

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

MPA 320

Operating principle

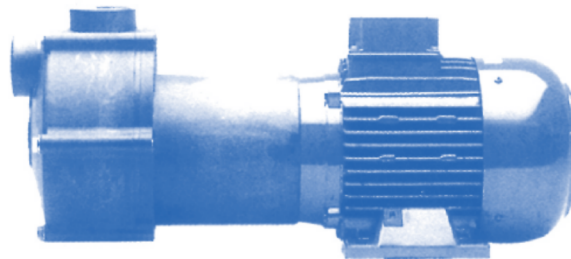
The distinctive feature of magnetic drive pump is the absence of a connection between motor and pump.

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.

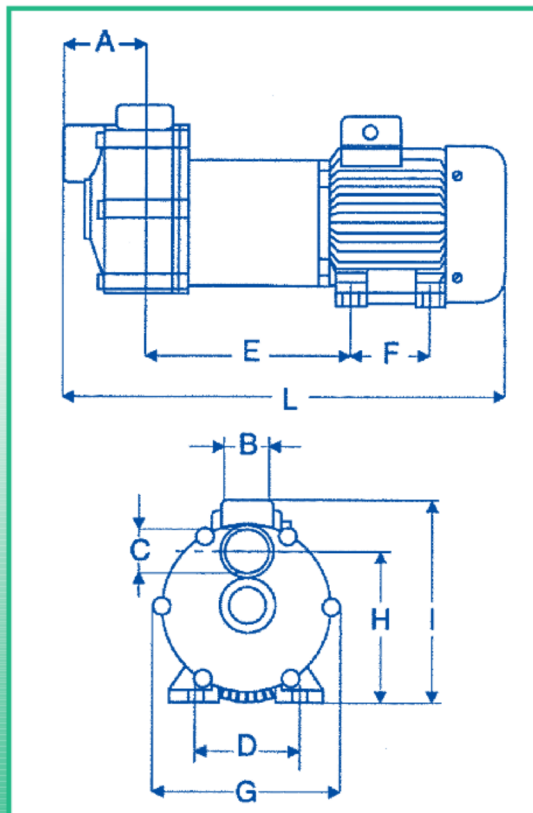
This construction guaranties the highest reliability and avoids any leakage, so maintenance interventions are reduced and simplified.

The materials used are:

- Polypropylene and PVDF for plastic components.
- Ceramics (Al₂O₃ 99,7%) for shaft and thrust ring.
- Rulon for bearings
- EPDM or Viton for the O-ring.



SELFPRIMING



MODEL	MPA 320
A	83
B	1"1/2*
C	1"1/2*
D	140
E	235
F	100
G	220
H	171
I	224
L	510
KW	1,5
PHASES	1-3
Rpm	2800/3450
KG	18,7

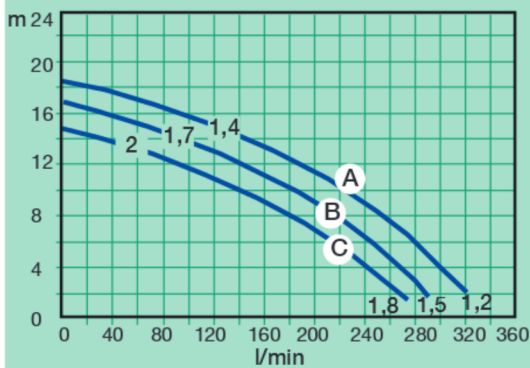
* Female

MPA 320

MAGNETIC DRIVE PUMPS

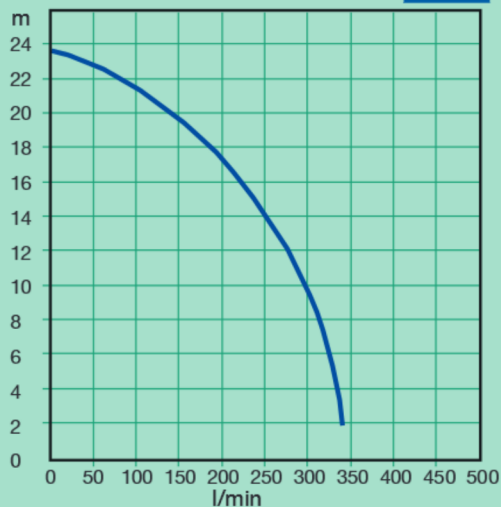
MPA 320

50Hz



MPA 320

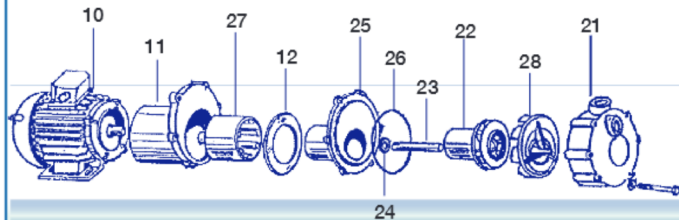
60Hz



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	25 Rear casing	22 Impeller
11 Flange	26 O-ring	28 Bushing guide with thrust ring
27 Drive magnet	24 Thrust ring	21 Pump casing
12 Centring ring	23 Shaft	

Curve references:
water at ambient temperature