

MER-051 Series (Suction 50A×Discharge 40A)

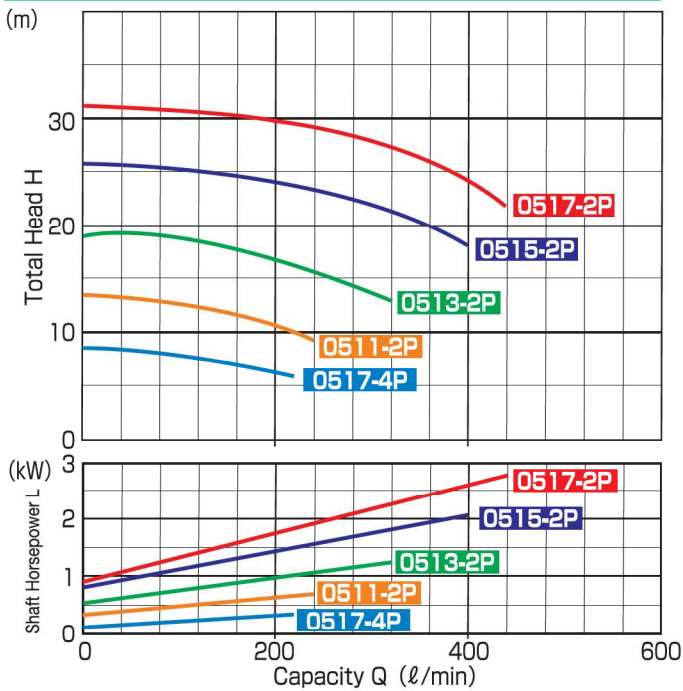
MER Series



Pump Specifications

- Operating Temperature 0~90℃
- Rotation Direction Clockwise (viewed from the motor)
- Flange JIS 10K RF (Please consult us about ANSI/DIN standard.)
- Finish Paint Munsell 2.5B4/8(pump body)
- Motor TEXEL flanged induction motor / IEC flanged induction motor
- Accessories Foundation bolts (M12×160L×50b)

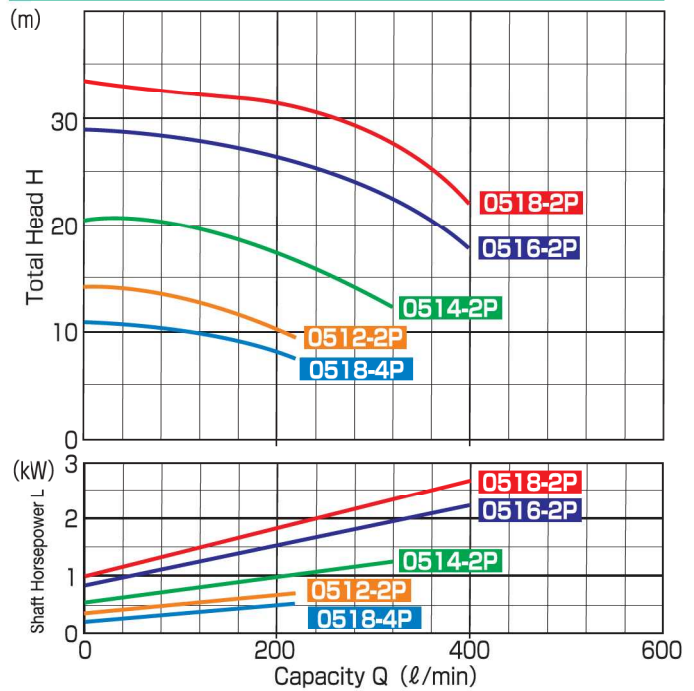
50Hz Performance Curve & Technical Data



Model	Capacity (ℓ/min)	Total Head (m)	NPSH Re (m)	Motor Output (kW)
MER-0511-2P	200	10	2.4	0.75~3.7
MER-0513-2P	250	15	2.8	
MER-0515-2P	350	20	5.5	
MER-0517-2P		25		
MER-0517-4P	200	6	2.4	0.4~0.75

Note: ① Motor output of 0.4 kW (4-pole) is only applicable when a TEXEL flanged induction motor is used.
 ② Motor output of 3.7 kW is only applicable when an IEC flanged induction motor is used.
 ③ 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)
MER-0512-2P	200	10	2.8	0.75~3.7
MER-0514-2P	250	15	3.6	
MER-0516-2P	350	20	6.6	
MER-0518-2P		25		
MER-0518-4P	200	8	2.7	0.4~0.75

Note: ① Motor output of 0.4 kW (4-pole) is only applicable when a TEXEL flanged induction motor is used.
 ② Motor output of 3.7 kW is only applicable when an IEC flanged induction motor is used.
 ③ NPSH Re values shown in the table are those obtained from the maximum suction pipe diameter.

Pump Identification

MER-051 1 F 01 P S A 4

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① Model
- ② Suction Pipe Size
- ③ Model Number Please refer to Performance Curve
- ④ O-ring Material F : FPM E : EPDM Z : Other
- ⑤ Motor Output 00 : 0.4kW 01 : 0.75kW
02 : 1.5kW 03 : 2.2kW 05 : 3.7kW

⑥ Pump Body Material

Type	Casing	Impeller + Inner Magnet	Drain	Rear Casing
P		PVDF		C-PVDF
H		ETFE		C-PVDF
E		ETFE		C-ETFE
Z	Other Combinations or Special Option			

⑦ Motor Type

- S : TEFC/outdoor TEXEL motor A: Explosion-proof increased safety (eG3) TEXEL motor
- T : IEC standard explosion-proof (d2G4) motor C : Other

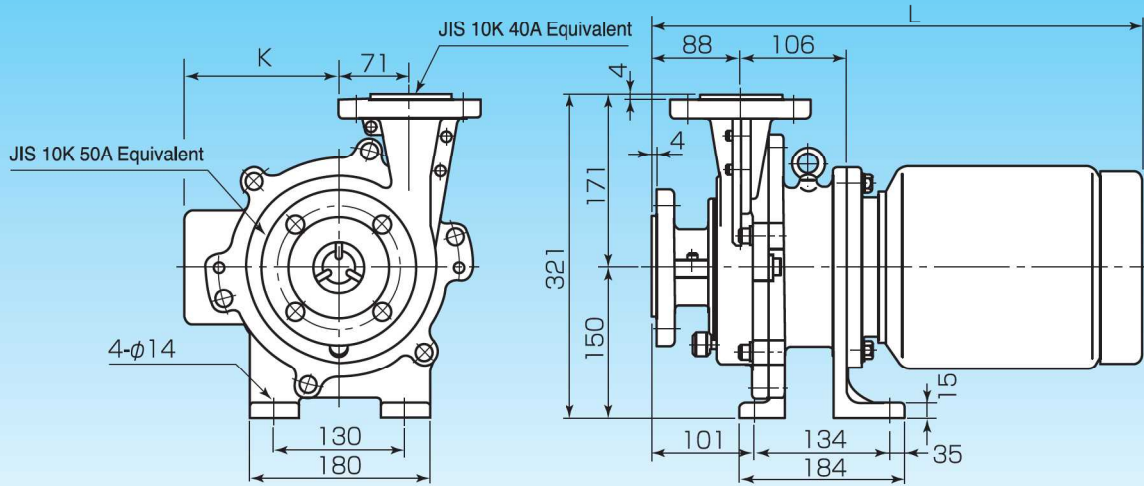
⑧ Parts Material Combination

Type	Shaft	Front Thrust Ring	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				

⑨ Number of Poles

"4" is shown only when a 4-pole motor is installed.

Dimensions

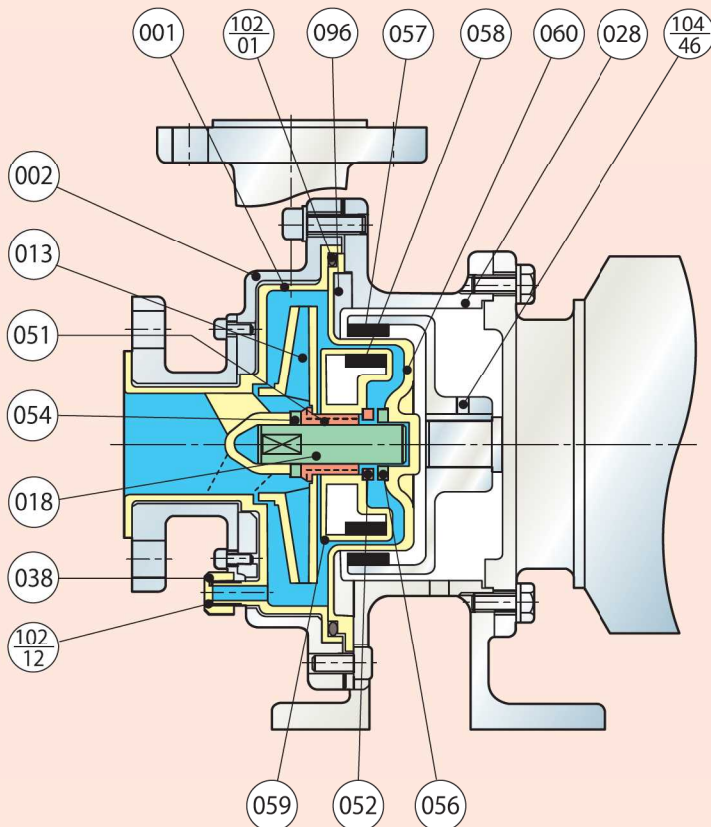


Motor Output (kW)	TEFC		eG3		Weight (kg)
	K	L	K	L	
0.4	147	419	150	428	(26)
0.75	157	451	159	464	
1.5	153	479	168	477	
2.2			176	545	
3.7	169	549	169	549	

Note:

- ① The weight of pump does not include the motor weight.
- ② The lengths shown to the left are applicable when a TEXEL flanged induction motor is used.
- ③ The figures in parentheses are reference values.

Construction Diagram



No.	Part Name	Materials
001	Casing	PVDF / ETFE
002	Casing Cover	FC200
013	Impeller	PVDF / ETFE
018	Shaft	Alumina-ceramic / SiC
028	Bracket	FC200
038	Drain Plug	PVDF / ETFE
051	Front Bearing	C-PTFE / SiC / Carbon / G-PTFE
052	Rear 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	PVDF / ETFE
060	Rear Casing	C-PVDF / C-ETFE
096	Bracket Ring	SS400
102-01	O-ring(Casing)	FPM / EPDM
102-12	O-ring(Drain Plug)	FPM / EPDM
104-46	Outer Magnet Set Screw	SNCM

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