

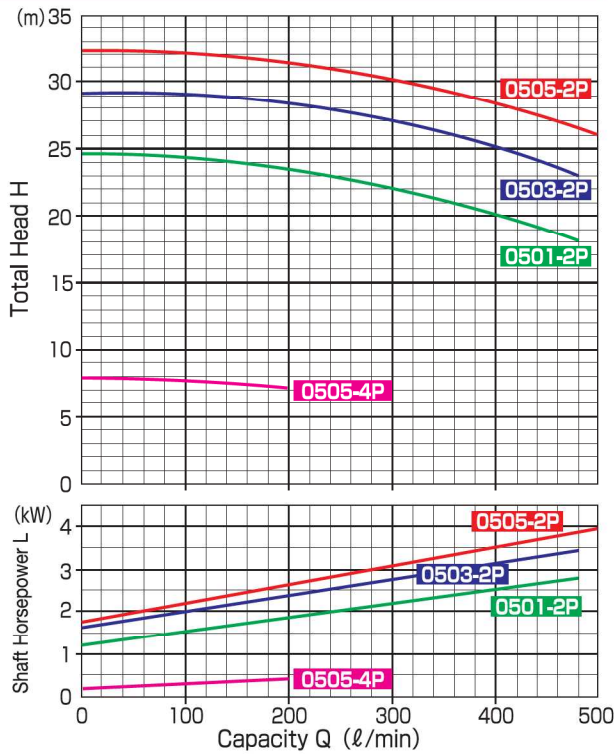
MET-050 Series (Suction 50A × Discharge 40A)



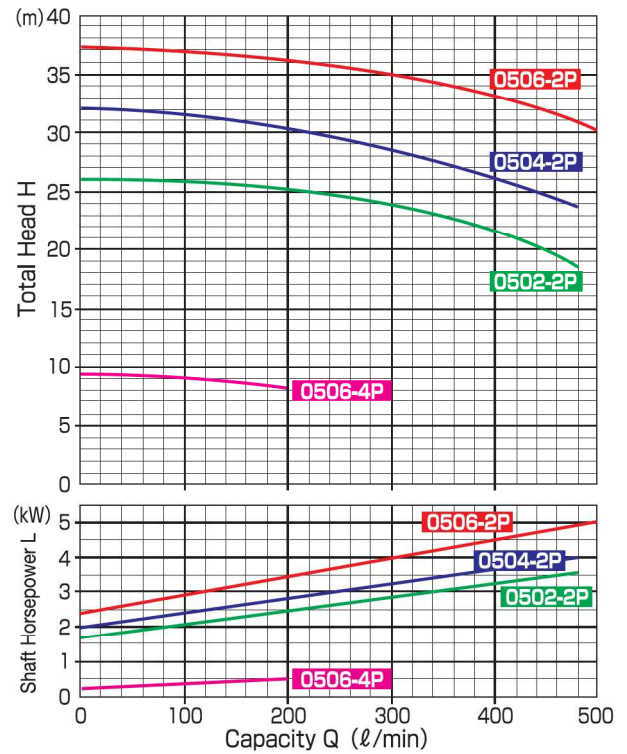
Pump Specifications

- Operating Temperature -20~120°C (Please consult us about 0°C below and 100°C higher when used)
PVDF · ETFE : 0~90°C
- 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



60Hz Performance Curve & Technical Data



Model	Capacity (ℓ/min)	Total Head (m)	NPSH Re (m)	Motor Output (kW)
MET-0501-2P	400	20	2.5	1.5~5.5
MET-0503-2P		25		
MET-0505-2P		29		
MET-0505-4P	200	6	1.8	1.5~2.2

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

Model	Capacity (ℓ/min)	Total Head (m)	NPSH Re (m)	Motor Output (kW)
MET-0502-2P	400	20	2.5	1.5~5.5
MET-0504-2P		25		
MET-0506-2P		30		
MET-0506-4P	200	10	1.8	1.5~2.2

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

Pump Identification

MET - 050 1 P 01 P A 4

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- 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 01 : 0.75kW 02 : 1.5kW 03 : 2.2kW
05 : 3.7kW 07 : 5.5kW
- ⑥ Pump Body Material

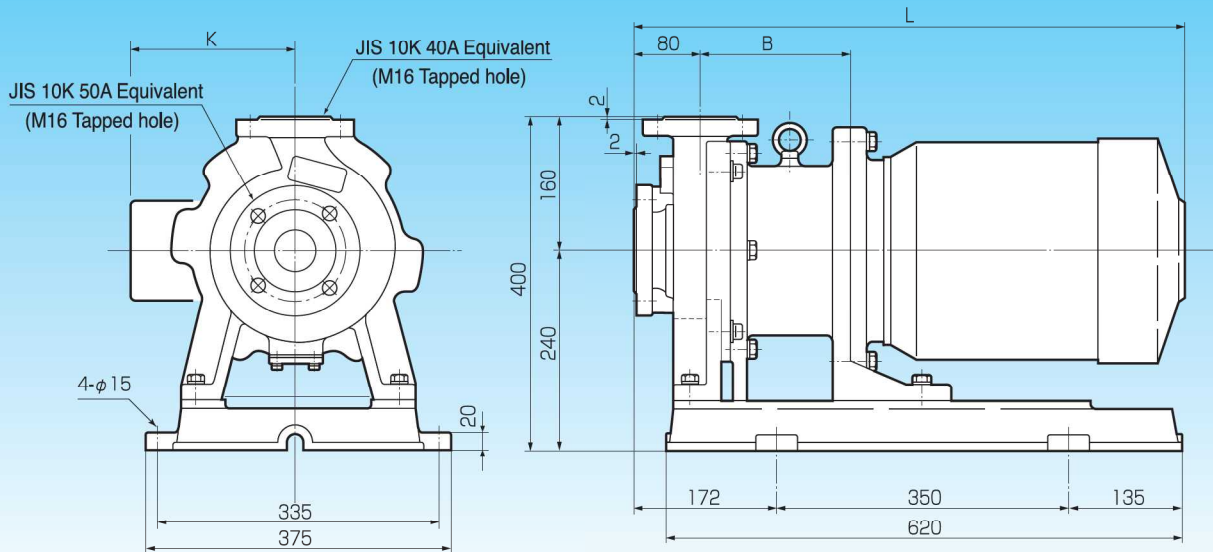
Type	Casing	Impeller+ Inner Magnet	Rear Casing
P	PFA	PVDF	PFA+Eng.Plastic
H	PFA	ETFE	
F	PFA		
Z	Other Combinations or Special Option		

- ⑦ Parts Material Combination

Type	Shaft	Rear Thrust Ring	Front Bearing	Rear Bearing
A(Standard)	Alumina-ceramic		C-PTFE	
B	SiC			
E	SiC		C-PTFE	
F	Alumina-ceramic		Carbon	
G	Alumina-ceramic		G-PTFE	
Z	Other Combinations or Special Option			

- ⑧ Number of Poles "4" is shown only when a 4-pole motor is installed.

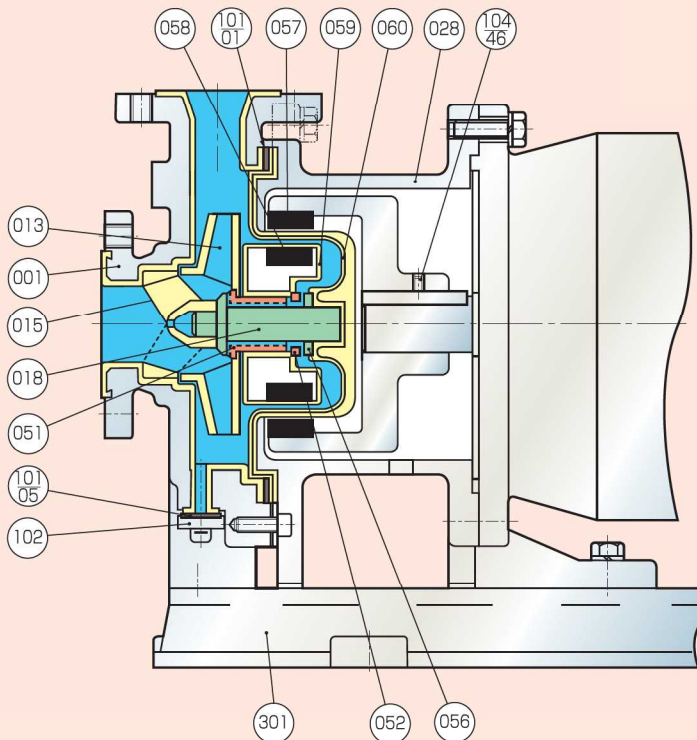
Dimensions



Motor Output (kW)	B	K	L	Weight (kg)
1.5 / 2.2	149	(200)	(662)	(75)
3.7	159			
5.5	179			

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 / PVDF / ETFE
015	Shaft Support	PFA
018	Shaft	Alumina-ceramic / SiC
028	Bracket	FC200
051	Front Bearing	C-PTFE / SiC / Carbon / G-PTFE
052	Rear Bearing	C-PTFE / SiC / Carbon / G-PTFE
056	Rear Thrust Ring	Alumina-ceramic / SiC
057	Outer Magnet	Rare Earth
058	Inner Magnet	Rare Earth
059	Magnet Lining	PFA / PVDF / ETFE
060	Rear Casing	PFA (Wetted Parts)
101-01	Casing Gasket	PTFE (Jacketed)
101-05	Drain Gasket	PTFE (Jacketed)
102	Drain Flange	FC200
104-46	Outer Magnet Set Screw	SNCM
301	Base	FC200

Note: Inner Magnet (058), Magnet Lining (059), and Impeller (013) are integrated.