

(50HZ)

A CATALOGUE FOR MDP & MDP(M) MAGNETIC DRIVE PUMP

-  Food & Beverage
-  Mining
-  Paints & Dyes
-  Petrochemical
-  Pharmaceutical
-  Pulp & Paper
-  Power & Energy
-  Water Treatment

**1 Full Year
Factory
Warranty**



SIKO PUMP, specialized chemical handing pump manufacturer (www.sikopump.com)
metering pump, magnetic driving pump, diaphragm pump, bellows pump, rotary pump... ..

Design Features

No Shaft seal

--- This MDP magnetic drive pump uses the magnetic drive method, eliminating problems caused by liquid leakage, so it is 100 % No leakage

Easy Maintenance

--- The pump assembly consists of only a few unified simple parts. Therefore maintenance, disassembling and inspection are very easy to perform.

Compact Size

--- Consisting of several unitized parts, with both thread and tube connection available, it only a very small space for installation and maintenance

Chemical Resistance

--- Using superior corrosion resistant parts manufactured from PP, ceramics, PTFE, and FKM. Therefore, they can be used to transfer strong acids and various other chemicals

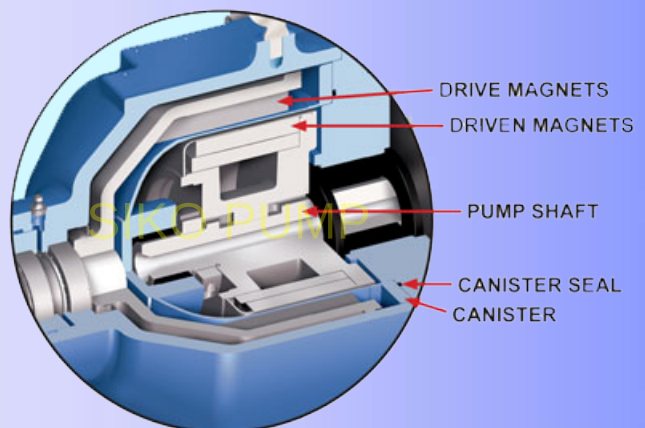
**100%
No Leakage**



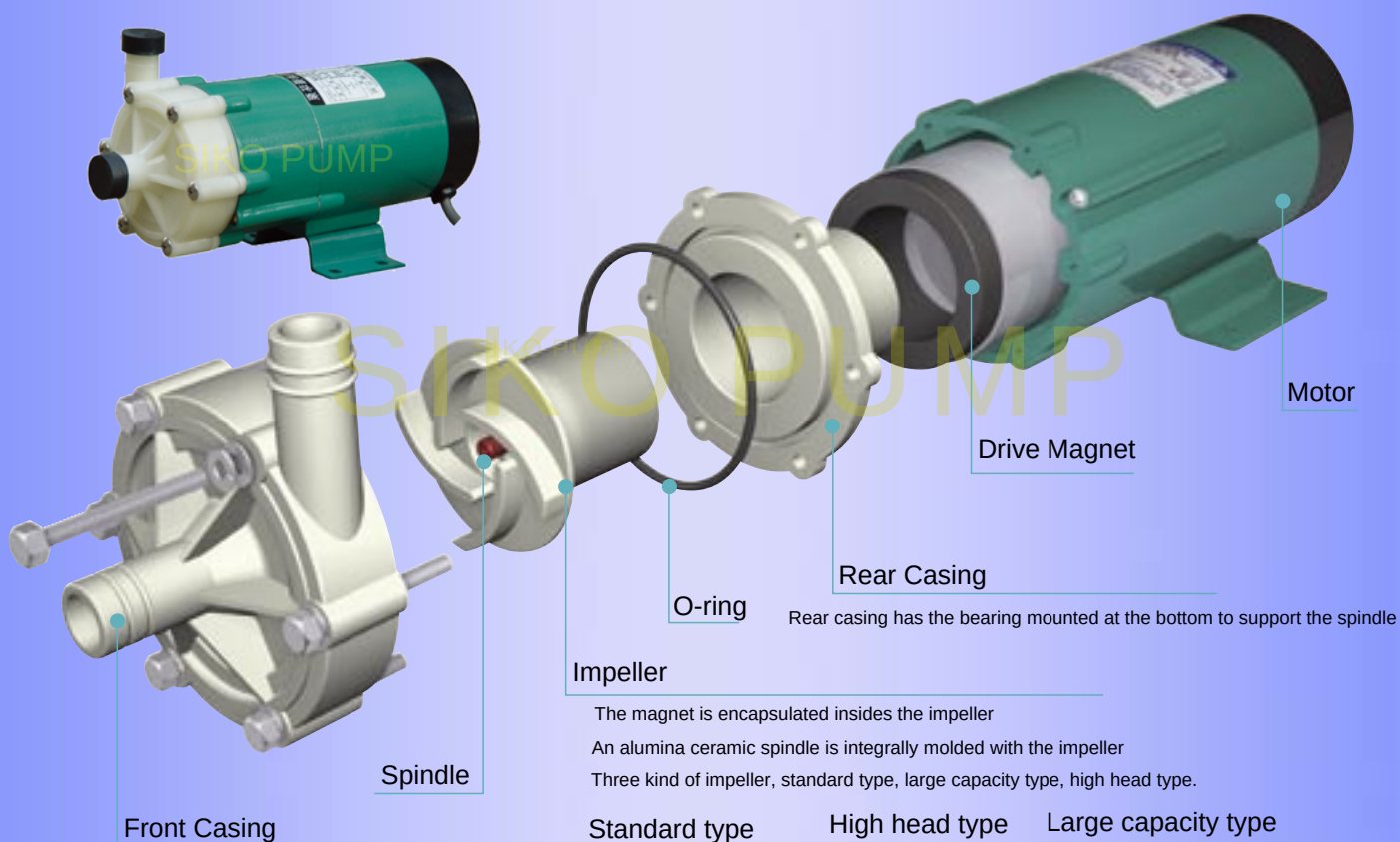
- Max Capacity range:
50Hz 8 L/min to 380L/min
60Hz 9 L/min to 220L/min
- Max Head range:
50Hz 1 m to 22m
60Hz 1.4 m to 14m
- Size connection range:
thread type 0.75 inch to 2 inch
tube type 14 mm to 26mm
- Power range 3 w to 2200 w
- Temperature 0 to 80 degree
- Specific gravity, lower than 1.3
- Max viscosity 30mpa.s(at 1 S.G.)

Principle

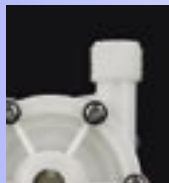
The centrifugal pump is driven by a pair of magnets which are incorporated in the impeller and motor shaft. The seal-less pump structure eliminates shaft seals such as conventional mechanical seals, because the pump chamber is shielded by the casings and the impeller is operated by the magnets. The combined coupling torque of the drive magnet and impeller magnet gives sufficient driving power against the motor torque.



Structure and Material



Hose or threaded connections available



Standard type



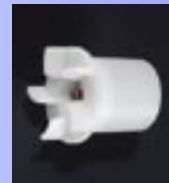
High head type

"H" in the model



Large capacity type

"L" in the model



CFRPP type



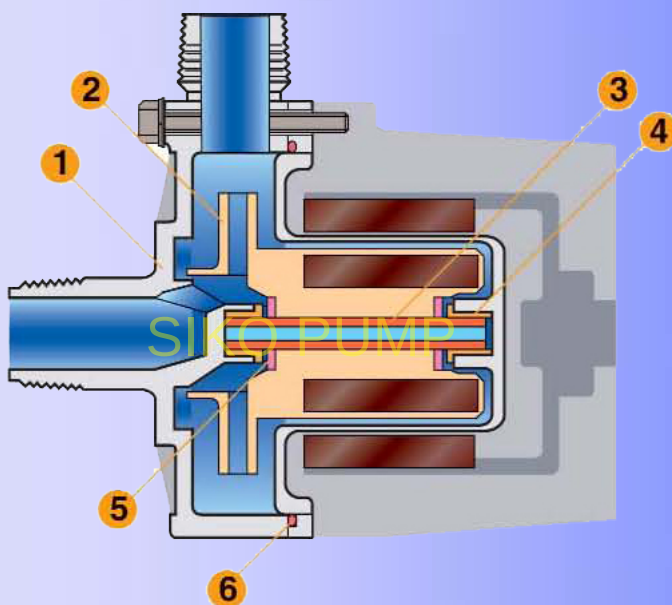
PTFE type



	Part	Polypropylene	Fluoroplastic
1	Casing	CFRPP	PTFE
2	Impeller	CFRPP	PTFE
3	Spindle	Alumina ceramic	Silicon carbide
4	Bearing	PTFE	Silicon carbide
5	Thrust ring	Alumina ceramic	Silicon carbide
6	O-ring	FKEM or EPDM	FKM

CFRPP--- Carbon Fiber Reinforced Polypropylene
PTFE---Polytetrafluoroethene(Teflon)

Our standard pump material is CFRPP type



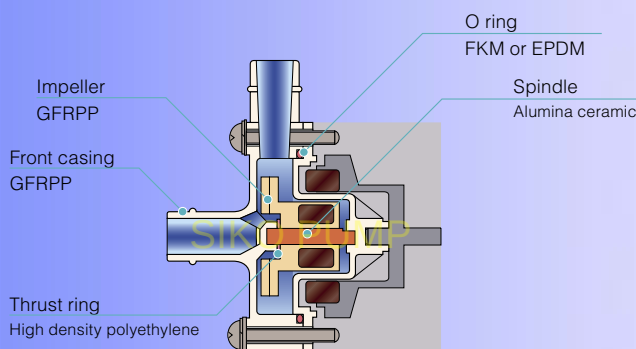
MDP-6,MDP-6H,MDP-10

Capacity range: 8L/min to 11 L/min, Head range: 1 m to 2.1m

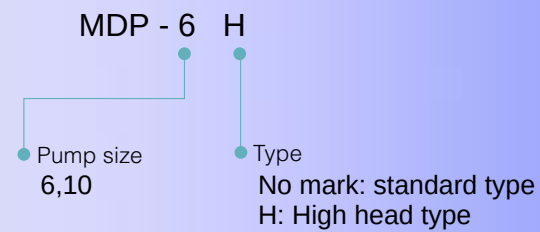
Model	Tube type(mm)		Thread type		Max. Cap	Max Head	Cap.	Head	S.G	Power	Phase	N.W
	inlet	Outlet	inch	mm	L/min(GPM)	M(FT)	L/min(GPM)	M(FT)		w		kg
MDP-6	14	14			8(2.11)	1(3.28)	2.8(0.74)	0.8(2.62)	1.2	3	1	1.5
MDP-6H	14	14			5.5(1.45)	2.1(6.89)	3.2(0.85)	0.8(2.62)	1.1	3	1	1.5
MDP-10	14	14			11(2.91)	1.5(4.92)	5(1.32)	1(3.28)	1.1	6	1	1.5

- Temperature range: 0 to 80 degree; Limit of viscosity: 30mPa.s(at 1 S.G); Ambient temperature: 0 to 40 degree
- Packing condition: 20 pcs in 1 carton box for both MDP-6 and MDP-10, carton box size: 540*350*250(mm), Gross weight: 34kg.

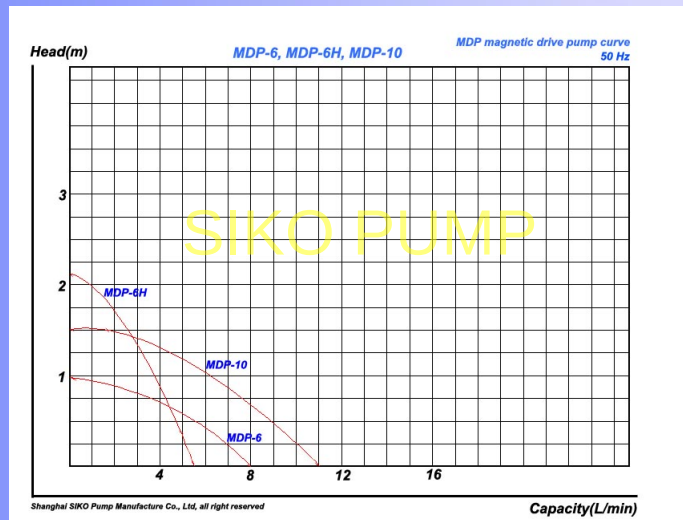
Construction and Materials



Pump Identification

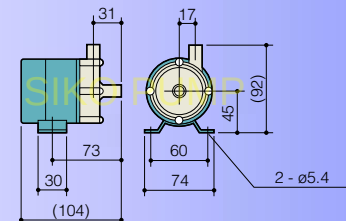


Performance curve

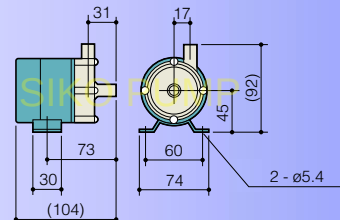


Pump dimension size(mm)

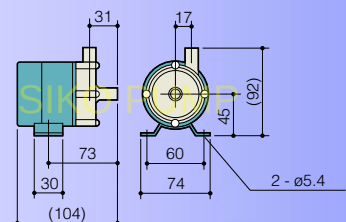
MDP-6



MDP-6H



MDP-10



MDP-6(H)



MDP-10



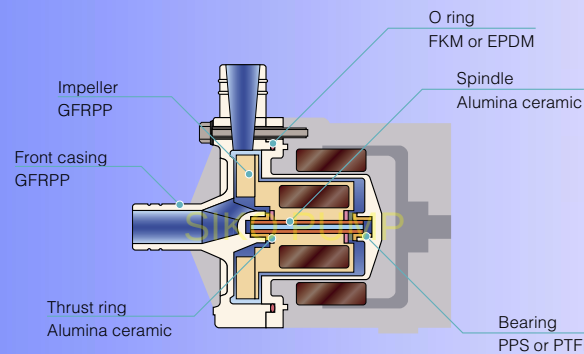
MDP-15(M),MDP-20(M),MDP-20L(M),MDP-20H(M)

Capacity range: 16L/min to 46 L/min, Head range: 1.8 m to 4.6 m

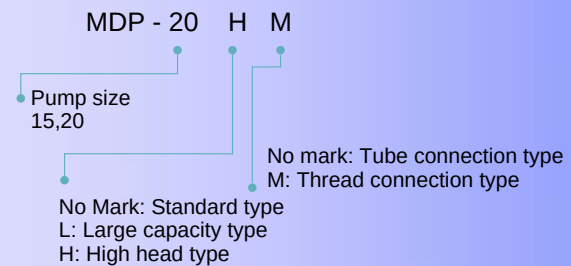
Model	Tube type(mm)		Thread type		Max. Cap	Max Head	Cap.	Head	S.G	Power	Phase	N.W
	inlet	Outlet	inch	mm	L/min(GPM)	M(FT)	L/min(GPM)	M(FT)		w		kg
MDP-15	16	16			16(4.23)	2.7(8.86)	8(2.11)	1.5(4.92)	1.3	10	1	1.8
MDP-15M			0.75	13	16(4.23)	2.4(7.87)	8(2.11)	1.5(4.92)	1.3	10	1	1.8
MDP-20	18	18			27(7.13)	3.1(10.17)	17(4.49)	2(6.56)	1.2	20	1	2.5
MDP-20M			0.75	16	27(7.13)	3.1(10.17)	17(4.49)	2(6.56)	1.2	20	1	2.5
MDP-20L	26	26			46(12.15)	1.8(5.91)	30(7.93)	1(3.28)	1.3	20	1	2.5
MDP-20LM			1	20	46(12.15)	1.8(5.91)	30(7.93)	1(3.28)	1.3	20	1	2.5
MDP-20H	18	18			10(2.64)	4.6(15.09)	7(1.85)	4(13.12)	1.1	20	1	2.5
MDP-20HM			0.75	13	10(2.64)	4.6(15.09)	7(1.85)	4(13.12)	1.1	20	1	2.5

- Temperature range: 0 to 80 degree; Limit of viscosity: 30mPa.s(at 1 S.G); Ambient temperature: 0 to 40 degree
- Packing condition: 10 pcs in 1 carton box for both MDP-15,20, carton box size: 700*360*280 (mm), G/W: 20kg(MDP-15) 28kg(MDP-20).

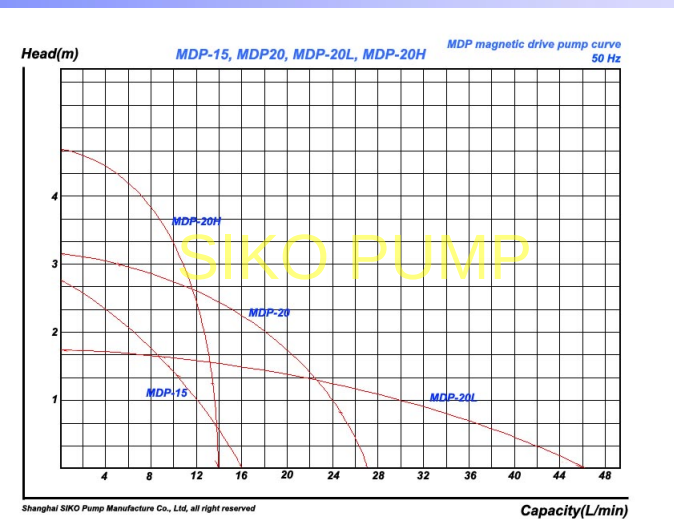
Construction and Materials



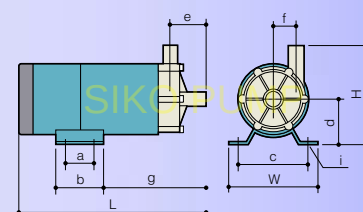
Pump Identification



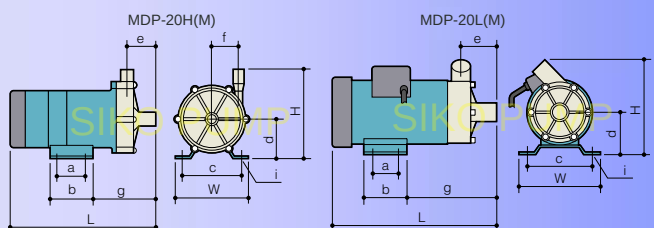
Performance curve



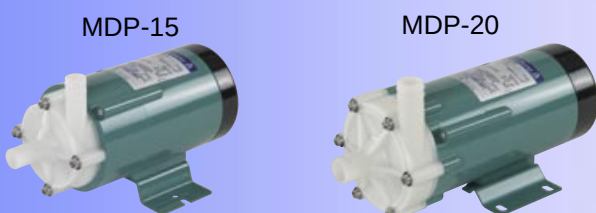
Pump dimension size(mm)



Model	W	H	L	a	b	c	d	e	f	g	i
MDP-15(M)	95	109 (114)	180 (179)	-	50	68	55	39	22	92	2 - ø5.6
MDP-20(M)	106	105 (107)	209 (203)	44	60	90	45	39 (33)	29	94 (88)	4 - 6x10



Model	W	H	L	a	b	c	d	e	f	g	i
MDP-20H(M)	106	125	211	44	60	90	55	40	39	98	4 - 6x10
MDP-20L(M)	106	119 (122)	220	44	60	90	45	47		105	4 - 6x10



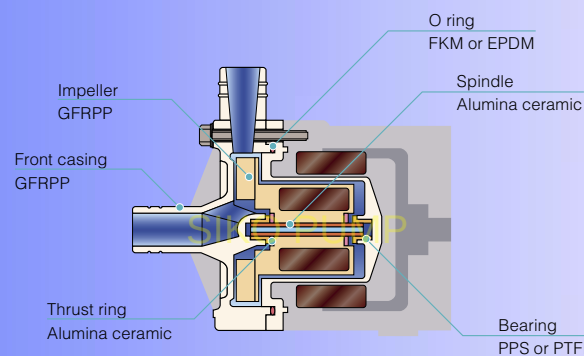
MDP-30(M),MDP-30L(M) ,MDP-30H(M),MDP-40(M),MDP-40L(M)

Capacity range: 15L/min to 75 L/min, Head range: 2.9 m to 8m

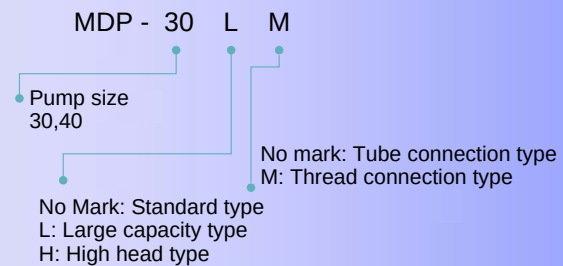
Model	Tube type(mm)		Thread type		Max. Cap	Max Head	Cap.	Head	S.G	Power	Phase	N.W
	inlet	Outlet	inch	mm	L/min(GPM)	M(FT)	L/min(GPM)	M(FT)		w		kg
MDP-30	20	20			33(8.72)	3.8(12.47)	16(4.23)	2.5(8.20)	1.3	45	1	3.2
MDP-30M			0.75	16	33(8.72)	3.8(12.47)	16(4.23)	2.5(8.20)	1.3	45	1	3.2
MDP-30L	26	26			62(16.38)	2.9(9.51)	32(8.45)	2(6.56)	1.1	45	1	3.2
MDP-30LM			1	20	62(16.38)	2.9(9.51)	32(8.45)	2(6.56)	1.1	45	1	3.2
MDP-30H	18	18			15(3.96)	8(26.25)	10(2.64)	6(19.68)	1.1	45	1	3.2
MDP-30HM			0.75	13	15(3.96)	8(26.25)	10(2.64)	6(19.68)	1.1	45	1	3.2
MDP-40	20	20			45(11.89)	4.6(15.09)	22(5.81)	4(13.12)	1.1	65	1	4.5
MDP-40M			0.75	16	45(11.89)	4.6(15.09)	22(5.81)	4(13.12)	1.1	65	1	4.5
MDP-40L	28	26			75(19.81)	3.3(10.83)	47(12.42)	2(6.56)	1.1	65	1	4.5
MDP-40LM			1	20	75(19.81)	3.3(10.83)	47(12.42)	2(6.56)	1.1	65	1	4.5

- Temperature range: 0 to 80 degree; Limit of viscosity: 30mPa.s(at 1 S.G); Ambient temperature: 0 to 40 degree
- Packing condition: 4 pcs in 1 carton box for both MDP-30/40, carton box size: 450*340*440(mm), Gross weight: 14kg and 20 kg.

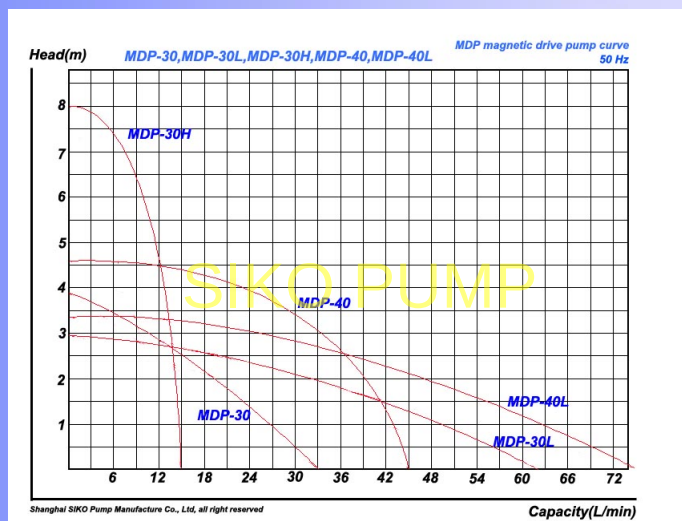
Construction and Materials



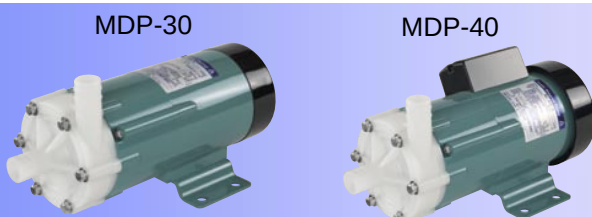
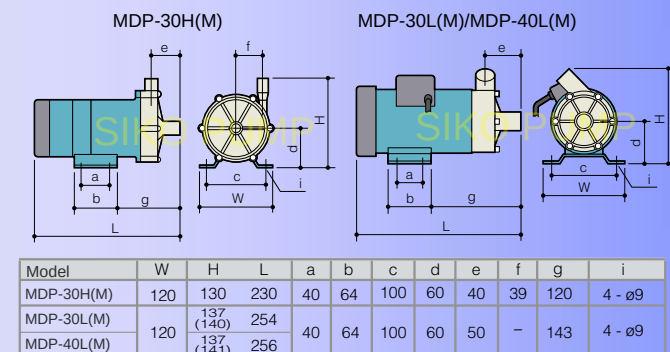
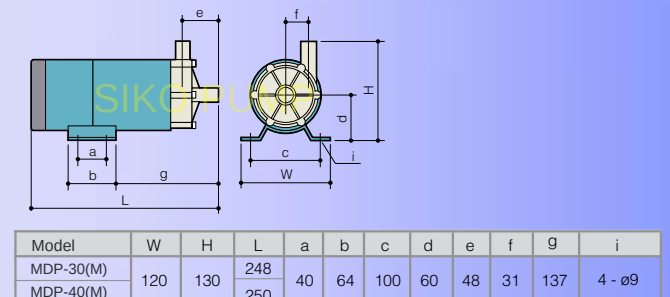
Pump Identification



Performance curve



Pump dimension size(mm)



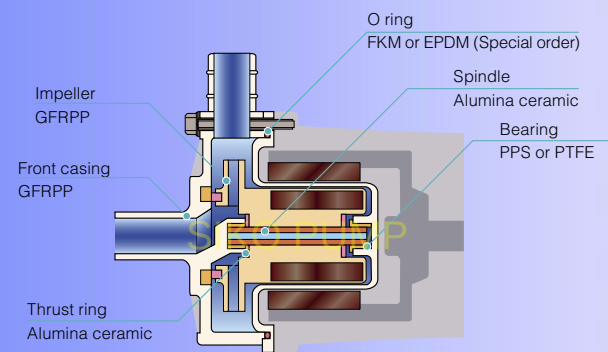
MDP-55(M),MDP-55H(M) ,MDP-70(M)

Capacity range: 25L/min to 86 L/min, Head range: 5.6m to 10m

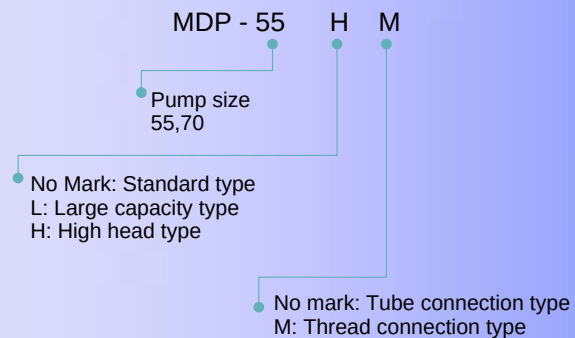
Model	Tube type(mm)		Thread type		Max. Cap	Max Head	Cap.	Head	S.G	Power	Phase	N.W
	inlet	Outlet	inch	mm	L/min(GPM)	M(FT)	L/min(GPM)	M(FT)		w		kg
MDP-55	26	26			60(15.85)	5.6(18.37)	30(7.93)	4(13.12)	1.2	90	1 or 3	6.8
MDP-55M			1	20	60(15.85)	5.6(18.37)	30(7.93)	4(13.12)	1.2	90	1 or 3	6.8
MDP-55H	26	26			25(6.60)	10(32.81)	15(3.96)	8(26.25)	1.1	90	1 or 3	6.8
MDP-55HM			1	20	25(6.60)	10(32.81)	15(3.96)	8(26.25)	1.1	90	1 or 3	6.8
MDP-70	26	26			86(22.72)	6.7(21.98)	50(13.21)	4(13.12)	1.1	150	1 or 3	7.7
MDP-70M			1	20	86(22.72)	6.7(21.98)	50(13.21)	4(13.12)	1.1	150	1 or 3	7.7

- Temperature range: 0 to 80 degree; Limit of viscosity: 30mPa.s(at 1 S.G); Ambient temperature: 0 to 40 degree
- Packing condition: 1 pcs in 1 carton box for both MDP-55/70, carton box size: 330*250*240 (mm), Gross weight: 7.5kg and 8.5kg.

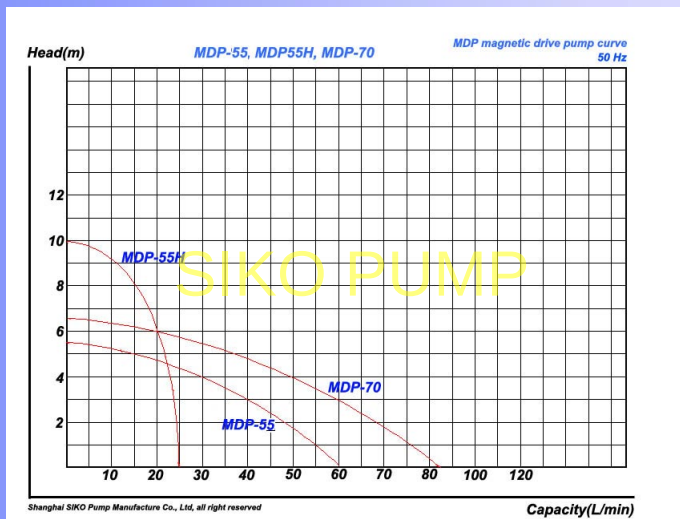
Construction and Materials



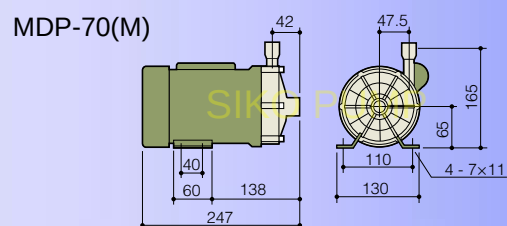
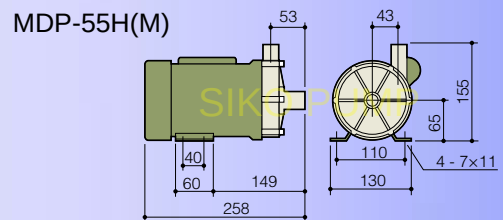
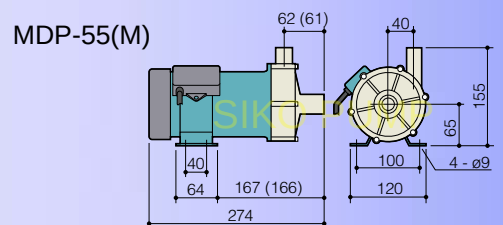
Pump Identification



Performance curve

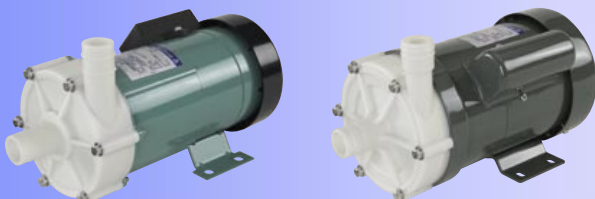


Pump dimension size(mm)



MDP-55

MDP-70



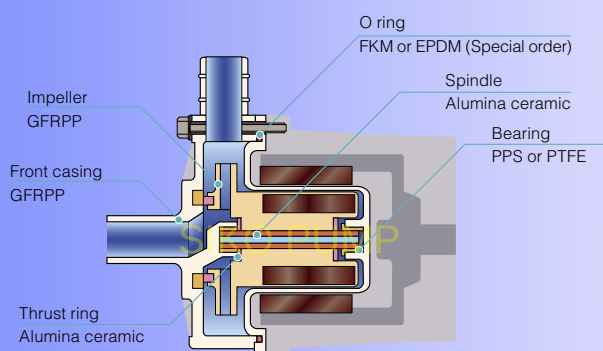
MDP-100(M),MDP-100L ,MDP-120M

Capacity range: 120L/min to 220 L/min, Head range: 8.6m to 10.5m

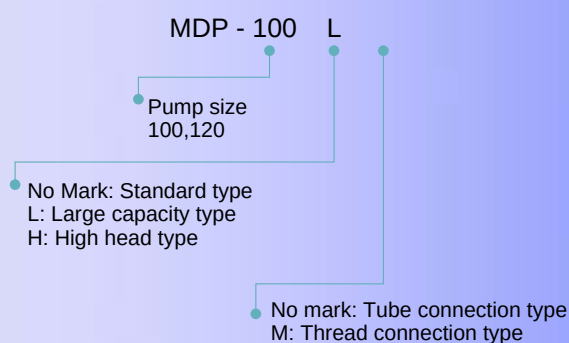
Model	Tube type(mm)		Thread type		Max. Cap	Max Head	Cap.	Head	S.G	Power	Phase	N.W
	inlet	Outlet	inch	mm	L/min(GPM)	M(FT)	L/min(GPM)	M(FT)		w		kg
MDP-100	26	26			120(31.70)	8.6(28.21)	60(15.85)	7(22.97)	1.3	150	1 or 3	8.9
MDP-100M			1	20	120(31.70)	8.6(28.21)	60(15.85)	7(22.97)	1.3	250	1 or 3	8.9
MDP-100L			1.25	32	170(44.91)	9(29.53)	100(26.42)	5(16.40)	1.3	250	1 or 3	8.9
MDP-120M			1.5	36	220(58.12)	10.5(34.45)	140(36.98)	6(19.68)	1.3	370	1 or 3	9.5

- Temperature range: 0 to 80 degree; Limit of viscosity: 30mPa.s(at 1 S.G); Ambient temperature: 0 to 40 degree
- Packing condition: 1 pcs in 1 carton box for both MDP-100/120, carton box size: 430*220*300(mm), Gross weight: 9.5 and 10.5kg.

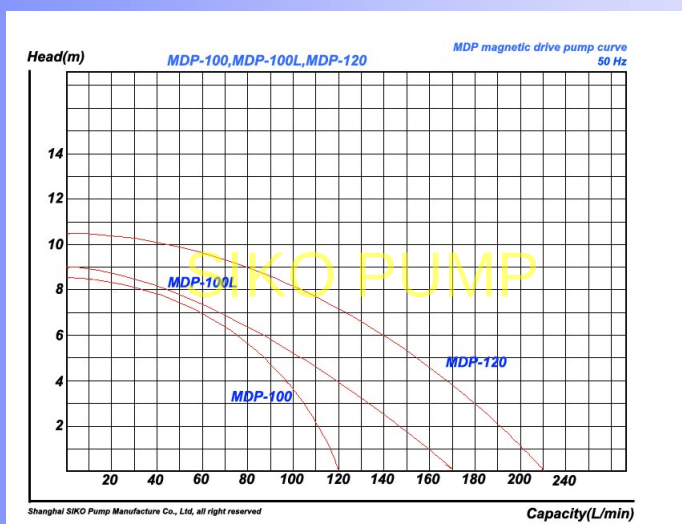
Construction and Materials



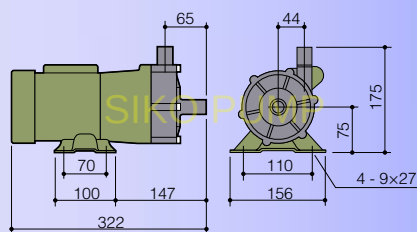
Pump Identification



Performance curve



MDP-100(M),MDP-100L,MDP120M



MDP-100/120



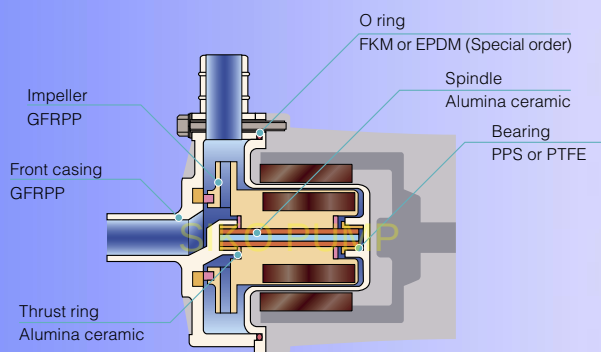
MDP-400M,MDP-401M,MDP-422M,MDP-423M

Capacity range: 220L/min to 380 L/min, Head range: 12m to 22m

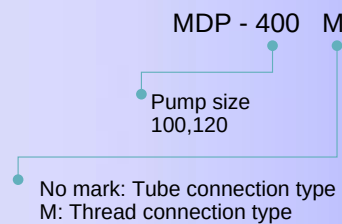
Model	Tube type(mm)		Thread type		Max. Cap	Max Head	Cap.	Head	S.G	Power	Phase	N.W
	inlet	Outlet	inch	mm	L/min(GPM)	M(FT)	L/min(GPM)	M(FT)		w		kg
MDP-400M			1.5	36	220(58.12)	12.5(41.01)	150(39.63)	8(26.25)	1.3	400	3	15
MDP-401M			1.5	36	260(68.68)	18(59.05)	120(31.70)	12(39.37)	1.3	750	3	15
MDP-422M			2		320(84.54)	21(68.90)	160(42.27)	18(59.05)	1.3	2200	1 or 3	18
MDP-423M			2		380(100.39)	22(72.18)	230(60.76)	18(59.05)	1.3	2200	1 or 3	18

- Temperature range: 0 to 80 degree; Limit of viscosity: 30mPa.s(at 1 S.G); Ambient temperature: 0 to 40 degree
- Packing condition: 1 pcs in 1 carton box for both MDP-400 to 423, carton box size: 460*220*300/610*320*310 (mm), G/W: 17kg and 20kg.

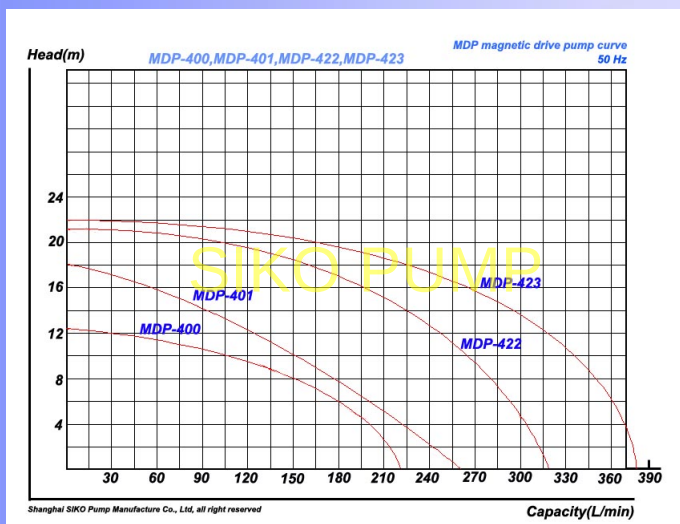
Construction and Materials



Pump Identification

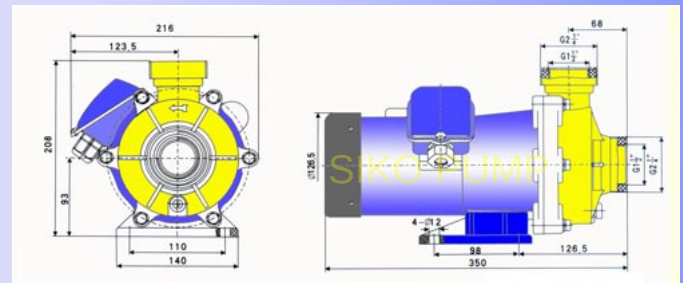


Performance curve

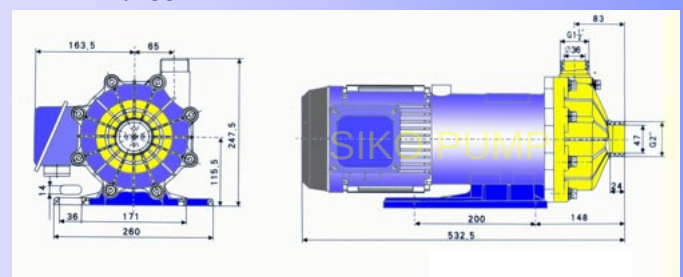


Pump dimension size(mm)

MDP-400/401M



MDP-422/433M



MDP-422/433M

MDP-400/401M



MDP Pump Specification (All model together for 50HZ type pump)

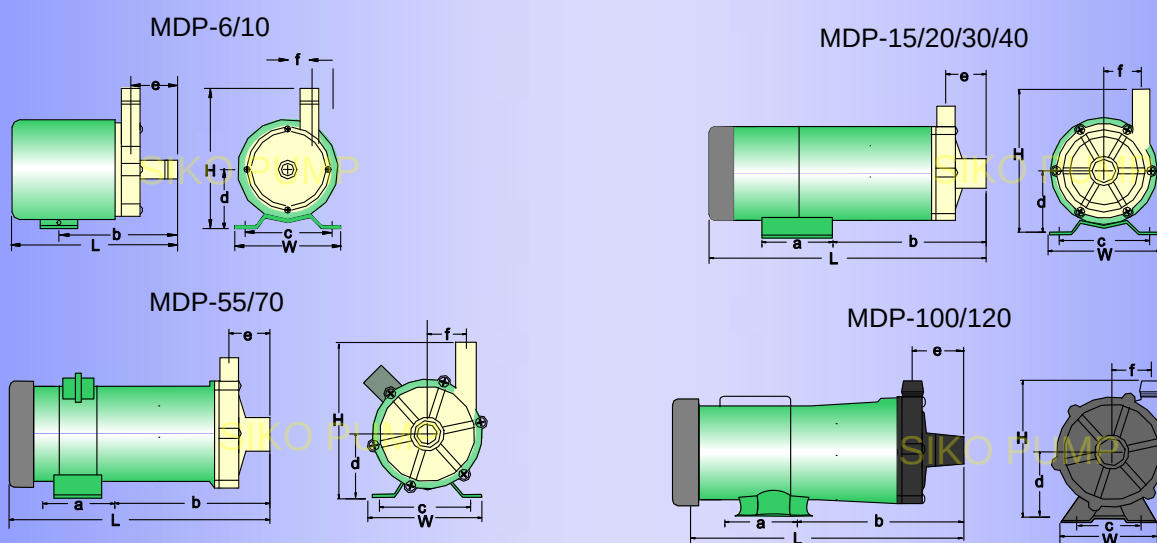
Model	Tube type		Thread type		Max. Cap	Max Head	Cap.	Head	S.G	Power W	Phase	N/W
	(mm)	(mm)	inch	mm	L/min(GPM)	M(FT)	L/min(GPM)	M(FT)				kg
MDP-6	14	14			8(2.11)	1(3.28)	2.8(0.74)	0.8(2.62)	1.2	3	1	1.5
MDP-6H	14	14			5.5(1.45)	2.1(6.89)	3.2(0.85)	0.8(2.62)	1.1	3	1	1.5
MDP-10	14	14			11(2.91)	1.5(4.92)	5(1.32)	1(3.28)	1.1	6	1	1.6
MDP-15	16	16			16(4.23)	2.7(8.86)	8(2.11)	1.5(4.92)	1.3	10	1	1.8
MDP-15M			0.75	13	16(4.23)	2.4(7.87)	8(2.11)	1.5(4.92)	1.3	10	1	2.8
MDP-20	18	18			27(7.13)	3.1(10.17)	17(4.49)	2(6.56)	1.2	20	1	2.5
MDP-20M			0.75	16	27(7.13)	3.1(10.17)	17(4.49)	2(6.56)	1.2	20	1	2.5
MDP-20L	26	26			46(12.15)	1.8(5.91)	30(7.93)	1(3.28)	1.3	20	1	2.5
MDP-20LM			1	20	46(12.15)	1.8(5.91)	30(7.93)	1(3.28)	1.3	20	1	2.5
MDP-20H	18	18			10(2.64)	4.6(15.09)	7(1.85)	4(13.12)	1.1	20	1	2.5
MDP-20HM			0.75	13	10(2.64)	4.6(15.09)	7(1.85)	4(13.12)	1.1	20	1	2.5
MDP-30	20	20			33(8.72)	3.8(12.47)	16(4.23)	2.5(8.20)	1.3	45	1	3.2
MDP-30M			0.75	16	33(8.72)	3.8(12.47)	16(4.23)	2.5(8.20)	1.3	45	1	3.2
MDP-30L	26	26			62(16.38)	2.9(9.51)	32(8.45)	2(6.56)	1.1	45	1	3.2
MDP-30LM			1	20	62(16.38)	2.9(9.51)	32(8.45)	2(6.56)	1.1	45	1	3.2
MDP-30H	18	18			15(3.96)	8(26.25)	10(2.64)	6(19.68)	1.1	45	1	3.2
MDP-30HM			0.75	13	15(3.96)	8(26.25)	10(2.64)	6(19.68)	1.1	45	1	3.2
MDP-40	20	20			45(11.89)	4.6(15.09)	22(5.81)	4(13.12)	1.1	65	1	4.5
MDP-40M			0.75	16	45(11.89)	4.6(15.09)	22(5.81)	4(13.12)	1.1	65	1	4.5
MDP-40L	28	26			75(19.81)	3.3(10.83)	47(12.42)	2(6.56)	1.1	65	1	4.5
MDP-40LM			1	20	75(19.81)	3.3(10.83)	47(12.42)	2(6.56)	1.1	65	1	4.5
MDP-55	26	26			60(15.85)	5.6(18.37)	30(7.93)	4(13.12)	1.2	90	1 or 3	6.8
MDP-55M			1	20	60(15.85)	5.6(18.37)	30(7.93)	4(13.12)	1.2	90	1 or 3	6.8
MDP-55H	26	26			25(6.60)	10(32.81)	15(3.96)	8(26.25)	1.1	90	1 or 3	6.8
MDP-55HM			1	20	25(6.60)	10(32.81)	15(3.96)	8(26.25)	1.1	90	1 or 3	6.8
MDP-70	26	26			86(22.72)	6.7(21.98)	50(13.21)	4(13.12)	1.1	150	1 or 3	7.7
MDP-70M			1	20	86(22.72)	6.7(21.98)	50(13.21)	4(13.12)	1.1	150	1 or 3	7.7
MDP-100	26	26			120(31.70)	8.6(28.21)	60(15.85)	7(22.97)	1.3	150	1 or 3	8.9
MDP-100M			1	20	120(31.70)	8.6(28.21)	60(15.85)	7(22.97)	1.3	250	1 or 3	8.9
MDP-100L			1.25	32	170(44.91)	9(29.53)	100(26.42)	5(16.40)	1.3	250	1 or 3	8.9
MDP-120M			1.5	36	220(58.12)	10.5(34.45)	140(36.98)	6(19.68)	1.3	370	1 or 3	9.5
MDP-400			1.5	36	220(58.12)	12.5(41.01)	150(39.63)	8(26.25)	1.3	400	3	15
MDP-401			1.5	36	260(68.68)	18(59.05)	120(31.70)	12(39.37)	1.3	750	3	15
MDP-422			2		320(84.54)	21(68.90)	160(42.27)	18(59.05)	1.3	2200	1 or 3	18
MDP-423			2		380(100.39)	22(72.18)	230(60.76)	18(59.05)	1.3	2200	1 or 3	18

Model meaning: MDP---magnetic drive pump.

"M"—thread type (without is tube type)

"L"—large capacity, type, "H"—high head type.(without L or H is a common pump type)

MDP Pump Dimension(mm)



Model	Connections		W	H	L	a	b	C	d	e	f
	Hose(mm)	Thread(inch)									
MDP-6	14		2.91	3.62	4.09	1.18	2.87	2.36	1.77	1.22	0.67
MDP-6H	14		2.95	3.62	4.12	1.2	2.87	2.36	1.77	1.22	0.67
MDP-10	14		2.91	3.62	4.09	1.18	2.87	2.36	1.77	1.22	0.67
MDP-15(M)	16	0.75	3.74	4.39	7.05	1.97	4.59	3.35	2.17	1.52	0.85
MDP-20(M)	18	0.75	4.17	4.19	7.99	1.73	4.06	3.54	1.77	1.3	1.12
MDP-20L(M)	26	1	4.17	4.75	8.66	1.73	4.45	3.54	1.74	1.83	40+
MDP-20H(M)	18	0.75	4.17	4.92	8.31	1.73	4.17	3.54	2.17	1.56	1.52
MDP-30(M)	20	0.75	4.72	5.12	9.76	1.57	5.87	3.94	2.36	1.89	1.22
MDP-30L(M)	26	1	4.72	5.51	10	1.57	6.1	3.94	2.36	1.97	40+
MDP-30H(M)	18	0.75	4.72	5.12	9.05	1.57	5.16	3.94	2.36	1.56	1.53
MDP-40(M)	20	0.75	4.72	5.12	9.85	1.57	5.87	3.94	2.36	1.89	1.22
MDP-40L(M)	26	1	4.72	5.51	10.08	1.57	6.1	3.94	2.36	1.97	43+
MDP-55(M)	26	1	4.72	6.1	10.77	1.57	7.05	3.94	2.56	2.42	1.57
MDP-55H(M)	26	1	4.7	6.11	10.75	1.57	7.05	3.94	2.56	2.42	1.57
MDP-70(M)	26	1	5.63	6.11	10.18	2.76	5.71	4.25	2.56	2.07	1.7
MDP-100(M)	26	1	6.14	6.89	12.67	2.76	6.38	4.33	2.95	2.55	1.71
MDP-100LM		1.25	6.14	6.9	12.67	2.78	6.38	4.33	2.95	2.55	1.7
MDP-120M		1.5	6.5	7.12	13.5	2.8	6.4	4.35	2.95	3	1.8

Refer to MDP-400,401,422,423 pump size in the pump specification

Standard Pump Packing condition:(for all the pump model include the thread type, large capacity type and high head type)

MDP-6/10, 20 pcs in one carton box, size: 540*350*250(mm), gross weight: 32kg

MDP-15/20, 10 pcs in one carton box, size: 700*360*280(mm), gross weight: 20kg for MDP-15, 27kg for MDP-20

MDP-30/40, 4 pcs in one carton box, size: 450*340*440 (mm), gross weight: 14kg for MDP-30, 20kg for MDP-40

MDP-55/70, 1 pcs in one carton box, size: 330*250*240(mm), gross weight: 7.5kg for MDP-55, 8.2kg for MDP-70

MDP-100/120, 1 pcs in one carton box, size: 400*240*260(mm), gross weight: 9.2kg for MDP-100, 10kg for MDP-120

MDP-400/401, 1 pcs in one carton box, size: 460*220*300(mm), gross weight: 16kg

MDP-422/423, 1 pcs in one carton box, size: 610*320*310(mm), gross weight: 19kg



SIKO PUMP, specialized chemical handing pump manufacturer.

Metering pump, magnetic driving pump, diaphragm pump, bellows pump, rotary pump and so on

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The company reserves the right to make alteration from time to time and equipment will maybe differ from that detailed in this brochure.