Magnet drive rotary vane pump-motor units TMFR 30-200 series

The TMFR series, an integrated pump-motor unit where the motor has no moving parts, features a combination of compact size, superior performance, low energy consumption and silent operation to provide great versatility in a refined, high tech design.
The internal magnet, driven through an electromagnetic field, is capable of transmitting high torque to the shaft.
The speed control system allows the unit to self-adapt to the hydraulic conditions of the circuit to maintain a set pressure or flow rate, while the brushless technology provides a reliable and long lasting operation.

- Compact size
- Motor housing in aluminum
- No wear on the motor
- Black anodized finishing available
- Continuous speed control
- Continuous duty



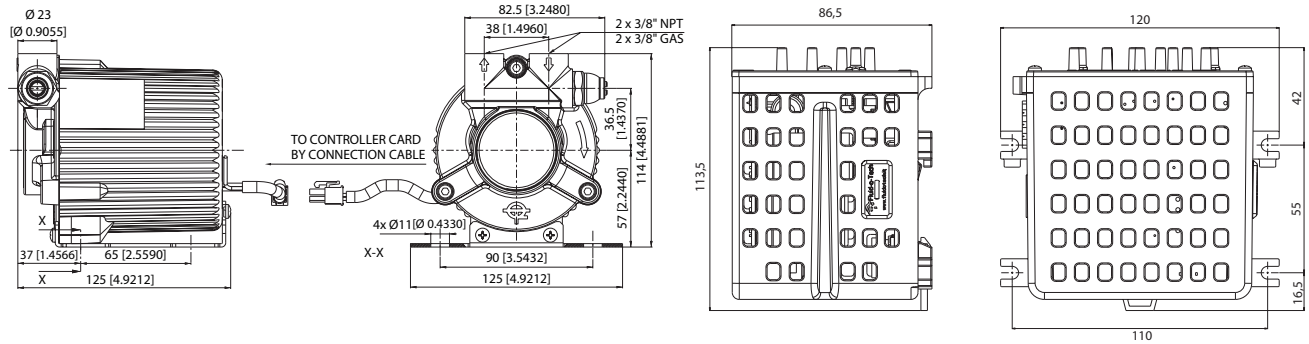
MAIN APPLICATIONS

- Laser cooling
- Solar heating systems
- Refrigerating gas transfer
- Reverse osmosis
- Welding
- Fuel burner
- Water repressurization
- Post mix systems
- Espresso coffee machines

TECHNICAL INFORMATION

Pump housing material	Brass or stainless steel	Max. operative temperature	70 °C (158 F)
Pumping chamber	Carbon graphite	Motor type	100-110-230 V AC 50/60 Hz
Ports	3/8" GAS or NPT	Speed range	1100 to 3500 rpm
Max static pressure	20 bar/290 psi	Absorbed power	max 330 W
Noise	46dB (A) at 1500 rpm	Actual power	max 250 W
Unit weight (w/o controller*)	2.7 kg (5.9 Lb)	Motor IP protection	IP 20

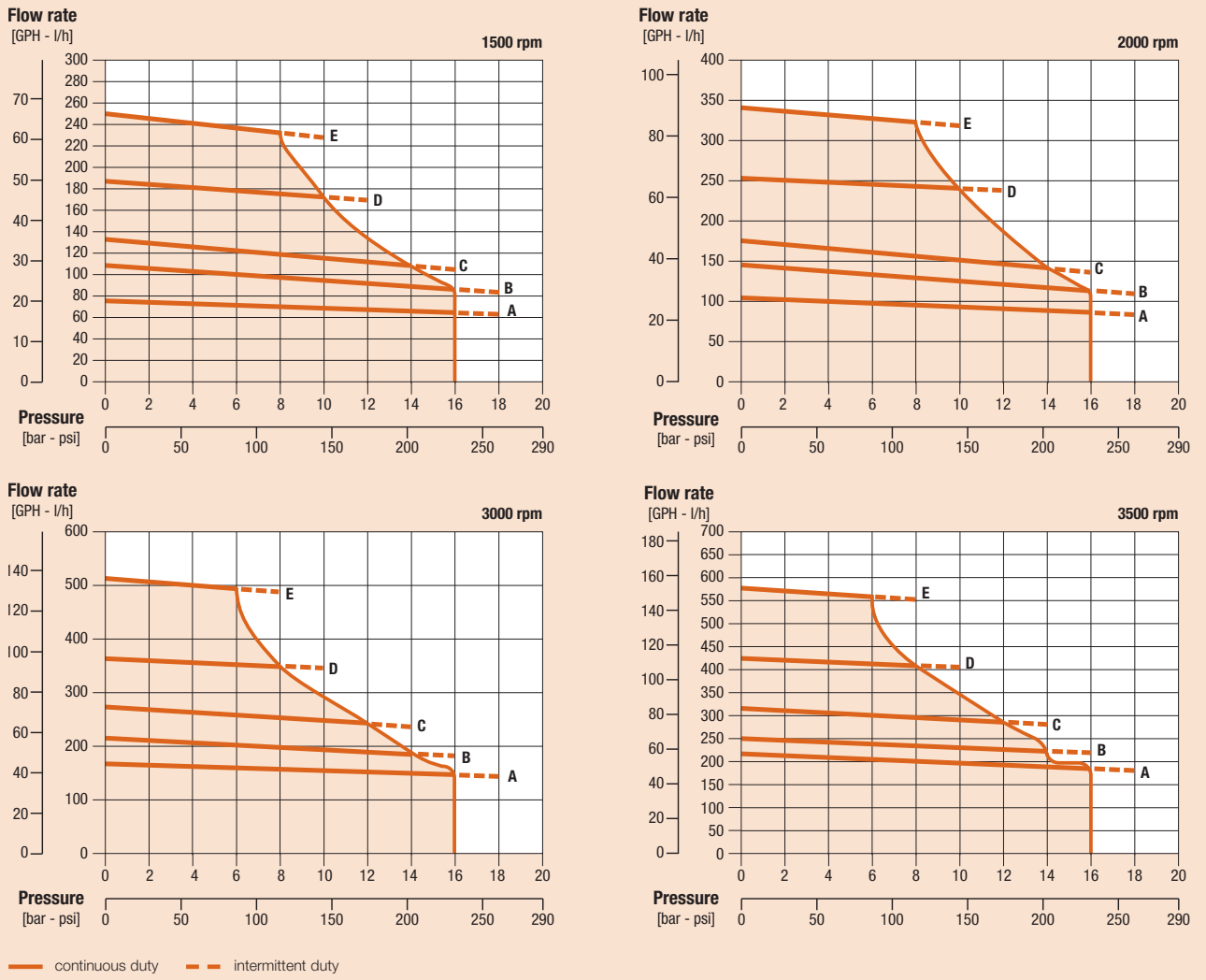
* Controller weight: 700 g (1,5 Lb).



Dimensions in mm [inches]

TMFROT (BRASS)	050	051	054	070	071	074	100	101	104	150	151	154	200	201	204
Figure		A-A			B-B			C-C			D-D			E-E	
Relief valve	NO	STD	BAL	NO	STD	BAL	NO	STD	BAL	NO	STD	BAL	NO	STD	BAL

TMFRSS (STAINLESS STEEL)	050	051	070	071	100	101	150	151	200	201
Figure	A-A		B-B		C-C		D-D		E-E	
Relief valve	NO	STD	NO	STD	NO	STD	NO	STD	NO	STD



Note: Hydraulic performances measured with 20 °C (68 F) water and without bypass. Curves are averages.
For applications involving other fluids, high temperatures, unusual processing conditions or speed higher than 3500 rpm consult the factory or an authorized Fluid-o-Tech distributor.

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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