

TYPE MCK

SEALLESS

SELF PRIMING STAINLESS STEEL REGENERATIVE TURBINE VANE MAGNET DRIVE PUMPS

Motor output :

400W to 750W

- ▶ **Excellent self priming capability.**
- ▶ No leakage because of magnet drive (sealless) construction.
- ▶ **SiC-D bearings withstand accidental dry-run on start up.**
- ▶ **Low heat rise and low minimum flow.**
- ▶ Quieter than typical mechanical seal pumps.
- ▶ **Steep performance curve** and dependable capacity regardless of pressure variations.

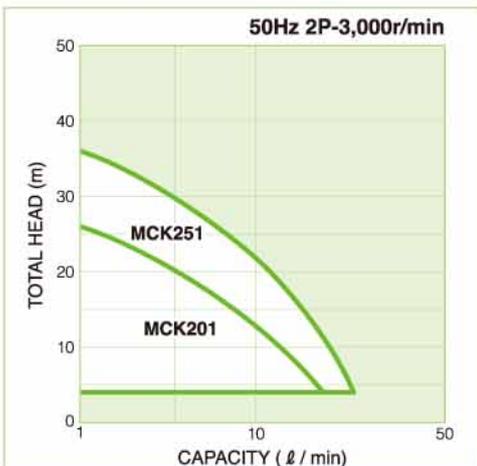
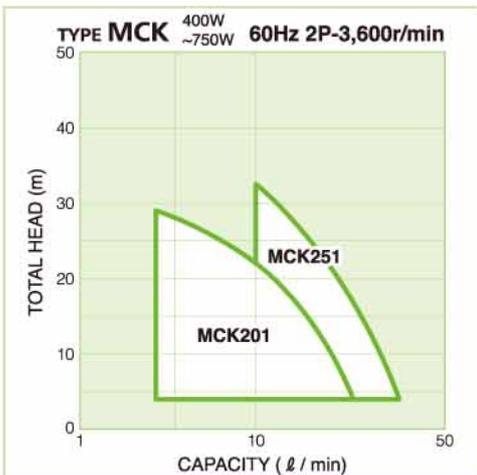


TYPE MCK 0°C~+80°C 400W~750W



Cascade-bladed impeller →

Selection charts



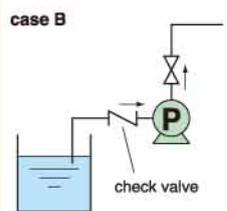
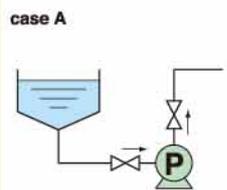
Specifications

	MCK201		MCK251	
Frequency	50Hz	60Hz	50Hz	60Hz
Max. total head	20m	20m	30m	30m
Max. capacity	6 ℓ /min	14 ℓ /min	6 ℓ /min	14 ℓ /min
Max. temperature applicable	80°C			
Min. temperature applicable	0°C			
Max. liquid specific gravity	1.1			
Max. liquid viscosity	30mPa-s(cP)			
Design pressure	0.6MPaG			
Bore (suction x discharge)	20x20mm		25x25mm	
Flange standard	Rc thread			
Type of impeller	Cascade blades			
Motor output rating	400W		750W	
Pump material	SCS13(SUS304)			
Check valve	VITON (NBR,EPDM)			
Liquid-immersed bearings	SiC-D			

Examples of usage

- Washing device
- Pump up chemical liquid

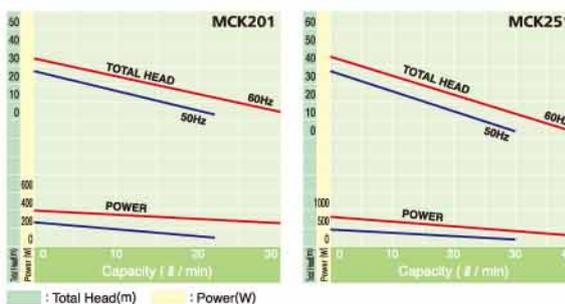
Example



For organic solvent, acetone, ether, methyl chloride, benzene etc... TYPE MCK shall be used for case A or case B.

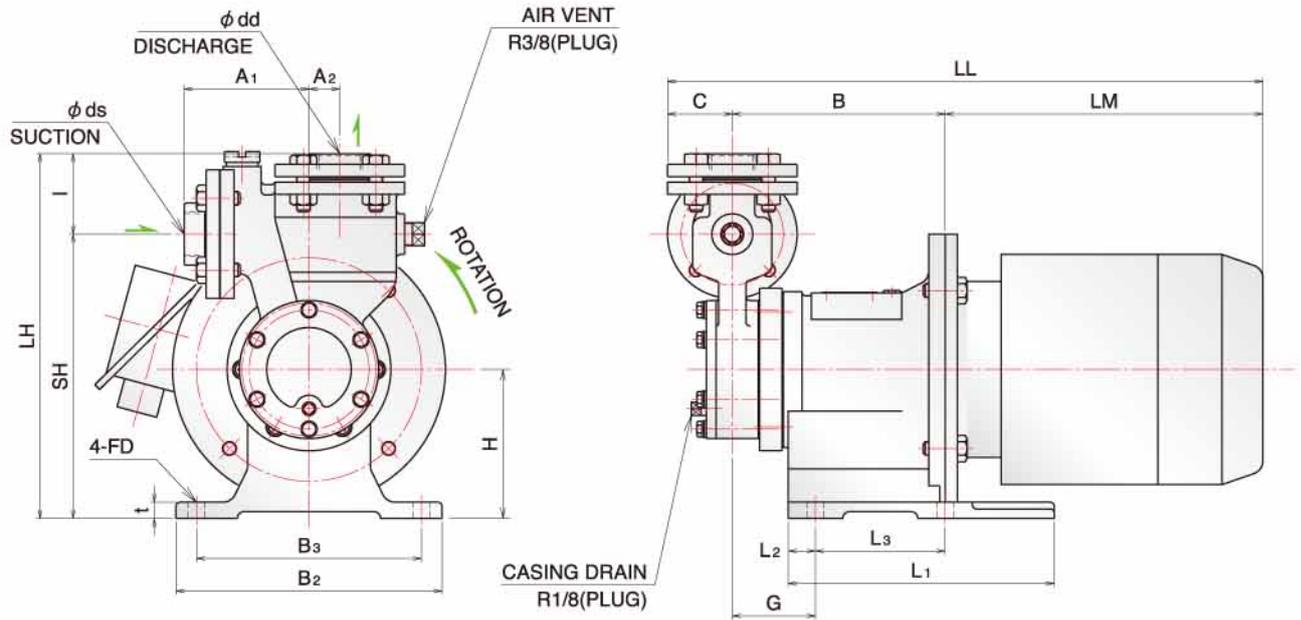
Performance curves

(60Hz 2P-3,600r/min, 50Hz 2P-3,000r/min)





Outline dimension

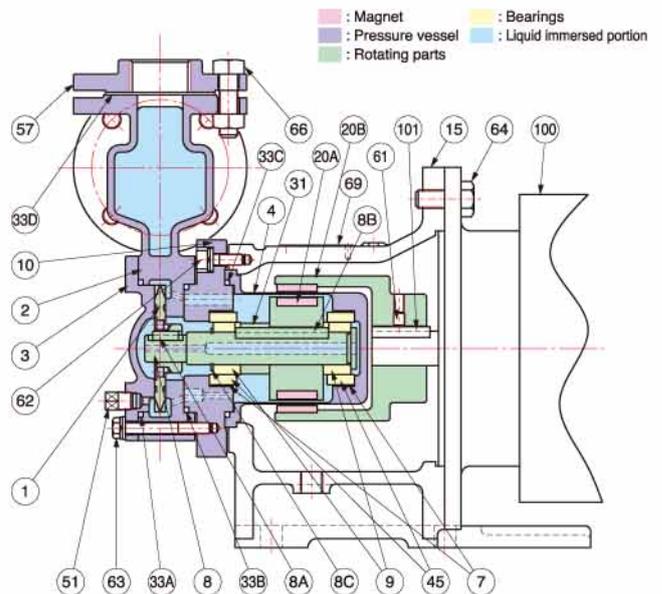
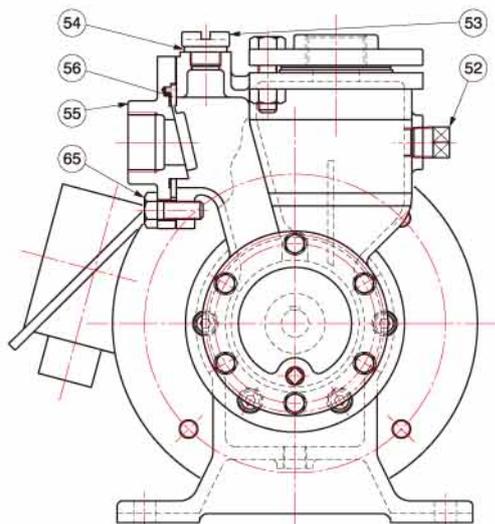


(In the unit of mm)

PUMP SIZE	MOTOR		BORE		PUMP & MOTOR								BASE PLATE						WEIGHT APPROX(kg)						
	FRAME SIZE	OUTPUT (W)	ds	dd	A ₁	A ₂	B	C	H	I	SH	LH	LM	LL	G	L ₁	L ₂	L ₃	B ₂	B ₃	t	FD	PUMP	MOTOR	TOTAL
MCK201	71M	400	20	20	91	20	140	42.5	90	65	180	245	231	413.5	45	200	20	100	190	160	12	φ12	13.5	11.0	24.5
MCK251	80M	750	25	25	91	22.5	156	47.5	110	60	210	270	233	436.5	61	195	20	95	195	165	12	φ12	16.0	12.5	28.5

LM,LL dimensions and motor weight may vary depending on motor used.

Construction and materials



9	SLEEVE	SIC-D	2	33C	O RING	PTFE	1	61	SET SCREW	SCM435	2	101	COUPLING KEY(M)	-	1										
8C	RETAINING RING	SUS304	1	33B	O RING	PTFE	1	57	DISCHARGE NOZZLE	SUS13	1	100	MOTOR	-	1										
8B	COUPLING KEY	SUS630	1	33A	O RING	PTFE	1	56	CHECK VALVE	VITON #	1	69	NAME PLATE	SUS304	1										
8A	IMPELLER KEY	SUS304	1	31	SPACER	SUS304	1	55	SUCTION NOZZLE	SUS304	1	66	HEXAGON HEAD BOLT & NUT	SUS304	4 ^S										
8	SHAFT	SUS304	1	20B	MAGNET	RARE EARTH	1 ^S	54	O RING	PTFE	1	65	HEXAGON HEAD BOLT	SUS304	4										
7	TOLERANCE RING	SUS301	2		MAGNET COUPLING(M)	SS400	1	53	PLUG	SUS316	1	64	HEXAGON HEAD BOLT	SUS304	4										
4	REAR CASING	SUS316	1	20A	MAGNET	RARE EARTH	1 ^S	52	PLUG	SUS316	1	63	HEXAGON HEAD BOLT WITH WASHER	SUS304	6 ^S										
3	CASING COVER	SCS13	1		MAGNET COUPLING(P)	SUS316	1	51	PLUG	SUS316	1	62	HEXAGON SOCKET HEAD CAP SCREW WITH WASHER	SUS304	6 ^S										
2	CASING	SCS13	1	15	FRAME ADAPTER	FC200	1	45	BUSHING	SIC	2														
1	IMPELLER	SUS304	1	10	HOLDER	SUS304	1	33D	GASKET	PTFE	1														