TEOREMA PUMP TECHNOLOGY

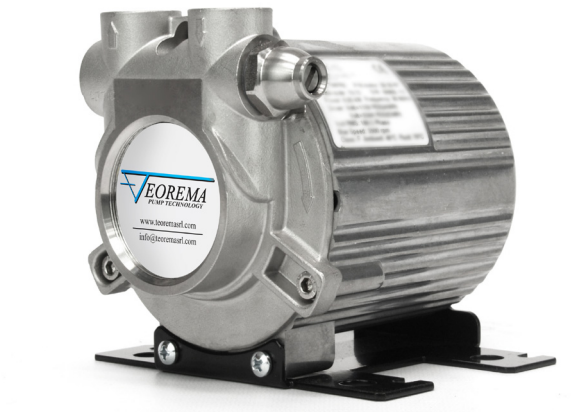
MAGNET DRIVE ROTARY VANE PUMP-MOTOR UNIT

TSFR 300 400 series

MAGNET DRIVE ROTARY VANE PUMP MOTOR
TSFR 300-400 Series

GENERAL DESCRIPTION

The TMFR series and its innovative concept of a completely integrated unit evolves into a larger flow rate unit: the TSFR unit.
Especially designed for those applications where many hours of operation are required, the TSFR is designed to handle up to 1000 l/h on a continuous duty base. The electro-magnetic drive grants absence of friction and high efficiency. The evolution of the electronic controller into an intelligent unit, allows the option of a continuous ramp speed control between 1100 and 3500 rpm where the speed of acceleration may be precisely varied.
External feedback loop allows to choose a constant pressure or flow rate values independently from the variations of the hydraulic conditions. The versatility of this product opens new horizons to high technology systems. The housing and the rotor are in AISI 303 stainless steel, while the pumping chamber is in carbon graphite. Elastomers are available in NBR, Viton® or EPDM.



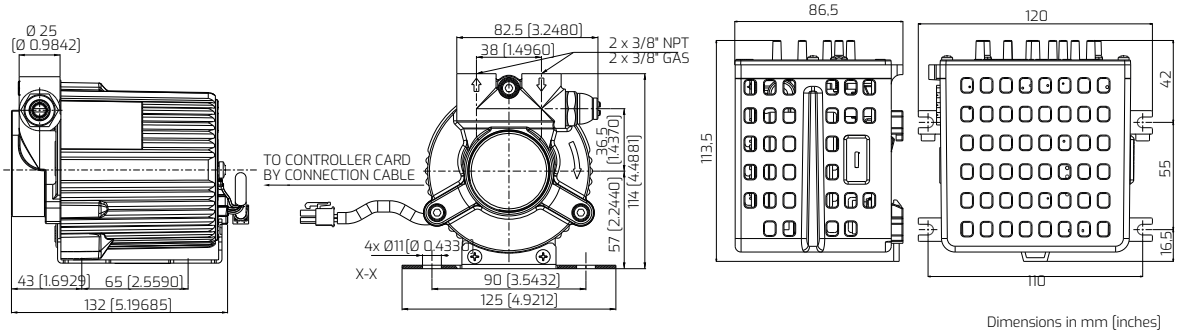
"MAIN APPLICATIONS"

- Post mix
- Welding
- Cooling
- Solar heating
- Circuit washing
- Refrigerating gas transfer

TECHNICAL INFORMATION

Pump housing material	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	49dB (A) at 1100 rpm	Actual power	max 250 W
Unit weight (w/o controller*)	2.8 kg (6.2 Lb)	Motor IP protection	IP 20

DIMENSIONS



Dimensions in mm [inches]

DIMENSION AND SPECIFICATION

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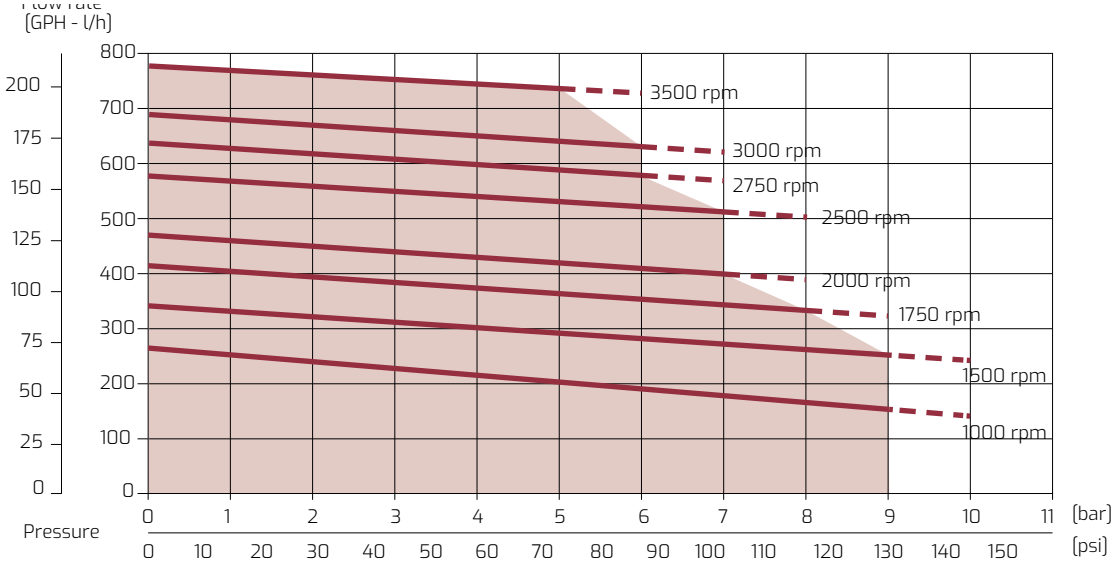
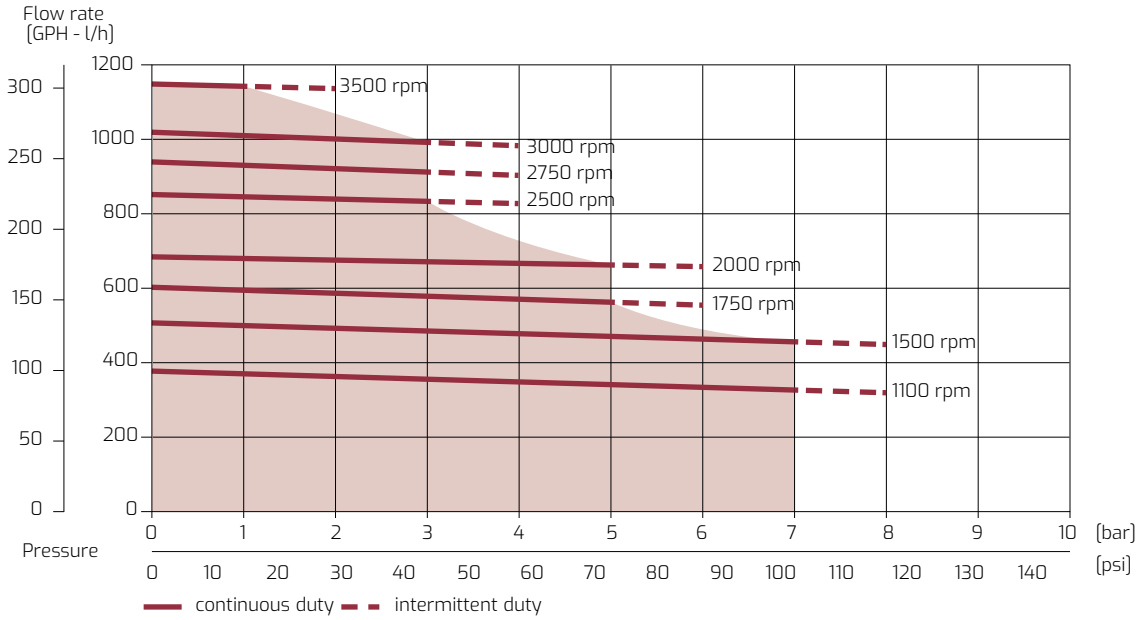
PERFORMANCE CURVES



TSFR 400



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 2500 rpm consult the factory or an authorized Fluid-o-Tech distributor.

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