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MAGNETIC DRIVE PUMPS

MPP 251 - MPP 302

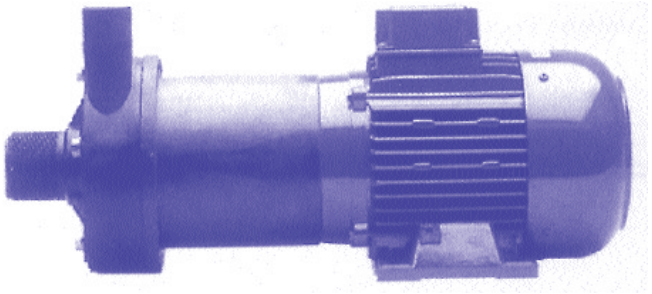
Operating principle

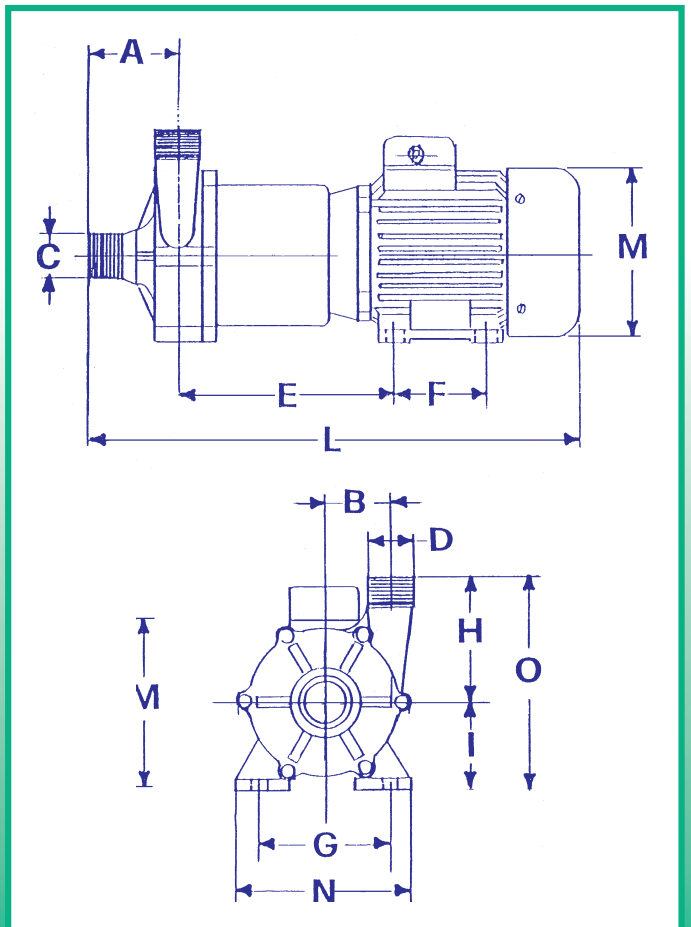
The distinctive feature of magnetic drive pump is the absence of a connection between motor and pump.
The rotation of the impeller is obtained by the magnetic force between two magnets : one is coupled to the motor, the other drives the impeller. This construction guaranties the highest reliability and avoids any leackage, so maintenance interventions are reduced and simplified.

The materials used are:

- Polypropylene and PVDF for plastic components.
- Ceramics (Al2 O3 99,7%) for shaft and thrust ring.
- PTFE Bearings for PP models and Rulon ones for PVDF ones
- EPDM or Viton for the O-ring.

CE





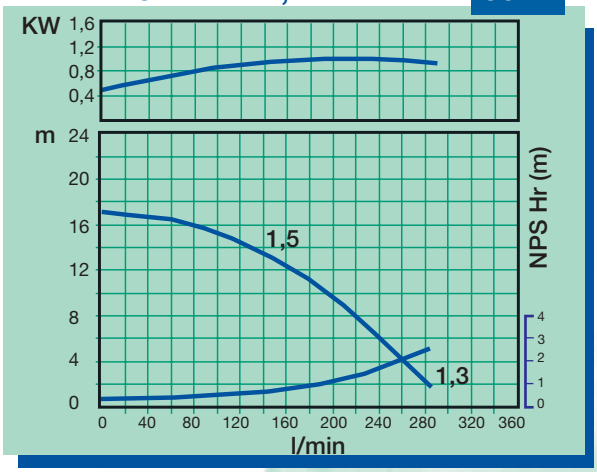
MODEL	MPP 251	MPP 302
A	74	74
B	58,5	58,5
C	2”	2”
D	1 1/4”	1 1/4”
E	186	202
F	100	100
G	125	140
H	131	131
I	80	90
L	448*	478*
M	156*	176*
N	155*	184*
O	211	221
KW	1,1	1,5
PHASES	3	3
Rpm	2800/3450	2800/3450
KG	15,8	18

* It changes according to the assembled motor

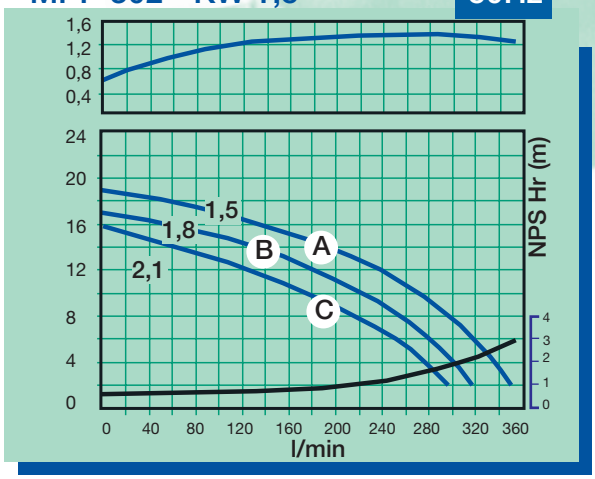
MPP 251 - MPP 302

M A G N E T I C D R I V E P U M P S

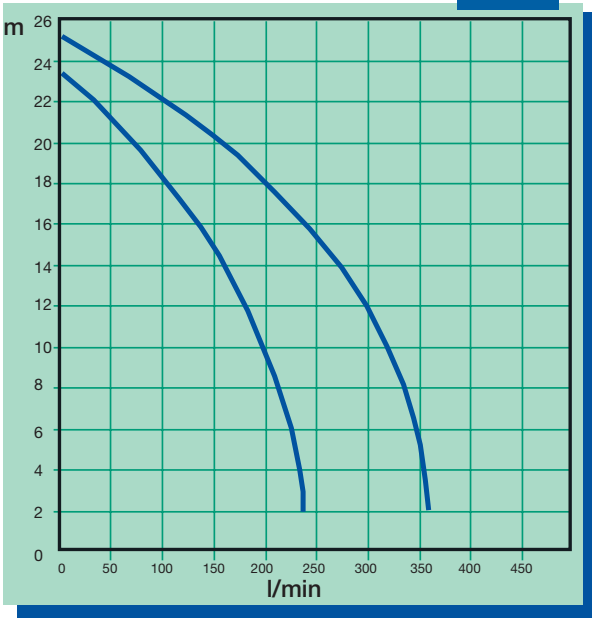
MPP 251 - KW 1,1 — 50Hz



MPP 302 - KW 1,5 — 50Hz



MPP 251 - MPP 302 — 60 Hz

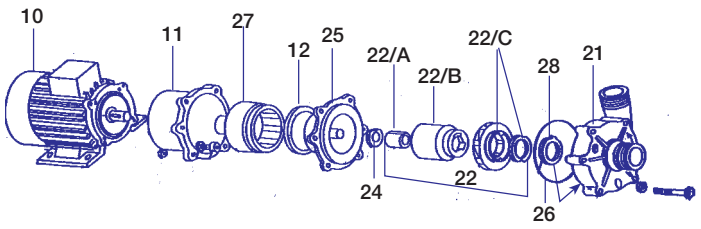


Curve references:
water at ambient temperature

DIRECTIVES:

- The pump should never run dry.
- Dirty liquids and crystals reduce the life of the bearings.
- The ambient temperature should be between 0 and 40 °C.
- Flame proof motors should be used in explosive atmospheres.
- The liquid should not crystallize in the pump.
- The maximum temperature of the pumped liquid should be: 70 °C (for PP) 95 °C (for PVDF)
- The pump is self priming.

EXPLODED VIEW MAGNETIC DRIVE PUMP



10	Motor	22A	Impeller bush
11	Flange	22B	Impeller magnet
12	Centering Ring (No on MPP251 PP)	22C	Impeller
27	Drive magnet	28	Bushing guide with thrust ring
25	Rear casing with shaft	26	O-ring
24	Thrust Ring	21	Pump casing
22	Impeller assembly		

Wet-end:
21+22+24+25
+26 = 30

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