

TYPE MPJ

SEALLESS

JACKETED, STAINLESS STEEL MAGNET DRIVE PUMPS

Motor output :

0.75kW to 3.7kW

- ▶ Simple cost effective **semi-jacketed** magnet drive pump which provides excellent heat retention to product.
- ▶ **Used to maintain process temperature for heat sensitive liquids.**
- ▶ Pump corrosion resistance is provided with **304SS and 316SS construction.**
- ▶ Magnet drive (sealless) construction eliminates leakage.
- ▶ **SiC-D bearings withstand accidental dry-run on start up.**
- ▶ Dependable, low maintenance and extremely reliable.



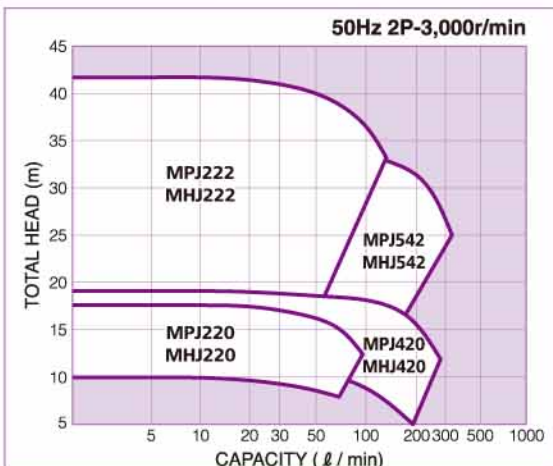
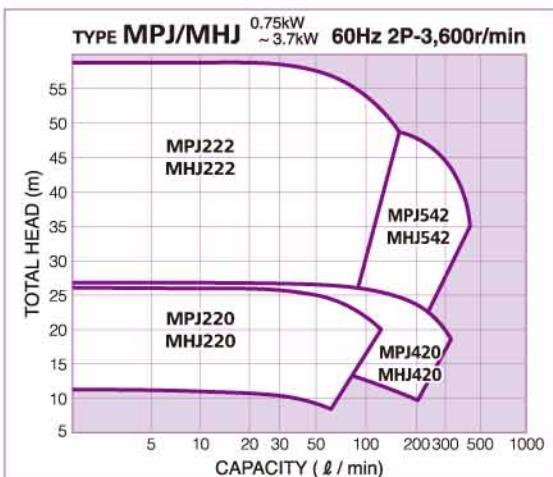
TYPE MPJ -30°C~+150°C 0.75kW~3.7kW

For liquid of high temperature

TYPE MHJ RT~+280°C 0.75kW~3.7kW

- ▶ Fin type frame adapter dissipates heat away from pump.
- ▶ High temperature SmCo magnets are used for temperatures above 150°C.
- ▶ High temperature gasket material is used.

Selection charts



Specifications

	MPJ	MHJ
Frequency	50Hz	60Hz
Max. total head	40m	58m
Max. capacity	300 l/min	300 l/min
Max. temperature applicable	150°C	280°C
Min. temperature applicable	-30°C	RT
Max. liquid specific gravity	2	
Max. liquid viscosity	300mPa·s(cP)	
Design pressure	1.0MPaG(Jacket:1.2MPaG)	
Bore (suction x discharge)	25x20~50x40mm	
Flange standard	JIS 10K RF / ASME 150LB RF	
Type of impeller	Closed type	
Motor output rating	0.75~3.7kW(2P)	
Pump material	SCS13(SUS304),SCS14(SUS316), ALLOY20, Hastelloy C equivalent	
Liquid-immersed bearings	SiC-D	

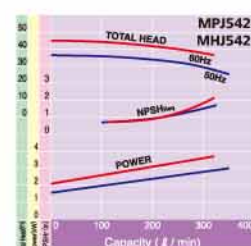
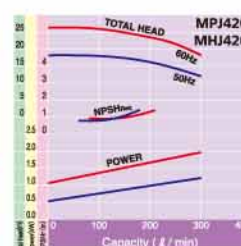
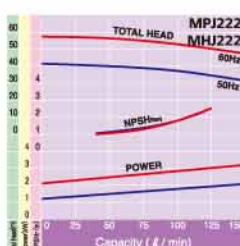
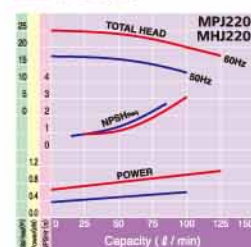
Typical usage

- Petrochemical industry
- Chemical Industry
- For cold and hot water circulation
- For general industries
- For setting to various machines and equipment

Performance curves

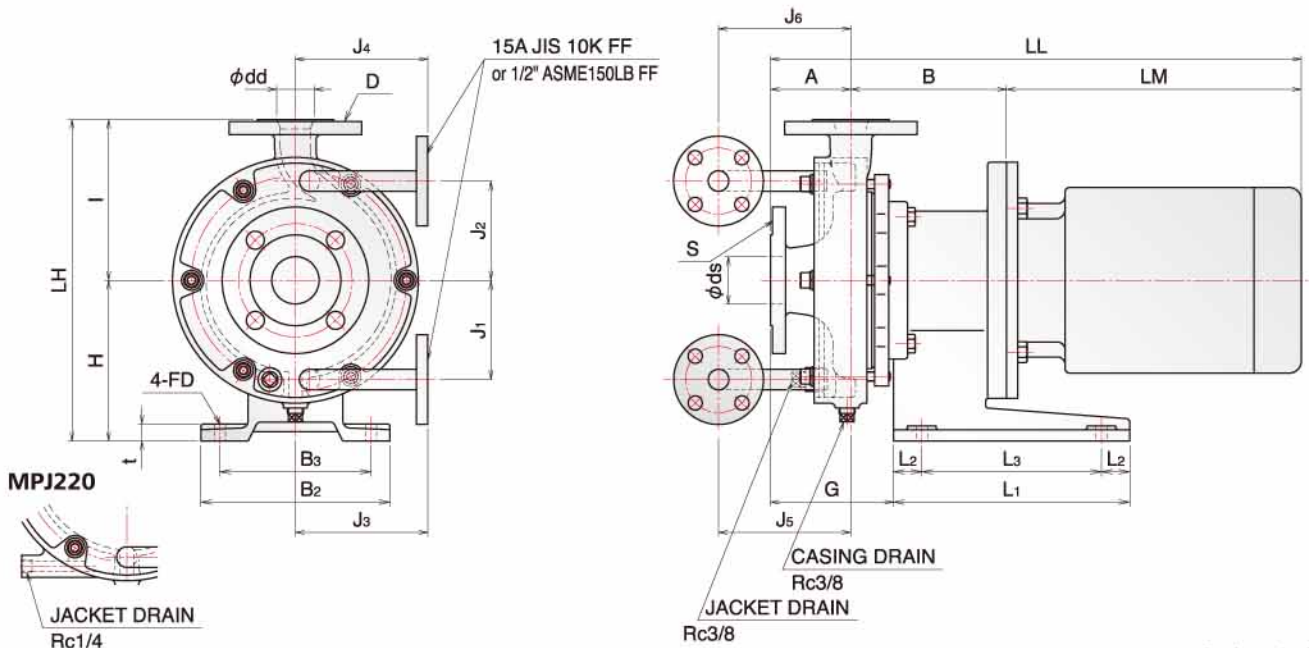
(60Hz 2P-3,600r/min, 50Hz 2P-3,000r/min)

- Total Head(m)
- Power(kW)
- NPSHreq(m)





Outline dimension

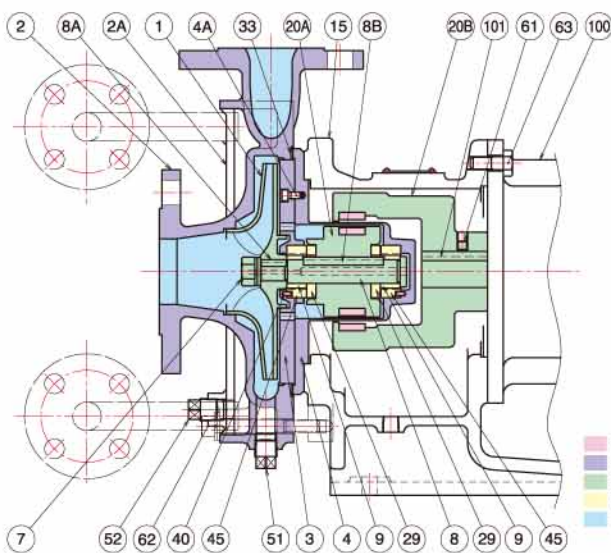


(In the unit of mm)

PUMP SIZE	MOTOR		BORE		PUMP & MOTOR						BASE PLATE				JACKET						WEIGHT APPROX(kg)									
	FRAME SIZE	OUTPUT (kW)	SUCT ds	DISCH S	A	B	H	I	LH	LM	LL	G	L1	L2	L3	B2	B3	t	FD	J1	J2	J3	J4	J5	J6	PUMP	MOTOR	TOTAL		
MPJ220	80M	0.75	25	RF	20	RF	80	170	170	140	310	233	483	130	250	30	190	200	160	18	φ12	80	80	140	140	140	140	30	12.5	42.5
MHJ220	90L	1.5	25	RF	20	RF	80	170	170	140	310	275	525	130	250	30	190	200	160	18	φ12	80	80	140	140	140	140	30	16.5	46.5
MPJ420	80M	0.75	40	RF	25	RF	95	170	170	150	320	233	498	145	250	30	190	200	160	18	φ12	80	80	140	140	140	31	12.5	43.5	
MHJ420	90L	1.5,2.2	40	RF	25	RF	95	170	170	150	320	275	540	145	250	30	190	200	160	18	φ12	80	80	140	140	140	31	16.5	47.5	
MPJ222	90L	1.5	25	RF	20	RF	85	165	170	160	330	275	525	130	250	30	190	200	160	18	φ12	100	100	140	140	140	32	18	50	
MHJ222	(100L)112M	(2.2),3.7	25	RF	20	RF	85	175	170	160	330	326	586	130	250	30	190	200	160	18	φ12	100	100	140	140	140	36	37	73	
MPJ542	90L	2.2	50	RF	40	RF	85	165	170	170	340	275	525	130	250	30	190	200	160	18	φ12	100	100	140	140	140	37	18	55	
MHJ542	(100L)112M	(2.2),3.7	50	RF	40	RF	85	175	170	170	340	326	586	130	250	30	190	200	160	18	φ12	100	100	140	140	140	41	37	78	

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

Construction and materials



101	COUPLING KEY(M)	S45C	1
100	MOTOR	-	1
63	HEXAGON HEAD BOLT	SUS304	4
62	HEXAGON SOCKET HEAD CAP SCREW WITH WASHER	SUS304	6 ^S
61	SET SCREW	SCM435	1
52	PLUG	FCMB	1
51	PLUG	SUS	1
45	BUSHING	SIC	2
40	PIN	SUS	2
33	SHEET GASKET	PTFE	1
29	THRUST RING	SIC	2
20B	MAGNET	RARE EARTH	1 ^S
	MAGNET COUPLING(M)	FCD	1
20A	MAGNET	RARE EARTH	1 ^S
	MAGNET COUPLING(P)	SUS	1
15	FRAME ADAPTER	FCD	1
9	SLEEVE	SIC-D	2
8B	COUPLING KEY(P)	SUS	1
8A	IMPELLER KEY	SUS	1
8	SHAFT	SUS	1
7	IMPELLER NUT WITH WASHER	SUS	1 ^S
4A	HEXAGON SOCKET HEAD CAP SCREW	SUS	4
4	REAR CASING	SUS	1
3	CASING COVER	SUS	1
2A	CASING JACKET	SS400	1
2	CASING	SCS	1
1	IMPELLER	SCS	1
MARK	NAME OF PART	MAT'L	No.REQ'D