



The Heart of Industry

IWAKI

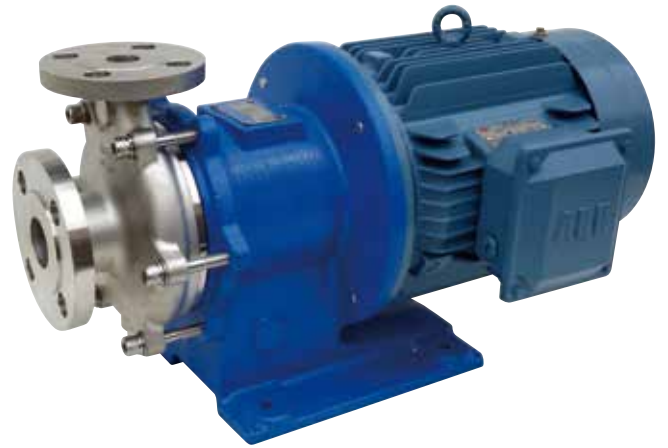
METALLIC
CENTRIFUGAL
MAGNETIC DRIVE PUMPS

MP

MMP

M

MTFO

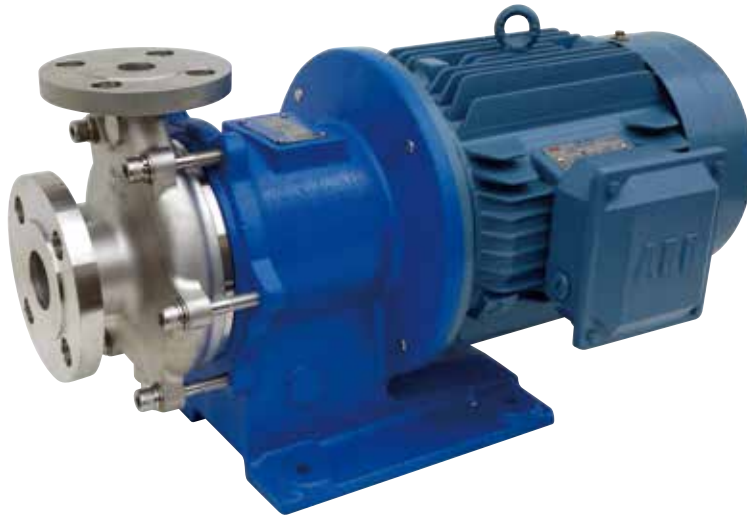


Solutions for chemical handling applications

MP

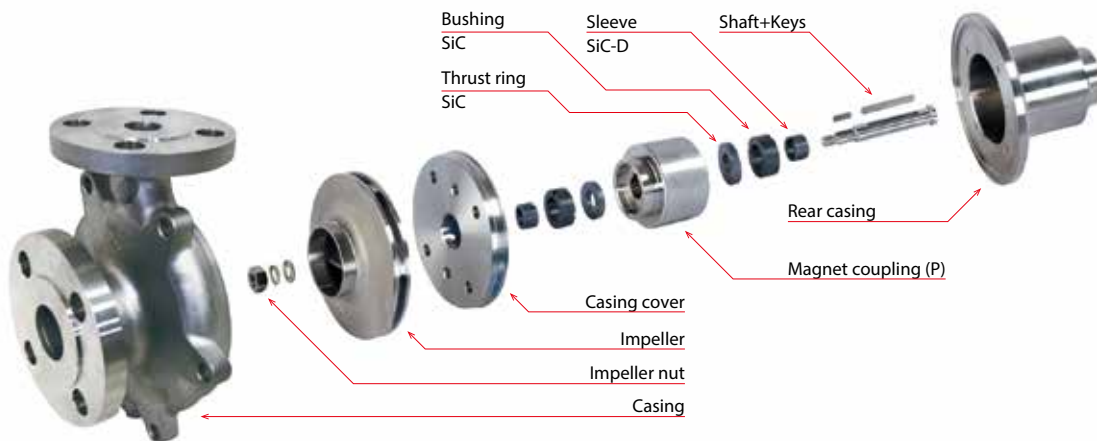
Small / Medium Sized Standard Centrifugal Pumps

- » Compact, metallic centrifugal magnetic drive pumps
- » Excellent heat and pressure resistance
- » Cover a wide range of motor capacities, up to 15 kW
- » Pump materials offer excellent corrosion resistance
- » This model can transfer liquid below freezing
- » Stainless Steel is standard. Other materials available on request
- » Magnetic drive is supported by the exclusive SiC-D bearing
- » High efficiency and leak free design
- » Easy to disassemble and reassemble



TYPE MP
Motor output :
0.75 kW to 15 kW

Highly reliable block-building structure



PB Assembly

PB Assembly is a completely assembled wet end rotating element including impeller, casing cover, bearings, inner magnet coupling (P), shaft and rear casing.

PB assembly enable you to replace the wet end of the pump easily and quickly.

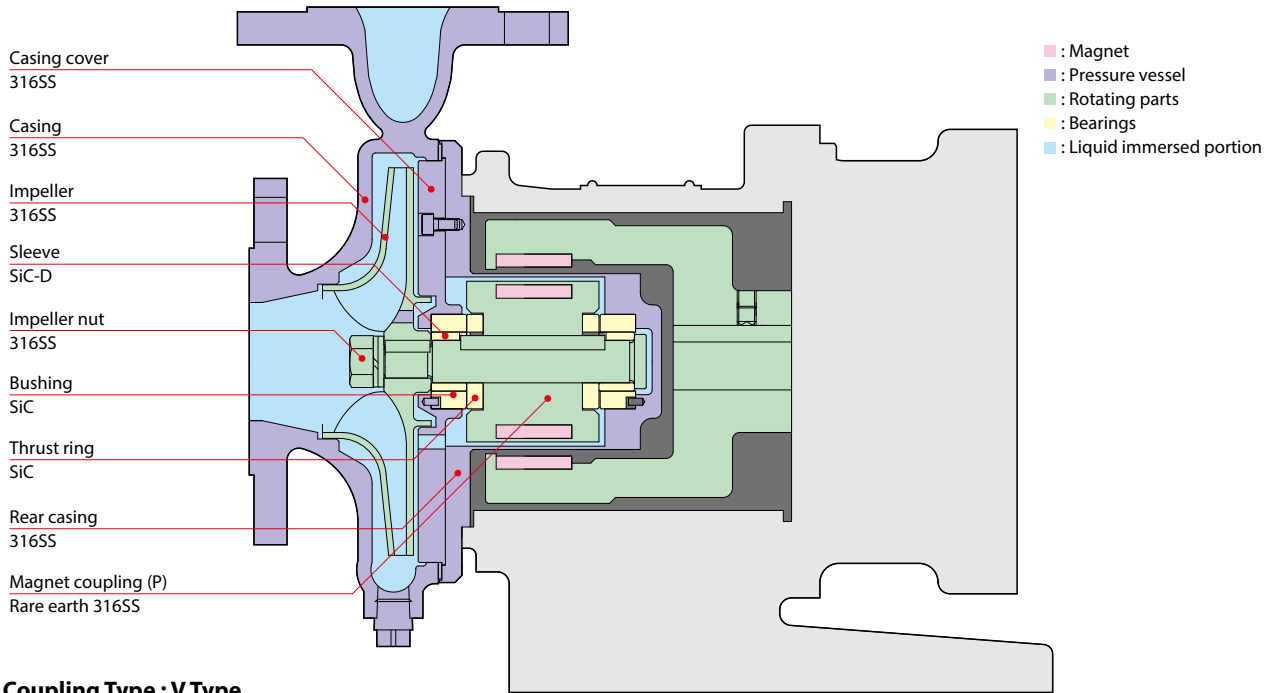
For the urgent trouble shooting the pump can be recovered from shutdown only by replacing the rotating PB assembly.



Construction and materials

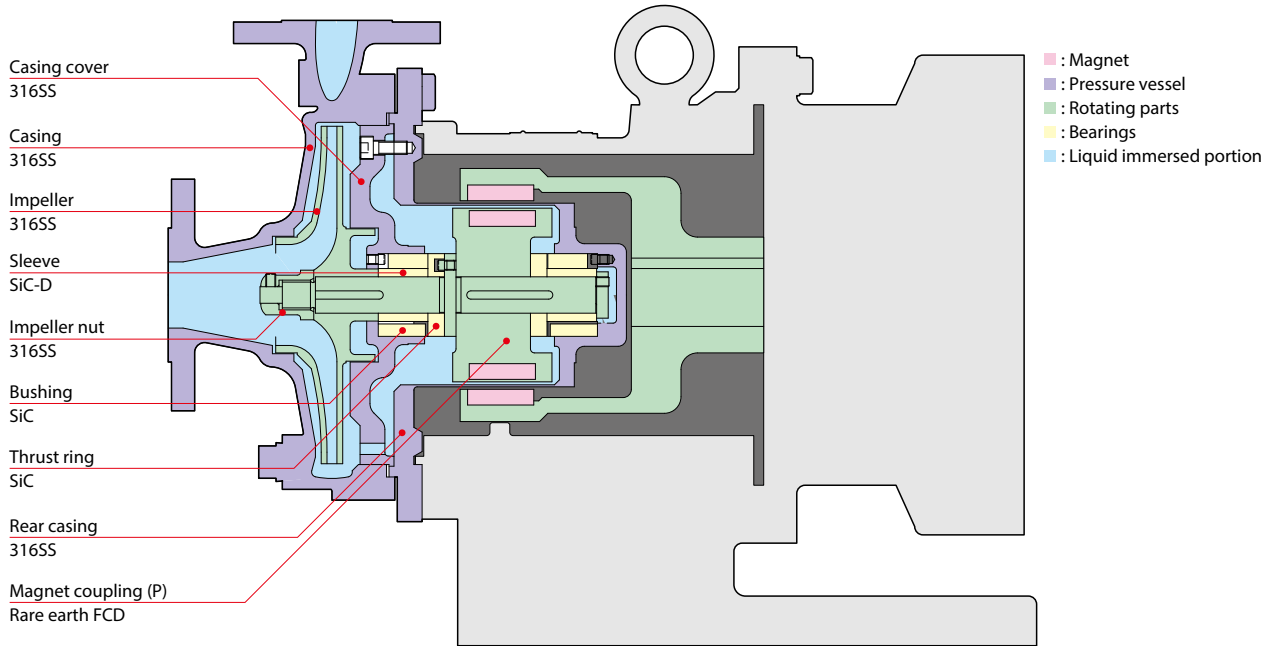
Magnet Coupling Type : K Type

(MP210, 220, 221, 222, 420, 421, 541, 542)



Magnet Coupling Type : V Type

(MP4220LF, 4220, 5225LF, 8415, 8420, 8515, 5430)



Significance of SiC-D

- Increased damage prevention -

- » SiC-D bearings can withstand accidental dry run for certain periods.
- » Unique materials and manufacturing techniques of our specially treated SiC-D bearings provide a coefficient of friction 1/4 that of SiC.
- » The very low coefficient of friction of our SiC-D bearings results in much less heat being generated in upset or dry running conditions. SiC-D bearings are more forgiving of dry running conditions frequently encountered at start up, during upset conditions or in batch services. Extremely hard surfaces minimize wear and prolong service life; resistance to chemicals is maintained for extended bearing life.

BUSHING (SiC)

THRUST RING (SiC)



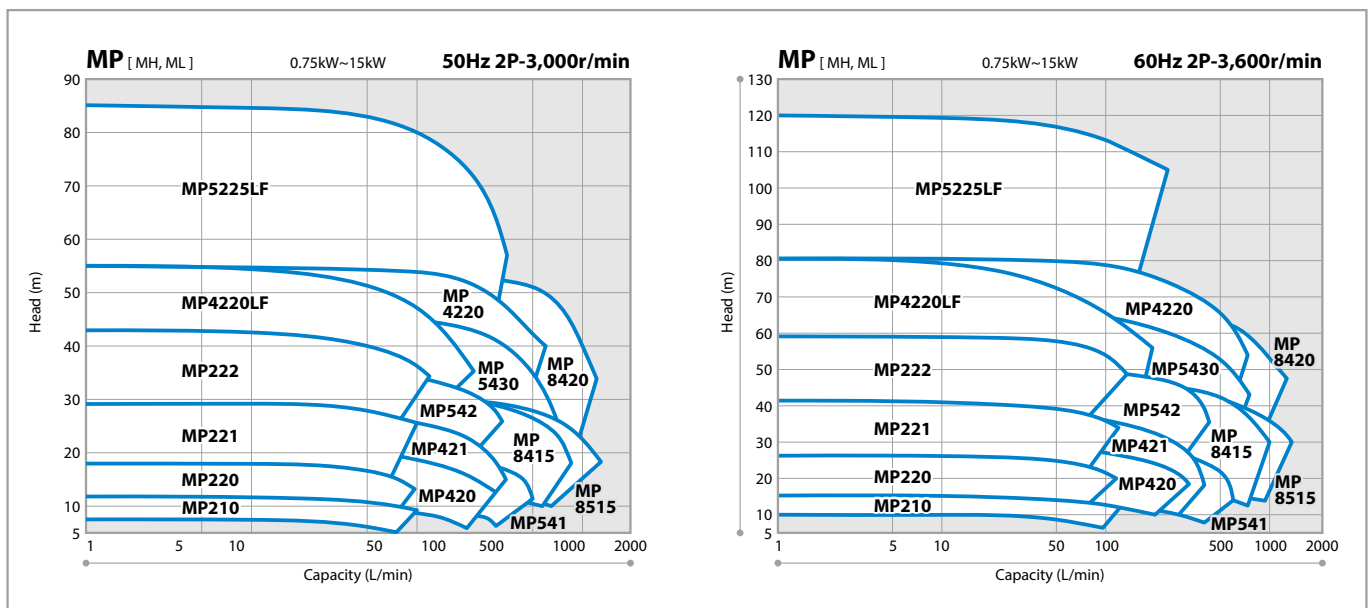
SLEEVE (SiC-D)

Specifications

Pump Type	MP	
Frequency Hz	50	60
Max. Head m (ft)	80 (262)	120 (394)
Max. Capacity LPM (GPM)	1100 (290)	1300 (343)
Operating Temperature °C (°F)	-30 (-22) to 150 (302) See note below	
Maximum Specific Gravity	2	
Maximum Viscosity (mPa·s,cP)	300	
Design pressure (MPaG)	1.0, 1.2, 1.6	
Flange standard	JIS / ASME flange	
Impeller type	Closed	
(Synchronized) rotation speed(rpm)	3000 / 3600	
Bore (Suction x Discharge) mm	25 x 20 to 80 x 50	
Motor Output kW	0.75 to 15	
Pump Material	Stainless Steel 316	

Note: Below -20°C or above 120°C please contact your dealer/distributor.

Selection charts



Pump Type Identification

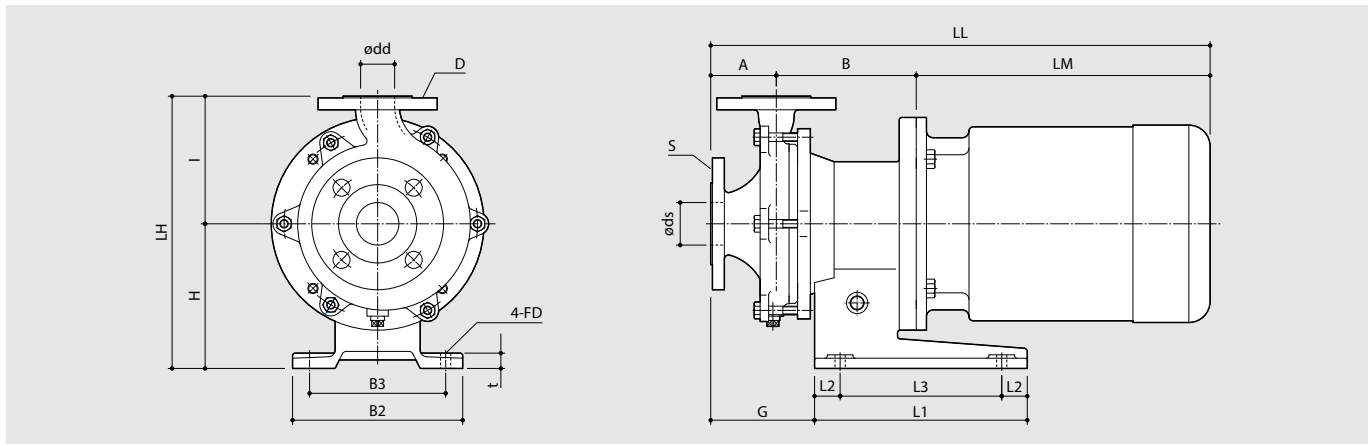
MP222 - 170 - 6 KD F 022 K3290 J - 2 T1

- Pump type & size**: Note
- Impeller size**: 80 to 255mm
- Wet-end material**: 6 : 316SS
- Material of bearing**: KD : SiC/SiC-D
- Type of motor**: F : Flange motor
- Motor output**: 007 : 0.75kW, 011 : 1.1kW, 015 : 1.5kW, 022 : 2.2kW, 030 : 3.0kW, 037 : 3.7kW, 040 : 4kW, 055 : 5.5kW, 075 : 7.5kW, 110 : 11kW, 150 : 15kW
- Magnet coupling-motor frame**
- Motor pole**: 2 : 2 pole
- Standard for pipe connection and motor**: J : JIS 10k RF flange, A : ASME150lb RF flange
- Special code**: Blank : -20 to 120°C, T1 : 121 to 150°C, T2 : -30 to -21°C

Code	Magnet coupling type	Motor frame
K2680	K20x6	80M
K2090	K20	90L
K3290	K32	90L
K3211	K32	100L 112M
V2511	V25	112M
V4013	V40	132S/M
V4016	V40	160M/L
V6516	V65	160M/L

Note: This code can not be applied to derivative models of MP such as MH and ML.

Dimensions in mm



Pump size	Motor		Bore		Pump & motor								Base plate							Mass (kg)				
	frame size	Output (kW)	Suction	Discharge	A	B	H	I	LH	LM	LL	G	L ₁	L ₂	L ₃	B ₂	B ₃	t	FD	Pump	Motor	Total		
MP210	80M	0.75	25	20	75	170	110	105	215	233	478	125	180	30	120	160	130	12	Ø12	22	12.5	34.5		
	90L	1.5								275	520									22	16.5	38.5		
MP220	80M	0.75	25	20	60	170	110 (170)	120	230 (290)	233	463	110	180 (250)	30	120 (190)	160 (200)	130 (160)	12 (18)	Ø12	23	12.5	35.5		
	90L	1.5								275	505									23	16.5	39.5		
MP221	90L	1.5, 2.2	25	20	65	165	170	130	300	275	505	110	250	30	190	200	160	18	Ø12	27	18	45		
	(100L)112M	(2.2), 3.7								326	566									30	37	67		
MP222	90L	1.5, 2.2	25	20	65	165	170	140	310	275	505	110	250	30	190	200	160	18	Ø12	29	18	47		
	(100L)112M	(2.2), 3.7								326	566									33	37	70		
MP420	80M	0.75	40	25	75	170	170	135	305	233	478	125	250	30	190	200	160	18	Ø12	29	12.5	41.5		
	90L	1.5, 2.2								275	520									29	18	47		
MP421	90L	1.5, 2.2	40	25	75	170	170	135	305	275	520	125	250	30	190	200	160	18	Ø12	30	18	48		
	(100L)112M	(2.2), 3.7								326	581									34	37	71		
MP541	90L	2.2	50	40	80	170	170	140	310	275	525	130	250	30	190	200	160	18	Ø12	31	18	49		
	(100L)112M	(2.2), 3.7								326	586									35	37	72		
MP542	90L	2.2	50	40	65	165	170	150	320	275	525	110	250	30	190	200	160	18	Ø12	34	18	52		
	(100L)112M	(2.2), 3.7								326	586									38	37	72		
MP4220LF	112M	3.7	40	25	102	258	212	165	377	355	715	175	350	50	250	250	200	20	Ø15	68	47	115		
	132S,M	5.5, 7.5								400	760									250	200	70	80	150
	160M,L	11, 15								415	875									350	250	86	110	196
MP4220	112M	3.7	40	25	102	258	212	165	377	355	715	175	350	50	250	250	200	20	Ø15	68	47	115		
	132S,M	5.5, 7.5								400	760									250	200	70	80	150
	160M,L	11, 15								415	875									350	250	86	110	196
MP5430	112M	3.7	50	40	102	258	212	165	377	355	715	175	350	50	250	250	200	20	Ø15	72	47	119		
	132S,M	5.5, 7.5								400	760									250	200	74	80	150
	160M,L	11, 15								415	875									350	250	90	110	200
MP8415	112M	3.7	80	40	102	258	212	165	377	355	715	175	350	50	250	250	200	20	Ø15	72	47	119		
	132S,M	5.5, 7.5								400	760									250	200	74	80	150
	160M,L	11, 15								415	875									350	250	90	110	200
MP8420	112M	3.7	80	40	102	263	212	215	427	355	715	180	350	50	250	250	200	20	Ø15	74	47	121		
	132S,M	5.5, 7.5								427	760									250	200	76	80	156
	160M,L	11, 15								465	875									350	250	92	110	202
MP8515	112M	3.7	80	50	102	263	212	210	422	355	720	180	350	50	250	250	200	20	Ø15	74	47	121		
	132S,M	5.5, 7.5								422	765									250	200	76	80	156
	160M,L	11, 15								460	880									350	250	92	110	202
MP5225LF	112M	3.7	50	25	102	263	212	215	427	355	720	180	350	50	250	250	200	20	Ø15	84	47	131		
	132S,M	5.5, 7.5								427	765									250	200	86	80	166
	160M,L	11, 15								465	880									350	250	102	110	212

Note: JIS 10K RF or ASME 150lb RF
 • LM,LL dimensions and motor weight may vary depending on motor used.
 • Figures in brackets are for MH220 and ML220

**For liquid of high temperature
TYPE MH [RT~+280°C]**

Fin type frame adapter dissipates heat away from pump.
 Rare earth SmCo magnets are used.
 High temperature gasket material is used.

**For liquid of low temperature
TYPE ML [-80°C~+150°C]**

Nitrogen purge port is provided to prevent moisture from freezing in the frame adapter.
 Rare earth Nd magnets are used.
 Low temperature gasket material is used.

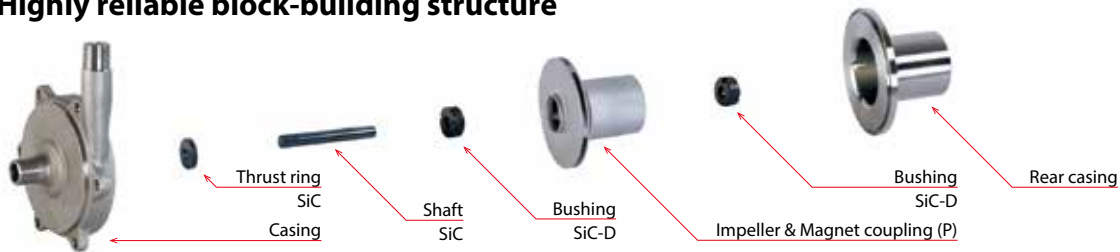
MMP

Small Sized Standard Centrifugal Pumps for Equipment Use



TYPE MMP
Motor output :
0.37kW to 0.55kW

Highly reliable block-building structure



Construction and materials

Magnet coupling (P)
 Rare earth 316SS

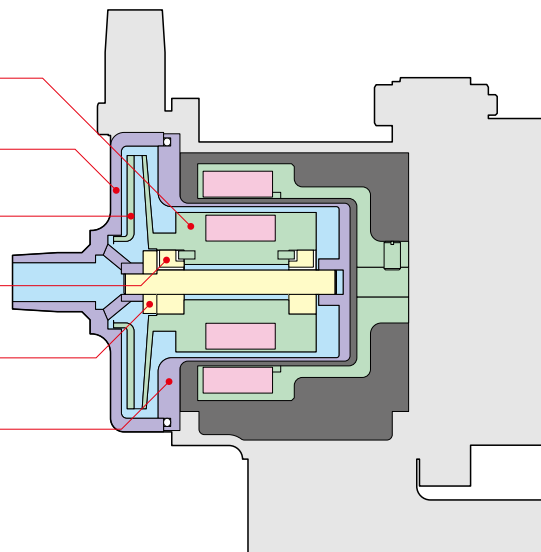
Casing
 316SS

Impeller
 316SS

Bushing
 SiC-D

Thrust ring
 SiC

Rear casing
 316SS



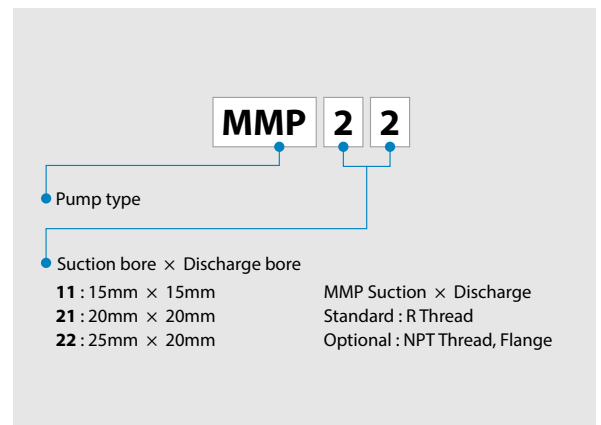
- : Magnet
- : Pressure vessel
- : Rotating parts
- : Bearings
- : Liquid immersed portion

Specifications

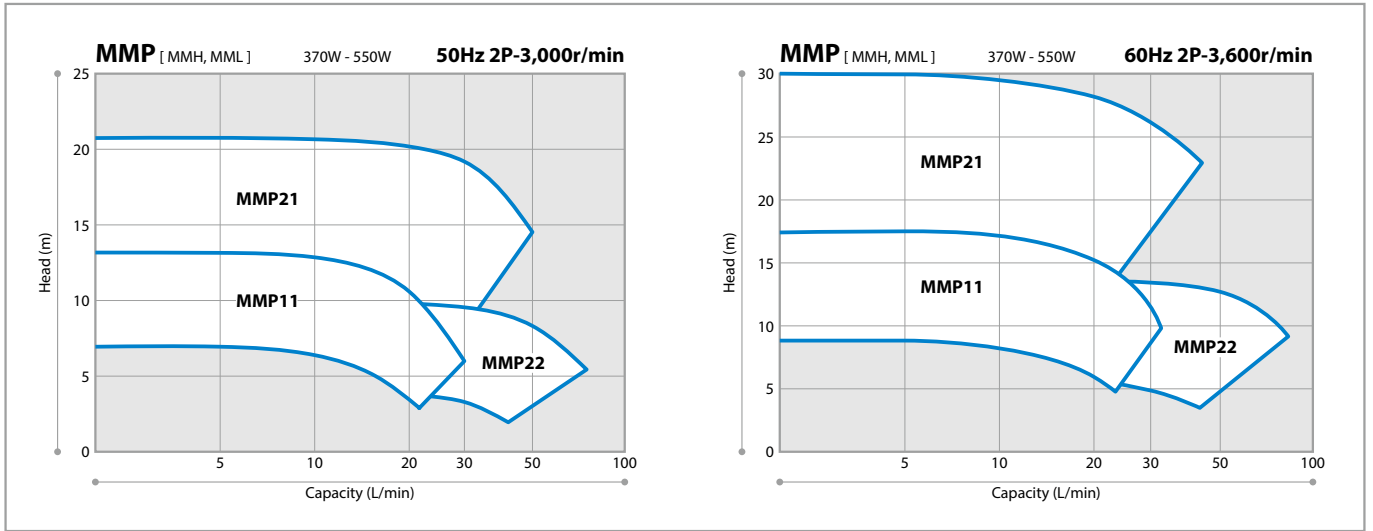
Pump Type	MMP	
Frequency Hz	50	60
Max. Head m (ft)	20 (66)	28 (92)
Max. Capacity LPM (GPM)	80 (21)	80 (21)
Operating Temperature °C (°F)	-30 (-22) to 150 (302) See note below	
Maximum Specific Gravity	2	
Maximum Viscosity (mPa·s,cP)	100	
Design pressure (MPaG)	0.6 ~ 1	
Flange standard	R Thread/ NPT Thread	
Impeller type	Closed	
(Synchronized) rotation speed(rpm)	3000 / 3600	
Bore (Suction x Discharge) mm	15 x 15 to 25 x 20	
Motor Output kW	0.37 to 0.55	
Pump Material	Stainless Steel 316	

Note: Below -20°C or above 120°C please contact your dealer/distributor.

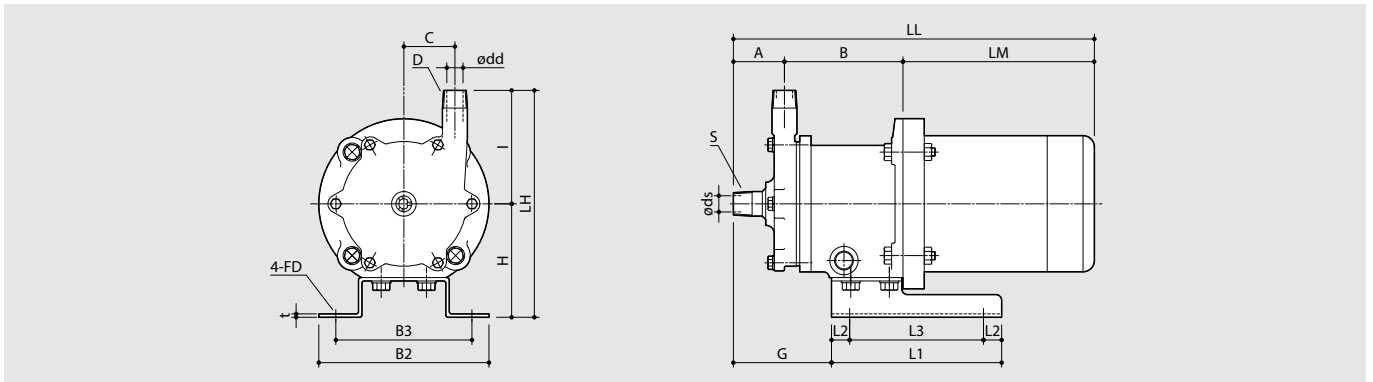
Pump Type Identification



Selection charts



Dimensions in mm



Pump size	Motor		Bore				Pump & motor							Base plate						Mass (kg)					
	frame size	Output (W)	Suction ds	S	Discharge dd	D	A	B	C	H	I	LH	LM	LL	G	L ₁	L ₂	L ₃	B ₂	B ₃	t	FD	Pump	Motor	Total
MMP11	71	370/400/550	15	R1/2	15	R1/2	45	111	45	100	100	200	231	387	86(70)	150	16	118	150	120	3	Ø9.5	8.0	11.0	19.0
MMP21	71	370/400/550	20	R3/4	20	R3/4	50	112	50	100	120	220	231	393	77	150	16	118	150	120	3	Ø9.5	11.0	11.0	22.0
MMP22	71	370/400/550	25	R1	20	R3/4	60	113	45	100	100	200	231	404	103(87)	150	16	118	150	120	3	Ø9.5	10.0	11.0	21.0

• LM,LL dimensions and motor weight may vary depending on motor used.
 • Figures in brackets are for MMH11, 22 and MML11, 22.

For liquid of high temperature
TYPE MMH [RT~+280°C]

Open spacer between pump and motor eliminates excess heat transfer to motor. For high temperatures, SmCo magnets and high temperature gasket material are used. High pressure containment is standard on these models. >230°C, Flange Fitting and No Casing Drain.

For liquid of low temperature
TYPE MML [-80°C~+150°C]

Sealed spacer protects motor from excess cold temperatures. Nd magnets and low temperature gasket material is used in these pumps. Nitrogen purge port is provided to prevent moisture from freezing in the frame adapter.

Iwaki dry running protector DRN series (Option)

Model DRN is electric current sensing type dry running protector. It decrease load current (lower limit) to stop the pump when it runs dry or runs with air sucking in. It can detect over-load, too.

Specifications

Model	DRN-01	DRN-02
Amperometric range	0.5 to 30.00A	5.0 to 200.0A
Unit's source voltage	AC100V to 240V 50/60Hz 10VA	
Operating temperature	0 to 40°C	
Operating humidity	35 to 85%RH	
Current sensor	JS10FL	JS24FL

• Not used as an inverter.



M

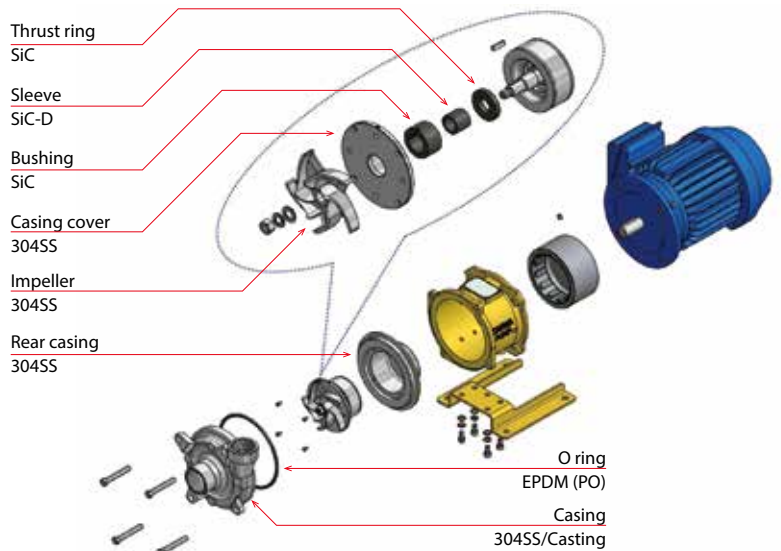
Small Sized Standard Centrifugal Pumps for Equipment Use

- » Compact design.
- » Proven pump for OEM applications.
- » Competitively priced.
- » Impeller type: Closed (Motor: 0.37kW, 0.55kW)
Open (Motor: 0.75kW, 1.5kW, 2.2kW)
- » Simple construction of single wet bearing design.



TYPE M
Motor output :
0.37 kW to 2.2 kW

Construction and materials

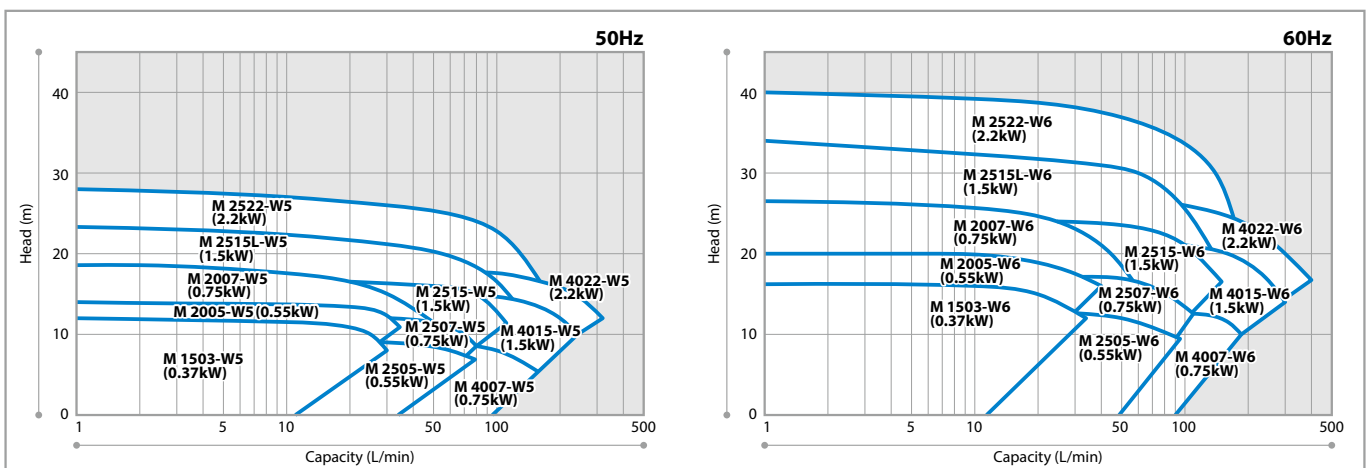


Specifications

Pump Type	M	
Frequency Hz	50	60
Max. Head m (ft)	28 (91.9)	39 (128)
Max. Capacity LPM (GPM)	260 (68.7)	360 (95.1)
Operating Temperature °C (°F)	-20 (-4) to 100 (212) See note below	
Maximum Specific Gravity	1	
Maximum Viscosity (mPa·s, cP)	10	
Design pressure (MPaG)	0.4 (0.37 to 0.55kW) , 0.6 (0.75 to 2.2kW)	
Flange standard	Rc Thread	
Impeller type	Close (0.37 to 0.55kW) , Open (0.75 to 2.2kW)	
(Synchronized) rotation speed (rpm)	3000	3600
Bore (Suction x Discharge) mm	15 x 15 to 40 x 40	
Motor Output kW	0.37 to 2.2	
Pump Material	Stainless Steel 304	

Note: The temperature range of FKM O ring is from 0 to 100°C.

Selection charts



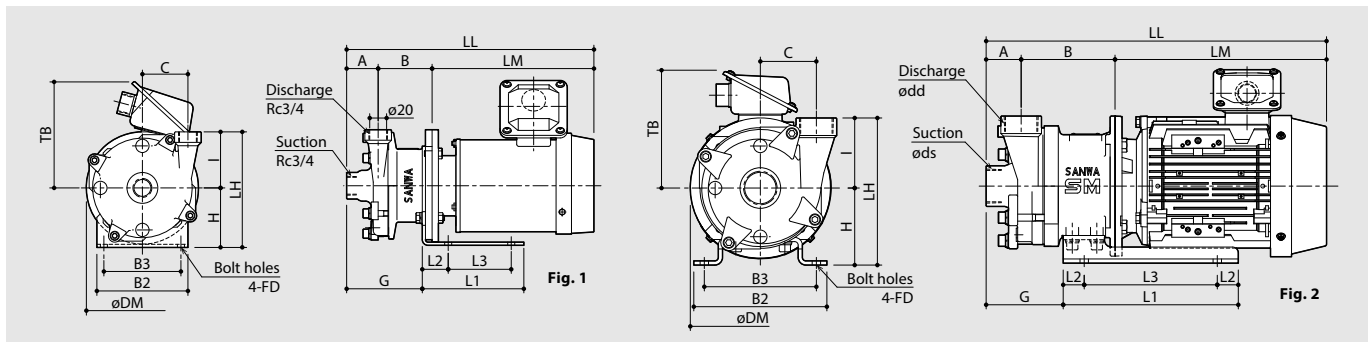
Pump Type Identification

M 25 15 - W 5 - F J P

- Pump type**: M
- Pump size (Suction bore)**: 25 (15: Rc 1/2, 20: Rc 3/4, 25: Rc 1, 40: Rc 1 1/2)
- Pump size (Output [Frame size])**: 15 (03: 0.37kW (71M), 05: 0.55kW (71M), 07: 0.75kW (80M), 15: 1.5kW (90L), 22: 2.2kW (90L))
- Motor (Frequency)**: 5 (50Hz), 6 (60Hz)
- Motor (Construction)**: W (With Base...For IEC B5 flange mounted motor)
- Option^{Note1} (Oring material)**: F (Fluorine rubber...FKM^{Note3}), V (Silicon rubber...VMQ)
- Option^{Note1} (Others)**: Blank: Standard, P: With casing drain & air vent (Plugged)^{Note4}
- Option^{Note1} (Connection)**: J: Pipe with flange...JIS 10K RF, A: Pipe with flange...ASME 150lb RF

Note1: For standard pump without any options, please keep the optional code blank.
 Note2: The heat-resistance of EPDM(PO) is greater than that of conventional EPDM.
 Note3: The temperature range of FKM O ring is from 0 to 100°C.
 Note4: Plug size : Rc1/8 (1503,2505) Rc1/4 (other models)

Dimensions in mm



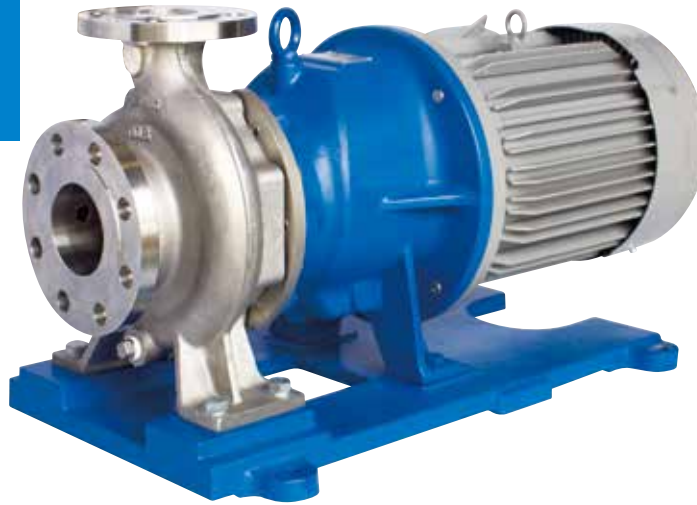
Code	Motor	Bore	Pump & motor											Base plate						Mass (kg)			Fig.					
Type	Size	frame size	Output (kW)	Suction ds	Discharge dd	A	B	C	H	I	LH	ØDM	TB	LM	LL	G	L ₁	L ₂	L ₃	B ₂	B ₃	t		FD	Pump	Motor	Total	
M	1503	W5	71M	0.37	15 (Rc 1/2)	15 (Rc 1/2)	30	72	50	85	65	150	160	142	209	311	88	145	37	90	130	110	4.5	Ø10	4.8	8.0	12.8	1
		W6																										
	2005	W5	71M	0.55	20 (Rc 3/4)	20 (Rc 3/4)	45	77	65	85	80	165	160	151	231	353	108	145	37	90	130	110	4.5	Ø10	6.4	11.0	17.4	
M	2505	W5	71M	0.55	25 (Rc 1)	25 (Rc 1)	35	87	55	85	60	145	160	151	231	353	108	145	37	90	130	110	4.5	Ø10	5.8	11.0	16.8	2
		W6																										
	2007	W5	80M	0.75	20 (Rc 3/4)	20 (Rc 3/4)	45	109	65	110	80	190	200	157	235.5	389.5	80	250	30	190	190	160	6	Ø10	12	13.5	25.5	
		W6																										
	2507	W5	80M	0.75	25 (Rc 1)	25 (Rc 1)	55	114	65	110	80	190	200	157	235.5	404.5	95	250	30	190	190	160	6	Ø10	13	13.5	26.5	
		W6																										
	2515	W5	90L	1.5	25 (Rc 1)	25 (Rc 1)	55	124	65	110	80	190	200	168	273	452	105	250	30	190	190	160	6	Ø10	13	19.5	32.5	
		W6																										
	2515L	W5	90L	1.5	25 (Rc 1)	25 (Rc 1)	60	119	80	110	90	200	200	168	273	452	105	250	30	190	190	160	6	Ø10	14	19.5	33.5	
		W6																										
	2522	W5	90L	2.2	25 (Rc 1)	25 (Rc 1)	60	119	80	110	90	200	200	168	302	481	105	250	30	190	190	160	6	Ø10	14	24	38	
		W6																										
	4007	W5	80M	0.75	40 (Rc 1 1/2)	40 (Rc 1 1/2)	50	124	80	110	100	210	200	157	235.5	409.5	100	250	30	190	190	160	6	Ø10	15	13.5	28.5	
		W6																										
	4015	W5	90L	1.5	40 (Rc 1 1/2)	40 (Rc 1 1/2)	50	134	80	110	100	210	200	168	273	457	110	250	30	190	190	160	6	Ø10	15	19.5	34.5	
W6																												
4022	W5	90L	2.2	40 (Rc 1 1/2)	40 (Rc 1 1/2)	50	134	80	110	100	210	200	168	302	486	110	250	30	190	190	160	6	Ø10	15	24	39		
	W6																											

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

MTFO

Open impeller, Close Coupled Standard Centrifugal Pumps

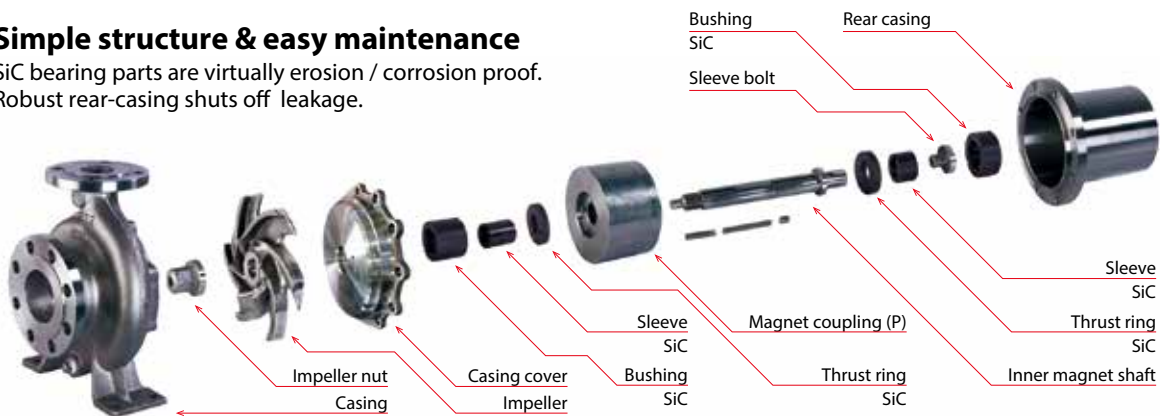
- » Wide range of application. Up to 22kW including 4 pole line up.
- » Back pullout system.
- » Open impeller.
- » Comply with international standard ISO2858.



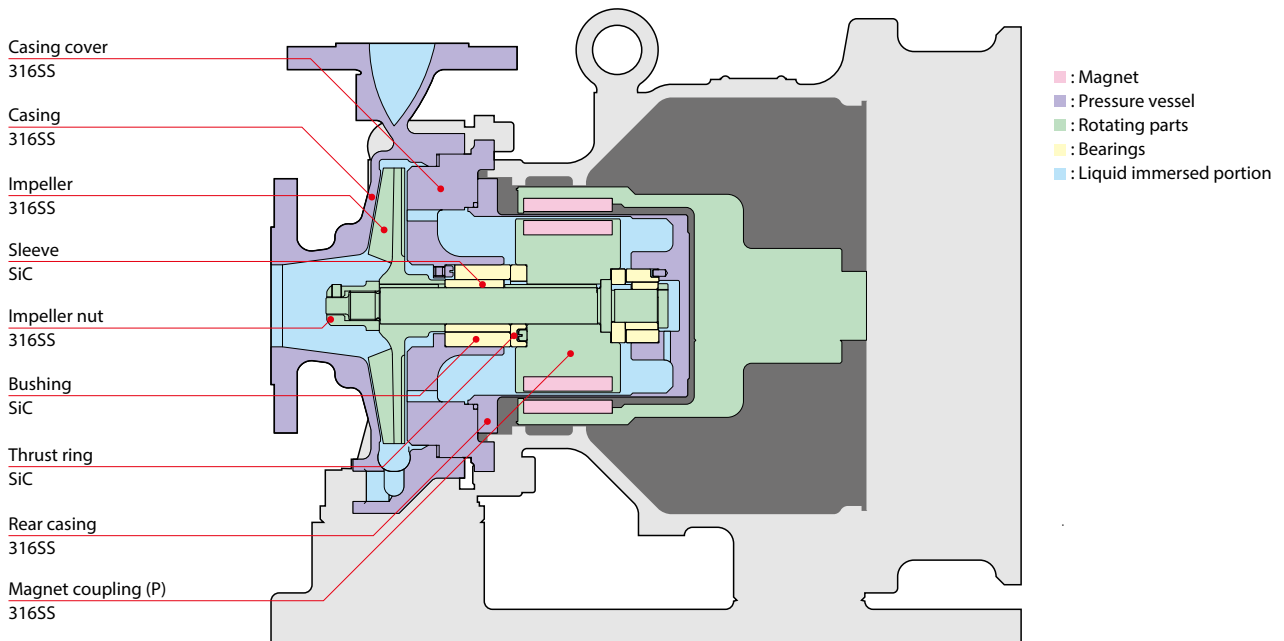
TYPE MTFO
Motor output :
2.2 kW to 22 kW

Simple structure & easy maintenance

SiC bearing parts are virtually erosion / corrosion proof.
 Robust rear-casing shuts off leakage.



Construction and materials

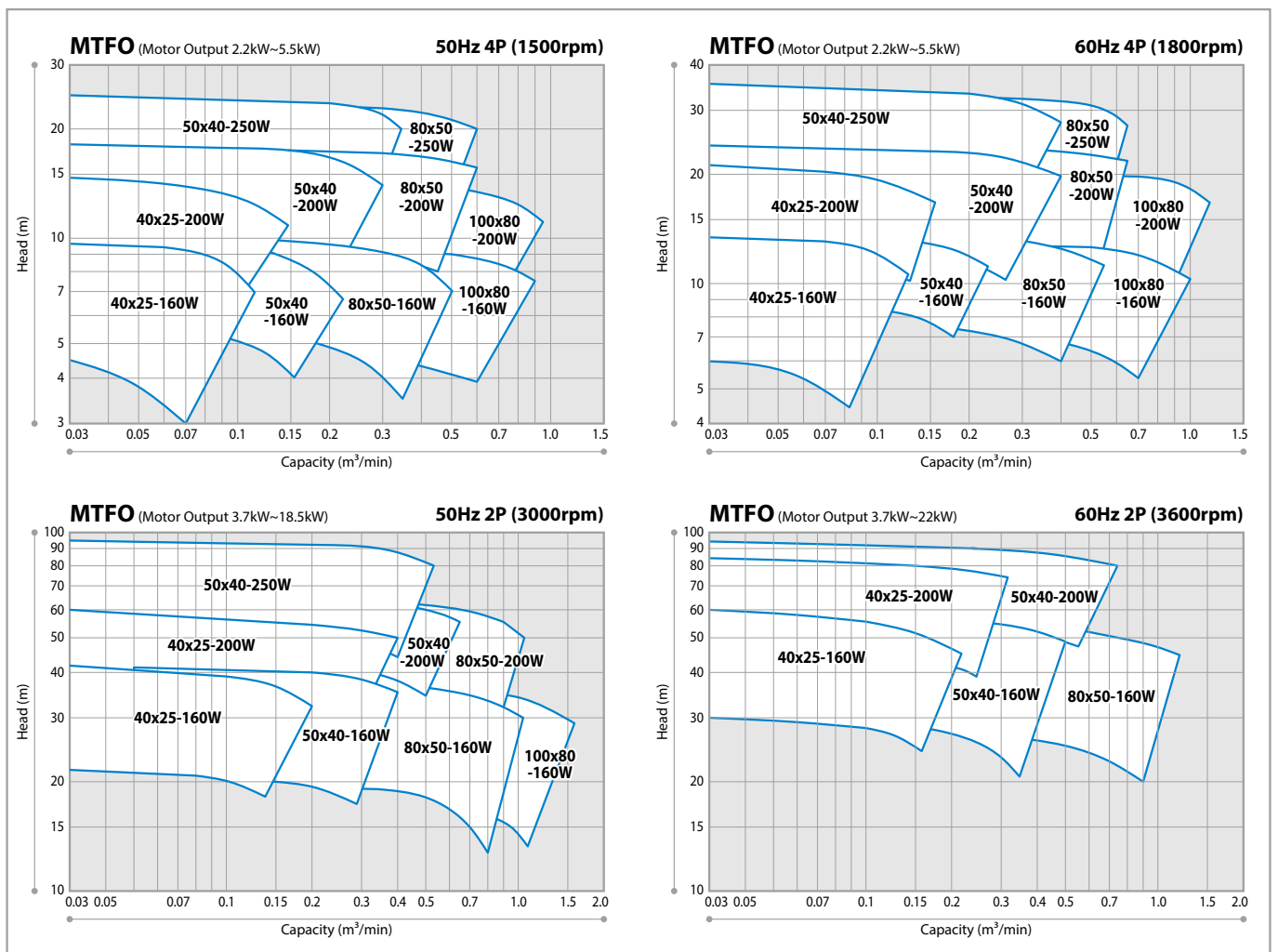


Specifications

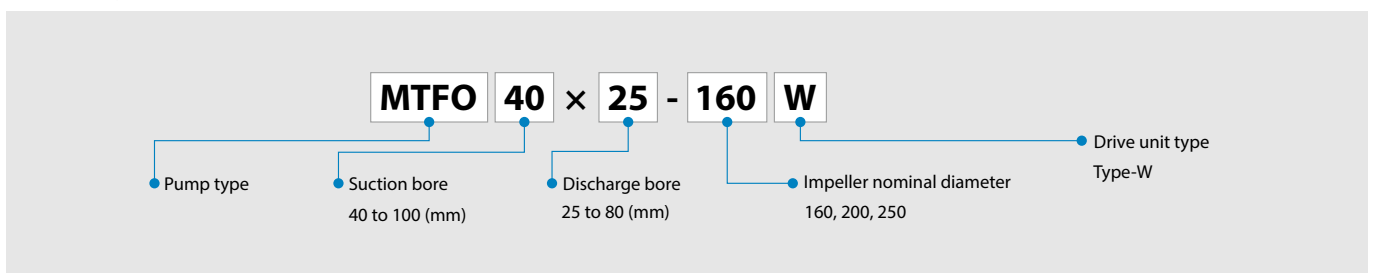
Pump Type	MTFO	
Frequency Hz	50	60
Max. Head m (ft)	80 (262)	85 (279)
Max. Capacity LPM (GPM)	1600 (423)	1200 (317)
Operating Temperature °C (°F)	-80 (-112) to 280 (536) See note below	
Maximum Specific Gravity	2	
Maximum Viscosity (mPa·s,cP)	300	
Design pressure (MPaG)	1.0, 1.2, 1.4	
Flange standard	JIS / ASME flange	
Impeller type	Open	
(Synchronized) rotation speed(rpm)	1500 / 1800 / 3000 / 3600	
Bore (Suction x Discharge) mm	40 x 25 to 100 x 80	
Motor Output kW	2.2 to 22	
Pump Material	Stainless Steel 316	

Note: Below -20°C or above 120°C please contact your dealer/distributor.

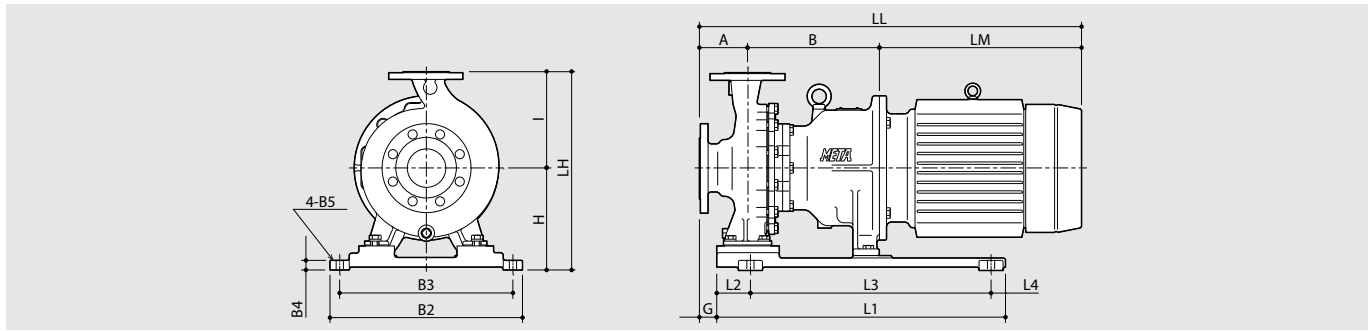
Selection charts



Pump Type Identification



Dimensions in mm



Pump size	Motor frame	Pump						Base plate										Mass (kg)		
		A	B	I	H	LH	G	L ₁	L ₂	L ₃	L ₄	B ₂	B ₃	B ₄	B ₅	LM	LL	Pump	Motor	Total
40x25-160W	112M	80	238	150	210	360	0	600	70	500	30	400	360	20	Ø15	355	673	59	40	99
	132S, 132M	80	258	150	210	360	0	600	70	500	30	400	360	20	Ø15	400	738	66	80	146
	160M, 160L	80	288	150	210	360	0	600	70	500	30	400	360	20	Ø15	485	853	73	110	183
	180M, 180L	80	288	150	310	460	0	600	60	550	50	410	360	16	Ø20	575	943	79	195	274
40x25-200W	112M	80	238	180	210	390	0	600	70	500	30	400	360	20	Ø15	355	673	64	40	104
	132S, 132M	80	258	180	210	390	0	600	70	500	30	400	360	20	Ø15	400	738	71	80	151
	160M, 160L	80	288	180	210	390	0	600	70	500	30	400	360	20	Ø15	485	853	78	110	188
	180M, 180L	80	288	180	310	490	0	660	60	550	50	410	360	16	Ø20	575	943	86	195	281
50x40-160W	112M	80	238	160	210	370	0	600	70	500	30	400	360	20	Ø15	355	673	62	40	102
	132S, 132M	80	258	160	210	370	0	600	70	500	30	400	360	20	Ø15	400	738	70	80	150
	160M, 160L	80	288	160	210	370	0	600	70	500	30	400	360	20	Ø15	485	853	77	110	187
	180M, 180L	80	288	160	310	470	0	660	60	550	50	410	360	16	Ø20	575	943	83	195	278
50x40-200W	112M	80	238	180	210	390	0	600	70	500	30	400	360	20	Ø15	355	673	67	40	107
	132S, 132M	80	258	180	210	390	0	600	70	500	30	400	360	20	Ø15	400	738	75	80	155
	160M, 160L	80	288	180	210	390	0	600	70	500	30	400	360	20	Ø15	485	853	81	110	191
	180M, 180L	80	288	160	310	490	0	660	60	550	50	410	360	16	Ø20	575	943	89	195	284
50x40-250W	112M	100	254	225	210	435	36	600	70	500	30	400	360	20	Ø15	355	709	86	40	126
	132S, 132M	100	274	225	210	435	36	600	70	500	30	400	360	20	Ø15	400	774	94	80	174
	160M, 160L	100	304	225	210	435	36	600	70	500	30	400	360	20	Ø15	485	889	100	110	210
	180M, 180L	100	304	225	310	535	36	660	60	550	50	410	360	16	Ø20	575	979	108	195	303
80x50-160W	112M	100	238	180	210	390	20	600	70	500	30	400	360	20	Ø15	355	693	66	40	106
	132S, 132M	100	258	180	210	390	20	600	70	500	30	400	360	20	Ø15	400	758	74	80	154
	160M, 160L	100	288	180	210	390	20	600	70	500	30	400	360	20	Ø15	485	873	81	110	191
	180M, 180L	100	288	180	310	490	20	660	60	550	50	410	360	16	Ø20	575	963	89	195	284
80x50-200W	112M	100	254	200	210	410	36	600	70	500	30	400	360	20	Ø15	355	709	75	40	115
	132S, 132M	100	274	200	210	410	36	600	70	500	30	400	360	20	Ø15	400	774	82	80	162
	160M, 160L	100	304	200	210	410	36	600	70	500	30	400	360	20	Ø15	485	889	89	110	199
	180M, 180L	100	304	200	310	510	36	660	60	550	50	410	360	16	Ø20	575	979	97	195	292
80x50-250W	112M	125	254	225	210	435	61	600	70	500	30	400	360	20	Ø15	355	734	90	40	130
	132S, 132M	125	274	225	210	435	61	600	70	500	30	400	360	20	Ø15	400	799	98	80	178
	160M, 160L	125	304	225	210	435	61	600	70	500	30	400	360	20	Ø15	485	914	104	110	214
	180M, 180L	125	304	225	310	535	61	660	60	550	50	410	360	16	Ø20	575	1004	112	195	307
100x80-160W	112M	100	254	200	210	410	36	600	70	500	30	400	360	20	Ø15	355	709	80	40	120
	132S, 132M	100	274	200	210	410	36	600	70	500	30	400	360	20	Ø15	400	774	88	80	168
	160M, 160L	100	304	200	210	435	36	600	70	500	30	400	360	20	Ø15	485	889	95	110	205
	180M, 180L	100	304	200	310	510	36	660	60	550	50	410	360	16	Ø20	575	979	103	195	298
100x80-200W	112M	100	254	225	210	435	36	600	70	500	30	400	360	20	Ø15	355	709	79	40	119
	132S, 132M	100	274	225	210	435	36	600	70	500	30	400	360	20	Ø15	400	774	87	80	167
	160M, 160L	100	304	225	210	435	36	600	70	500	30	400	360	20	Ø15	485	889	93	110	203
	180M, 180L	100	304	225	310	535	36	660	60	550	50	410	360	16	Ø20	575	979	101	195	296

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