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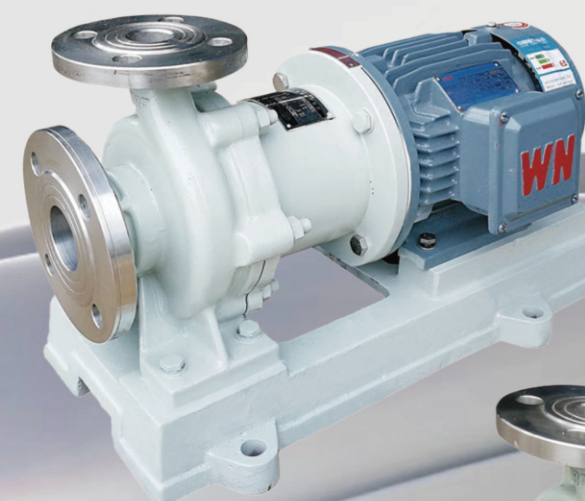
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QMC/QMP Stainless Steel Magnetic Pump Instructions for use

Chinese Top Brand

Professional Manufacturer



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GUANGDONG QEEHUA INDUSTRY EQUIPMENT CO.,LTD.

QMC/QMP stainless steel magnetic pump



The QMC and QMP series stainless steel magnetic pumps are analyzed and calculated using a combination of CFX and CFD to obtain high-performance hydraulic models. The overcurrent components are made of high-quality stainless steel materials such as 304 and 316L, and the inner and outer magnetic rotors are made of rare earth permanent magnets with high magnetic energy product and high coercivity.

They have the advantages of high efficiency, energy saving, wide medium applicability, high temperature resistance, strong magnetism, and no demagnetization.

They are a new type of high-quality magnetic transmission centrifugal pump that uses magnetic coupling to achieve non-contact transmission and no dynamic sealing. This product is fully sealed, leakage free, clean and environmentally friendly, and operates quietly with low vibration. It is the preferred pump for transporting flammable, explosive, corrosive, and valuable liquids.

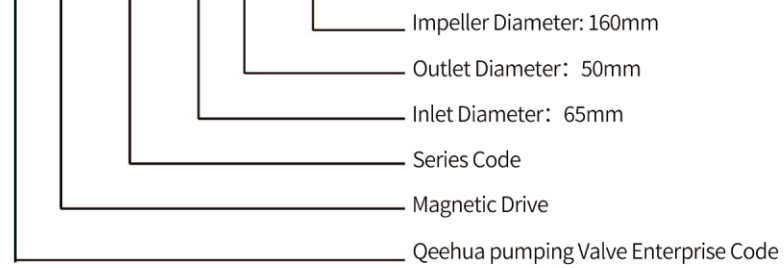
Due to energy conservation, environmental protection, reliability and safety, and replacing imported products, it saves users a lot of costs. Widely used in fields such as chemical engineering, alkali production, petroleum, medicine, hygiene, pesticides, papermaking, dyes, and wastewater treatment, etc.

This pump is highly efficient, energy-saving and has strong anti cavitation performance, and is suitable for a wide temperature range. It has the advantages of stable operation, low noise and vibration, high reliability, and long service life, and is an ideal conveying equipment for media such as alkali solutions, alcohols, and various organic solvents.

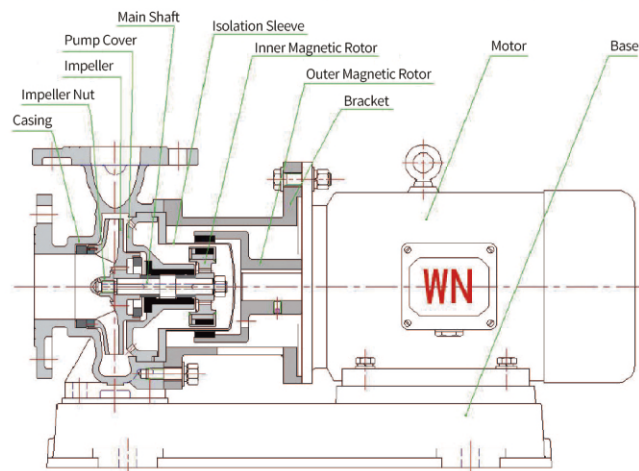
Operating Temperature: -50 °C~260 °C. Flow: 1-1000m³/h Head: within 5-80m.

Model Code Analysis

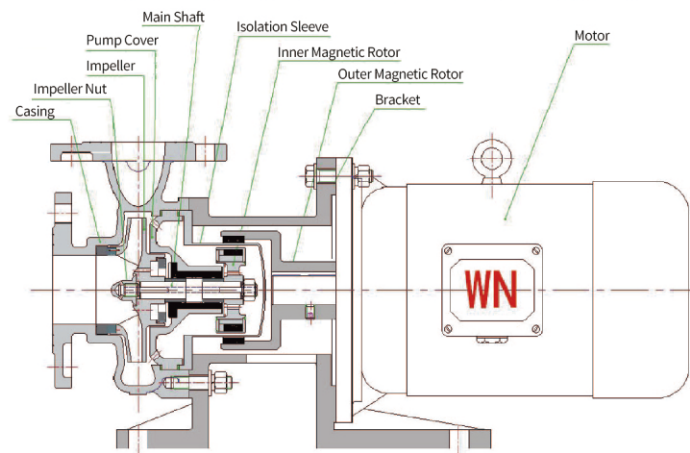
Q M C (P) 65-50-160



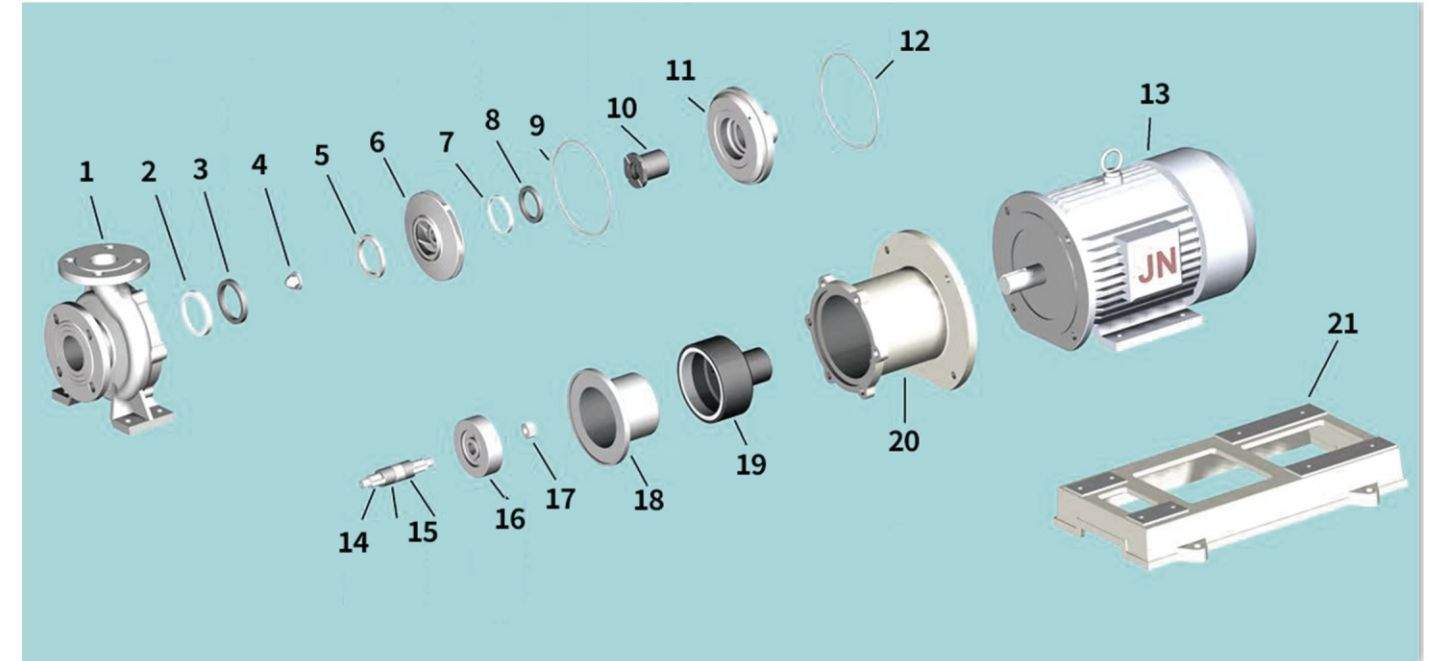
Structure Chart of QMC Magnetic Pump



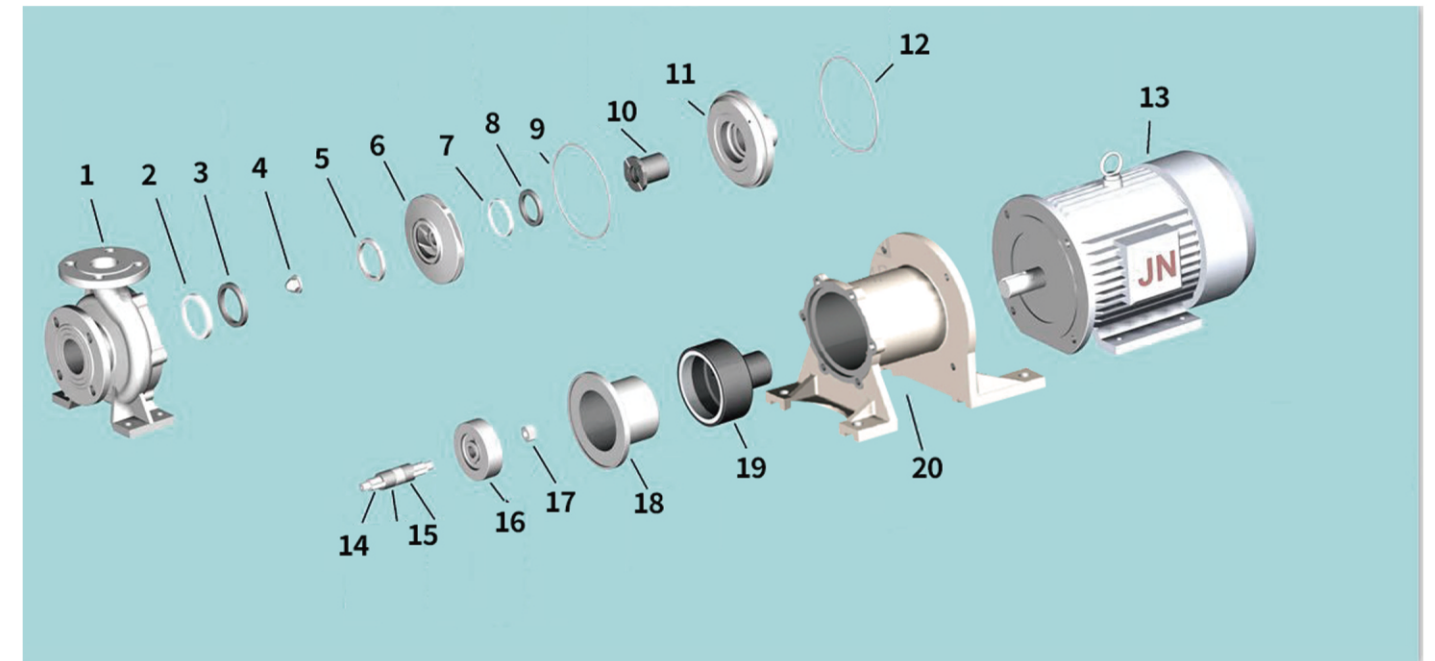
Structure Chart of QMP Magnetic Pump



QMC Structure and Material



QMP Structure and Material



- | | | | | | |
|--------------------------|--------------------------|-------------------------|-------------------------------|-------------------------|------------|
| 1.Casing | 2.Stationary Ring L-Seal | 3.Static Ring | 4.Impeller Nut | 5.Dynamic Ring | 6.Impeller |
| 7.Thrust Ring L-seal | 8.Thrust Ring | 9. Seal Ring | 10.Sliding Bearing | 11.Pump Cover | |
| 12.Isolation Sleeve Seal | 13. Motor | 14.Main Shaft | 15.Front Sleeve & Rear Sleeve | 16.Inner Magnetic Rotor | |
| 17.Rotor Nut | 18.Isolation Sleeve | 19.Outer Magnetic Rotor | 20.Bracket | 21.Base | |

Model and Technical Tadata

No.	Model	Rev=2900r/min (Medium Density)=1000kg/m ³							
		Flow (m ³ /h)	Pump head (m)	η (%)	Inlet (mm)	Outlet (mm)	Npsh (m)	Power (kW)	Weight (kg)
1	QMC/QMP25-20-125	1.5	22	24	φ 25	φ 20	2.0	0.75	55
		2	20						
		3.2	18						
2	QMC/QMP25-20-160	1.5	33	22	φ 25	φ 20	2.0	1.1	60
		2	32						
		3.2	30						
3	QMC/QMP25-20-200	1.5	51	20	φ 25	φ 20	2.0	2.2	85
		2	50						
		3.2	47						
4	QMC/QMP32-20-125	2.5	22	19	φ 32	φ 20	2.0	1.1	60
		3.6	20						
		5	18						
5	QMC/QMP32-20-160	2.5	33	27	φ 32	φ 20	2.0	1.5	70
		3.6	32						
		5	30						
6	QMC/QMP32-20-200	2.5	51	24	φ 32	φ 20	2.5	3	100
		3.6	50						
		5	47						
7	QMC/QMP40-25-125	4	21	36	φ 40	φ 25	2.5	1.5	65
		6.3	20						
		7.5	18						
8	QMC/QMP40-25-160	4	33	33	φ 40	φ 25	2.5	2.2	75
		6.3	32						
		7.5	28						
9	QMC/QMP40-25-200	4	51	29	φ 40	φ 25	2.5	5.5	120
		6.3	50						
		7.5	47						
10	QMC/QMP40-25-250	4	81	25	φ 40	φ 25	2.5	7.5	165
		6.3	80						
		7.5	78						
11	QMC/QMP50-32-125	7	22	47	φ 50	φ 32	2.5	2.2	70
		12.5	20						
		15	16						
12	QMC/QMP50-32-160	7	33	43	φ 50	φ 32	2.5	4	120
		12.5	32						
		15	30						
13	QMC/QMP50-32-200	7	51	40	φ 50	φ 32	2.5	7.5	155
		12.5	50						
		15	47						
14	QMC/QMP50-32-250	7	82	35	φ 50	φ 32	2.5	11	220
		12.5	80						
		15	77						
15	QMC/QMP65-50-125	15	22	58	φ 65	φ 50	2.5	3	85
		25	20						
		35	18						
16	QMC/QMP65-50-160	15	33	50	φ 65	φ 50	2.5	5.5	135
		25	32						
		35	28						
17	QMC/QMP65-40-200	15	51	45	φ 65	φ 40	2.5	11	190
		25	50						
		35	45						
18	QMC/QMP65-40-250	15	82	40	φ 65	φ 40	2.5	15	250
		25	80						
		35	72						

Continue page

No.	Model	Rev=2900r/min (Medium Density)=1000kg/m ³							
		Flow (m ³ /h)	Pump head (m)	η (%)	Inlet (mm)	Outlet (mm)	Npsh (m)	Power (kW)	Weight (kg)
19	QMC/QMP80-65-125	35	22	54	φ 80	φ 65	3.0	5.5	105
		50	20						
		60	18						
20	QMC/QMP80-65-160	35	33	52	φ 80	φ 65	3.0	11	170
		50	32						
		60	27						
21	QMC/QMP80-50-200	35	52	46	φ 80	φ 50	3.0	15	210
		50	50						
		60	45						
22	QMC/QMP80-50-250	35	82	43	φ 80	φ 50	3.5	30	360
		50	80						
		60	75						
23	QMC/QMP100-80-125	65	22	63	φ 100	φ 80	3.5	11	175
		100	20						
		110	18						
24	QMC/QMP100-80-160	65	35	50	φ 100	φ 80	3.5	15	215
		100	32						
		120	26						
25	QMC/QMP100-65-200	65	51	46	φ 100	φ 65	3.5	30	350
		100	50						
		120	43						
26	QMC/QMP125-80-160	100	38	60	φ 125	φ 80	4.0	30	410
		160	32						
		180	26						
27	QMC/QMP125-100-200	120	55	55	φ 125	φ 100	4.5	55	590
		200	50						
		220	45						

QMC/QMP Installation and Precautions of Stainless Steel Magnetic Pump

1. Before installation, the pump and motor should be inspected to ensure that all parts are intact and free of debris inside the pump.
2. Prepare the concrete foundation according to the basic dimensions and embed the anchor bolts in advance.
3. Place the unit on the foundation, and place a pair of wedge pads between the bottom plate and the foundation for the JMC series pump. Adjust the pad iron to align the level of the pump.
4. The suction and discharge pipelines of the pump should have brackets, and the pump should not be used to support the pipelines. The diameter of the inlet and outlet pipelines should be consistent with the diameter of the pump inlet and outlet.
5. When the pump inlet and outlet pipelines are rigid hard pipes connected to the pump, the center of the inlet and outlet pipelines should be aligned with the center of the pump inlet and outlet flanges, and expansion joints should be installed for soft connections. It is strictly prohibited to cause accidental damage by pulling or forcefully connecting import and export pipelines.

6. The inlet diameter of the pump must match the pump, and the suction pipeline should be arranged as straight as possible. The number of accessories in the suction pipeline should be minimized and the length of the suction pipeline should be shortened as much as possible. The total length should not exceed 6 meters. When it is necessary to turn, the bending radius of the elbow should be 3-5 times the diameter of the pipeline, and the angle should be greater than 90° as much as possible to avoid using right angle elbows in the pipeline. The number of elbows in the inlet pipeline should not exceed 2.
7. The phenomenon of parallel connection of pump inlet pipelines should be minimized as much as possible. If parallel connection is necessary, the number should not exceed two, and the cross-sectional area of the parallel main pipeline should be bolded according to the number of parallel connections.
8. After installation, manually rotate the outer magnetic rotor from the bottom window of the bracket more than once to check for any rubbing or collision.
9. To prevent debris from entering the pump, a filter should be installed at the inlet with a filtration area greater than 3-4 times the cross-sectional area of the pipeline.
10. Pumps with high head should also be equipped with check valves on the outlet pipeline to prevent water hammer damage caused by sudden shutdown.
11. It is necessary to ensure that the installation height of the pump meets the cavitation allowance of the pump, also consider pipeline losses and medium temperature.

★ Instructions for Startup, Operation, Maintenance, and Disassembly Procedures

(1) Pre operation inspection: Before trial operation, the external magnetic rotor should be manually operated to ensure smooth and unobstructed operation. Then, inject clean water or medium into the pump and jog the motor to ensure that the direction is consistent with the pump's designated direction. If the disc does not move or there is abnormal noise, the pump should be disassembled for inspection (see structural diagram), foreign objects should be cleaned, and contact our company to negotiate a solution.

(2) Startup steps:

- Fill the pump chamber with liquid and exhaust the air inside the pump chamber;
- Timely open the inlet valve;
- Slowly open the outlet valve and adjust to the desired flow rate;

(3) Working:

- If there is any abnormal sound or motor heating during operation, the machine should be stopped for inspection.

(4) Shutdown steps:

- Close the valve at the outlet first;
- Cut off the power and promptly shut down the inlet;

(5) Maintenance:

- In cold seasons, if there is icing after stopping the pump, the cooling water at the sealing point should be connected first, or heated water should be added to thaw. Then, manually rotate the external magnetic coupling until it runs smoothly, and then start according to the start-up steps;

-The outlet valve of the pump should be closed for no more than 3 minutes during operation, and it is best not to exceed 1 minute for high-temperature and volatile media;

Warning

- After the installation of the whole machine is completed, it is strictly prohibited to directly connect the power supply to test the motor direction in a liquid free state!
- When transporting crystalline media such as strong alkali and media with high solid content, the pump chamber should be cleaned in a timely manner during shutdown to avoid abnormal damage to the pump caused by crystallization and particle blockage during the next use!
- If the machine has been shut down for a long time and restarted, the external magnetic coupling should be turned again to check if it runs smoothly. If the disc does not move or there is abnormal noise, it should be promptly eliminated!

Installation Diagram of Pump under common slot conditions

