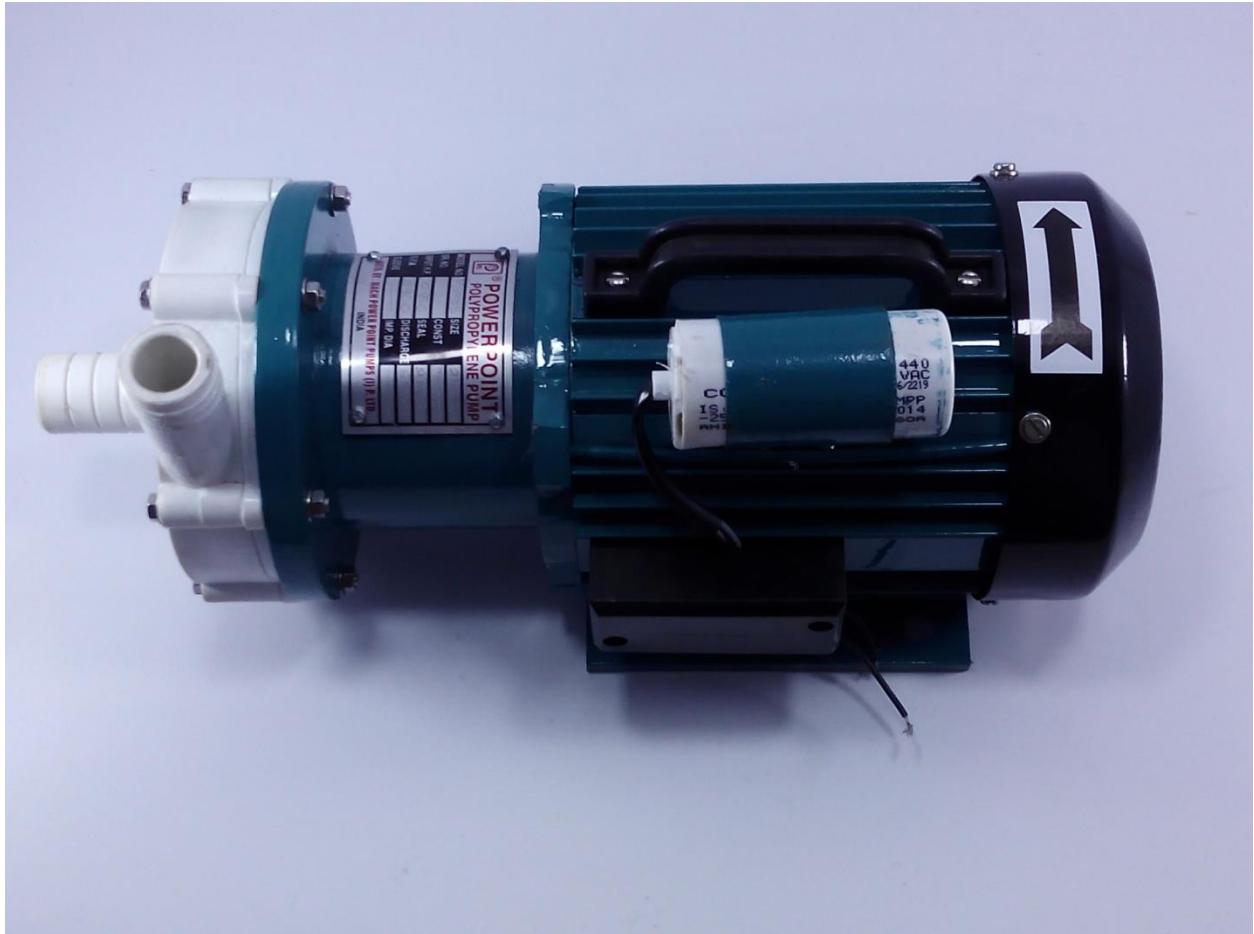


## MAGNETIC DRIVE ACID TRANSFER PUMPS



- **ABOUT MAGNETIC PUMPS:-** magnetic drive design eliminates the conventional method of shaft coupling. Hence the pump casing is fully sealed from drive end which gives away the use of conventional sealing system. There is no seal used and hence no troublesome seal repairing and replacement, leaking and production lost. Impeller and drive magnet are permanent rare earth magnets. They prevent slippage and ensure that full motor horsepower is converted into pumping power.
- All pumps are rated for continuous duty with class “E” insulation.
  - All pump[s] are centrifugal sei- open impeller type pumps and need priming before start.
  - SS-316 magnetic pumps are available up to 5HP
- **ADVANTAGES:-** 100% Leak proof pumps due to magnetic drive arrangements. No shaft seal used which automatically solves problems of seal leakage and water & tear. Friction free operation for reduced power

consumption. High power permanent magnets ensure full power transfer and eliminates slippage. All pumping parts are non-metallic, which gives superior corrosion resistance, simple and easy to operate and maintain. Long life liable and trouble free operation.

➤ **APPLICATIONS & USER INDUSTRIES:-** ideal for transfer of corrosive chemicals , plating chemicals, acids, dyes, solvents, toxic and & fuming liquids, petrol kerosene etc. use full in chemical industries, pharmaceuticals, and food processing industries, electroplating galvanizing/ anodizing plants. Laboratory equipment and PCB plants. Medical equipment and x-ray film plants. Textile dyeing houses. Liquid dispensing machine and chemical filtration equipments. For hazardous duty condition with flame proof motors. High efficiency due to permanent magnet power coupling.

➤ **RANGE:-**

- **CAPACITY :-** FROM 10 LPM TO 750 LPM
- **HEAD :-** UP TO 40 MTRS.
- **MATERIALS CONSTRUCTION:-** POLY PROPYLENE GLASS FILLED, PVDF UP TO 110° C – SS316.
- **OPERATING TEMP-** PP UP TO 80°C , PVDF UPTO 110°C
- **SPECIAL PUMPS FOR HIGH TEMPARATURE UP TP 150°C AND 250°C FOR SS-316**

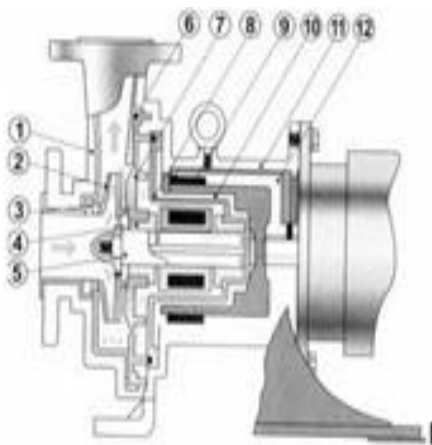
**NOTE:-** all MDP magnetic drives pump are available in monoblock type only with Std TEFC motor flame proof motor.

➤ **MATERIALS CONSTRUCTION:-**

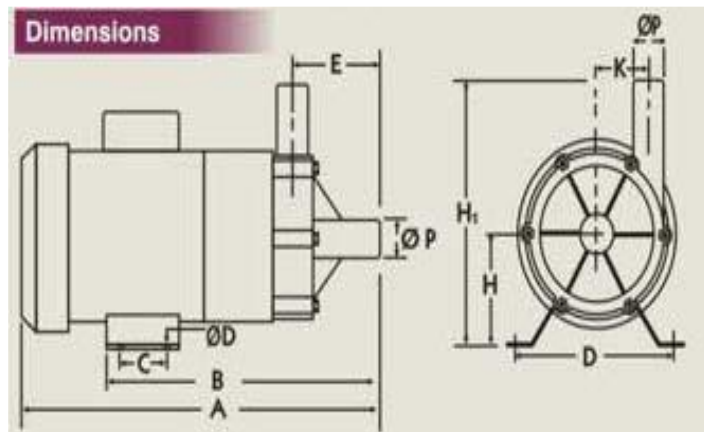
<b>PART NAME</b>	<b>PP MOC</b>	<b>PVDF MOC</b>
<b>Suction casing &amp; cover</b>	GF-PP	PVDF
<b>Impeller</b>	GF-PP	PVDF
<b>Impeller shaft</b>	High alumina ceramic	High alumina ceramic/ hast alloy
<b>Bush</b>	GFT/CFT	GFT/CFT
<b>Thrust washer</b>	High alumina ceramic	High alumina ceramic/ hast alloy
<b>O ring</b>	Viton	Viton
<b>Magnets</b>	Permanent high power rare earth	
<b>Mounting bracket</b>	Aluminum	Aluminum
<b>Motor body</b>	Aluminum	Cast iron

➤ **PUMP SPECIFICATION:- 2900 RPM**

<b>MODEL</b>	<b>INPUT/OUTPUT SIZE</b>	<b>MAXIMUM CAPACITY LPM</b>	<b>MAXIMUM HEAD MTRS</b>	<b>MOTOR HP</b>	<b>FULL LOAD CURRENT</b>	<b>PHASE</b>	<b>SPECIFIC GRAVITY LIMIT</b>	<b>WEIGHT</b>
<b>MDP-15</b>	14X14 mm Nozzle	15	2.5	0.10hp	0.15amps	single	1.1	3kgs
<b>MDP-30</b>	18X18 mm Nozzle	30	4	0.16hp	0.20amps	Single	1.1	3.5kgs
<b>MDP-50</b>	20X20 mm Nozzle	50	5	0.25hp	0.50amps	Single/three	1.2	5kgs
<b>MDP-85</b>	26X26 mm Nozzle	85	9	0.50hp	1.00amps	Single/three	1.2	8kgs
<b>MDP-125</b>	26X26 mm Nozzle	125	12	0.75hp	1.25amps	Single/three	1.3	10kgs
<b>MDP-170</b>	1"x1" bsp/flanged	170	14	1.0hp	1.70amps	Three	1.3	12kgs
<b>MDP-300</b>	1 ½"x 1 ¼" bsp/flanged	300	22	1.5hp	2.40amps	Three	1.4	16kgs
<b>MDP-400</b>	2" x 1 ½" bsp/flanged	400	24	2hp	3.5amps	Three	1.3	
<b>MDP-500</b>	2" x 1 ½" bsp/flanged	500	30	3hp	4.6amps	Three	1.3	
<b>MDP-600</b>	2 ½"x2" bsp/flanged	600	32	5hp	7.5amps	three	1.3	

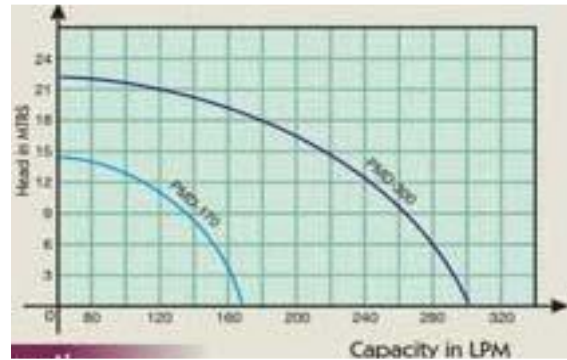
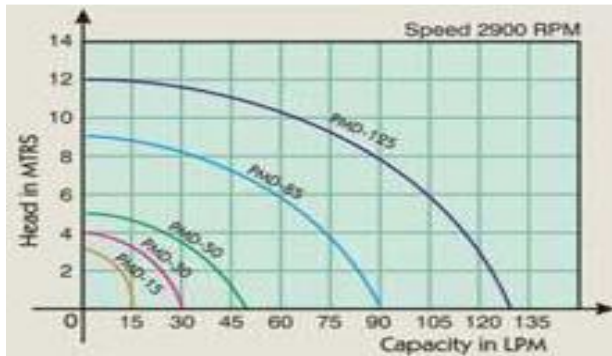


**CROSS SECTION DRAWING**



**DIMENSIONAL DRAWING**

MODEL	A	B	C	D	E	H	H1	OP	OD	K	E
<b>MDP-15</b>	240	145	41	110	125	61	112	14	9	29	41
<b>MPMD-30</b>	252	155	41	110	125	61	124	18	9	30	41
<b>MDP-50</b>	292	174	41	110	125	64	139	20	9	35	57
<b>MDP-85</b>	345	230	90	106	135	71	160	28	10	43	64
<b>MDP-125</b>	375	244	100	126	160	80	172	28	10	45	66
<b>MDP-170</b>	380	250	100	126	160	80	172	1"	10	45	50
<b>MDP-300</b>	400	270	100	126	160	85	185	1 ½"X1 ½"	10	58	57



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