



Liquiflo ROTOGEAR® Gear Pumps

**MAX™ Series**Copyright © 2005 Liquiflo, Inc.  
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for Metering, Transfer, Circulation &amp; Injection Applications

**Meet the World's Toughest Gear Pump...**

## Liquiflo MAX™ Series

- Sealed or Mag-Drive
- 316 SS or Titanium Construction
- Flows Up to 20 GPM
- Pressures up to 350 PSI
- Close-Coupled



### FEATURES

The Liquiflo **MAX™ Series** Gear Pumps will handle differential pressures to **350 PSI** and flows to **20 GPM**. Its unique, durable design assures extended life even in high-pressure pumping applications where other gear pumps could fail. The **Max™ Series** pump features newly designed **Helical** gears for smoother and quieter operation.

### HEAVY-DUTY CONSTRUCTION

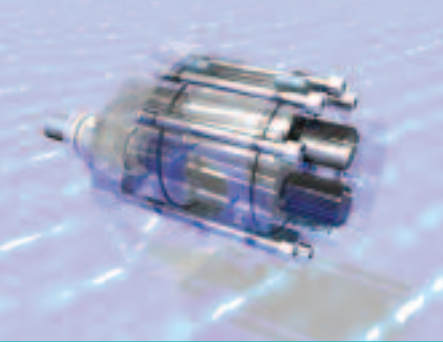
#### Solid 316 SS or Titanium Body

The **MAX™ Series** heavy duty shaft and bearing design make it last even when operating at high differential pressures for extended lengths of time. Its solid construction and oversized heavy duty bolts will minimize pump distortion caused by piping misalignment. The pump mounting bracket is made of corrosion resistant 316 Stainless Steel or sturdy Cast Iron.

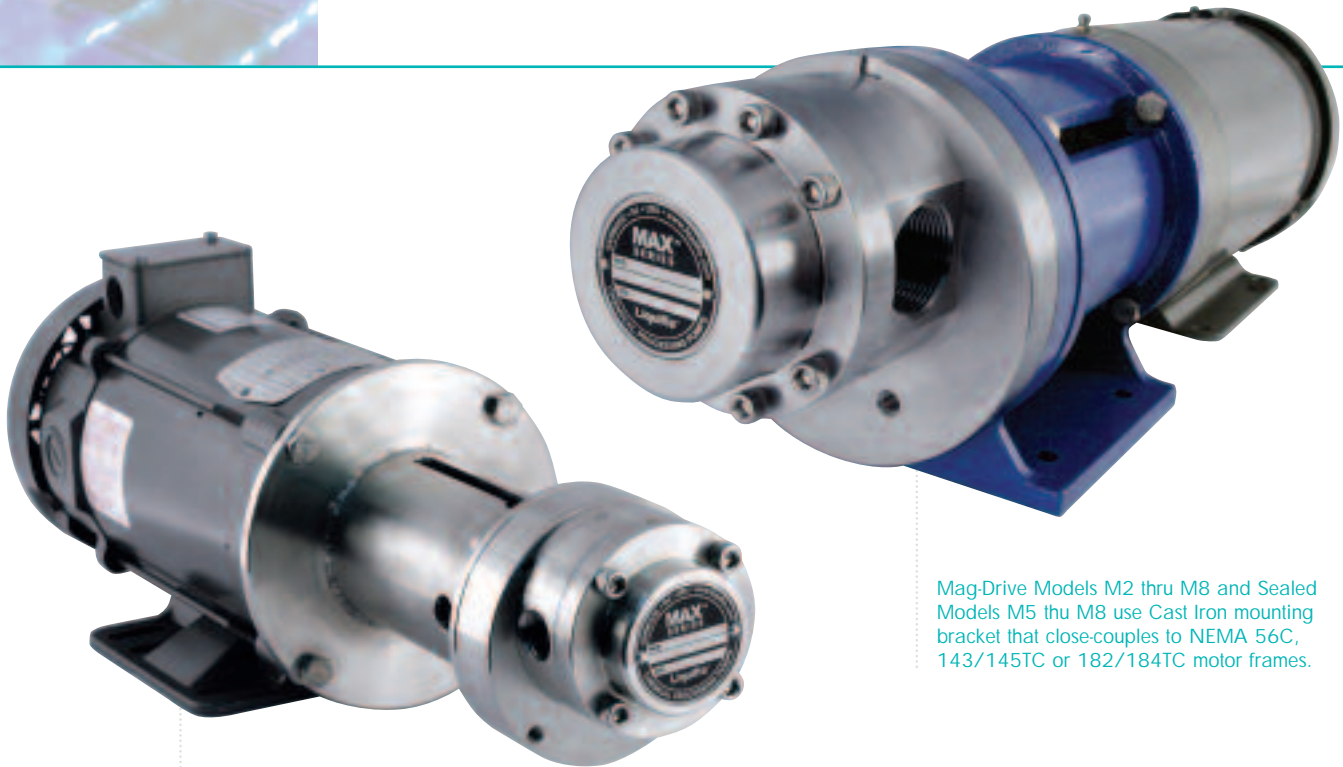
### CONFIGURATION

#### Mechanical Seal or Mag-Drive, Close-Coupled

The **MAX™ Series** pumps are available in either single or double mechanical seal or mag-drive configurations. The universal seal housing will accommodate either a single or double mechanical seal. The close-coupled design eliminates difficulties and inconveniences of manually aligning the pump and motor. Max pumps are offered in 316 Stainless Steel or Titanium housings with a variety of internal component materials to optimize your selection for specific variety chemical applications.



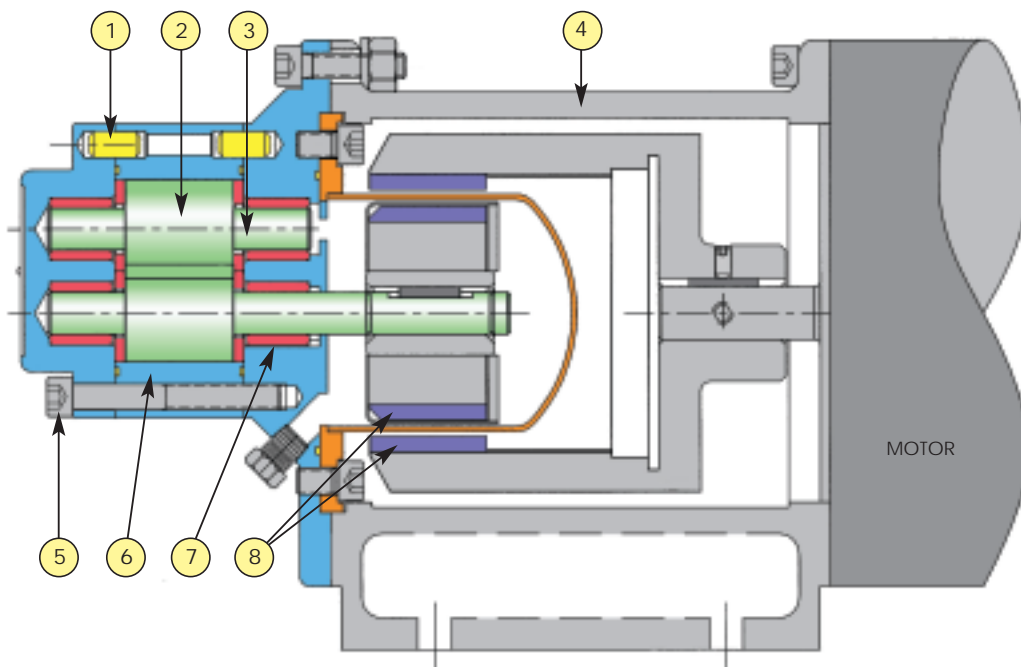
## MAX™ Series Gear Pump Models M2-M8



Sealed Models M2 thru M4 use Stainless Steel mounting bracket that close-couples to NEMA 56C, 143/145TC or 182/184TC motor frames.

Mag-Drive Models M2 thru M8 and Sealed Models M5 thru M8 use Cast Iron mounting bracket that close-couples to NEMA 56C, 143/145TC or 182/184TC motor frames.

### Mag-Drive Models M2-M8



- ① Hardened Stainless Steel Alignment Pins
- ② Helical Gears for smoother and quieter operation
- ③ 316 SS or Titanium Shafts (various coatings available)
- ④ Heavy Duty Cast Iron mounting bracket supports pump & motor
- ⑤ Heavy duty bolting and rugged construction
- ⑥ Solid 316 SS or Titanium Housings
- ⑦ Oversized Bearings for high-pressure applications
- ⑧ High-strength SmCo magnets

# MAX™ Series Gear Pump Mechanically Sealed or Mag-Drive



## Features:

- Choice of 316 SS or Titanium Housings
- Seven Pump sizes available
- Threaded or Flanged Ports (1/2" thru 1 1/2")
- 350 PSI max differential pressure
- Flow rates up to 20 GPM
- Heavy Duty construction for long life
- Easy to repair - Repair kits or individual parts are available
- Close-coupled design simplifies installation and eliminates misalignment of pump and motor
- 316 Stainless Steel or Sturdy Cast Iron Mounting Bracket

\* 316 SS bracket is available only with sealed models M2-M4.  
Other models have Cast Iron mounting pedestal that supports pump & motor.



## HELICAL GEARS

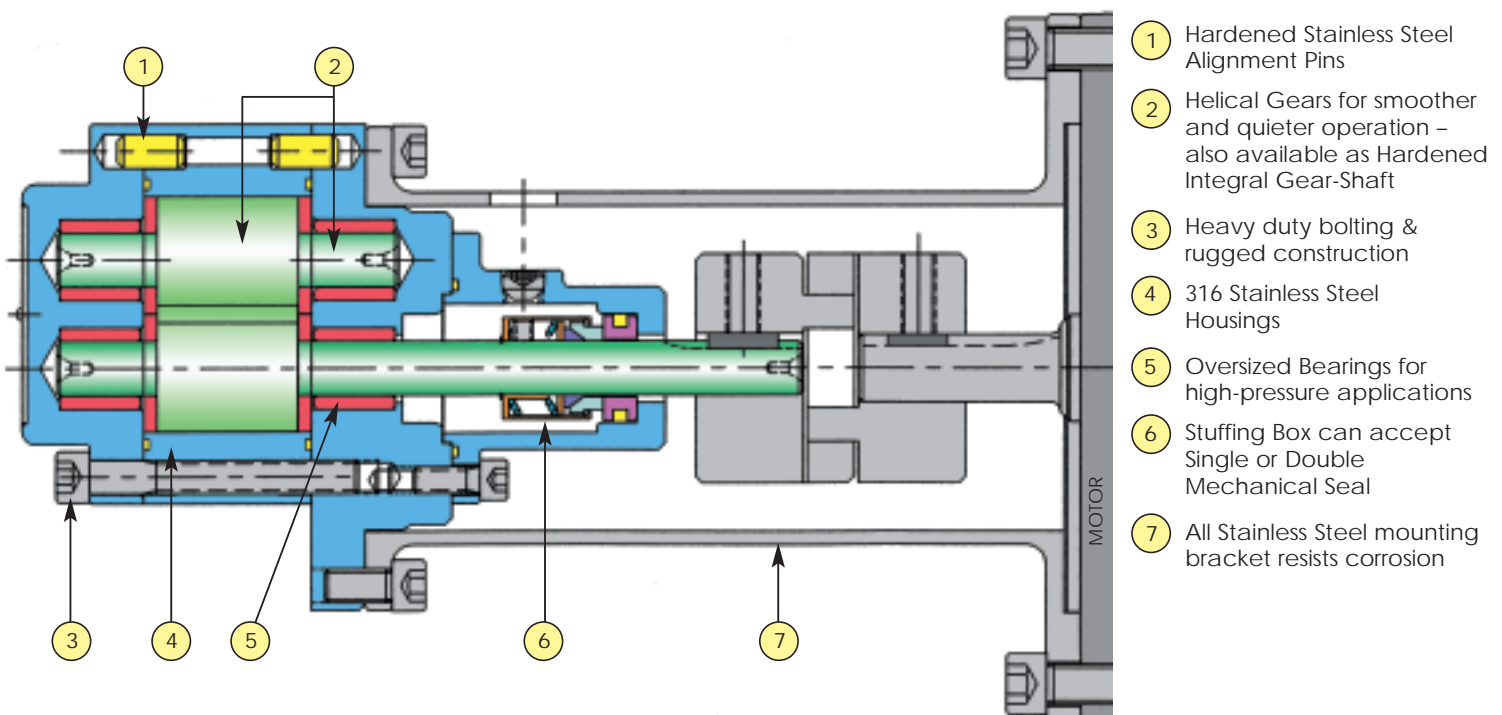
The Liquiflo MAX™ Series Gear Pump features newly designed Helical Gears for both smoother, quieter operation and longer bearing life due to intrinsic reduction of gear separation forces.

## Applications for Corrosive Chemicals

Liquiflo MAX™ Series Gear Pumps were designed to handle a variety of chemical processing applications including the metering and transfer of extremely corrosive and toxic chemicals. The MAX™ is available in several choices of **corrosion resistant** materials including **316 SS** and **Titanium** to optimize longevity and long-term reliability. Liquiflo's highly experienced application engineers can assist you in optimizing the correct choice of materials to suit your specific chemical pumping applications.

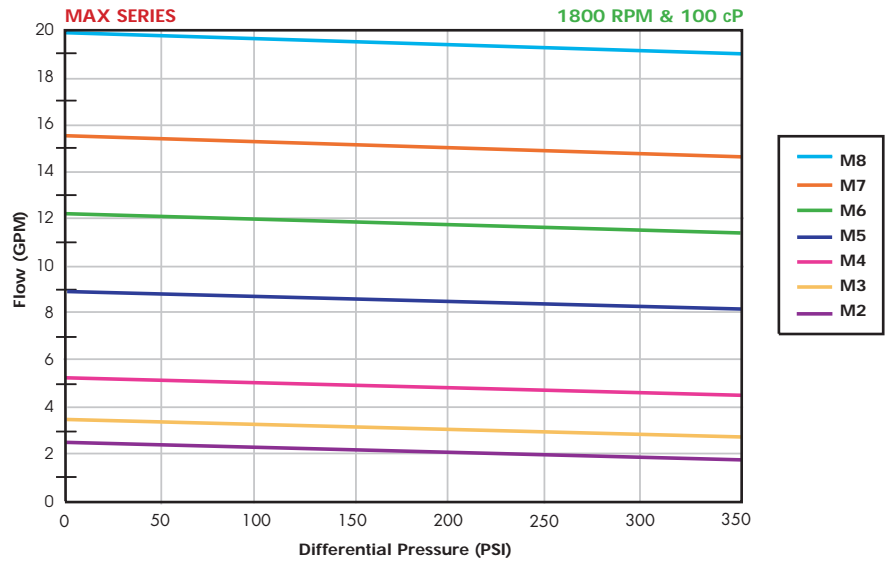
Liquiflo also offers an **integral gear-shaft arrangement made from 17-4 PH (precipitate hardened) stainless steel**. By using a heat-treated metal-to-metal gear configuration, higher pressures can be achieved without the risk of galling or accelerated wear. 17-4 PH SS materials are only recommended for moderately aggressive chemicals. Metal-to-metal gears should only be applied when pumping liquids with viscosities over 100 cP. Contact factory for specific applications.

## Sealed Models M2-M4 (Shown Below)\*



\* Sealed Models M5-M8 have Cast Iron mounting bracket. Photo shown on Page 2.

PERFORMANCE CHART



MATERIALS OF CONSTRUCTION

BODY	GEARS	SHAFTS	WEAR PLATES	BEARINGS
316 SS	17-4 PH SS	17-4 PH SS	Carbon	Carbon
Titanium	316 SS	316 SS	Teflon	Silicon Carbide
	Titanium	Titanium*	Ceramic	PEEK
	Teflon		PEEK	
	PEEK			

Note: Chrome Oxide Coated & Tungsten Carbide Coated Shafts are available for 316 SS Pumps.  
\* TiO<sub>2</sub> Coated

MODELS AVAILABLE

PUMP MODEL	FLOW (GPM) @ 1800 RPM	FLOW (Gal/Rev)	MAX PRESSURE* (PSI)	PORT SIZE
Max-M2	2.5	.00138	350	1/2"
Max-M3	3.5	.00193	350	1/2"
Max-M4	5.2	.00289	350	3/4"
Max-M5	8.8	.00491	350	3/4"
Max-M6	12	.00675	350	1"
Max-M7	15.5	.00859	350	1 1/4"
Max-M8	20	.01105	350	1 1/2"

\* Max operating pressure is dependent upon fluid being pumped. Consult Factory.



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