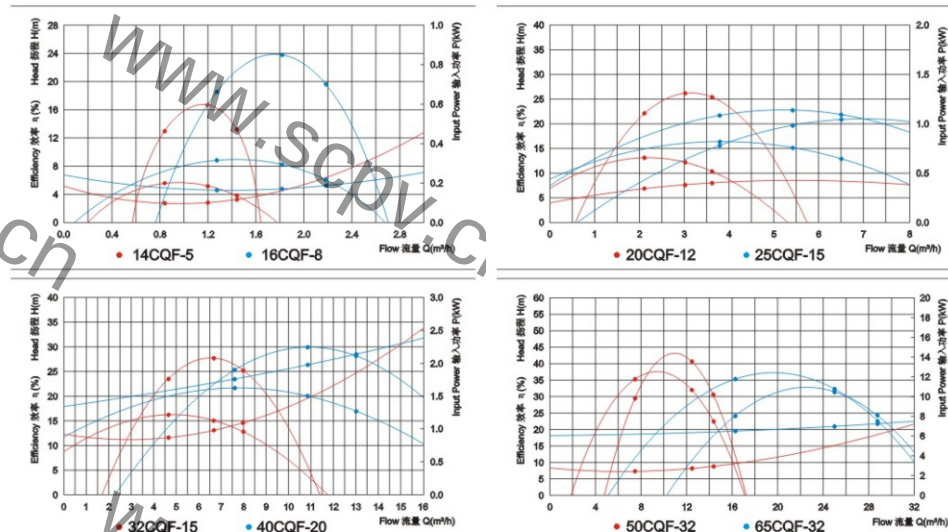
型号意义 SIGNIFICATION OF MODEL



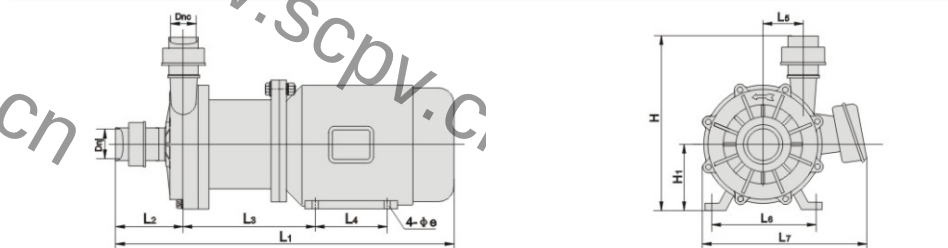
性能参数 PERFORMANCE PARAMETERS

型号 Model	口径 (mm) Caliber	流量 (m³/h) Flow	扬程 (m) Head	汽蚀余量 (NPSH)r(m) Net positive suction head	电机功率 (kW) Motor power	转速 (r/min) Rotary speed	电压 (V) Voltage
10CQF-3	10	0.9	3	7.8	0.025	2900	220
14CQF-5	14	1.2	5	7.0	0.12	2900	220/380
16CQF-8	16	1.8	8	6.0	0.18	2900	220/380
20CQF-12	20	3	12	6.0	0.37	2900	220/380
25CQF-15	25	5.4	15	5.0	1.1	2900	380
32CQF-15	32	6.6	15	6.0	1.1	2900	380
32CQF-25	32	4.8	25	5.5	1.1	2900	380
40CQF-20	40	10.8	20	3.5	2.2	2900	380
50CQF-25	50	12.5	25	3.5	3.0	2900	380
50CQF-32	50	12.5	32	3.5	4.0	2900	380
65CQF-32	65	25	32	3.5	7.5	2900	380

性能曲线 PERFORMANCE GRAPH



安装尺寸 INSTALLATION DIMENSIONS



型号 Model	Dn1	Dn2	L1	L2	L3	L4	L5	L6	L7	4-φe	H	H1
10CQF-3	16	15	200	40	60	50	68	25	/	6	100	45
14CQF-5	25	16	300	46	115	68	90	37	/	8	125	56
16CQF-8	25	16	306	46	115	70	90	40	/	8	125	56
20CQF-12	25	18	350	60	140	80	100	55	/	8	175	80
25CQF-15	32	25	490	110	180	100	60	125	235	10	250	80
32CQF-15	40	32	490	110	180	100	60	125	235	10	250	80
32CQF-25	40	32	500	120	185	100	70	125	255	10	270	80
40CQF-20	50	32	556	120	200	125	80	140	267	10	280	90
50CQF-25	65	50	650	130	240	140	80	190	280	12	350	112
50CQF-32	65	50	650	130	240	140	80	190	280	12	350	112
65CQF-32	80	65	710	135	280	140	90	216	330	12	360	132



产品特点 PRODUCT FEATURES

自吸泵顾名思义，就是泵启动前不需引灌水，经短时间运转，靠泵本身的作用，把水吸上来，投入正常运转。ZCQ型自吸式磁力泵，不但具有自吸功能，而且为磁力驱动结构，具有全密封、耐腐蚀、无泄漏的特点，是自动化远距离控制和流动使用的理想泵。

Just as its name implies, self-priming pump doesn't need priming water before start. After a short time of running, water is absorbed by pump itself for normal operation. ZCQ self-priming magnetic pump is not only provided with self-priming function, but also of magnetism-driven structure. Featured by full seal and leak-tightness, it is an optimal pump for automated distant control and for floating uses.

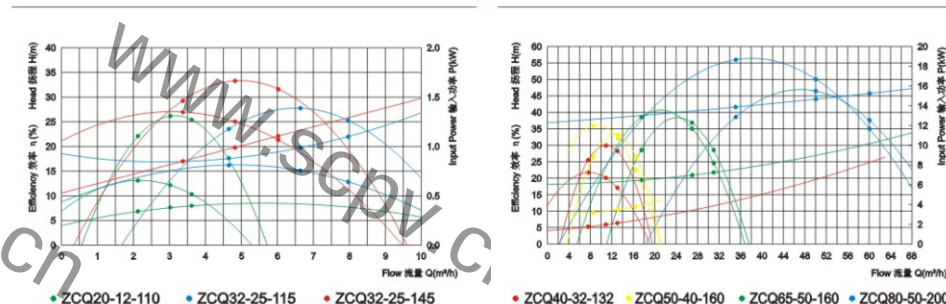
型号意义 SIGNIFICATION OF MODEL



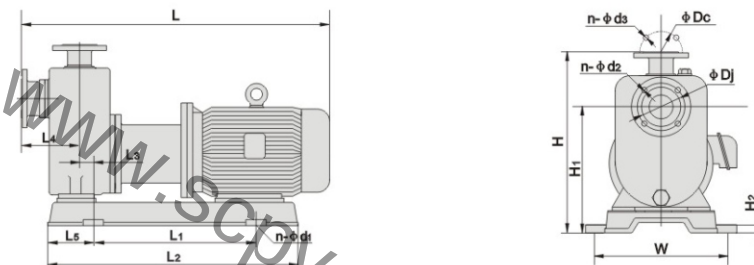
性能参数 PERFORMANCE PARAMETERS

型号 Model	口径 (mm) Caliber	流量 (m³/h) Flow	扬程 (m) Head	汽蚀余量 (NPSH)r(m) Net positive suction head	电机功率 (kW) Motor power	转速 (r/min) Rotary speed	电压 (V) Voltage
ZCQ20-12-110	20	12	3	12	6.0	0.37	220/380
ZCQ25-20-115	25	20	5.4	15	6.0	1.1	380
ZCQ32-25-115	32	25	4.8	15	6.0	1.1	380
ZCQ32-25-145	32	25	4.8	25	5.5	1.1	380
ZCQ40-32-132	40	32	10.8	20	4.0	2.2	380
ZCQ40-32-160	40	32	12	32	4.0	4.0	380
ZCQ50-40-145	50	40	14.4	25	4.0	4.0	380
ZCQ50-40-160	50	40	13.2	32	4.0	4.0	380
ZCQ50-32-200	50	32	7.8	50	4.0	5.5	380
ZCQ65-50-145	65	50	16.8	25	4.0	5.5	380
ZCQ65-50-160	65	50	27	32	4.0	7.5	380
ZCQ80-65-125	80	65	50	20	4.0	7.5	380
ZCQ80-65-160	80	65	50	32	4.0	15	380
ZCQ80-50-200	80	50	50	50	4.0	18.5	380
ZCQ100-80-160	100	80	100	32	4.0	22	380
ZCQ100-65-200	100	65	100	50	4.0	30	380

性能曲线 PERFORMANCE GRAPH



安装尺寸 INSTALLATION DIMENSIONS



型号 Model	L	H	底 盘 Chassis			进口法兰 Inlet flange		出口法兰 Outlet flange		H ₁	H ₂	L ₃	L ₄	L ₅
			L ₂	L ₁ ×W	n-φd ₁	Dj	n-φd ₂	Dc	n-φd ₃					
ZCQ20-12-110	410	320	325	215×200	4-12	65	4-12	55	4-12	230	20	/	85	55
ZCQ25-20-115	520	340	450	285×250	4-14	75	4-12	65	4-12	240	20	/	100	80
ZCQ32-25-115	520	340	450	285×250	4-14	90	4-14	75	4-12	240	20	/	100	80
ZCQ32-25-145	570	360	450	285×260	4-14	90	4-14	75	4-12	270	20	/	100	80
ZCQ40-32-132	620	370	510	350×280	4-14	100	4-14	90	4-14	270	20	10	110	80
ZCQ40-32-160	665	400	510	370×330	4-16	100	4-14	90	4-14	300	20	55	110	125
ZCQ50-40-145	660	400	510	370×330	4-16	110	4-14	100	4-14	270	20	55	110	70
ZCQ50-40-160	685	400	560	370×330	4-16	110	4-14	100	4-14	300	20	55	110	125
ZCQ50-32-200	830	550	600	355×355	4-16	110	4-14	90	4-14	450	20	60	110	125
ZCQ65-50-145	760	430	600	355×355	4-16	130	4-14	110	4-14	310	20	60	120	125
ZCQ65-50-160	810	480	600	355×355	4-16	130	4-14	110	4-14	340	20	60	110	125

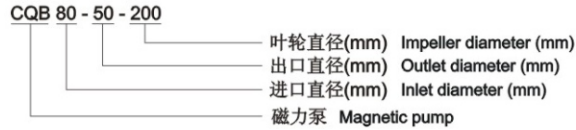


产品特点 PRODUCT FEATURES

该泵过流部份采用全不锈钢材料，对有机酸，有机化合物，碱、中性溶液和多种气体都有良好的耐腐蚀性，双螺旋槽碳石墨轴承和硬质合金轴套的磨合，具有较强的耐磨性，保证了产品的寿命，是无泄漏输送腐蚀性介质的理想泵。

The wet parts of this pump are made of full stainless steel material to perform outstanding corrosion resistance to organic acid, organic compound, alkali, neutral solution and a great many of gases, double helix carbon graphite bearing and hard alloy bearing are provided with good abrasion-resisting property to ensure the service life of product, it is an optimal pump for handling corrosive mediums without leakage.

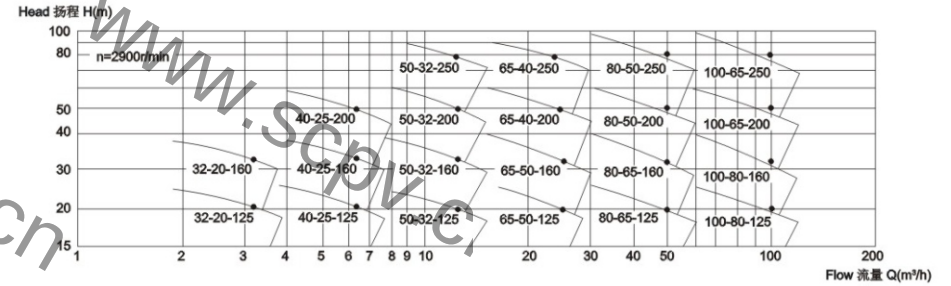
型号意义 SIGNIFICATION OF MODEL



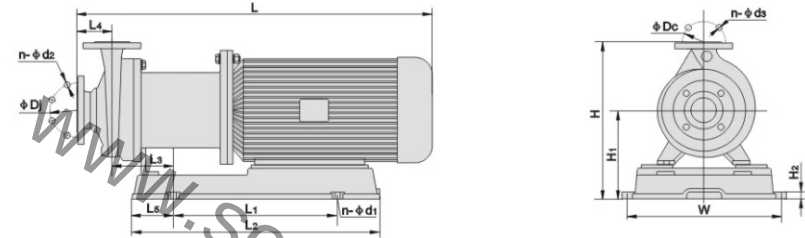
性能参数 PERFORMANCE PARAMETERS

型号 Model	口径 (mm) Caliber	流量 (m³/h) Flow	扬程 (m) Head	汽蚀余量 (NPSH)r(m) Net positive suction head	电机功率 (kW) Motor power	转速 (r/min) Rotary speed	电压 (V) Voltage
CQB32-20-105	32	20	12.5	4.5	1.1	2900	380
CQB32-20-125			20	4.5	1.5	2900	380
CQB32-20-160			32	4.5	2.2	2900	380
CQB40-25-125	40	25	20	4.5	2.2	2900	380
CQB40-25-160			32	4.5	3	2900	380
CQB40-25-200			50	4.5	5.5	2900	380
CQB50-32-125	50	32	20	4.0	3	2900	380
CQB50-32-160			32	4.0	4	2900	380
CQB50-32-200			50	4.0	7.5	2900	380
CQB50-32-250			80	4.0	15	2900	380
CQB65-50-125	65	50	20	4.0	5.5	2900	380
CQB65-50-160			32	4.0	7.5	2900	380
CQB65-40-200		40	50	4.0	15	2900	380
CQB65-40-250			80	4.0	22	2900	380
CQB80-65-125	80	65	20	3.5	7.5	2900	380
CQB80-65-160			32	3.5	15	2900	380
CQB80-50-200		50	50	3.5	18.5	2900	380
CQB80-50-250			80	3.5	37	2900	380
CQB100-80-125	100	80	20	3.2	15	2900	380
CQB100-80-160			32	3.2	22	2900	380
CQB100-65-200		65	50	3.2	37	2900	380
CQB100-65-250			80	3.2	55	2900	380
CQB125-100-200	125	100	50	3.2	75	2900	380
CQB125-100-250			80	3.2	90	2900	380

型谱图 TYPE ARRANGEMENT CHART



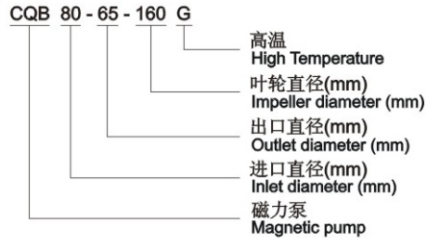
安装尺寸 INSTALLATION DIMENSIONS



型 号 Model	L	H	底 盘 Chassis			进口法兰 Inlet flange		出口法兰 Outlet flange		H ₁	H ₂	L ₃	L ₄	L ₅
			L ₂	L ₁ ×W	n-φ d ₁	D _j	n-φ d ₂	D _c	n-φ d ₃					
CQB32-20-105	450	245	325	180×250	4-16	100	4-18	75	4-14	115	20	100	70	80
CQB32-20-125	560	342	385	185×270	4-16	100	4-18	75	4-14	115	20	100	70	80
CQB32-20-160	560	360	385	185×270	4-16	100	4-18	75	4-14	195	20	100	80	75
CQB40-25-125	560	325	385	185×270	4-16	110	4-18	85	4-14	178	20	110	80	75
CQB40-25-160	668	370	440	270×330	4-16	110	4-18	85	4-14	210	20	140	80	85
CQB40-25-200	740	440	535	345×350	4-16	110	4-18	85	4-14	230	20	98	88	80
CQB50-32-125	645	350	440	275×290	4-16	125	4-18	100	4-18	190	20	140	80	85
CQB50-32-160	668	370	440	270×330	4-16	125	4-18	100	4-18	210	20	140	80	85
CQB50-32-200	740	440	535	345×350	4-16	125	4-18	100	4-18	230	20	98	88	80
CQB50-32-250	870	480	700	410×405	4-18	125	4-18	100	4-18	260	20	100	105	85
CQB65-50-125	795	400	535	345×350	4-16	145	4-18	125	4-18	260	20	130	100	80
CQB65-50-160	795	420	535	340×350	4-16	145	4-18	125	4-18	260	20	130	100	80
CQB65-40-200	970	440	700	410×405	4-18	145	4-18	110	4-18	260	20	190	100	132
CQB65-40-250	980	500	700	470×445	4-18	145	4-18	110	4-18	280	20	160	100	120
CQB80-65-125	795	420	535	345×350	4-16	160	8-18	145	4-18	260	20	130	100	80
CQB80-65-160	920	440	700	410×405	4-18	160	8-18	145	4-18	260	20	175	100	120
CQB80-50-200	980	460	700	470×445	4-18	160	8-18	125	4-18	260	20	190	100	132



型号意义 SIGNIFICATION OF MODEL



性能参数 PERFORMANCE PARAMETERS (型谱图参照CQB型系列 Refer to CQB series for spectrum diagram)

型号 Model	口径 (mm) Caliber		流量 (m³/h) Flow	扬程 (m) Head	汽蚀余量 (NPSH)r(m) Net positive suction head	电机功率 (kW) Motor power	转速 (r/min) Rotary speed	电压 (V) Voltage
	进口 Inlet	出口 Outlet						
CQB32-20-125G	32	20	3.2	20	4.5	1.5	2900	380
CQB32-20-160G				32	4.5	2.2	2900	380
CQB40-25-125G	40	25	6.3	20	4.5	2.2	2900	380
CQB40-25-160G				32	4.5	3	2900	380
CQB40-25-200G	50	32	12.5	50	4.5	5.5	2900	380
CQB50-32-125G				20	4.0	3	2900	380
CQB50-32-160G				32	4.0	4	2900	380
CQB50-32-200G				50	4.0	7.5	2900	380
CQB50-32-250G	65	40	25	80	4.0	15	2900	380
CQB65-50-125G				20	4.0	5.5	2900	380
CQB65-50-160G				32	4.0	7.5	2900	380
CQB65-40-200G				50	4.0	15	2900	380
CQB65-40-250G	80	50	50	80	4.0	22	2900	380
CQB80-65-125G				20	3.5	7.5	2900	380
CQB80-65-160G				32	3.5	15	2900	380
CQB80-50-200G				50	3.5	22	2900	380
CQB80-50-250G	100	65	100	80	3.5	37	2900	380
CQB100-80-125G				20	3.2	15	2900	380
CQB100-80-160G				32	3.2	22	2900	380
CQB100-65-200G				50	3.2	37	2900	380
CQB100-65-250G				80	3.2	55	2900	380

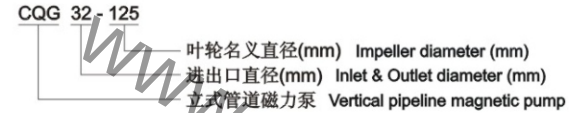
产品特点 PRODUCT FEATURES

CQB-G型高温保温泵采用多重循环冷却结构,保证了原动力和磁传动的可靠性和稳定性。同时采用柱销联轴器减少了泵的噪音和震动,便拆式和柱销联轴器同时使用,使泵的结构增长,更有利于泵的散热。同时,也十分方便用户的维修或更换零件,在泵的外转子部分还设计了散热风叶,确保磁钢的稳定性。本系列泵适用于输送高温介质,温度≤300℃。

CQB-G uses multiple circulating cooling structure to ensure the dependability and stability of prime mover and magnetic drive. Meanwhile, pin coupling is used to reduce the noise and vibration of pump. The detachable type and pin coupling makes the structure of pump longer, which is good for heat dissipation. Moreover, to make repair and replacement of spare parts much easier, a heat dissipation fan blade is designed on the outer rotor of pump to ensure the stability of magnet steel. This series of pumps are applicable for high temperature mediums, with service temperature ≤300℃.



型号意义 SIGNIFICATION OF MODEL



性能参数 PERFORMANCE PARAMETERS

型号 Model	流量 (m³/h) Flow	扬程 (m) Head	效率 (%) Efficiency	电机功率 (kW) Motor power	汽蚀余量 (NPSH)r(m) Net positive suction head
CQG25-110	4.0	15	27	0.75	2.3
CQG25-125	4.0	20	21	1.1	2.3
CQG25-160	4.0	32	17	2.2	2.3
CQG32-100	4.5	12.5	29	0.75	2.0
CQG32-125	4.5	20	29	1.1	2.3
CQG32-160	4.5	32	29	2.2	2.3
CQG32-200	4.5	50	17	4	2.0
CQG40-160	6.3	20	31	1.5	2.3
CQG40-125	6.3	32	25	3	2.3
CQG40-200	6.3	50	18	5.5	2.3
CQG40-250	6.3	80	13	11	2.3
CQG50-100	12.5	12.5	47	1.5	2.3
CQG50-125	12.5	20	43	2.2	2.3
CQG50-160	12.5	32	37	4	2.3
CQG50-200	12.5	50	31	7.5	2.3
CQG50-250	12.5	80	23	15	2.3
CQG65-100	25	12.5	54	2.2	2.5
CQG65-125	25	20	53	3	2.5

产品特点 PRODUCT FEATURES

CQG型是在ISG型立式管道泵的基础上设计而成的新型立式结构磁力泵,它秉承ISG泵的优点,又与磁力传动的完美结合,达到了无泄漏输送液体的要求。

CQG型立式磁力泵可直接安装在管道的任何部位,对管道中的介质进行加压,可直接替换原来的ISG泵,安装尺寸与ISG泵完全相同,方便用户更换。

CQG is a late-model vertical magnetic pump designed on the base of ISG vertical pipeline mounted pump. Embodying the advantages of ISG pump, this type is provided with magnetic drive for leak-tight delivery of liquid.

CQG vertical magnetic pump can be directly mounted to any position on the pipeline, and carries out pressurization to the medium inside pipeline. It can directly replace ISG pump, with installation dimensions completely same as ISG pumps for the convenience of making replacement.

型号 Model	流量 (m³/h) Flow	扬程 (m) Head	效率 (%) Efficiency	电机功率 (kW) Motor power	汽蚀余量 (NPSH)r(m) Net positive suction head
CQG65-160	25	32	48	5.5	2.5
CQG65-200	25	50	43	11	2.5
CQG65-250	25	80	35	18.5	2.5
CQG80-100	50	12.5	58	4	3.0
CQG80-125	50	20	57.5	7.5	3.0
CQG80-160	50	32	56	11	3.0
CQG80-200	50	50	52	18.5	3.0
CQG80-250	50	80	44	30	3.0
CQG100-100	100	12.5	61	7.5	4.5
CQG100-125	100	20	61	15	4.5
CQG100-160	100	32	61	18.5	4.5
CQG100-200	100	50	59	30	4.0
CQG100-250	100	80	54	45	4.0
CQG125-125	160	20	65	18.5	4.0
CQG125-160	160	32	63	30	4.0
CQG125-200	160	50	62	45	5.5
CQG125-250	160	80	60	75	5.0

产品特点 PRODUCT FEATURES

CQB-F型衬氟磁力泵的过流部件均采用“聚偏二氟塑料合金(PVF₂)和超高分子量聚乙烯(UHMWPE)”制造。在常温下, PVF₂对卤素、卤代烃、强氧化剂、沸酸、碱等多种有机溶剂都有良好耐蚀性; UHMWPE对非氧化性酸(稀硫酸、硝酸及浓度较大的盐酸、磷酸、氢氟酸、甲酸、乙酸)、氨和胺及各种碱、盐溶液都有良好的耐蚀性, 两种材料都不耐强氧化性酸的腐蚀。氟合金泵的外壳为金属材料, 有足够的强度承受管道以及外界的机械冲击。传动功率3kW以下的采用全氟结构。

All flow-through parts of CQB-F fluorine lining magnetic pump are made of PVF₂ and UHMWPE. Under normal temp., PVF₂ has a fine corrosion resistance to many organic solvents like halogen, halogenated hydrocarbon, strong oxidant, boiling acid and alkali; UHMWPE has a fine corrosion resistance to inoxidable acid (dilute sulfuric acid, nitric acid and large concentration hydrochloric acid, phosphorus acid, hydrofluoric acid, formic acid and acetic acid), ammonia, amine and various alkali and salty solutions. Both materials can't resist the corrosion of strong oxidable acid. The fluorine alloy pump has a metal shell with enough tenacity to afford the mechanical impact from the pipeline and outside. Those with transmission power below 3KW adopt full fluorine structure.

型号意义 SIGNIFICATION OF MODEL

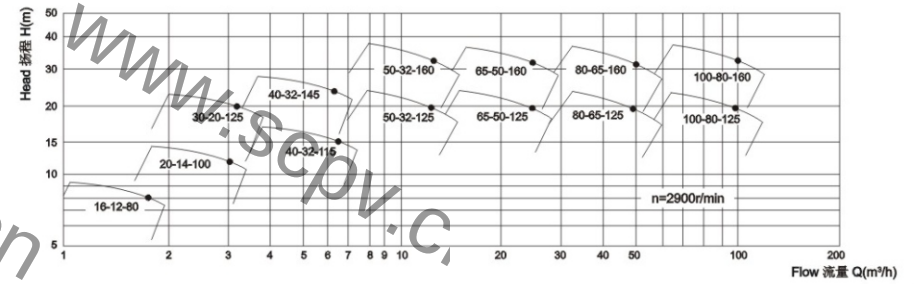
CQB 40-25-160 F

过流部件为氟塑料 Wet parts as fluoric plastic
叶轮直径(mm) Impeller diameter (mm)
出口直径(mm) Outlet diameter (mm)
进口直径(mm) Inlet diameter (mm)
磁力泵 Magnetic pump

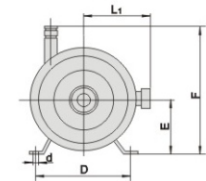
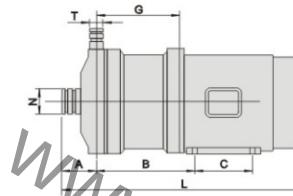
性能参数 PERFORMANCE PARAMETERS

型号 Model	口径 Caliber (mm)		流量 (m ³ /h) Flow	扬程 (m) Head	电机功率 (kW) Motor power	转速 (r/min) Rotary speed	电压 (V) Voltage
	进口 Inlet	出口 Outlet					
CQB15-10-85F	15	10	1.8	8	0.12	2900	220
CQB20-15-105F	20	15	3	12	0.37	2900	220
CQB15-10-85F	15	10	1.8	8	0.12	2900	380
CQB20-15-105F	20	15	3	12	0.37	2900	380
CQB32-25-125F	32	25	3.2	20	0.75	2900	380
CQB40-32-115F	40	32	6.3	15	0.75	2900	380
CQB40-32-145F				25	1.5	2900	380
CQB50-40-125F	50	40	12.5	20	1.5	2900	380
CQB50-40-160F				32	3	2900	380
CQB65-50-125F	65	50	25	20	4	2900	380
CQB65-50-160F				32	5.5	2900	380
CQB80-65-125F	80	65	50	20	7.5	2900	380
CQB80-65-160F				32	11	2900	380

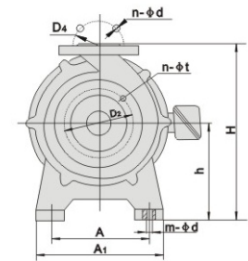
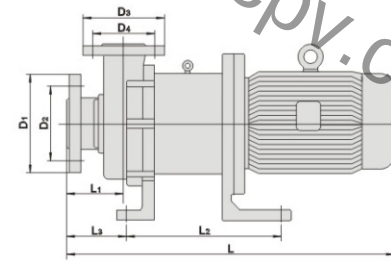
型谱图 TYPE ARRANGEMENT CHART



安装尺寸 INSTALLATION DIMENSIONS



型号 Model	A	B	C	D	E	F	d	G	L ₁	L	N	T
CQB15-10-85F	66.5	98.5	80	100	63	144	7	87.5	75	304	22	18
CQB20-15-105F	54.5	125.5	90	112	71	165	7	111.5	85	340	26	18



型号 Model	D ₁	D ₂	n-φt	D ₃	D ₄	n-φd	L ₃	L ₂	L ₁	L	A	A ₁	h	H	m-φd
CQB32-25-125F	140	100	4-17.5	115	85	4-13.5	80	200	69	500	140	180	140	254	4-13.5
CQB40-32-115F	150	110	4-17.5	140	100	4-17.5	86	200	73	406	160	200	150	280	4-13.5
CQB40-32-145F	150	110	4-17.5	140	100	4-17.5	86	200	73	506	160	200	150	280	4-13.5
CQB50-40-125F	165	125	4-17.5	150	110	4-17.5	80	200	83	528	190	240	165	310	4-13.5
CQB50-40-160F	165	125	4-17.5	150	110	4-17.5	80	250	83	583	190	240	165	310	4-13.5
CQB65-50-125F	185	145	4-17.5	165	125	4-17.5	83	258	81	600	194	250	200	380	4-17.5
CQB65-50-160F	185	145	4-17.5	165	125	4-17.5	83	258	81	600	194	250	200	380	4-17.5
CQB80-65-125F	200	160	4-17.5	185	145	4-17.5	102	342	101	740	230	300	250	450	4-25
CQB80-65-160F	200	160	4-17.5	185	145	4-17.5	102	342	101	900	230	300	250	450	4-25



型号意义 SIGNIFICATION OF MODEL

MP - 20R - X

无代号为软管接口普通型；M为进出口用螺纹接口；X为大流量型；Z为高扬程型
Non-code means the ordinary type; M means the thread mouthpiece of both inlet and outlet;
X means the large capacity type; Z means the high-head type

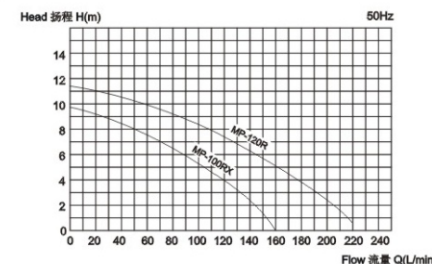
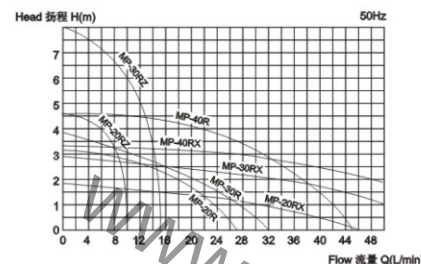
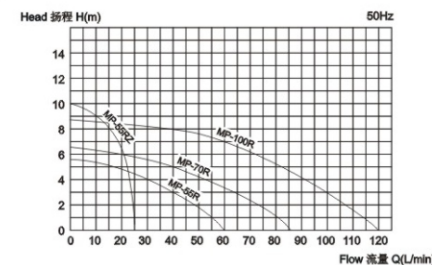
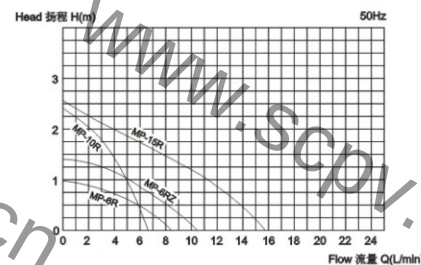
产品规格 Product specs

塑料磁力驱动循环泵 Plastic magnetic-driving centrifugal pump

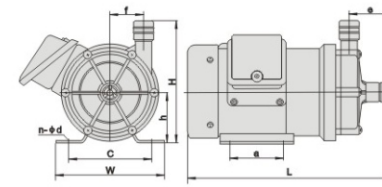
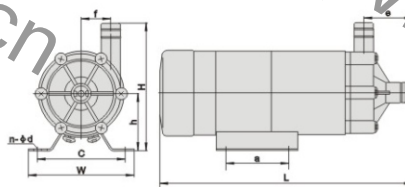
性能参数 PERFORMANCE PARAMETERS

型号 Model	软管接口 Tube interface		螺纹接口 Thread interface		最大流量 (L/min) Max. Capacity	最高扬程 (m) Max. Head	标准输出 Standard capacity		介质密度 (g/cm³) Medium density	电机功率 (W) Motor power	转速 (r/min) Rotary speed	电压 (V) Voltage
	进口 Inlet (mm)	出口 Outlet (mm)	进出口 Inlet & Outlet (inch)	活管 Tube (mm)			流量 Flow (L/min)	扬程 Head (m)				
MP-6R	14	14	-	-	8	1	2.8	0.8	<1.2	3	2900	220
MP-6RZ	14	14	-	-	5.5	2.1	3.2	0.8	<1.1	3	2900	220
MP-10R	14	14	-	-	11	1.5	5	1	<1.1	6	2900	220
MP-15R	16	16	-	-	16	2.7	8	1.5	<1.3	10	2900	220
MP-15RM	-	-	3/4	13	16	2.4	8	1.5	<1.3	10	2900	220
MP-20R	18	18	-	-	27	3.1	17	2	<1.2	20	2900	220
MP-20RM	-	-	3/4	16	27	3.1	17	2	<1.2	20	2900	220
MP-20RX	26	26	-	-	46	1.8	30	1	<1.3	20	2900	220
MP-20RZ	18	18	-	-	10	4.6	7	4	<1.1	20	2900	220
MP-30R	20	20	-	-	33	3.8	16	2.5	<1.3	45	2900	220
MP-30RM	-	-	3/4	16	33	3.8	16	2.5	<1.3	45	2900	220
MP-30RX	26	26	-	-	62	2.9	32	2	<1.1	45	2900	220
MP-30RZ	18	18	-	-	15	8	10	6	<1.1	45	2900	220
MP-30RZM	-	-	3/4	13	15	8	10	6	<1.1	45	2900	220
MP-40R	20	20	-	-	45	4.6	22	4	<1.1	65	2900	220
MP-40RM	-	-	3/4	16	45	4.6	22	4	<1.1	65	2900	220
MP-40RX	26	26	-	-	75	3.3	47	2	<1.1	65	2900	220
MP-55R	26	26	-	-	60	5.6	30	4	<1.2	90	2900	220/380
MP-55RM	-	-	1	20	60	5.6	30	4	<1.2	90	2900	220/380
MP-55RZ	26	26	-	-	25	10	15	8	<1.1	90	2900	220/380
MP-70R	26	26	-	-	86	6.7	50	4	<1.1	150/180	2900	220/380
MP-70RM	-	-	1	20	86	6.7	50	4	<1.1	150/180	2900	220/380
MP-100R	26	26	-	-	120	8.6	60	7	<1.3	250/265	2900	220/380
MP-100RM	-	-	1	20	120	8.6	60	7	<1.3	250/265	2900	220/380
MP-100RX	-	-	1 1/4	32	170	9	100	5	<1.3	250	2900	220/380
MP-120R	-	-	1 1/2	36	220	10.5	140	6	<1.3	370	2900	220/380
MPH-400	-	-	1 1/2	36	220	12.5	150	8	<1.3	370	2900	220/380
MPH-401	-	-	1 1/2	36	260	18	120	12	<1.3	750	2900	380
MPH-422	-	-	2	40	320	21	160	18	<1.3	1500	2900	380
MPH-423	-	-	2	40	380	22	230	18	<1.3	2200	2900	380
MPH-424	-	-	2 1/2	40	410	35.5	208	32	<1.3	3000	2900	380

性能曲线 PERFORMANCE GRAPH



安装尺寸 INSTALLATION DIMENSIONS



型号 Model	a	c	n-φd	e	f	h	H	W	L
MP-6R	60	2-7	31	17	36	83	74	130	
MP-6RZ	60	2-7	31	17	36	83	74	130	
MP-15R	49	68	4-6	38	23	45	100	82	197
MP-20R	30	68	4-6	39	29	56	116	85	209
MP-20RZ	30	68	4-6	40	40	56	126	85	212
MP-20RM	30	68	4-6	34	28	56	117	85	205
MP-30R	40	100	4-9	48	30	60	130	120	250
MP-30RZ	40	100	4-9	40	40	60	130	120	234
MP-30RM	40	100	4-9	48	30	60	130	120	250

型号 Model	a	c	n-φd	e	f	h	H	W	L
MP-40R	40	100	9	48	30	60	130	120	274
MP-40RM	40	100	9	48	30	60	130	120	274
MP-55R	40	100	9	56	43	66	161	120	275
MP-55RZ	40	100	9	56	43	66	161	120	275
MP-70R	70	108	9	56	44	66	161	142	267
MP-70RM	70	108	9	53	44	66	156	142	264
MP-100R	70	110	9	66	44	74	174	156	322
MP-100RM	70	110	9	66	44	74	174	156	322
MP-100RX	70	110	9	63	40	74	174	156	323
MP-120R	98	110	12	80	51	93	208	140	359

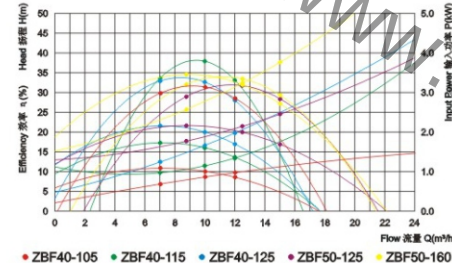
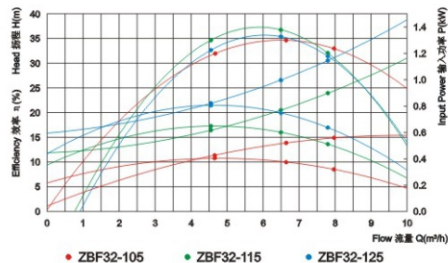


型号意义 SIGNIFICATION OF MODEL

ZBF 40 - 125

叶轮直径(mm) Impeller diameter (mm)
进出口直径(mm) Inlet & Outlet diameter (mm)
自吸式塑料磁力泵 Self-priming Plastic Magnetic Pump

性能曲线 PERFORMANCE GRAPH



性能参数 PERFORMANCE PARAMETERS

型 号 Model	口径 Caliber (mm)		流量 (m³/h) Flow	扬程 (m) Head	吸程 (m) Suction Lift	电机功率 (kW) Motor power	转速 (r/min) Rotary speed	电压 (V) Voltage	频率 (Hz) Frequency
	进口 Inlet	出口 Outlet							
ZBF32-105	32	32	6.5	10	5	0.75	2900	380	50
ZBF32-115				16	5	1.1	2900	380	50
ZBF32-125				20	5	1.5	2900	380	50
ZBF40-105	40	40	10	10	5	1.1	2900	380	50
ZBF40-115				16	5	1.5	2900	380	50
ZBF40-125				20	5	2.2	2900	380	50
ZBF50-125	50	50	12.5	20	5	3	2900	380	50
ZBF50-160				32	5	4	2900	380	50

产品特点 PRODUCT FEATURES

ZBF产品符合JB/T 7742-1995《小型磁力传动离心泵》标准，为全国磁力泵联合设计的优化产品。结合国外的先进技术，采用外混式结构的自吸塑料磁力泵。该泵以增强聚丙烯为主要材料，自吸时间短、寿命长，是自动化远程控制和流动输送强腐蚀性液体的无泄漏泵。

ZBF product complies with JB/T 7742-1995 Standard for Small Magnetic Transmission Centrifugal Pump and is an optimum product for the integrated design of magnetic pump all over the country. Self-priming plastic magnetic pump adopts an outer recirculation structure combining foreign advanced technology. It is mainly made of reinforced PP with short time of self-priming and long life, a kind of zero-leakage pump for automation long distance control and fluid transmission of strongly corrosive liquid.

磁力泵安装和使用 INSTALLATION AND OPERATION OF MAGNETIC PUMP

- 一、磁力泵应水平安装不宜立装，塑料泵不得承受管路重量，特殊垂直安装场合，电机必须朝上。
- 二、抽吸液面高于泵轴心线时，启动前先开吸入管道阀门；抽吸液面低于泵轴心线，管道需配备底阀。
- 三、泵使用前应进行检查，电机转动要灵活，无卡滞及异常声响，各紧固件无松动现象。
- 四、检查电机旋转方向与转向标记是否一致。
- 五、电机启动后，缓慢打开排出阀，待泵进入正常工作状态后，再将排出阀调到所需开度。
- 六、泵停止工作前，应先关闭排出阀门，然后关闭吸入管阀门。

1. Magnetic pump should be horizontally installed, but not upright. Plastic pump is not able to endure the weight of pipeline. In case of special occasions requiring upright installation, motor should be kept upward.
2. When liquid level is higher than the centerline of pump, turn on the valve of intake pipe before start; when liquid level is lower than the centerline, a bottom valve should be fitted to the pipeline.
3. Check before operation to make sure that motor rotates flexibly without jamming and abnormal sound, and that all fasteners are not loosened.
4. Check whether motor rotates in accordance with the direction sign.
5. After motor is started, slowly turn on discharge valve. When pump enters normal working state, adjust the discharge valve to the required opening.
6. Before pump stops working, turn off discharge valve first, and then the valve of intake pipe.

磁力泵注意事项 CAUTIONS FOR MAGNETIC PUMP

- 一、因磁力泵轴承的冷却和润滑是靠被输送的介质，所以绝对禁止空载运转，同时应避免在工作中中途停电后再启动时所造成的空载运转。
- 二、被输送介质中，若含有固体颗粒，泵入口要加过滤网；如含有铁磁质微粒，需加磁性过滤器（本公司有生产，属于选购件）。
- 三、被输送的介质及其温度应在泵材允许范围内（请向相关部门技术咨询）。工程塑料泵的使用温度<60℃，进口压力不大于0.1MPa，最大工作压力为0.6MPa；金属泵的使用温度<100℃，输送进口压力不大于0.2MPa，最大工作压力1.6MPa；
- 四、对于输送液为易沉淀结晶的介质，使用后应及时清洗，排净泵内积液。
- 五、磁力泵长时间运行过程发现泵有异常情况（噪音大，震动加剧）后，应拆检轴承和端面动环的磨损情况，若轴承和轴套的间隙大于0.5~1mm，叶轮轴向窜动2~3mm时，应更换轴承和轴向动环。

1. As the cooling and lubrication of magnetic pump's bearing depends on the medium to be handled, that's why unloaded operation is absolutely prohibited. Meanwhile, pay close attention to avoid the unloaded operation after re-start due to power cut in process.
2. If the mediums to be handled contain solid particles, then there should be a filter net at the entrance of pump. If there are ferromagnetic particles contained in mediums, a magnetic filter should be fitted (available in factory for your options).
3. The mediums to be handled, as well as their temperature, should be kept within the allowed scope of pump material (please consult with relative technical department). The service temperature of engineering plastic pump should be <60℃, inlet pressure not greater than 0.1Mpa, maximum working pressure at 0.6Mpa; the service temperature of metal pump should be <100℃, inlet pressure not greater than 0.2Mpa, maximum working pressure at 1.6Mpa.
4. For mediums easily deposited or crystallized, please flush immediately after use to clear away the deposited liquid inside.
5. In case of any abnormal conditions (like large noise or violent vibration) occurred after long-time operation or during operation, disassemble the bearing and end-face rotating ring for examination of abrasion. If the clearance between bearing and axle sleeve is greater than 0.5-1mm, and axial drunkenness of impeller from 2-3mm, then the bearing and axial rotating ring should be replaced.

磁力泵使用环境 SERVICE CONDITIONS OF MAGNETIC PUMP

环境温度：-20~40℃；环境湿度：95%；海拔高度：不超过1000米（大于时应在订货时提出）。

- 警告：a)、泵用电机应由专业人员进行有效安全接地，永久性标志为⚡。
b)、为防止触电，维修或清理磁力泵前应切断电源。

- 1、磁力泵在维修拆装过程中，内、外磁钢部件辐射出来的磁场将对如：心脏起搏器、信用卡、计算机磁盘、手表、精密仪器、仪表等产生磁场干扰，甚至产生危害性的影响。
a) 上述物件应远离磁性器件，保持1米以上的距离。
b) 装配好的整机磁力泵，不存在上述问题，因结构上有磁回路屏蔽，可放心使用。
- 2、装配内磁转子对准外磁转子轴向到位时，由于磁吸力（尤其是铁磁或稀土钕磁），用户应采取适当的缓冲措施，以免卡、夹手指，防止工伤事故。

Ambient Temperature: -20~40℃; Ambient humidity: 95%; Height above sea level: not exceeding 1,000m (if beyond, please clarify when placing an order).

- Warning: a) Pump motor should be safely earthed by a professional, permanent sign as ⚡.
b) To avoid electric shock, the maintenance and cleaning of magnetic pump should be done after power supply is cut off.

1. When disassembling magnetic pump, the magnetic field radiated by inner and outer magnet steel components may produce interference, and even harmful influence to heart pacemaker, credit card, computer disk, watch, precision instrument, meter and etc.,
a) The above articles should be kept over 1 meter away from magnetic parts.
b) The above-mentioned problems don't happen to assembled overall magnetic pump, because there is provided with a magnetic loop shield for your reassurance.
2. When inner magnet rotor is leveled to outer magnet rotor axially, and due to magnetic force (especially the strong magnet of NdFeB or rare earth-cobalt), users must take appropriate buffering measures to avoid work accidents like fingers being clamped.