MYERS® MW SERIES

The Myers MW series sewage pumps are designed for light commercial and residential raw sewage applications. The enclosed two-vane impeller provides high-efficiency pumping and will easily handle stringy, trashy 2" solids without clogging. The heavy-duty cast iron construction ensures years of service in demanding applications. Available in single- and double seal models; cast iron and optional bronze impeller models.



APPLICATIONS

Sewage, high-capacity sump, effluent

SPECIFICATIONS

Capacities – Up to 165 GPM (624 LPM)
Shut-off Head – Up to 70' (21.3 m)
Solids Handling – 2" (50.8 mm)
Liquids Handling – Domestic sewage and drain water
Intermittent Liquid Temperature – Up to 140°F (60°C)
Motor/Electrical Data – 1/2 to 2 HP, 208/230V, 1Ø; 208/230/460/575V, 3Ø, oil-filled, permanent split, capacitor type, 1Ø, 3450 RPM, 60Hz
Acceptable pH Range – 5-9
Discharge, NPT – 2" (50.8 mm)
Housing – Cast iron
Power Cord – 20'
Impeller – Ductile iron; bronze (optional) available on double seal models – consult Factory
Volute Case – Class 30 cast iron
Shaft Seal – Type 21, carbon and ceramic
Minimum Sump Diameter –
Simplex: 24" (61 cm)
Duplex: 36" (91.4 cm)

FEATURES

Cast Iron Tough
All cast-iron housing and volute case stand tough against extremely corrosive environments

No Jamming
Enclosed impeller design eliminates jamming between impeller and volute – cast iron or bronze (optional)

Powerful Starts
High-torque, permanent split capacitor (PSC) motor; no starting switches or relays to wear out

Motor Protection
Rugged, oil-filled motor for bearing lubrication and maximum heat dissipation

Guards Against Leaks
Optional leak probe senses water leakage past seal (dual seal motors only)

Prevents Overheating
Heat sensor overload protection with automatic reset when motor cools to a safe operating temperature (single phase only)

Easy Service
Remove only four screws for motor access; volute seal ring is replaceable

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ORDERING INFORMATION

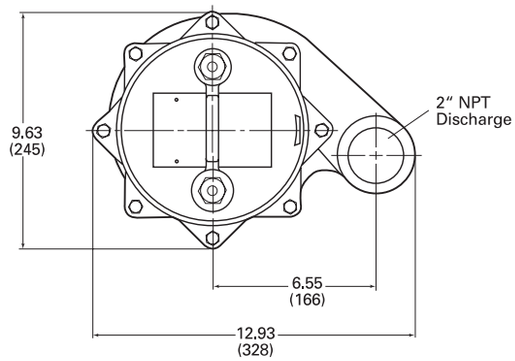
Catalog Number	HP	Volts	Phase/ Cycles	Discharge Size	Switch Type	Approx. Cord Length	Wt. Lbs.
SINGLE SEAL							
MWH50-01	1/2	200	1/60	2"	Manual	20'	84
MWH50-01P	1/2	200	1/60	2"	Automatic*	20'	84
MWH50-21	1/2	230	1/60	2"	Manual	20'	84
MWH50-21P	1/2	230	1/60	2"	Automatic*	20'	84
MWH50-03	1/2	200	3/60	2"	Manual	20'	84
MWH50-23	1/2	230	3/60	2"	Manual	20'	84
MWH50-43	1/2	460	3/60	2"	Manual	20'	84
MWH50-53	1/2	575	3/60	2"	Manual	20'	84
MW100-01	1	200	1/60	2"	Manual	20'	86
MW100-21	1	230	1/60	2"	Manual	20'	86
MW100-03	1	200	3/60	2"	Manual	20'	86
MW100-23	1	230	3/60	2"	Manual	20'	86
MW100-43	1	460	3/60	2"	Manual	20'	86
MW100-53	1	575	3/60	2"	Manual	20'	86
MW150-01	1-1/2	200	1/60	2"	Manual	20'	87
MW150-21	1-1/2	230	1/60	2"	Manual	20'	87
MW150-03	1-1/2	200	3/60	2"	Manual	20'	87
MW150-23	1-1/2	230	3/60	2"	Manual	20'	87
MW150-43	1-1/2	460	3/60	2"	Manual	20'	87
MW150-53	1-1/2	575	3/60	2"	Manual	20'	87
MW200-01	2	200	1/60	2"	Manual	20'	88
MW200-21	2	230	1/60	2"	Manual	20'	88
MW200-03	2	200	3/60	2"	Manual	20'	88
MW200-23	2	230	3/60	2"	Manual	20'	88
MW200-43	2	460	3/60	2"	Manual	20'	88
MW200-53	2	575	3/60	2"	Manual	20'	88

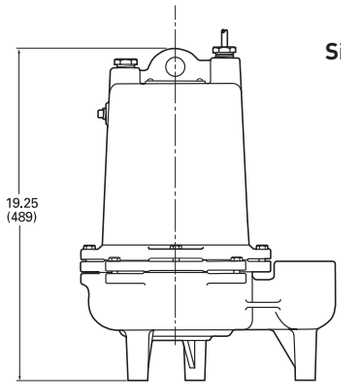
*Piggyback

Note: Consult factory for Double Seal models

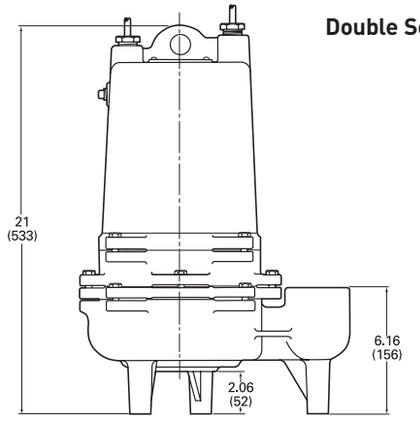
MYERS® MW SERIES

DIMENSIONS



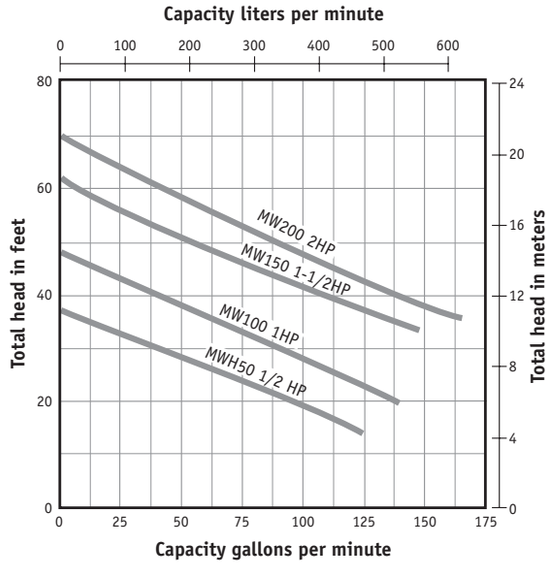


Single Seal



Double Seal

PUMP PERFORMANCE



MYERS® MW SERIES

SPECIFICATIONS

Sewage Pumps – Pump(s) shall be F. E. Myers MW series single/double seal sewage pumps selected in accordance with the following design criteria:

Number of Pumps:	_____	Motor Horsepower:	_____
Primary Design Flow:	_____	Motor Speed:	3450 RPM
Primary Design Head:	_____	Electrical:	_____
Minimum Shut-off Head:	_____		

Pump – The pump shall be designed to handle raw sewage and be capable of passing 2 inch spherical solids. The pump shall be capable of handling liquids with temperatures to 140°F intermittent and shall be capable of running dry without damage to the seals or bearings.

Motor – The pump motor shall be of the submersible type rated 1/2, 1, 1-1/2 or 2 hp as required. Motor shall operate at 3450 RPM and shall be for 208 or 230 volts single phase, or 200, 230, 460, or 575 volts, 3 phase, 60 cycles. Single phase motors shall be of the permanent split capacitor type with no relays or starting switches. Three phase motors shall be squirrel cage induction type. Stator winding shall be of the open type with Class B insulation rated for 130°C maximum operating temperature. The winding housing will be filled with clean dielectric oil to lubricate bearings, seals, and transfer heat from the windings to the outer shell. The motor assembly shall be of the standard frame design and shall be secured in place by four threaded fasteners allowing for easy field serviceability.

The motor shall be capable of operating over the full range of the performance curve without overloading the motor and causing any objectionable noise or vibration. The common motor pump shaft shall be of 416 stainless steel and shall be heat shrunk into the die cast motor rotor. The motor shall have two bearings to support the rotor; an upper ball bearing to accommodate radial loads and a lower ball bearing to take thrust and radial loads. Ball bearings shall be designed for a B-10 life of 50,000 hours.

A heat sensor thermostat and overload shall be attached to the top end of the motor windings and shall be wired in series with the windings to stop the motor if the motor winding temperature reaches 266°F. The overload thermostat shall reset automatically when the motor cools to a safe operating temperature. Three phase motors shall be protected by 3 leg overload relay in control box. Overload shall be of the quick trip ambient compensated type and shall have manual reset button.

Power Cord – The motor power cord shall be SOOW. The cable jacket shall be sealed at the motor entrance by means of a rubber compression washer and compression nut. A heat shrink tube filled with epoxy shall seal the outer cable jacket and the individual leads to prevent water from entering the motor housing.

Shaft Seal (Single Seal) – The motor shall be protected by a rotating mechanical shaft seal. The seal shall have carbon and ceramic seal faces lapped to a tolerance of one light band. Metal parts and springs for seals shall be 300 series stainless steel.

Shaft Seal (Double Seal) – The motor shall be protected by two (2) rotating mechanical shaft seals mounted in tandem with an oil filled chamber separating the seals. The seals shall have carbon and ceramic seal faces lapped to a tolerance of one light band. Metal parts and springs for seals shall be 300 series stainless steel. Two electrical sensing probes shall be mounted in the seal chamber to detect any water leakage past the lower seal. The sensing probes shall be connected to a red warning light in the control panel. The warning light shall serve to indicate a seal leak condition and shall not stop the pump.

Pump Impeller – The pump impeller shall be of the two vane enclosed type. The impeller shall be constructed of ductile iron or optional bronze. A replaceable Buna-N sealing cup shall effect a seal between the volute and impeller in order to maintain high efficiency and prevent recirculation. The impeller shall be threaded onto the 416 stainless steel pump/motor shaft.

Pump and Motor Castings – All castings shall be of high tensile strength Class 30 gray cast iron. Castings shall be treated with phosphate rinse and painted with a high quality air dry alkyd enamel.

Fasteners – All exposed fasteners shall be of 300 series stainless steel.

PENTAIR

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