

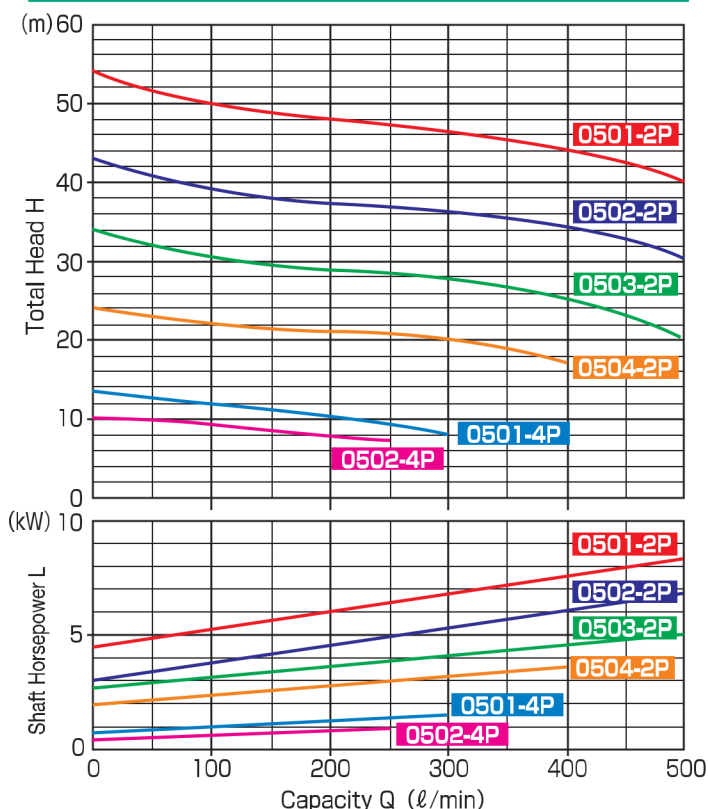
MST-050 Series (Suction 50A×Discharge 40A)



Pump Specifications

- Operating Temperature: -20~150°C (Please consult us about 0°C below when used)
- Rotation Direction: Clockwise (viewed from the motor)
- Flange: JIS 10K RF (M16 Tapped hole) (Please consult us about ANSI/DIN standard.)
- Finish Paint: Munsell 2.5B4/8(pump body)
- Motor: IEC flanged induction motor
- Accessories: Base & Foundation bolts (M12×160L×50b)

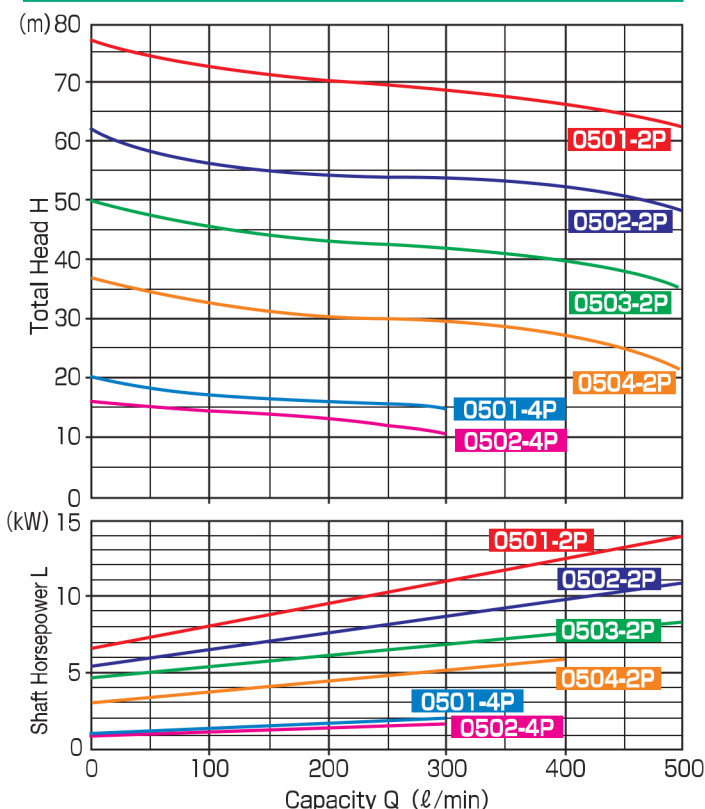
50Hz Performance Curve & Technical Data



Model	Capacity (ℓ/min)	Total Head (m)	NPSH Re (m)	Motor Output (kW)
MST-0501-2P	300	46	4.5	3.7~18.5
MST-0502-2P		36		
MST-0503-2P		27		
MST-0504-2P		20		
MST-0501-4P	150	10	2.0	2.2~5.5
MST-0502-4P		8		

Note: NPSH Re values shown in the table are those obtained from the maximum suction pipe diameter.

60Hz Performance Curve & Technical Data



Model	Capacity (ℓ/min)	Total Head (m)	NPSH Re (m)	Motor Output (kW)
MST-0501-2P	300	67	5.5	3.7~22
MST-0502-2P		53		
MST-0503-2P		42		
MST-0504-2P		28		
MST-0501-4P	150	16	2.5	2.2~5.5
MST-0502-4P		13		

Note: NPSH Re values shown in the table are those obtained from the maximum suction pipe diameter.

Pump Identification

MST-050 1 P 03 S 2 F 1
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

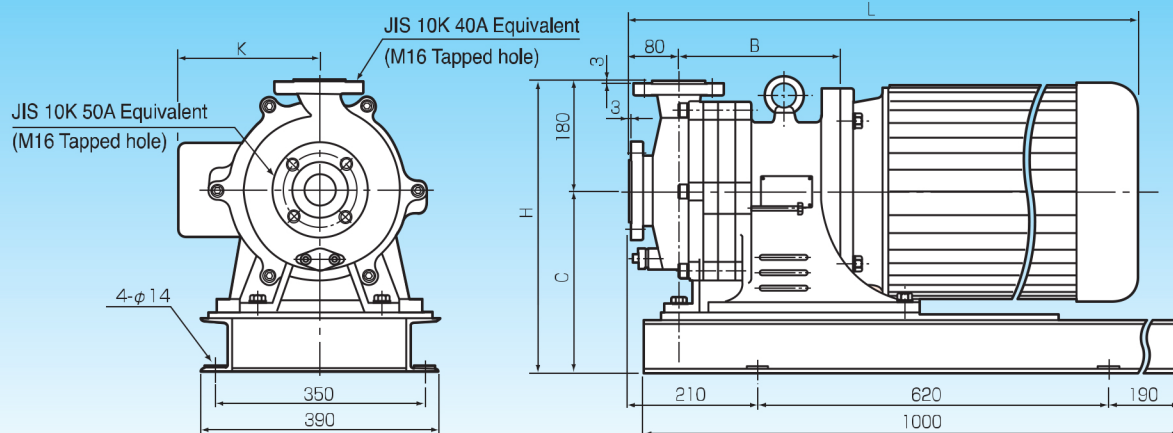
- ① Model
- ② Suction Pipe Size
- ③ Model Number Please refer to Performance Curve
- ④ Gasket Material P : PTFE (Jacketed)
Z : Other
- ⑤ Motor Output 03 : 2.2kW 05 : 3.7kW 07 : 5.5kW
10 : 7.5kW 15 : 11kW 20 : 15kW
25 : 18.5kW 30 : 22kW (60Hz only)

⑥ Parts Material Combination

Type	Shaft	Thrust Ring	Bushing
G	SiC	G-PTFE	
S	SiC		
T(Standard)	SiC	C-PTFE	
Z	Other Combinations or Special Option		

- ⑦ Number of Poles 2 : 2P 4 : 4P
- ⑧ Motor Type F : Flanged Induction Motor
- ⑨ Motor Frequency 1 : 50Hz 2 : 60Hz

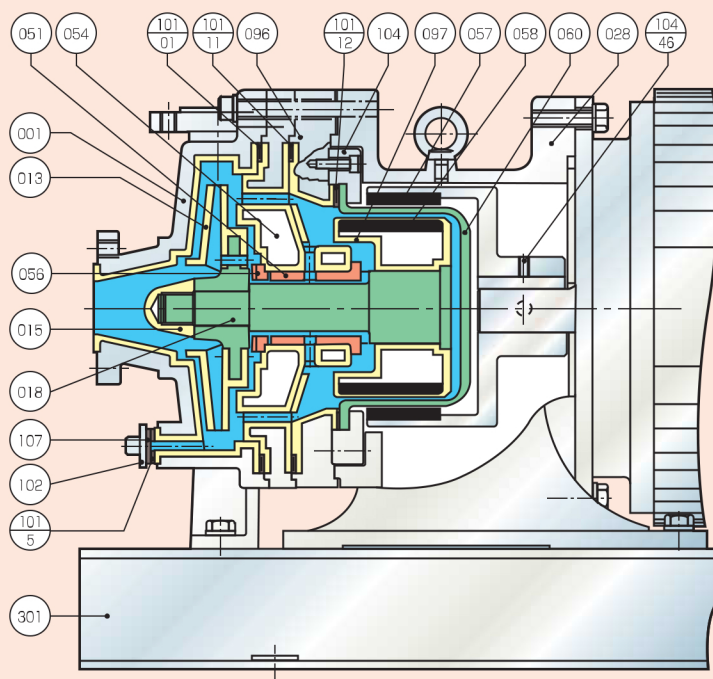
Dimensions



Motor Output (kW)	B	C	H	K	L	Weight (kg)
3.7	281	296	476	(285)	(900)	(185)
5.5/7.5	301					
11/15/18.5	331					
22		326	506			

- Note: ① The weight of pump does not include the motor weight.
 ② The dimensions shown above are applicable when a totally-enclosed fan-cooled 2-pole motor is used.
 When using special motors (such as explosion-proof motors), please contact us.
 ③ The figures in parentheses are reference values.

Construction Diagram



No.	Part Name	Materials
001	Casing	FCD450 + PFA
013	Impeller	PFA + SiC
015	Impeller Nut	C-PTFE
018	Shaft	SiC
028	Bracket	SS400 / FC250
051	Bushing	C-PTFE / SiC / G-PTFE
054	Bushing Plate	PFA + FCD450
056	Thrust Ring	C-PTFE / SiC / G-PTFE
057	Outer Magnet	Rare Earth
058	Inner Magnet	Rare Earth
060	Rear Casing	SiC
096	Spacer Plate	FCD450 + PFA
097	Magnet Capsule	PFA
107	Gasket Plate	C-PTFE / PTFE
101-01	Casing Gasket	PTFE(Jacketed)
101-05	Drain Gasket	PTFE(Jacketed)
101-11	Bushing Plate Gasket	PTFE(Jacketed)
101-12	Rear Casing Gasket	PTFE(Jacketed)
102	Drain Flange	FC250
104	Rear Casing Plate	SUS304
104-46	Outer Magnet Set Screw	SNCM
301	Base	SS400

Note: Inner Magnet (058) and Magnet Capsule (097) are integrated.