

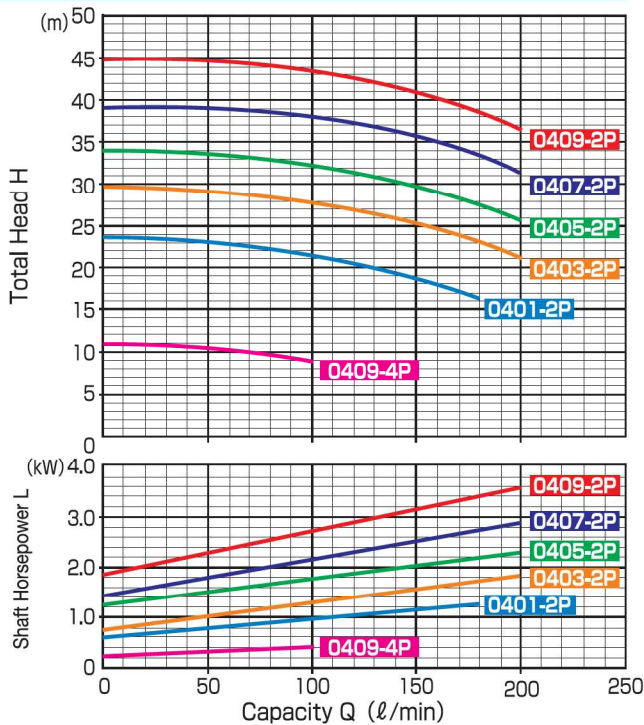
# MET-040 Series (Suction 40A × Discharge 25A)



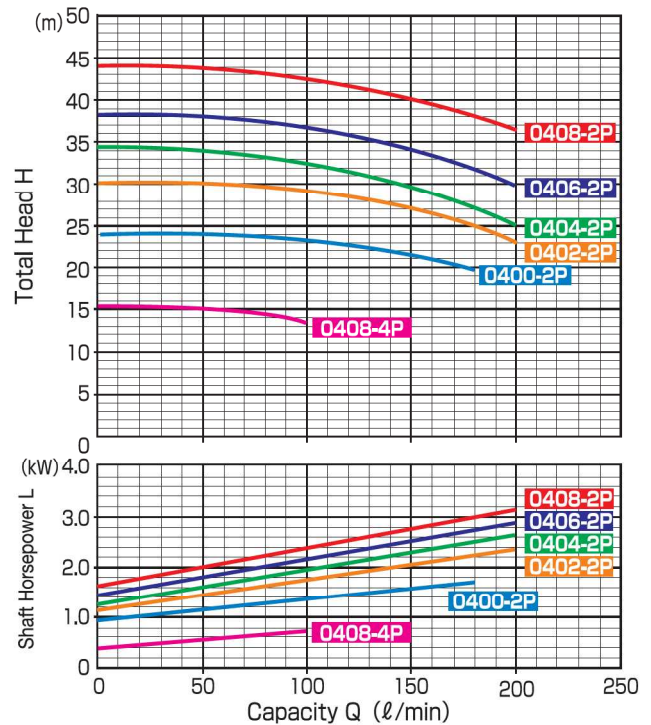
## Pump Specifications

- Operating Temperature -20~120°C  
(Please consult us about 0°C below and 100°C higher when used)
- Rotation Direction Clockwise (viewed from the motor)  
JIS 10K RF (Please consult us about ANSI/DIN standard.)
- Flange 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-0401-2P	100	20	2.5	0.75~5.5
MET-0403-2P		25		
MET-0405-2P		30		
MET-0407-2P		35		
MET-0409-2P		40		
MET-0409-4P	50	10	1.3	0.4~2.2

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-0400-2P	100	20	3.0	0.75~5.5
MET-0402-2P		25		
MET-0404-2P		30		
MET-0406-2P		35		
MET-0408-2P	40			
MET-0408-4P	50	15	1.5	0.4~2.2

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

## Pump Identification

**MET-040 1 P 01 FA 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 00 : 0.4kW 01 : 0.75kW 02 : 1.5kW  
03 : 2.2kW 05 : 3.7kW 07 : 5.5kW
- ⑥ Pump Body Material

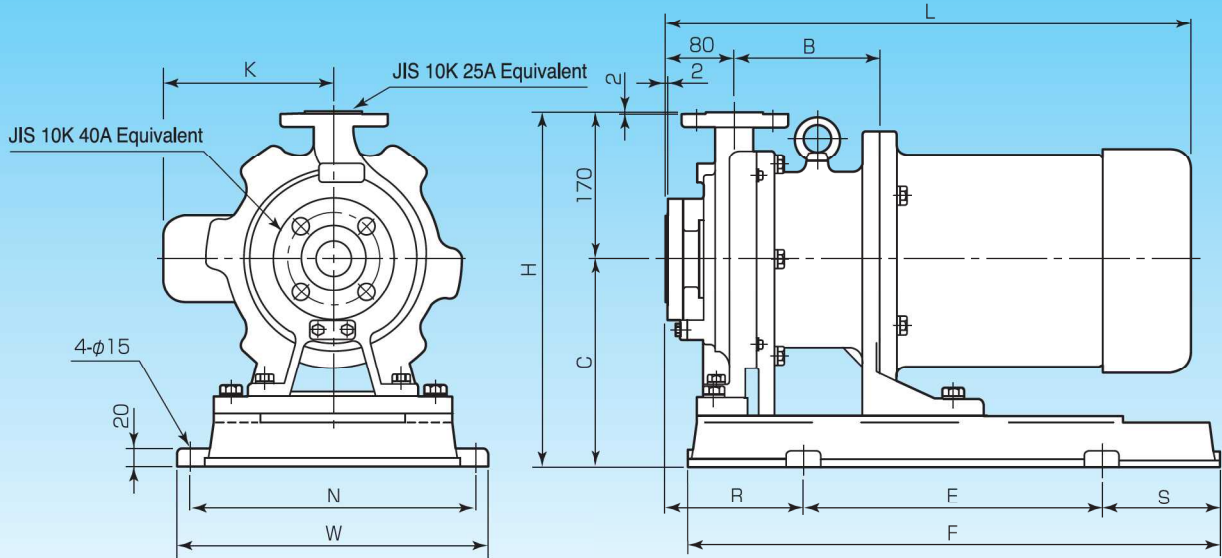
Type	Casing	Impeller+Inner Magnet	Rear Casing
F		PFA	PFA+Eng.Plastic
Z	Other Combinations or Special Option		

### ⑦ Parts Material Combination

Type	Shaft	Front Thrust Ring	Rear Thrust Ring	Mouth Ring	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.

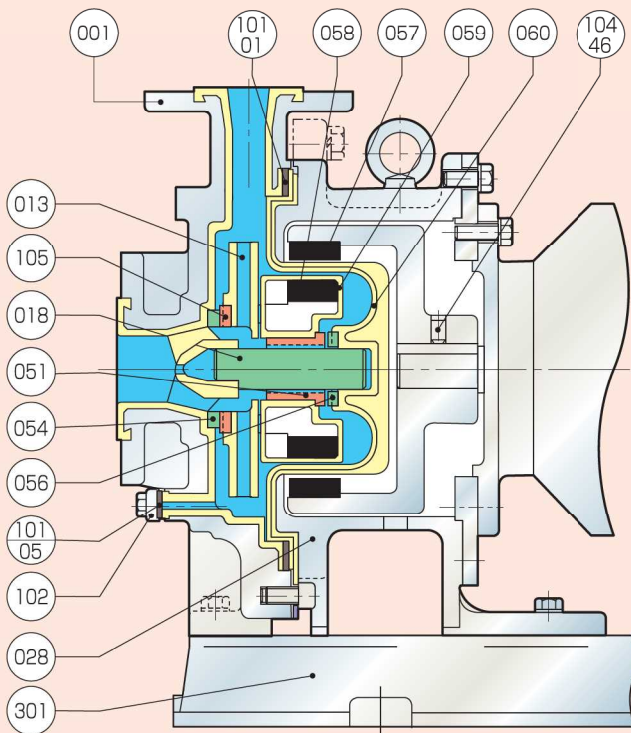
Dimensions



Motor Output (kW)	B	C	H	R	S	E	F	K	L	N	W	Weight (kg)
0.4	126	210	380	144	110	300	520	(200)	(665)	290	320	(69)
0.75	129											
1.5	139											
2.2	149	240	410	161.5	135	350	620			335	375	
3.7	149											
5.5	169											

- 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
018	Shaft	Alumina-ceramic / SiC
028	Bracket	FC200
051	Bearing	C-PTFE / SiC / Carbon / G-PTFE
054	Front Thrust Ring	Alumina-ceramic / SiC
056	Rear Thrust Ring	Alumina-ceramic / SiC
057	Outer Magnet	Rare Earth
058	Inner Magnet	Rare Earth
059	Magnet Lining	PFA
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
105	Mouth Ring	C-PTFE / SiC / Carbon / G-PTFE
301	Base	FC200

Note: Impeller has a linear channel form.  
 Inner Magnet (058), Magnet Lining (059), and Impeller (013) are integrated.