

2-SERIES ULTRA LOW-FLOW GEAR PUMP MAG-DRIVE MINI PUMP

GENERAL INFORMATION

DESCRIPTION

The 2-Series Mini-Pump is a low-flow external gear pump that is completely field repairable. With a ruggedly designed 316 Stainless Steel body and several material options for shafts, gears, wear plates and bearings, these pumps can be used in a wide variety of services.

TYPICAL USES & APPLICATIONS

The 2-Series Mini-Pump is typically used in chemical processing plants, pilot plants, laboratories, paper-making, chemical dosing and metering, pipeline sampling and wastewater treatment.

MAINTENANCE

The 2-Series Mini-Pump was designed with reliability and ease of maintenance in mind. The gear and shaft are permanently fixed to each other making repairs easy and fool-proof. Standard repair kits contain all wearing parts and static O-rings:

- Gear-Shaft Assemblies
- Bearing-Wear Plate Combinations
- O-rings

CUSTOMIZATION

Contact factory.

FEATURES

- Mag-Drive
- Corrosion resistant materials
- Pulseless flow
- Flow rates from 1 to 30 GPH
- Differential pressures up to 225 PSI
- Viscosities to 5,000 CPS
- Low NIPR (NPSHR)
- Self-compensating wear plates limit slip on low viscosity fluids
- SmCo Magnets
- Minutes to repair

REPAIR KITS

Repair Kits simplify inventory and speed repair. All parts can also be purchased separately.



2-Series Mini-Pump close-coupled to motor

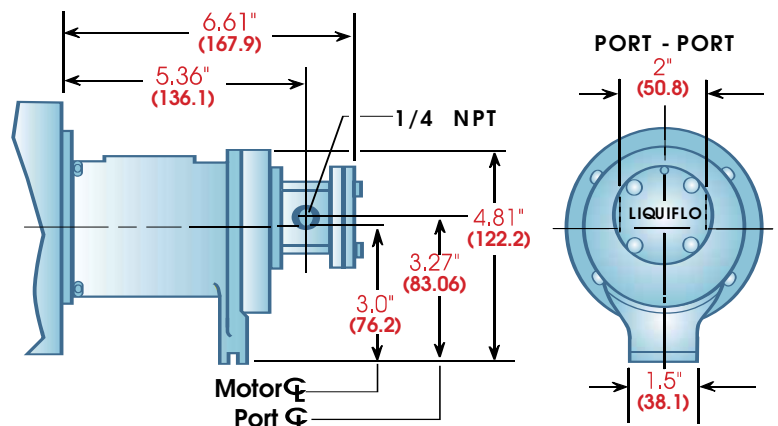
MATERIALS AVAILABLE

HOUSINGS	GEARS	WEAR PLATES/ BEARINGS	SHAFTS
316 SS	316 SS	Carbon 60	316 SS
	Alloy-C	PEEK	TC-Coated
	PEEK		CO-Coated

Note: For information on the above materials, refer to the Engineering section, pages 132-135.

Dimensional Data - inches (mm)

2-SERIES Mag-Drive Mini Pump



PUMP MODEL CODING

Liquiflo 2-Series Gear Pumps Selection & Availability

EXAMPLE:

2FS6PE200X, designates a Model 2F Mag-Drive Pump.

2	F	S	6	P	E	2	0	0	X
1 & 2	3	4	5	6	7	8	9	10	

Pos.	Description	Selection
1 & 2	Pump Model	2F 2F Pump
3	Housing Mat I	S 316 SS NPT
4	Drive Gear Mat I	6 316 SS
5	Idler Gear Mat I	P PEEK
6	Wear Plates/Bearings	E Carbon 60
7	Outer Magnet Bore	2 .625 (56C motor)
8	Shafts	Q Non-coated
9	O-Rings	Q Teflon
10	Magnetic Coupling	X MCX

Liquiflo's Model Code describes both the pump's size and materials selected. This model code is required for the future identification of your pump when reordering either a pump or replacement parts. Model code is permanently stamped into pump housing.

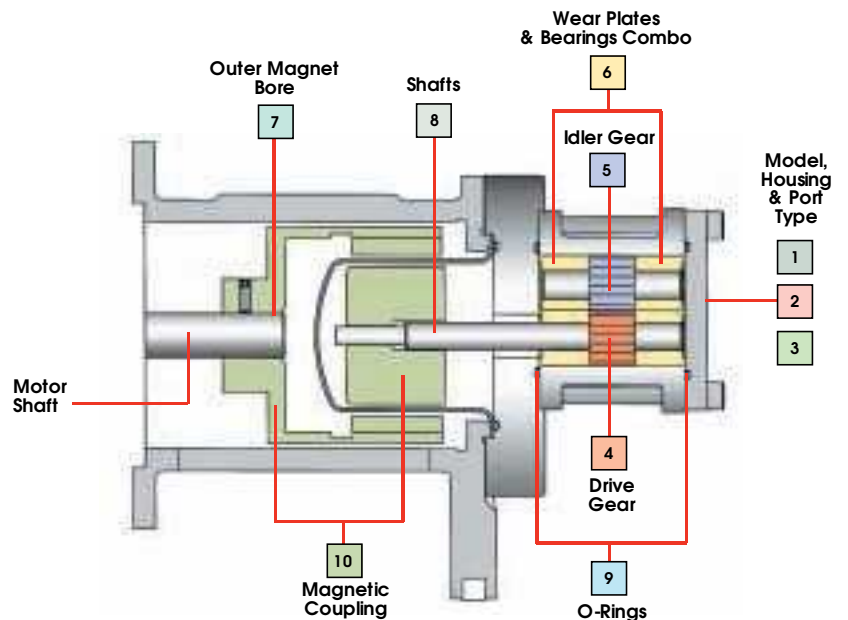
- n Available
- ⊗ Not Available
- CF Contact Factory



Sample Model No. **2 F S 6 P E 2 0 0 X**

Position No. 1 2 3 4 5 6 7 8 9 10

Position Model	1	Pump Model	2
Position Model	2	F Full Capacity R Reduced Capacity	n n
Position Basic Material & Port Type	3	S 316 SS NPT X 316 SS BSPT	n n
Position Drive Gear	4	1 Alloy-C 6 316 SS P PEEK	n n n
Position Idler Gear	5	1 Alloy-C 6 316 SS P PEEK	n n n
Position Wear Plates & Bearings Combination	6	E Carbon 60 P PEEK	n n
Position Outer Magnet Bore (Motor Frame)	7	0 0.500 (NEMA 48C) 1 14 mm (IEC 71 - B 14 Face) 2 0.625 (NEMA 56C/56HC)	n n n
Position Shafts	8	0 316 SS (uncoated) 1 316 SS - Chrome Oxide Coated 2 316 SS - Tungsten Carbide Coated	n n n
Position O-Rings	9	Q Teflon V Viton K Kalrez	n n n
Position Magnetic Coupling	10	X 10 in-lbs	n
Suffix Trim Option	- 8	Temperature Trim	n



2-Series Mag-Drive Gear Pump

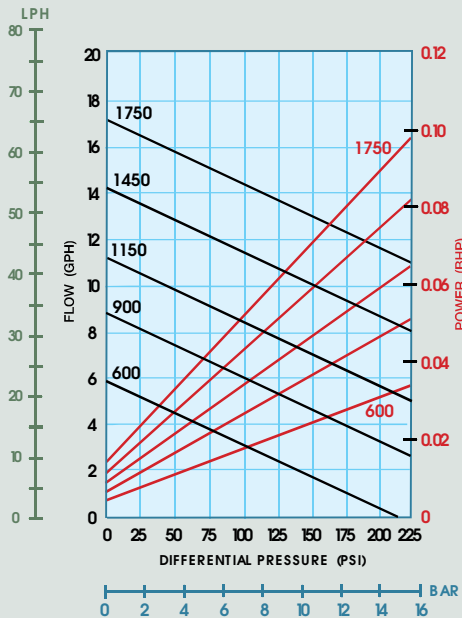
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2-SERIES
GEAR PUMP

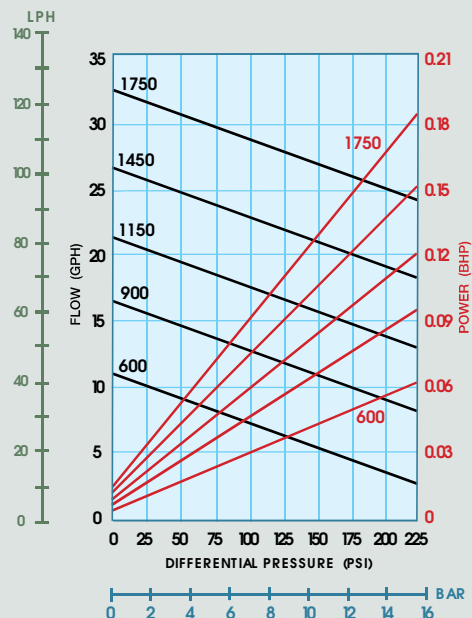
MODEL	2R (Reduced)	2F (Full)
PORT SIZE	1/4 NPT/BSPT	1/4 NPT/BSPT
MAX FLOW	17 GPH 64 LPH	32.5 GPH 123 LPH
MAX DIFFERENTIAL PRESSURE	225 PSI 15.5 BAR	225 PSI 15.5 BAR
MAX DISCHARGE PRESSURE	300 PSI 20.7 BAR	300 PSI 20.7 BAR
MAX TEMPERATURE	500 F 260 C	500 F 260 C
MIN TEMPERATURE	-40 F -40 C	-40 F -40 C
MAX VISCOSITY (300 RPM)	5,000 CPS	5,000 CPS
NPSHR 1750 RPM	3 FT 0.9 M	3 FT 0.9 M
LIFT (DRY)	negligible	negligible
WEIGHT (without motor)	5 LBS 2.3 KGS	5 LBS 2.3 KGS

PERFORMANCE CURVES

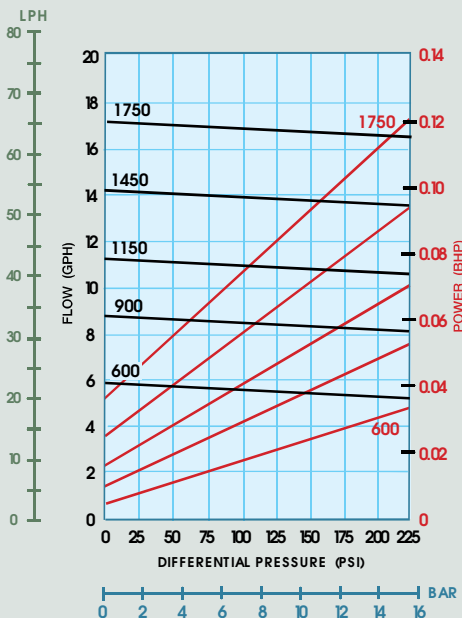
2R 10 CPS Fluid (Oil)



2F 10 CPS Fluid (Oil)



100 CPS Fluid (Oil)



100 CPS Fluid (Oil)

