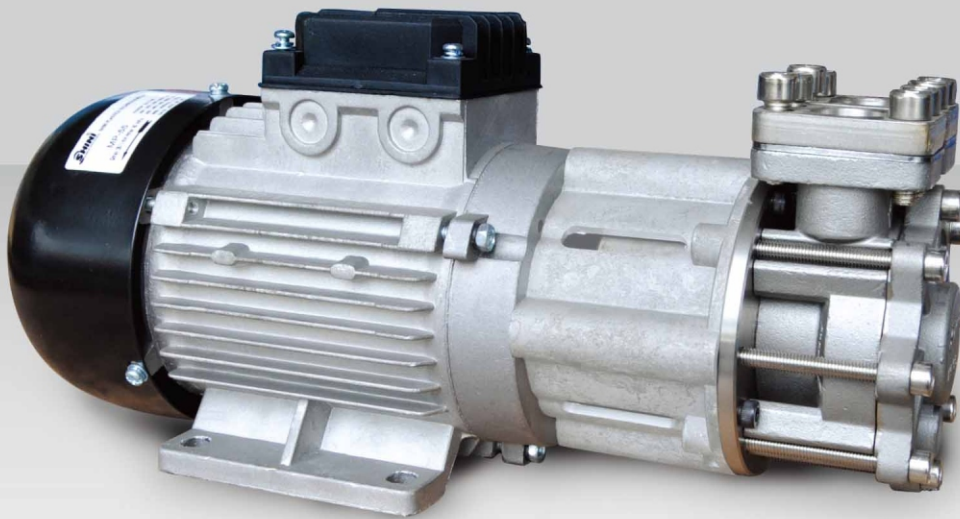


## Magnetic Pump

MP-55



Refer carefully to this manual before operation.

# MP Series

## ■ Coding Principle

MP -xxx



Note: \*  
55=550W 100=1000W 280=2800W

## ■ Features

- Ceramic rod is changed from motive seal to static seal to avoid medium leakage.
- Be free from independent lubrication and cooling water to reduce energy consumption.
- Changed from coupling transmission to synchronization, contact and friction are eliminated. Low consumption, high efficiency, damping effect is able to reduce impacts of motor vibration on pump and cavitation vibration on motor.
- When overload, internal and external magnetic starters slip to protect motor and pump.

## ■ Application

It is mainly used in conveying high temperature liquid (below 300°C), also suitable for conveying chemical liquid.

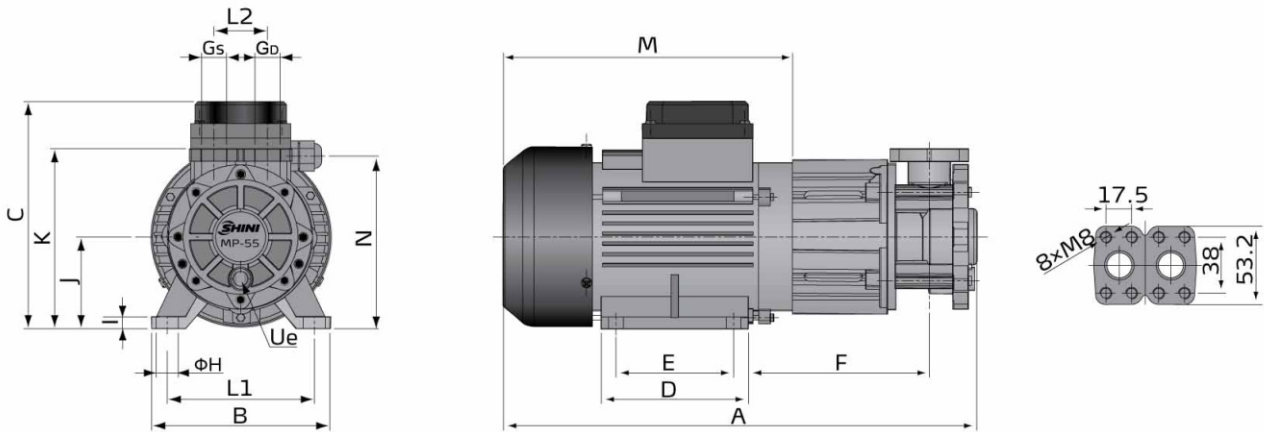
## ■ Working Principle

External magnetic starter rotates and magnetic line of force penetrates space and insulated cover to act on internal magnetic starter, which drives pump and motor synchronously rotating and transmit torque without contact. At motive force input end of pump spindle, liquid is sealed up inside insulated cover with motive seal. Thus, the problem of leakage in petrochemical industry can be resolved.

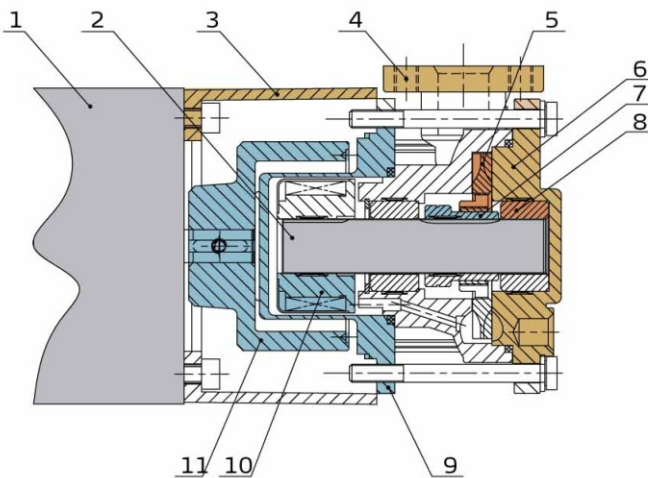
## ■ Performance Table

Model	50HZ/cycles/2800r/min						60HZ/cycles/3400r/min					
	Motor power/Max.flow rate/Max. head						Motor power/Max.flow rate/Max. head					
	KW	L/min	m	Hp	U.S.GPM	feet	KW	L/min	m	Hp	U.S.GPM	feet
MP-55	0.55	25.5	42.5	0.74	6.74	139	0.55	30.7	58.9	0.74	8.11	193
MP-100	1.00	50.0	58.1	1.33	13.2	191	1.00	50.8	77.7	1.33	13.4	255
MP-280	2.80	62.5	73.5	3.70	16.6	241	2.80	62.7	81.5	3.70	16.6	256
Model	Gs	G <sub>D</sub>	U <sub>e</sub>	Motor						G/W/P		
				50HZ/cycles			60HZ/cycles					
				KW	r/min	Hp	KW	r/min	Hp	Kg	ibs	
MP-55	17	17	10	0.55	2800	6.74	0.55	3400	6.74	8.6	18.94	
MP-100	22	22	10	1.0	2800	13.2	1.0	3400	13.2	15.5	34.18	
MP-280	26	26	--	2.8	2800	16.6	2.8	3400	16.6	34	74.97	

## Outline Drawings



Model	A	B	C	D	E	F	H	I	J	K	L1	L2	M	N	GS	GD	Ue
MP-55	321.5	121	154.5	100	80	133	10	8	62.5	122.5	100	35	196.5	117.5	17	17	10
MP-100	385	138	171	115	91	183	12	10	71	153.5	110	55	216	133	22	22	10

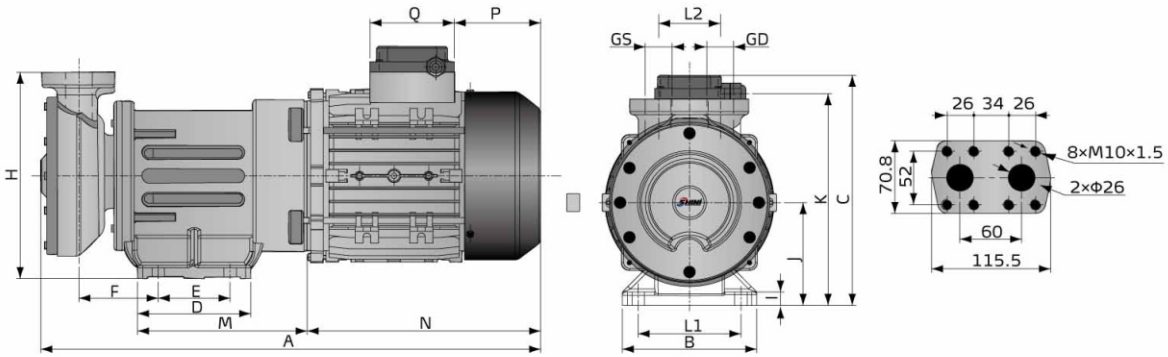


Number	Name	Material
1	Motor	--
2	Ceramic Rod	99 alumina ceramic
3	Flange lid	YL113
4	Pump Body	ZGOGr18Ni9
5	Impeller	ZGOGr18Ni12Mo2Ti
6	Pump Cover	ZGOGr18Ni9
7	Bearing	SUS304
8	Carborundum Spindle	carborundum
9	Magnetic Cover	ZGOGr18Ni12Mo2Ti
10	Internal Magnetic Coupler	--
11	External Magnetic Coupler	--

MP-55 / MP-100 Internal Structure

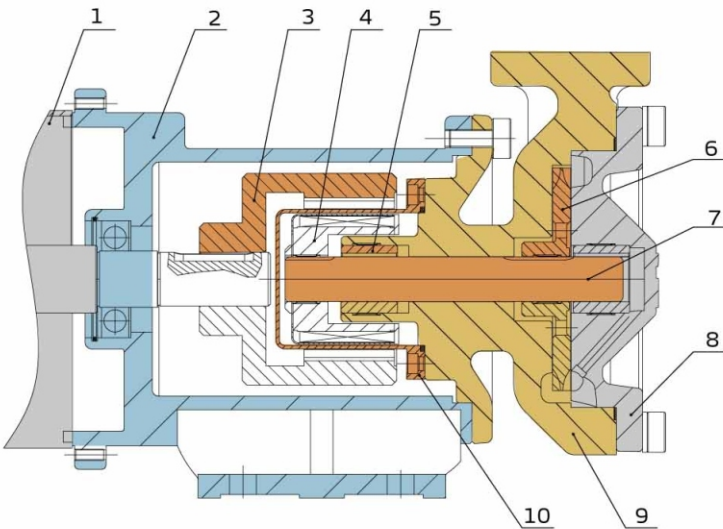
# MP Series

## Outline Drawings



MP-280 Outline Drawings

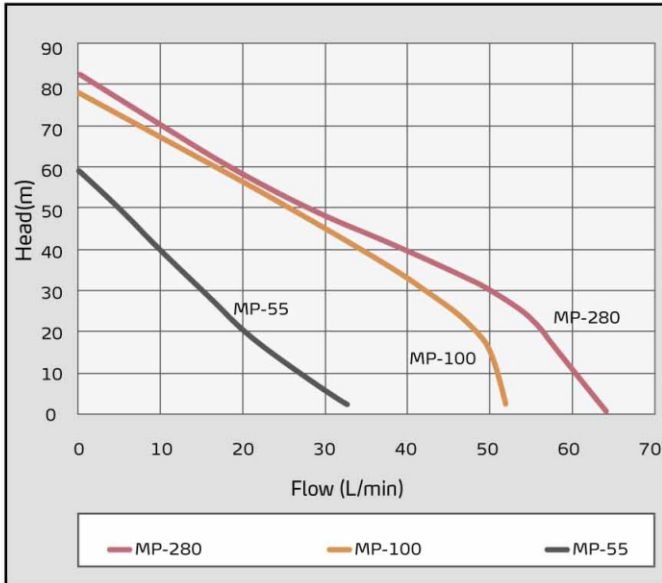
Model	A	B	C	D	E	F	H	I	J	K	L1	L2	M	N	P	Q	GS	GD
MP-280	487	130	224	100	70	77	201	13	100	206	100	60	165	227	84	82	26	26



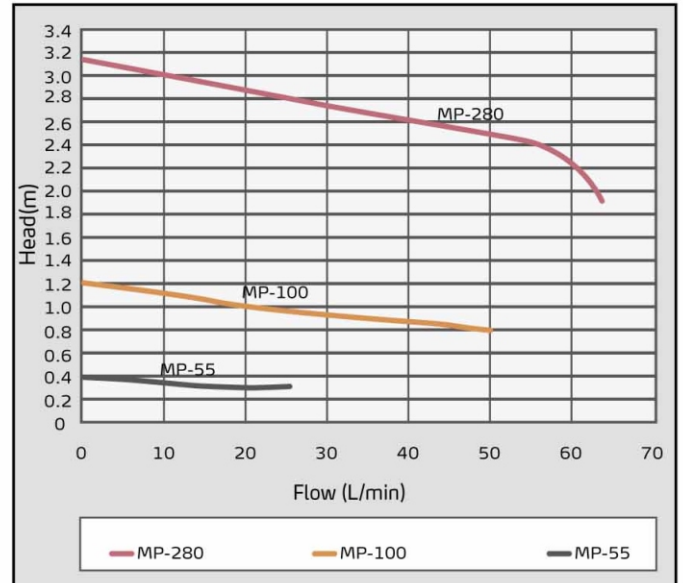
Number	Name	Material
1	Motor	--
2	Bracket	QT-400
3	External Magnetic Coupler	--
4	Internal Magnetic Coupler	--
5	Carborundum Spindle	Carborundum
6	Impeller	ZGOGr18Ni12Mo2Ti
7	Ceramic Rod	99 alumina ceramic
8	Pump Cover	ZGOGr18Ni9
9	Pump Body	ZGOGr18Ni9
10	Magnetic Cover	ZGOGr18Ni12Mo2Ti

MP-280 Internal Structure

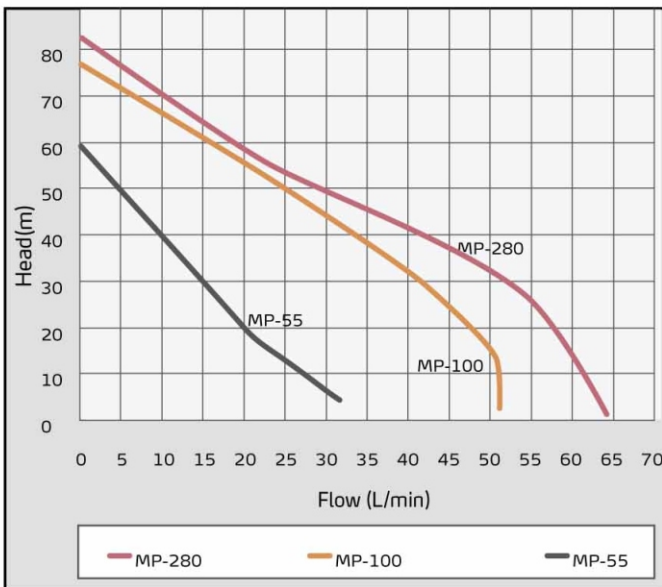
## ■ Performance Curve



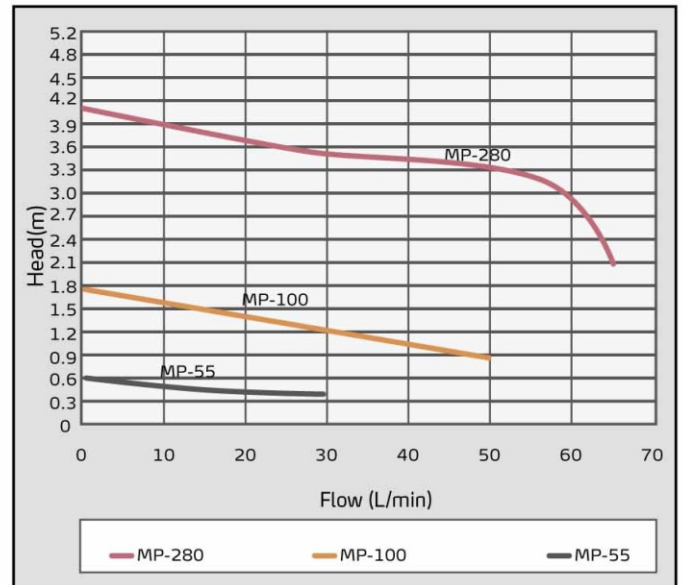
50Hz-cycles/2800r/min-rpm-tr/min



50Hz-cycles/2800r/min-rpm-tr/min



60Hz-cycles/3400r/min-rpm-tr/min



60Hz-cycles/3400r/min-rpm-tr/min

Test condition:

- 1, Performance curve is based on the regular flow when water is 20°. Error of Head and flow rate is  $\pm 10\%$ , performance error is  $\pm 10\%$ .
- 2, Pump performance will vary due to different densities of flow medium.

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