

Liquiflo Max™ Series Gear Pump



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METERING •• TRANSFER •• CIRCULATION

Meet the World's Toughest Gear Pump...

Liquiflo Max™ Series

Pressures up to 350 PSI
Flows to 20 GPM

The **Liquiflo Max™ Series** Gear Pumps will handle differential pressures to **350 PSI** and flows to **20 GPM**. Its unique and 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, quieter operation and intrinsic reduction of gear separation forces.

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 wrought construction and oversized heavy duty bolts will eliminate any possibility of the pump being distorted by piping misalignment. The pump mounting bracket is made from stainless steel to eliminate corrosion even when exposed to the harshest environments.

Configuration Mechanical Seal, Mag-Drive, Close-Coupled

These 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 **Max™ Series** is close-coupled to the motor to simplify installation and eliminate difficulties and inconveniences of aligning the pump and motor. The body material choice is either **316 SS** or **Titanium** with multiple choices of internal components to optimize your selection for specific chemical applications.

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 application.

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 materials are only recommended for moderately aggressive chemicals. Metal-to-metal gears should only be applied when pumping liquids with viscosities over 100 cPs. Contact factory for specific applications.

Features:

- 7 Pump sizes available to meet your specific applications
- 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 eliminates misalignment of pump and motor
- Most compact gear pump in the industry

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



Liquiflo MAX™ Series Helical Gear Pump

- **All stainless steel pump with stainless steel mounting bracket resists corrosion even in harsh environments**
- **Close-coupled design simplifies installation and eliminates pump & motor misalignment**
- **Heavy duty construction eliminates pump distortion due to piping misalignments**



Design allows easy removal of the pump from the bracket simplifying repair or replacement.

Liquiflo Max™ Series Gear Pumps for Metering and Transfer Applications



Pump Characteristics

PUMP MODEL	MAX SPEED* (RPM)	FLOW (Gal/Rev)	MAX PRESSURE (PSI)	PORT SIZE
Max-M2	3600	.0014	350	1/2"
Max-M3	3600	.0019	350	1/2"
Max-M4	3600	.0028	350	3/4"
Max-M5	1800	.0049	350	3/4"
Max-M6	1800	.0061	350	1"
Max-M7	1800	.0086	350	1 1/4"
Max-M8	1800	.011	350	1 1/2"

* Consult factory when operating over 1800 RPM.



Liquiflo MAX™ Series Helical Gear Pump

Materials of Construction Available

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

