Brass and stainless steel magnet drive rotary vane pumps TM 30-200 series

The Fluid-o-Tech® magnetic drive rotary vane pumps combine the established range of pumps with the added advantage of an indirect magnetic coupling:

- longer service life
- totally sealed body
- low maintenance
- less power consumption
- smooth transmission

The principle of the magnetic drive comprises an inner magnet embodied in the pump and connected to the rotor, and an outer magnet connected to the motor shaft. The pole-to-pole alignment of the two magnets provides the driving motion to the pump. Decoupling occurs when the pump load exceeds the coupling torque between the magnets. The introduction of a new driving magnet with increased torque (available upon request) brings the maximum operating pressure to the same values of the PO series with direct coupling. The Rotoflow® TM series magnetic drive rotary vane pumps are available in stainless steel AISI 303 or brass, with carbon graphite internal components and NBR seals. Maximum operative temperature: 70 °C (158 F).

Available upon request:
- Viton®/EPDM seals

MAIN APPLICATIONS

- Espresso coffee machines
- Cooling systems
- Water treatment
- Booster systems
- Solar systems

TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>Pump housing material</th>
<th>Brass or stainless steel</th>
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<tbody>
<tr>
<td>Pumping chamber</td>
<td>Carbon graphite</td>
</tr>
<tr>
<td>Ports</td>
<td>3/8” GAS or NPT</td>
</tr>
<tr>
<td>Speed limit</td>
<td>3500 rpm</td>
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<tr>
<td>Max static pressure</td>
<td>20 bar/290 psi</td>
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<tr>
<td>Pump weight</td>
<td>1.1 kg (2.4 lb)</td>
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STAINLESS STEEL VERSION

BRASS VERSION

Dimensions in mm [inches]

www.fluidotech.com
Fluid-o-Tech reserves the right to alter the specifications indicated in this catalogue at any time and without prior notice.

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**MODEL** | **RELIEF VALVE** | **HOUSING** | **FIGURE**
---|---|---|---
TMS300 | NO | STAINLESS STEEL | A-A
TMS350 | NO | STAINLESS STEEL | B-B
TMS370 | NO | STAINLESS STEEL | C-C
TMS210 | NO | STAINLESS STEEL | D-D
TMS215 | NO | STAINLESS STEEL | E-E
TMS200 | NO | STAINLESS STEEL | F-F
TM3030 | NO | BRASS | A-A
TM3050 | NO | BRASS | B-B
TM3070 | NO | BRASS | C-C
TM3100 | NO | BRASS | D-D
TM3150 | NO | BRASS | E-E
TM3200 | NO | BRASS | F-F
TM3031 | NO | BALANCED | A-A
TM3051 | NO | BALANCED | B-B
TM3071 | NO | BALANCED | C-C
TM3101 | NO | BALANCED | D-D
TM3151 | NO | BALANCED | E-E
TM3201 | NO | BALANCED | F-F
TM3021 | NO | BALANCED | G-G
TM3011 | NO | BALANCED | H-H
TM3000 | NO | BALANCED | I-I

**POS** | **DESCRIPTION** | **CODE**
---|---|---
1 | TM series pump | TMS300
   | Standard mounting assembly (M56-B14) | TMBF56S
   | High torque mounting assembly (M56-B14) | TMBSS6C
   | Standard mounting assembly (M63-B14) | TMBF63S
   | High torque mounting assembly (M63-B14) | TMBSS6C
   | Standard mounting assembly (NEMA 56C) | TMBF5BS
   | High torque mounting assembly (NEMA 56C) | TMBSS6BC
2 | TM series pump | TM3030
   | Standard mounting assembly (M56-B14) | TMBF56S
   | High torque mounting assembly (M56-B14) | TMBSS6C
   | Standard mounting assembly (M63-B14) | TMBF63S
   | High torque mounting assembly (M63-B14) | TMBSS6C
   | Standard mounting assembly (NEMA 56C) | TMBF5BS
   | High torque mounting assembly (NEMA 56C) | TMBSS6BC

Note: The "C" series driving magnets provide a slot in the internal bore to accept the driving key of motors M56 and M63 frame.

Flow rate GPH vs. Pressure bar psi

- Curves with driving magnets TMAF09S, TMAF11S, TMAF15S
- Curves with driving magnets TMAS09C, TMAS11C, TMAS15C

Flow rate GPH vs. Pressure bar psi

- Curves with driving magnets TMAF09S, TMAF11S, TMAF15S
- Curves with driving magnets TMAS09C, TMAS11C, TMAS15C

Note: Hydraulic characteristics with water at 20 °C (68 F) and without bypass. Use filter before pump inlet not larger than 10 microns.

For applications involving other fluids, high temperatures, unusual processing conditions or speed higher than 2500 rpm consult the factory or an authorized distributor.