

Hydraflo™ Pumps

Hydraulically-Driven Large-Volume Submersibles

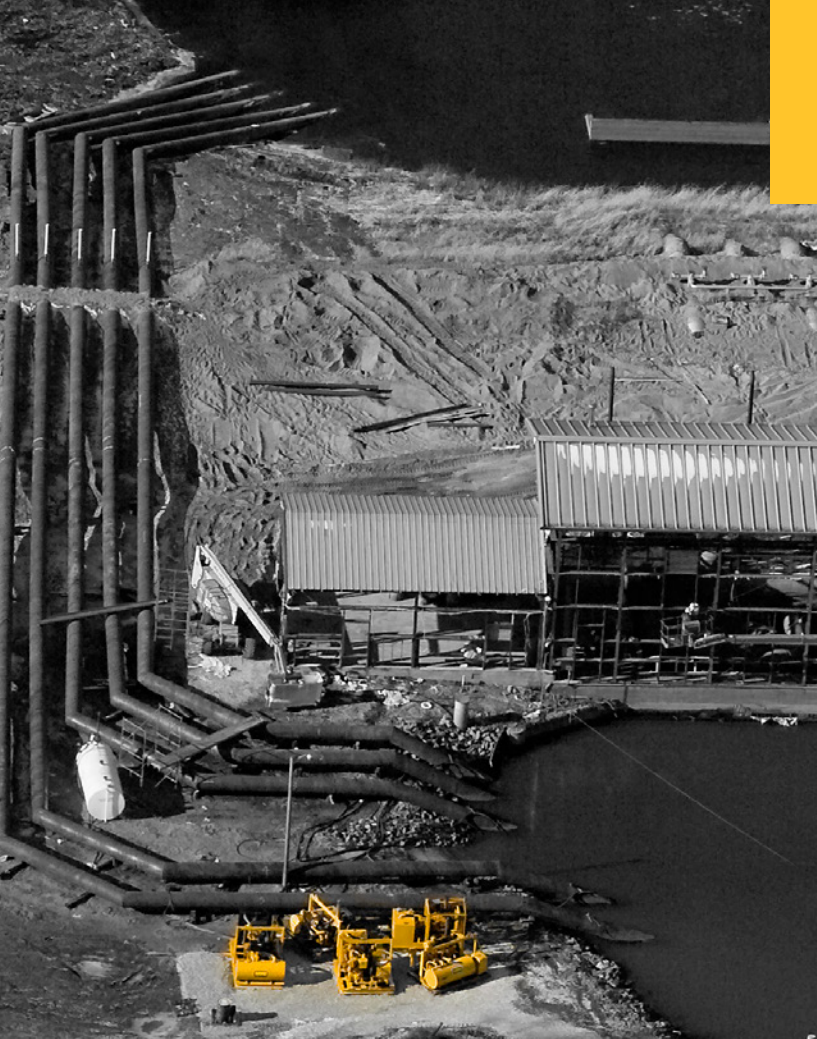


Heads up to 60ft./18.3M

Flows up to 120,000 GPM/7.6 M³/S

The Power to Move Water® Since 1926
mwipumps.com





The Hydraflo™ is a hydraulically driven submersible pump capable of moving large volumes of water while reducing installation cost and time. This pump features portability, versatility, and variable speed pumping control without the need for costly VFDs. Its prime mover can be installed remotely, saving a great deal in civil works.

Where MWI Pumps are Used



MUNICIPAL

- Flood control & storm water drainage
- Emergency pumping
- Sewer bypass & repair
- Pump station bypass
- Diesel backup pumps in case of power loss



MINES & QUARRIES

- Open pit & underground drainage
- Process water supply & transfer
- Aggregate wash down



INDUSTRIAL

- Large-volume processes
- Temporary raw water
- Wastewater bypass
- Water management



CONSTRUCTION

- Site dewatering & drainage
- River & stream bypass
- Surface water drawdown



MARINE

- Drydock
- Water transfer & waterway diversions
- Moving large volumes of water



AGRICULTURE

- Irrigation
- Aquaculture
- Flood control



BELOW

30" Mobile Hydraflo™
24" Mobile pump available



Hydraflo™ Features Advantages Beyond Compare

Hydraflo™ pumps get the job done quickly and effectively while saving up to 40% on civil works costs. Our units can do the work of many traditional pumps without the need to build complex housing structures thereby decreasing the bottom line and complexity of the job. These large water pumps can be set up in a matter of hours rather than months, which eliminates time and labor spent on installation, allows for portability, and provides variable speed control. We offer several hydraulic fluid options to choose from, and each is biodegradable.



A Fully-Operational Pump Station in Days

FAST INSTALLATION AND SETUP

Saves time and money

BUILT TOUGH FOR LONG LIFE

Designed heavy-duty & durable for the toughest jobs

INSTALLATION STATION SAVINGS

Save up to 40% on civil works/facility building costs

VARIABLE FLOW

Variable speed pumping control without the need for costly VFDs

RUN-DRY ENDURANCE

Oil lubricated mechanical seals allow the pump to run dry and safely shut down without damage to internal components

ENVIRONMENTALLY-FRIENDLY

Biodegradable hydraulic fluid used

HEAVY TRASH LOADING

Large capacity can handle up to 6"

VERSATILE & STACKABLE

Bolt-together feature allows for higher-head applications. Each unit has a low profile and can be installed vertically, angled, or horizontally.

QUICK PARTS & SERVICE

USA made with standard off-the-shelf bearings and seals allowing for quick response and lower replacement cost, means less downtime when service is needed

LESS MAINTENANCE REQUIRED

Streamlined design allows for low submergence, less costly operation and minimal wear

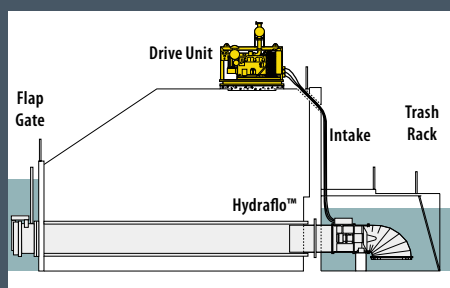


SCAN TO VIEW – Watch our 60 second video of a 100,000 GPM Hydraflo™ pump station installation completed in a matter of days!

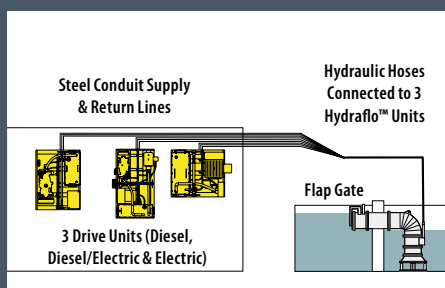
Installations & Applications

Customized to suit your needs

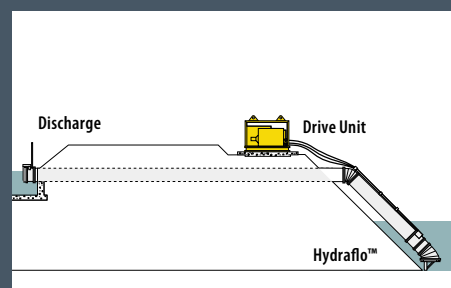
HORIZONTAL



VERTICAL

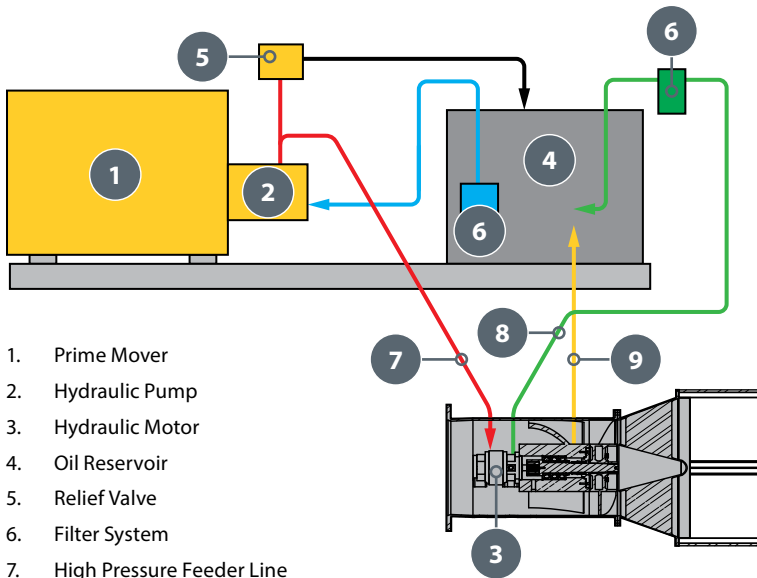


ANGLED



- Low profile
- Reduced cost civil works
- Retrofit existing pump stations
- Dual power for emergency backup
- Remote located drive unit
- Installs in multiple configurations (see above)

How the Hydraulic System Works



1. Prime Mover
2. Hydraulic Pump
3. Hydraulic Motor
4. Oil Reservoir
5. Relief Valve
6. Filter System
7. High Pressure Feeder Line
8. Low Pressure Return Line
9. Case Drain

Explore the functionality of our high-performance hydraulic system. The prime mover can be a diesel engine, electric motor or a combination of both to propel this unique hydraulic pump. The pump seamlessly supplies oil to the hydraulic motor housed within the water pump, which spins the hydraulic motor that is directly connected to the propeller. The hydraulic oil efficiently returns to the oil reservoir through the return filter. Navigating through a strainer, the hydraulic oil resumes its journey back to the hydraulic pump, thereby closing the circuit seamlessly.

Safe & Reliable

A relief valve from the high pressure side to the oil reservoir, serves as a fail-safe to bypass the power transmission fluid and divert flow in the event that an object gets lodged in the propeller. This distinctive safety feature, exclusive to Hydraflo™ systems, shields all components from potentially damaging “shock loads.”. Where variable flows are needed (such as in sewage effluent or “piped in” stormwater pumping), the propeller speeds can be infinitely adjusted automatically through the hydraulic power transmission system to optimally align with diverse water flow and head conditions.



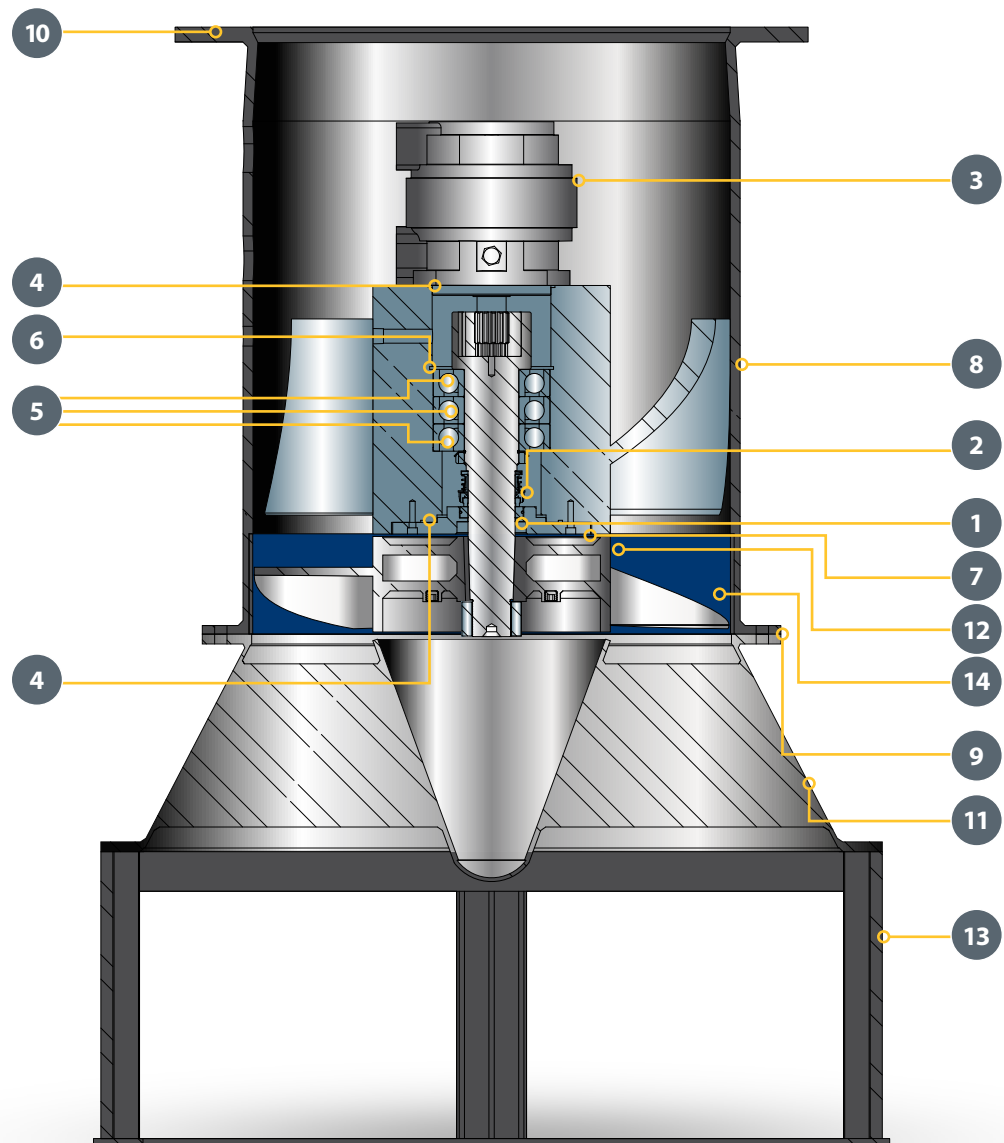
1 & 2-Way Gate Pump System

Turn any location with an existing gate into a pump station. MWI has been creating 2-way water pumping systems for decades. Choose from cast iron slide or flap gates, fabricated slide or flap gates, rectangular butterfly gates, stop logs, lifts and additional accessories.

- Simple design makes maintenance easy
- Efficient pumps save money on operating costs
- Lightweight yet durable sluice gate
- Intake bell designed to minimize vortex under low water levels
- Easy to install, low installation costs
- Durable and corrosion-resistant construction
- Can be custom designed to fit your specifications and existing structure
- No additional civil works, created to fit standard gate

Components Materials & Options

1. Lip Seal
2. Mechanical Seal
3. Hydraulic Motor
4. O-Ring
5. Bearing
6. Retainer Ring
7. Endplate
8. Diffuser
9. Gasket-Intake
10. Gasket-Discharge
11. Intake Bell
12. Propeller
13. Intake Stand
14. Liner



MWI Hydraflo™ water pumps are custom built to the customer's specifications. Our in-house team of professional, certified engineers work with our clients to customize the application-focused product while providing the highest quality service.

The materials and options shown are typical, but alternative materials are available. MWI can manufacture in exotic materials - for example duplex-type stainless steels, if requested. Each pump size, dimension, construction and capacity will vary based on customization to meet the needs of the customer.

MATERIALS & OPTIONS

Intake bell	A242/A588 Cor-Ten (A36 steel, 304 & 316 stainless steel options)
Impeller hub	A36 steel (304 and 316 stainless steel options)
Impeller blades	304 stainless steel (316 stainless steel options)
Impeller wear ring	304 stainless steel (316 stainless steel options)
Pump shaft	304 stainless steel (316 stainless steel options)
Diffuser housing	A242/A588 Cor-Ten (A36 steel, 304 & 316 stainless steel options)
Lip seal endplate	A36 steel (304 and 316 stainless steel options)
Bearing box	A36 steel (304 and 316 stainless steel options)
Fasteners	Carbon steel (18-8 and 316 stainless steel options)
Mechanical seal faces	Silicon carbide
Thrust bearings	Angular contact
Coating	Intergard 345 epoxy

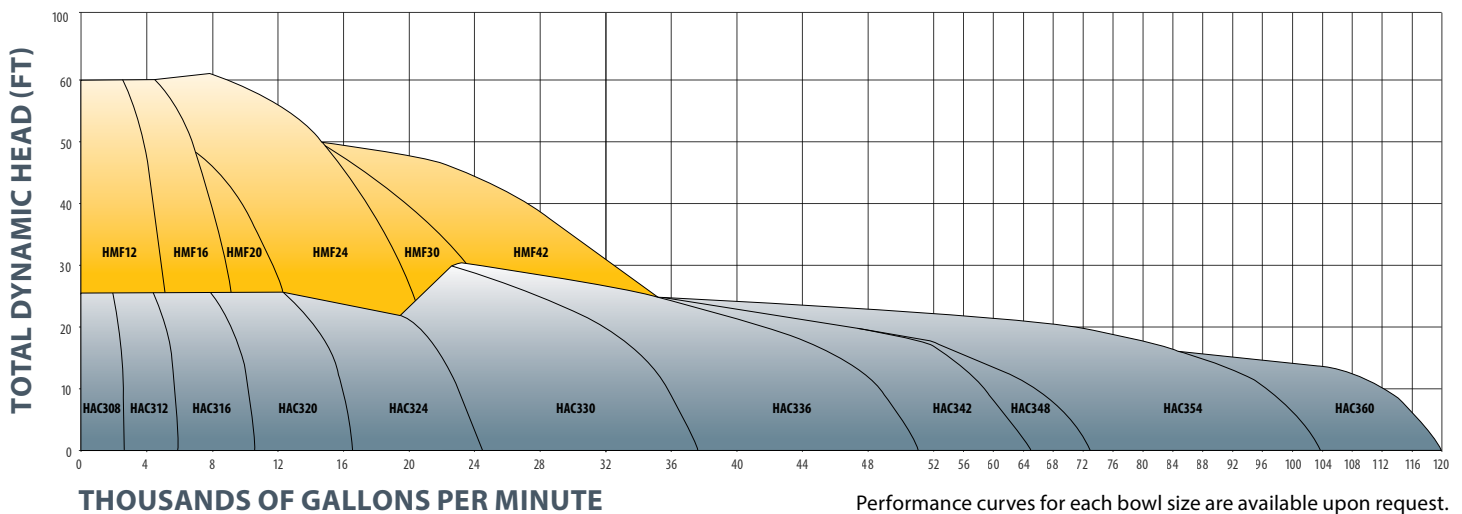
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These pumps carry all the stormwater from the pipe to the sea. That's why the levels are kept under control and the mitigation worked faster. If we did not have those pumps, all parts of our town would have been flooded.

Hydraflo™ pumps provide an efficient, elegant solution of pumping more water without the need for additional units to sustain the agricultural pumping capacity needed to irrigate our sugar crops no matter if we are faced with a drought or severe rainfall.

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Performance



Performance curves for each bowl size are available upon request.



HYDRAFLO™

About MWI Pumps

MWI Pumps is an American-made ISO 9001:2015 and 14001:2015 certified pump manufacturer based in Deerfield Beach, Florida. Each pump is constructed using innovative, patented design concepts and heavy-duty materials to ensure durability and reliability. Further quality measures include indoor testing per H.I. 14.6 for flows up to 150,000 GPM. Our pumps are offered at competitive prices, and we always put our customers at the first. With our in-house team of engineers, years of experience, product variety, extensive rental fleet, and ability to customize each pump, we meet or exceed the needs of any job no matter the size.

Founded in 1926, MWI Pumps specializes in the design, manufacturing and construction of high-efficiency, large-volume axial- and mixed-flow propeller water pumps, centrifugal and mobile pumps, and village water supply units. Known around the world to be proven and safe, our industrial rugged pumps are ideal for a variety of applications, including:

- Construction dewatering
- Sewage bypass pumping
- Flood control
- Emergency pumping
- Final effluent
- Storm water pump stations
- Open pit dewatering
- Water management
- Dam bypass
- Agricultural pumping and more

MWI has provided professional pump rental and repair services since 1968, with locations throughout Florida, and representatives throughout the USA and worldwide. Contact us to learn more about our water pumps, pump repair, pump sales, cost-effective rentals, and other industrial water pump manufacturing services.

MWI Pumps

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