

Миниатюрные шестеренчатые насосы с магнитным приводом

Технические характеристики

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GEAR METERING PUMP



Safety warning:

Gear pumps can produce high pressure differentials. Excessively high pressures can damage the system and cause harmful liquids to injure personnel on site. Operating conditions that exceed design limits can also damage pumps or motors. The pump and motor work together. Before disassembling the pump, please cut off the power of the motor and release the pressure in the pump completely.

Before starting the pump, please make sure that the tightening screws of the pump body are installed correctly.

Do not change the parts of the pump and motor. Any changes may reduce the pressure rating of the pump and cause injury to people. Please use original repair parts approved by the manufacturer.

The pressure of the pump is 25Bar at room temperature. The normal operating conditions of the pump should be lower than this value. If the leakage of the medium will cause serious consequences, please confirm the safety of the pipeline connection before starting the pump.

The temperature of the liquid must not exceed 150°C. High temperature will reduce the pressure of the pump.

If the medium will corrode the pump body or seals, this type of pump cannot be used in this condition. Under such conditions, the reliability and tightness of the pump will be greatly reduced.

CX-MP series miniature gear pumps are gears and bearings made of special reinforced PEEK materials, high-precision ceramic shafts, and gears that are injection molded at one time; the products have ultra-high service life and wear-resistant type. Ideal for non-pulsating corrosive liquids, abrasive liquids, and high-temperature liquids.

The miniature gear pump has stable transmission, no pulse, no noise, accurate calculation and high repeatability;

The pump body is made of high-performance stainless steel, which has extremely high wear resistance and long service life; the product has low power consumption and less heat, and can work continuously for 24 hours;

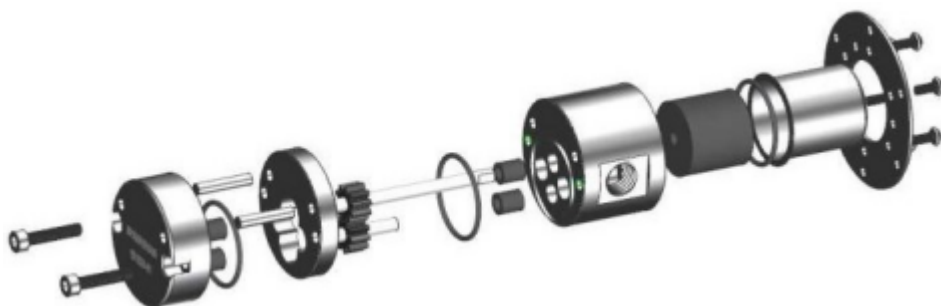
Exquisite and compact, according to the convenience and flexibility, easy to maintain the equipment; Use high-performance magnetic drive, good sealing, and truly achieve zero leakage;

With excellent corrosion resistance, it is widely used in the transportation of most chemical media; advanced processing equipment and stable and reliable product quality;

Tungsten steel gears are suitable for media containing tiny particles.



Parameters

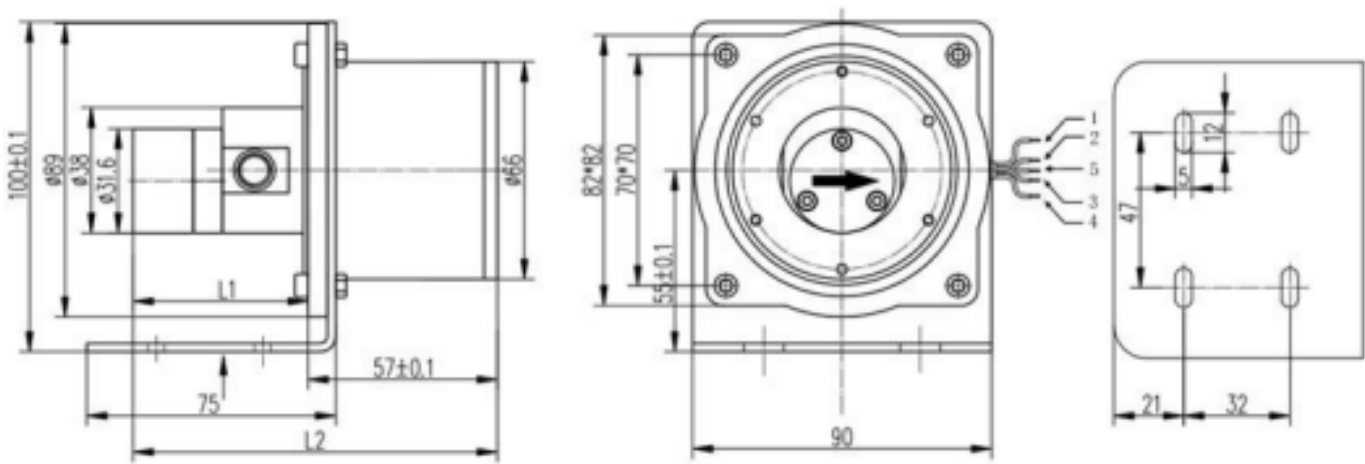


40W motor supporting product parameters

Model	CX-MP-30D4P	CX-MP-60 D4P	CX-MP-60D4W
Motor Power	40W (DC24V)		
Rated current	1.8A		

Pump head displacement	0.30ml/r	0.60ml/r	0.60ml/r
Inlet/outlet size	Rc1/8		
Pump body material	SUS304	SUS304	SUS304 TiN
Gear material	PEEK	PEEK	WC
continuous working pressure	0.6MPa	0.4 MPa	0.4 MPa
Maximum pressure	1.0 MPa	0.7 MPa	0.7MPa
Rated speed	500~5000rpm		
L1(mm)	48.5	52.7	52.7
L2(mm)	96	100.2	100.2
viscosity range	0.2~1500cps		
temperature range	-40℃~70℃		
Net weight (kg)	0.75	0.77	0.785

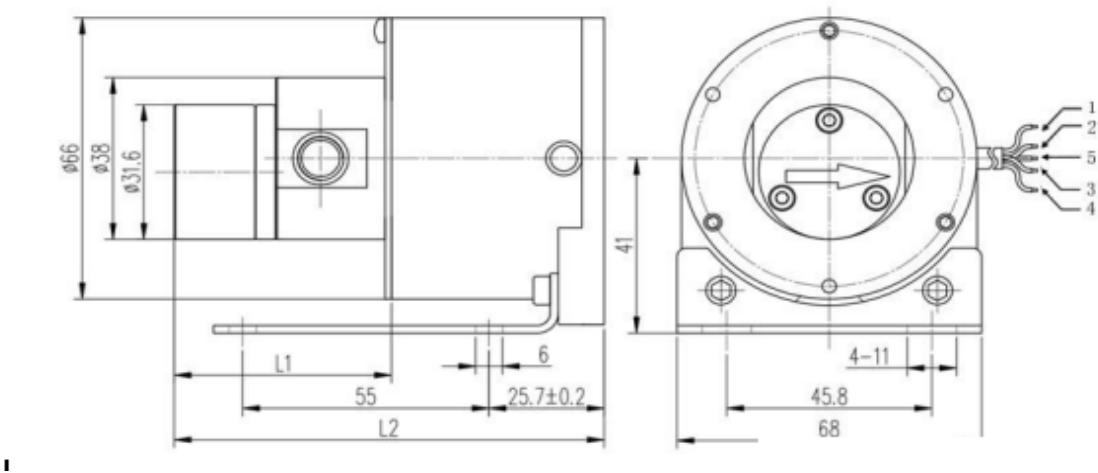
Product Size



70W motor supporting product parameters

Model	CX-MP-30D7P	CX-MP-60D7P	CX-MP-60D7W	CX-MP-90D7P
Motor power	70W (DC24V)			
Rated current	3A			
Pump head displacement	0.30ml/r	0.60ml/r	0.60ml/r	0.90ml/r
Inlet/outlet size	Rc1/8			
Pump body material	SUS304	SUS304	SUS304 TiN	SUS304
Gear material	PEEK	PEEK 聚醚醚酮	WC	PEEK
continuous working pressure	0.6MPa	0.6 MPa	0.6 MPa	0.5MPa
Maximum pressure	1.5 MPa	1.0 MPa	1.0MPa	0.8MPa
Rated speed	500~4500rpm			500~4000rpm
L1(mm)	48.5	52.7	52.7	56.9
L2(mm)	105.5	108.1	108.1	113.9
viscosity range	0.2~1500cps			
temperature range	-40℃~70℃			
Net weight (kg)	1.025	1.04	1.066	1.06

Product Size

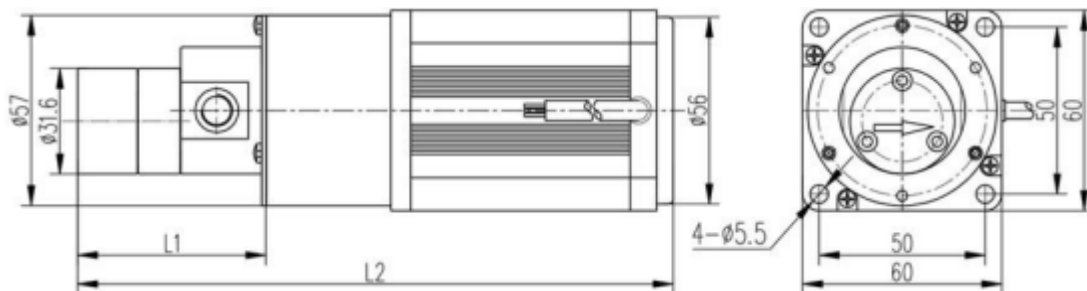


120W motor supporting product parameters

Model	CX-MP-15D1	CX-MP-30D1	CX-MP-60D1	CX-MP-60D12	CX-MP-90D1
	2P	2P	2P	W	2P
Motor power	120W (DC24V)				
Rated current	7A				
Pump head displacement	0.15ml/r	0.30ml/r	0.60ml/r	SUS304 TiN	0.90ml/r
Inlet/outlet size	Rc1/8				
Pump body material	SUS304	SUS304	SUS304	SUS304	SUS304
Gear material	PEEK	PEEK	PEEK	WC	PEEK
continuous working pressure	0.6MPa	0.6MPa	0.6 MPa	0.6 MPa	0.6 MPa
Maximum pressure	1.5 MPa	1.5 MPa	1.2 MPa	1.0MPa	1.0MPa
Rated speed	500~4500rpm				
L1(mm)	48.5	48.5	52.7	52.7	56.9
L2(mm)	171	171	175.2	175.2	179.4
viscosity range	0.2~1500cps				
temperature range	-40℃~70℃				
Net weight (kg)	1.66	1.66	1.67	1.7	1.69



Product Size

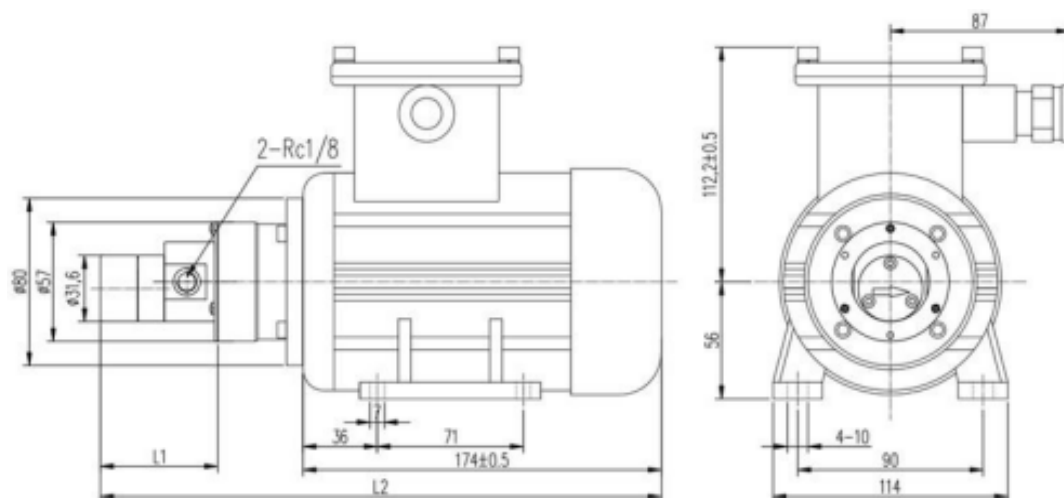


120W AC motor supporting product parameters

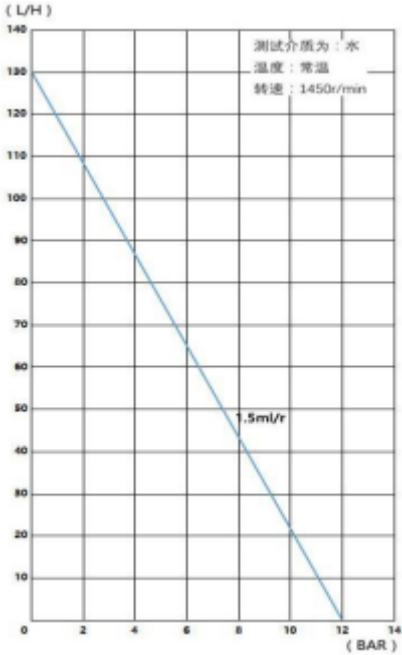
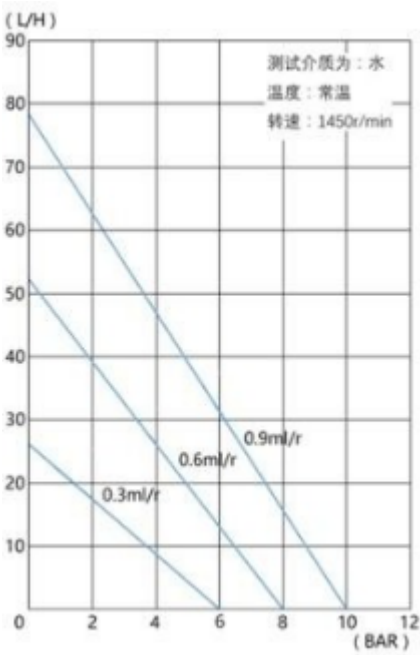
Model	CX-MP-30A12P	CX-MP-60A12P	CX-MP-60A12WC	CX-MP-90A12P
Motor power	120W (DC24V)			
Rated current	0.30ml/r	0.60ml/r	0.60ml/r	0.90ml/r
Pump head displacement	Rc1/8			
Inlet/outlet size	SUS304	SUS304	SUS304 TiN	SUS304
Pump body material	PEEK	PEEK	WC	PEEK
Gear material	0.6MPa	0.6 MPa	0.6 MPa	0.6 MPa
continuous working pressure	1.5 MPa	1.2 MPa	1.0MPa	1.0MPa
Maximum pressure	1500rpm			
Rated speed	48.5	52.7	52.7	56.9
L1(mm)	171	175.2	175.2	179.4
L2(mm)	0.2~1500cps			
viscosity range	-40℃~70℃			
temperature range	1.66	1.67	1.7	1.69



Product Size



Product flow pressure curve



Selection list

Mo	Code	说明
CX-MP		Miniature gear pump
Pump head displacement	15	0.15ml/r
	30	0.3ml/r
	60	0.6ml/r
	90	0.9ml/r
	150	1.5ml/r
Motor power	D4	40W DC Motor-24V
	D7	70W DC Motor-24V
	D12	120W DC Motor-24V
	A12	120W AC Motor-220V
Gear material	P	PEEK
	W	WC
Pump body material	4	SUS304
	6	SUS316
Explosion-proof grade	N	None
	B	DII BT4 防爆

Example: CX-MP-0.3-D4-P-S-N
Miniature gear pump Displacement: 0.3ml/r
Motor power: 40W DC motor-24V
Gear material: PEEK
Pump body material: SUS304 stainless steel

Application industry

Miniature magnetic drive gear pumps are designed for liquid transportation from 20ml / min to 51000ml / min.

They are suitable for systems such as feeding, dosing, lubricating, sampling, spraying, dispensing, printing, chemical pressing, filtering, cleaning, recycling, and coating.

Equipped with built-in encoder of integrated DC motor NP pumps can be applied in small space occasions; Equipped with explosion-proof motor NP pumps can be applied in flammable and explosive situations; Equipped with speed control motors.



Operation Note

Magnetic drive ring:

The magnetic drive can make the pump meet the requirement of zero leakage. It can also protect the system from overpressure and particle ingress. When the poles of the inner and outer magnetic rings are misaligned by the external force, decoupling occurs. When the pump is blocked, the motor may continue to run, but the pump will stop. To resume operation, stop and restart the motor completely. If you continue to stall, check the system for overpressure. If the system pressure is normal, the pump body must be disassembled to check whether foreign particles enter the pump body, causing the gear to block. After cleaning the internal parts, reassemble the pump set. Before restarting, please turn the blades of the motor fan, at this time the pump and motor should rotate smoothly and unhindered.

Operating pressure:

Excessive pressure difference between inlet and outlet will make the magnetic coupling slip. Excessive pressure fluctuations in the system can cause slippage.

Self-priming:

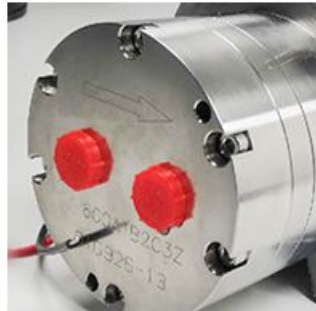
The pump has a self-priming function, but it is confirmed that the gear is wetted by the pumped liquid before starting.

Dry transfer:

Dry running will cause permanent damage to the pump. Please confirm that there is liquid in the pump cavity when the pump is running.

Reverse:

The pump should rotate clockwise. Short-term reversal is acceptable, but long-term continuous reversal will shorten the life of the pump.



PRODUCTION PROCESS



1.Fixed shape



2.Punch hole



3.Quenching



4.Polishing



5.Product assembly



6.test

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