

# MAGNETIC PUMP

## General-purpose small capacity magnetic pumps

# TS SERIES

Motor 0.18 kW ~ 0.25 kW

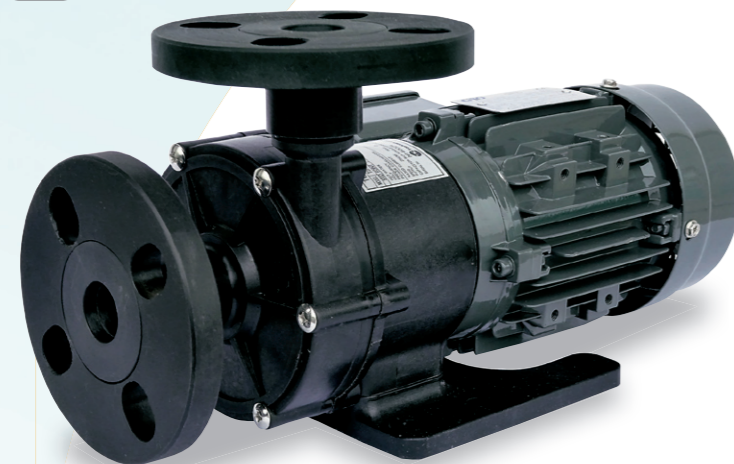
### Features

- Simple structure and long life.
- Resin bracket and pump base realizing light weight and high resistance to erosion.
- Two kinds of liquid-end material, GFR-PP (Glass Fiber Reinforced Polypropylene) and CFR-PVDF (Carbon Fiber Reinforced PVDF), the most suitable for transferring wide-range chemicals.
- Outdoor motor installed as standard.
- Connections selectable from hose, thread, JIS10K flange 20A and 25A.
- New arrival of high-head type – Model : TS-71PH/VH (For liquid specific gravity 1.0 only.)

### Specifications

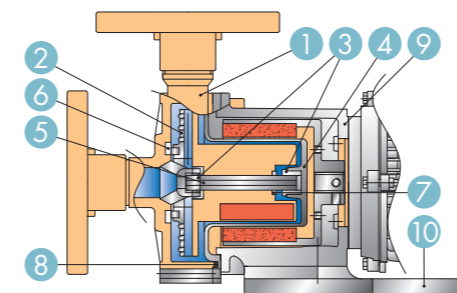
Model	Connection diameter (Suction×Discharge)			Head (m)	Flow rate (L/min)	Motor (W)
	Hose (O.D.) (mm)	Thread (inch)	Flange (A)			
TS-71P/V	26 × 26	G1" × G1"	20(25)×20(25)	6/8	60	180
TS-81P/V	26 × 26	G1" × G1"	20(25)×20(25)	5.5/7.5	80	250
TS-71PH/71VH	20 × 20	G3/4" × G3/4"	—	12	20/30	180

\*Head(m) and Flow rate(L/min) value for TS-71/TS-81 at liquid specific gravity 1.1 max.  
\*Indication of minimum flow rate is approx.10% of maximum flow rate at 0m head.



50Hz/60Hz

### Material



Model	TS-71P / 71PH / 81P	TS-71V / 71VH / 81V
No.	Part name	
1.	Front Casing	
2.	Impeller	
3.	Bearing	
4.	Rear Casing	
5.	Shaft	
6.	Front Thrust	
7.	Rear Thrust	
8.	O-ring	
9.	Bracket	
10.	Base	

●Please feel free to contact us for the other material combination.

### Model code explanation

TS — 71 — P — RP — F — S — 6 — T20

① ② ③ ④ ⑤ ⑥ ⑦

① : Series	④ : Connection	⑤ : Impeller diameter	⑦ : Motor * 3
71 180W	F Flange	S S.G 1.1 max.	T20 200V 50Hz, 200/220V 60Hz
81 250W	H Hose	P S.G 1.2 max.	T40 380/400/415V 50Hz, 380/400/440V 60Hz
	T Thread	R S.G 1.3 max.	
	U Union	M S.G 1.5 max.	
		H S.G 1.9 max.	
		Z Others * 2	

\*1 Refer to material table

\*2 Please specify or contact us for other liquid specific gravities.

\*3 Please specify or contact us for other voltages.

## General-purpose medium capacity magnetic pumps

# TSM SERIES

Motor 0.4 kW ~ 3.7 kW

### Features

#### New series coming, simple and easy handling!

- Two kinds of main materials.
- GFR-PP (Glass Fiber Reinforced Polypropylene)
- CFR-ETFE (Carbon Fiber Reinforced ETFE) in high corrosion resistance.
- Three more materials combinations selectable to wide-range chemicals.
- Japan top runner motor corresponding to IE3 premium efficiency for saving energy. IP54 as standard.
- Resin bracket and pump base realizing light weight and high resistance to erosion.

### Specifications

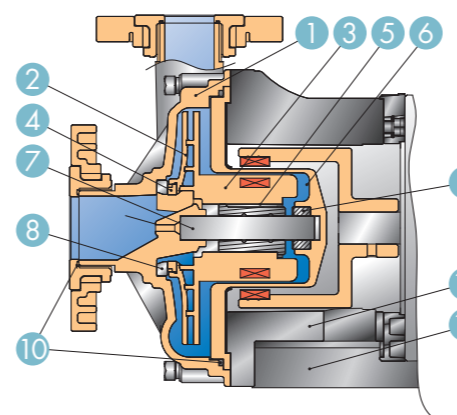
Model	Connection diameter (Suction×Discharge) (A)	Head (m)	Flow rate (L/min)	Motor output (kW)
TSM-201P/E	40 × 40	9	150	0.4
TSM-211P/E	40 × 40	12	180	0.75
TSM-221P/E	50 × 40	16	350	1.5
TSM-231P/E	50 × 40	22	350	2.2
TSM-241P/E	50 × 40	34	300	3.7
TSM-251P/E	65 × 50	24	550	3.7

\*Indication of minimum flow rate is approx.10% of maximum flow rate at 0m head.



TSM-P/E type

### Material



P type  
E type

Model	TSM-201 / 211 / 221 / 231 / 241 / 251P			TSM-201 / 211 / 221 / 231 / 241 / 251E		
No.	HP	RP	CP	HP	RP	SP
1.	Front Casing			CFR-ETFE		
2.	Impeller			CFR-ETFE		
3.	Magnetic Can			CFR-ETFE		
4.	Mouth Ring			CFR-ETFE		
5.	Bearing	PTFE	Aluminum Ceramics	Carbon	PTFE	SiC
6.	Rear Casing			CFR-ETFE		
7.	Shaft			CFR-ETFE		
8.	Front Thrust			CFR-ETFE		
9.	Rear Thrust			CFR-ETFE		
10.	O-ring			CFR-ETFE		
11.	Bracket			CFR-ETFE		
12.	Base			CFR-ETFE		

●Please feel free to contact us for the other material combination.

### Model code explanation

TSM — 211 — P — RP — F — S — 6 — a b c d

① ② ③ ④ ⑤ ⑥ ⑦

① : Series	③ : Liquid-end material * 1	⑦ : Motor
201 40A × 40A 0.4kW	HP Carbon / Aluminum Ceramics	a) Type
211 40A × 40A 0.75kW	RP PTFE / Aluminum Ceramics	T Tohkemy Standard
221 50A × 40A 1.5kW	CP Aluminum Ceramics / Aluminum Ceramics	S General-purpose
231 50A × 40A 2.2kW	SP SiC / SiC	K Supplied by customer
241 50A × 40A 3.7kW		Z Other special types
251 65A × 50A 3.7kW		

④ : Connection	⑤ : Impeller diameter
F Flange	S S.G 1.1 max.
	P S.G 1.2 max.
	R S.G 1.3 max.
	M S.G 1.5 max.
	H S.G 1.9 max.
	Z Others * 2

\*1 Refer to material table

\*2 Please specify or contact us for other liquid specific gravities.

\*3 Please specify or contact us for other voltages.

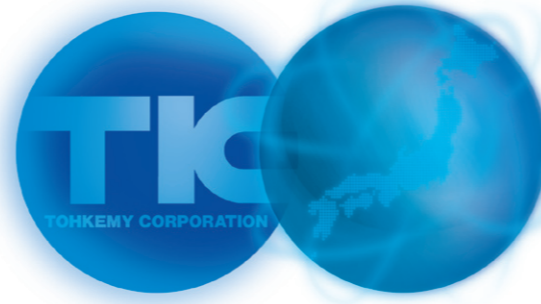
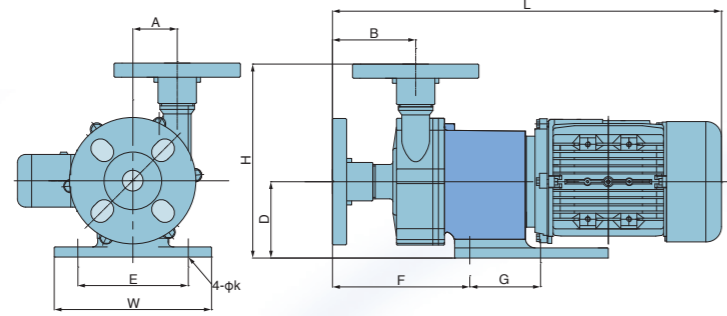
\*4 Please specify or contact us for other specifications.

b) Power Supply	c) Installation	d) Additional Specifications
2 200V 50Hz, 200/220V 60Hz	I Indoor	E Increased safety type (eG3)
4 380/400/415V 50Hz, 380/400/440V 60Hz	O Outdoor	D Explosion-proof type (d2G4)
6 Others * 3		Z Other special type. * 4

## Dimensions

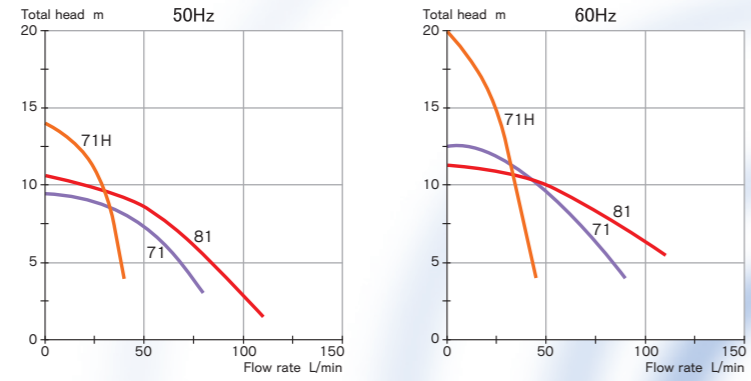
Model	H	L	W	A	B	D	E	F	G	k
TS-71-T	162	334		53	72			98	40	7
TS-71-F	178	350	134	69				114		
TS-81-T	176	369		44	75	110		120	70	9
TS-81-F	192	385	156	82				136		
TS-71H-T	175	320	134	48	42	72		86	40	7

\* Dimension "L" is for Tohkemy standard motor installed.  
\* Dimensions and performances is subject to change without prior notice.



## Performance curve

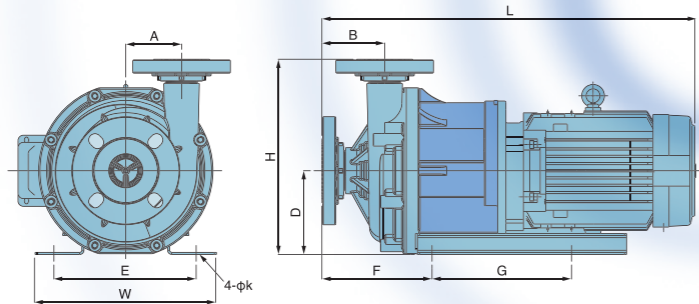
\* The right tables are curves at liquid specific gravity 1.1.  
(Liquid specific gravity 1.0 for TS-71PH/71VH)



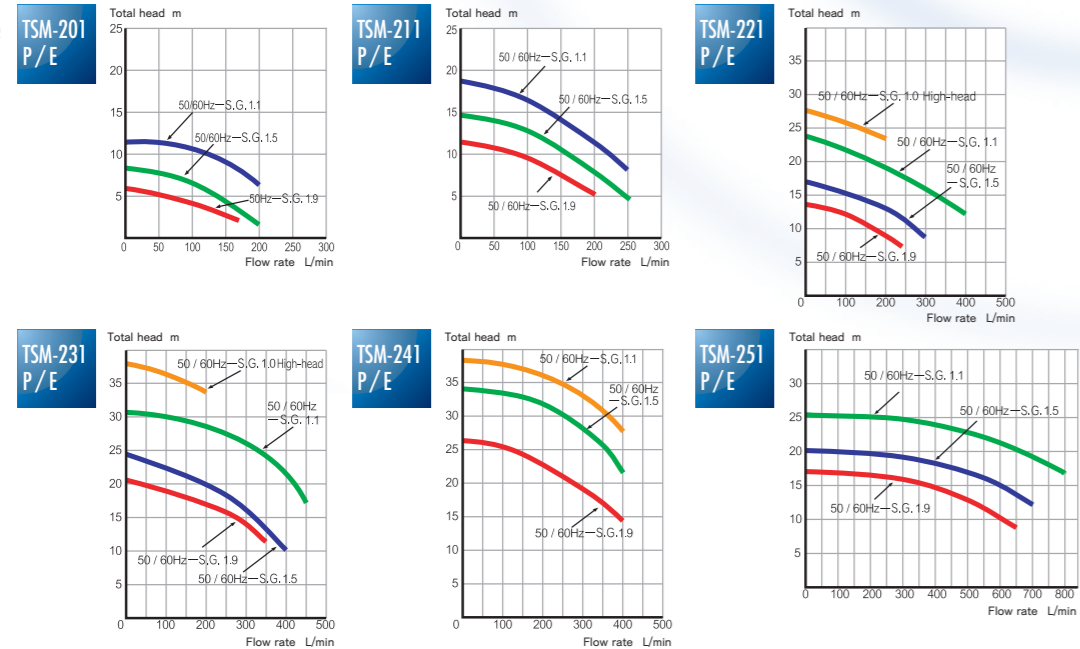
## Dimensions

Model	H	L	W	A	B	D	E	F	G	k
TSM-201	225	458	140	54	87	95	110	150	98	12
TSM-211	257	500	160	72	105	115	130	187	130	
TSM-221	280	535	260		90	120	204	159	200	14
TSM-231		558		80						
TSM-241	322	577	250		92	162	220	153	300	
TSM-251	331	584								

\* Dimension "L" is for Tohkemy standard motor installed.



## Performance curve



\* Performance curves for model selection, please check standard performances or specifications sheet.  
\* Dimensions and performances is subject to change without prior notice.

## TOHKEMY CORPORATION

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Agency

TOHKEMY CORPORATION



MAGNETIC PUMP

# TS·TSM Series

Japan top runner motor corresponding to IE3 premium efficiency for 0.75kW or greater.



# MAGNETIC PUMP

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