



Wastewater Pumps



# Wastewater Pumps

Pump Catalog - January 2020

MORE THAN A BRAND. WE'RE A FAMILY.



# Sewage & Effluent Features



## Effluent Pumps 4/10 & 1/2 HP

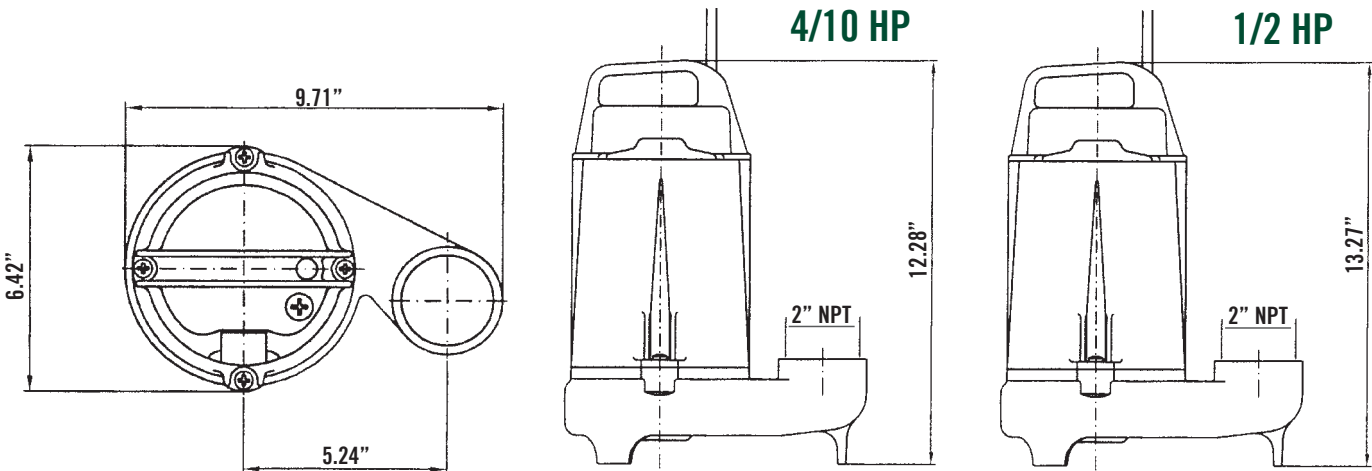
Rugged, cast iron submersible ideal for residential and light commercial wastewater applications. Contains upper & lower ball bearings which reduces heat and increases life of the pump. Available with or without piggyback float switch.

### Features:

- High torque capacitor start motors
- 2" NPT vertical discharge, vortex impellers
- Cast iron housings
- Stainless steel fasteners and motor shaft
- Oil-filled motors (non-toxic oil)
- Integrated clip for float switch cable



### Dimensions



### Specifications

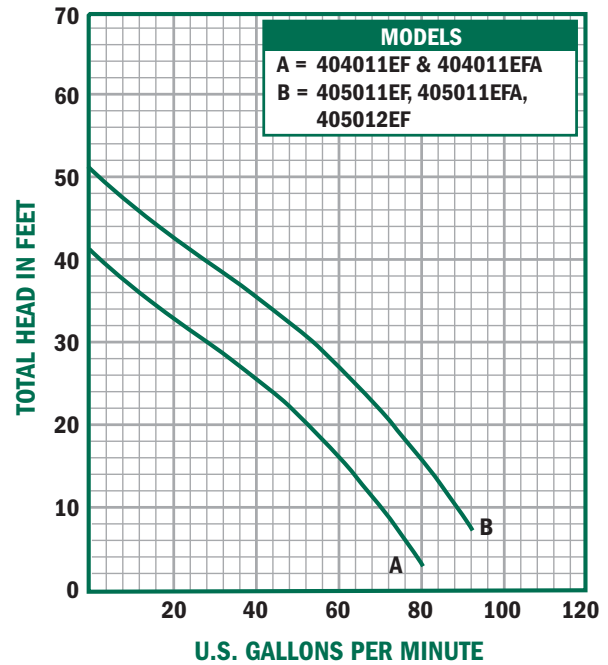
Model No.	Voltage	HP	Phase	Solids Size	Hertz	Speed (RPM)	Discharge	Weight	Cable Length(ft.)	Float Included
404011EF	115	4/10	1	3/4"	60	3450	2" Vert NPT	32	15	N
404011EFA	115	4/10	1	3/4"	60	3450	2" Vert NPT	34	15	Y
405011EF	115	1/2	1	3/4"	60	3450	2" Vert NPT	36	15	N
405011EFA	115	1/2	1	3/4"	60	3450	2" Vert NPT	38	15	Y
405012EF	230	1/2	1	3/4"	60	3450	2" Vert NPT	36	15	N

# Effluent Pumps

## 4/10 & 1/2 HP

### Materials of Construction & Motor Specifications

Motor Housing	Cast Iron ASTM A48 Class 30
Volute	Cast Iron ASTM A48 Class 30
External Hardware	304 Stainless Steel
O-ring	Buna-N
Motor Shaft	420 Stainless
Oil	Non-toxic white mineral oil (Marcol 52)
Upper Bearing	Single row ball bearing
Lower Bearing	Single row ball bearing
Lower Shaft Seal	Spring loaded rotating carbon face w/ stationary ceramic face
Impeller	Polybutylene Terephthalate (PBT) 30% glass fiber, Vortex
Motor Design	NEMA design B, squirrel cage induction, oil-filled (non toxic)
Motor Type	Enclosed submersible
Insulation Class	Class B, rated at 248° F(120° C)
Motor Protection	Integral Bi-Metallic current sensing switch providing over temperature shut down
Service Factor	1.10
Voltage Tolerance	± 10% from nominal
Slinger	Neoprene
Shipping weight	6 lbs.



### Motor Data, 60 Hz

Model No.	Phase	Rated Output Power	Volts	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Power Factor 100% Load	Motor Efficiency 100% Load	Pole/Speed (RPM)	Float Included
404011EF	1	0.4 HP	115	9.1	40	N	0.6	49	2/3450	N
404011EFA	1	0.4 HP	115	9.1	40	N	0.6	49	2/3450	Y
405011EF	1	0.5 HP	115	13.2	58.5	P	0.85	50	2/3450	N
405011EFA	1	0.5 HP	115	13.2	58.5	P	0.85	50	2/3450	Y
405012EF	1	0.5 HP	230	6.6	35.2	S	0.85	50	2/3450	N

### Cable Specifications

Model No.	Volts	Power Cable	Length (Feet)	Outer Jacket
404011EF	115 Volt	16/3 SJTOW-A or equiv. w/ 3 prong plug	15	Thermoplastic Elastomer
404011EFA	115 Volt	16/3 SJTOW-A or equiv. w/ 3 prong plug	15	Thermoplastic Elastomer
405011EF	115 Volt	16/3 SJE00W or equiv. w/ 3 prong plug	15	Thermoplastic Elastomer
405011EFA	115 Volt	16/3 SJE00W or equiv. w/ 3 prong plug	15	Thermoplastic Elastomer
405012EF	230 Volt	16/3 SJE00W or equiv. w/ 3 prong plug	15	Thermoplastic Elastomer

## Effluent Pumps

### 1 HP

Featuring a rugged, cast iron construction with stainless steel fasteners and motor shaft submersible pumps for residential, commercial, municipal, and industrial applications.

With the exclusive triple seal system, this pump offers three levels of sealing for outstanding reliability! A double mechanical seal located inside the oil chamber provides two full levels of sealing. An additional V-Ring type lip seal between the oil chamber and pump volute provides a third, extra level of sealing, and enhanced mechanical seal protection.

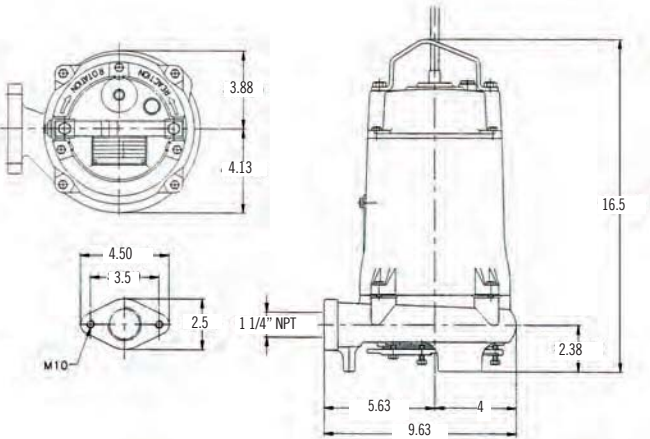
#### Features:

- Unique triple seal design
- Patented Contra Block® impeller with adjustable wear plate system for clog-free operation
- Discharges: 1 1/4" on 1 HP High Head, 2" on 1 HP Standard Head
- High torque capacitor start single phase motors
- Oil-filled motors (non-toxic oil)
- Stainless steel open loop lifting bale for ease of removal
- Continuous duty

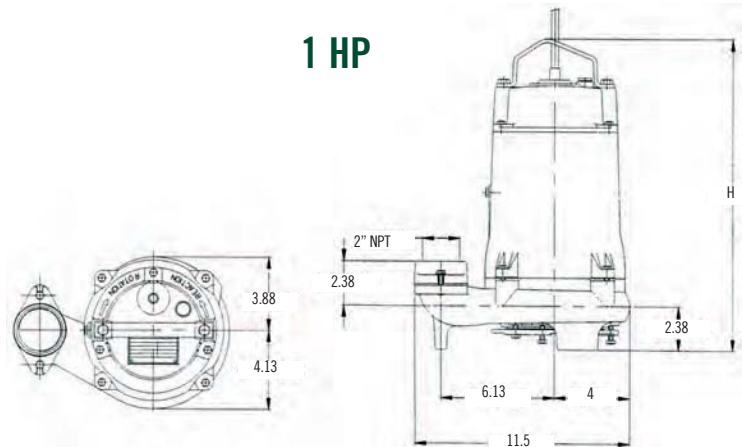


#### Dimensions

#### 1 HP HH



#### 1 HP



#### Specifications

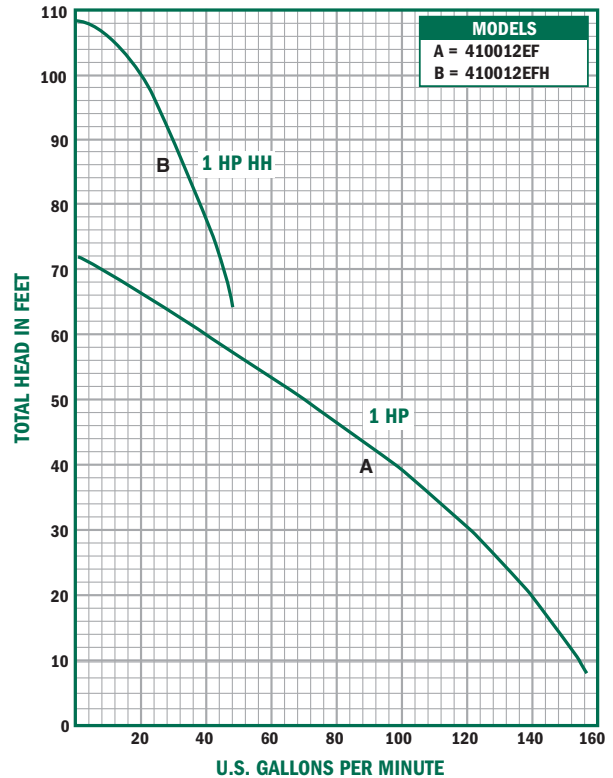
Model No.	Voltage	HP	Phase	Solids Size	Hertz	Speed (RPM)	Discharge	Weight	Cable Length(ft.)	Float Included
410012EF	208-230	1	1	3/4"	60	3450	Vertical NPT 2"	71	15	N
410012EFH	230	1	1	5/8"	60	3450	Horizontal NPT 1 1/4"	70	20	N

# Effluent Pumps

## 1 HP

### Materials of Construction & Motor Specifications

Upper Motor Lid	Cast Iron ASTM A48 Class 30
Motor Housing	Cast Iron ASTM A48 Class 30
Oil Chamber	Cast Iron ASTM A48 Class 30
Volute	Cast Iron ASTM A48 Class 30
Bottom Plate	Cast Iron ASTM A48 Class 30
Impeller	Cast Iron ASTM A48 Class 30
Lifting Bail	AISI 304 Stainless Steel
Oil (motor & oil chamber)	Non-toxic white mineral oil (Marcol 52)
External Hardware	AISI 304 Stainless Steel
O-rings	Buna-N
Motor Shaft	AISI 420 Stainless Steel
Upper & Lower Bearing(s)	Single row ball bearing
Upper Shaft Seal (secondary)	Rotating carbon face w/ stationary ceramic face
Lower Shaft Seal (primary)	Rotating carbon face w/ stationary ceramic face Includes V-ring lip seal for lower seal protection.
Motor Design	NEMA design B, squirrel cage induction, oil filled, non toxic oil
Motor Type	Enclosed submersible
Insulation Class	Class B, rated at 248° F
Motor Protection	Single Phase: Internal thermal protection with automatic reset. Installer must provide circuit breaker for short circuit protection per N.E.C. standards. Three Phase: Installer must provide external motor overload protection device such as a contactor w/ thermal relay, and circuit breaker for short circuit protection per N.E.C. standards.
Service Factor	1.15
Voltage Tolerance	± 10% from name plate rating



### Motor Data, 60 Hz

Model No.	Phase	Rated Output BHP	Volts	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Pole/Speed (RPM)
410012EF	1*	1.0	230	13.0	45.5	M	2/3450
410012EFH	1	1.0	230	13.0	45.5	M	2/3450

\* Start switch and capacitor integrated into top of pump.

\*\* These three phase motors are tri-voltage, 208/230/460.

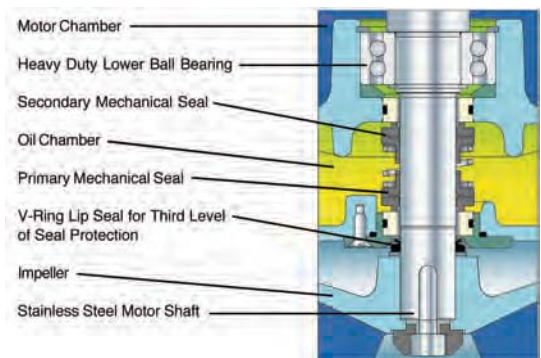
### Cable Specifications

Model No.	Volts	Power Cable	Diameter	Length (Feet)	Outer Jacket
410012EF	230	14/3 SJE00W	0.36IN (9.2MM)	20ft (6m)	Thermoplastic Elastomer

- Maximum submergence, ft. - 30

- Maximum temp. of pumped fluid - (40°C) 104°F continuous, (50°C) 122°F intermittent

### Triple Seal System



## Thermoplastic - Effluent

Reinforced Thermoplastic motor bracket and discharge with built-in guide bearing. Sizes range from 1/2 HP - 1 1/2 HP. The 300 series stainless steel top bearing and motor coupling. These are assembled with our A.Y. McDonald stainless steel motors. Two wire single phase models include pump, motor, and 10' lead, 25', 50' & 100' available.

All four inch submersibles are supplied with grounded leads meeting the National Electrical Code (N.E.C.) specifications.

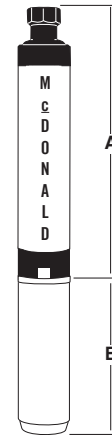
The performance curves on the following page will assist you in choosing the pump that meets your needs.

### Features:

- Stainless steel pump shell and pump shaft
- Reinforced Thermoplastic diffusers and impellers
- Internal, anti-spin check valve standard
- Thermoplastic intake screen and cable guard
- Powered by A.Y. McDonald submersible motors 1/2 - 1 1/2 HP.
- 1 1/4" FNPT Discharge

### Models

- 5 GPM - J Series
- 7 GPM - V Series
- 10 GPM - K Series
- 15 GPM - L Series
- 20 GPM - P Series
- 30 GPM - E Series



### High Head Effluent Pumps

Model	Flow	HP	Voltage	10' Lead	10' Lead	25' Lead	50' Lead	100' Lead
					X996*	X993*	X995*	X994*
22050K2AJ	10	1/2	115	Standard				
22050K2J	10	1/2	230	Standard				
22075K2J	10	3/4	230	Standard				
22100K2J	10	1	230	Standard				
22150K2J	10	1 1/2	230	Standard				
22050P2AJ	20	1/2	115	Standard				
22050P2J	20	1/2	230	Standard				
22075P2J	20	3/4	230	Standard				
22100P2J	20	1	230	Standard				
22150P2J	20	1 1/2	230	Standard				
22050E2AJ	30	1/2	115	Standard				
22050E2J	30	1/2	230	Standard				
22075E2J	30	3/4	230	Standard				
22100E2J	30	1	230	Standard				
22150E2J	30	1 1/2	230	Standard				

\*Less check valve, cable guard, cable guard screws, with hole drilled into center of discharge

### Pump Ends

Model	Flowrate, gal / min	HP
22050KAJ	10	1/2
22075KJ	10	3/4
22100KJ	10	1
22150KJ	10	1 1/2
22050PAJ	20	1/2
22075PJ	20	3/4
22100PJ	20	1
22150PJ	20	1 1/2
22050EAJ	30	1/2
22075EJ	30	3/4
22100EJ	30	1
22150EJ	30	1 1/2

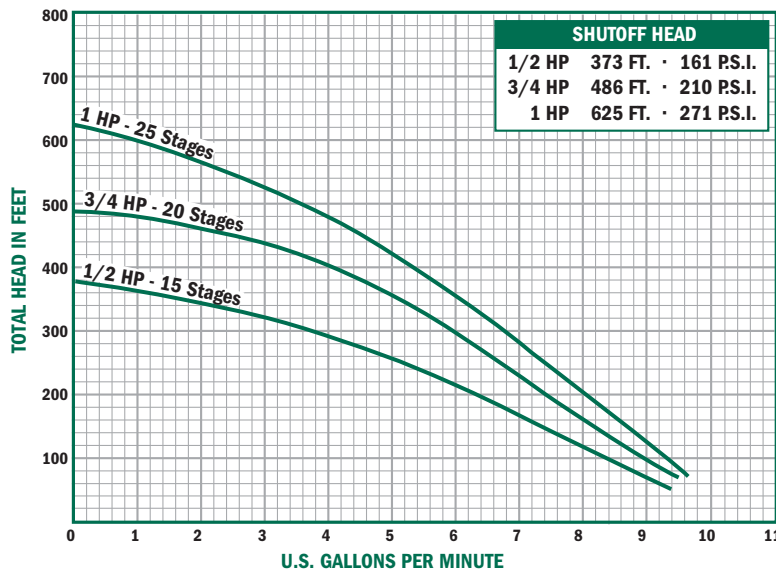
### Leads (use accessories discount)

AY Part #	# Wire	Length
3132-538	2	10
3132-539	2	25
3132-540	2	50
3132-541	2	100



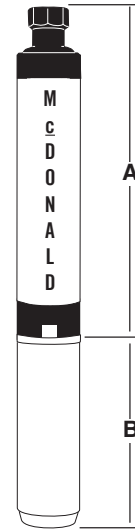
# Thermoplastic - Effluent

## J - 5 GPM

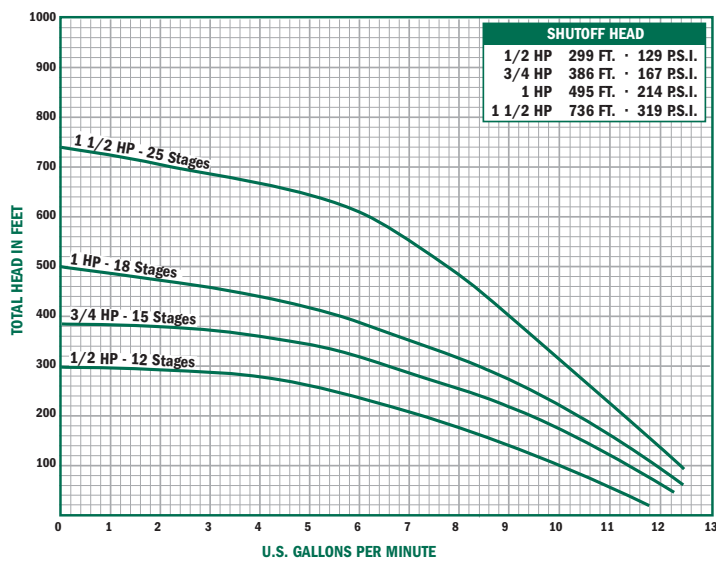


### Specifications

Model	HP	Material	Volts	Phase	A	B	Wt.
22050J2AJ	1/2	Plastic	115	1	16.6	9.5	26
22050J2J	1/2	Plastic	230	1	16.6	9.5	26
22075J2J	3/4	Plastic	230	1	20.3	10.7	30
22100J2J	1	Plastic	230	1	22.5	11.8	35

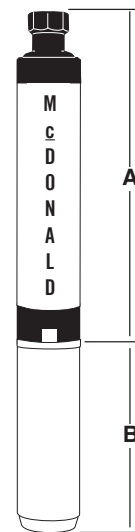


## V - 7 GPM



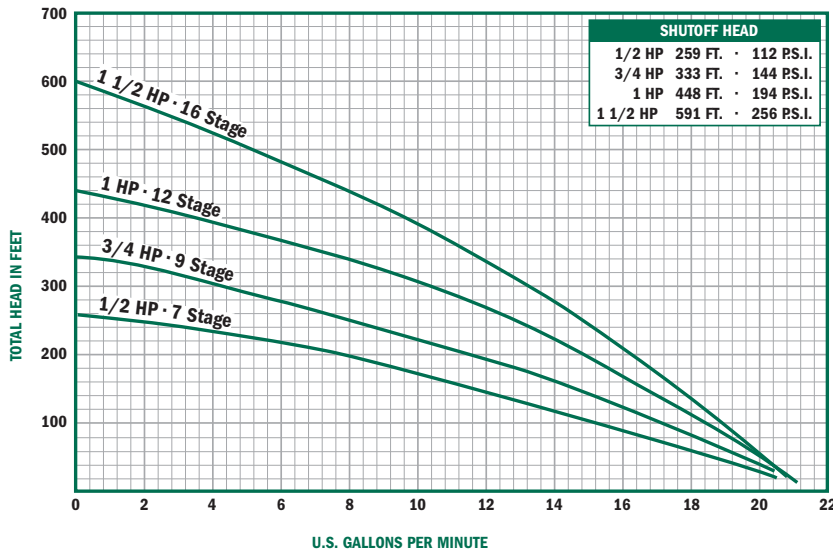
### Specifications

Model	HP	Material	Volts	Phase	A	B	Wt.
22050V2AJ	1/2	Plastic	115	1	14.3	9.5	25
22050V2J	1/2	Plastic	230	1	14.3	9.5	25
22075V2J	3/4	Plastic	230	1	16.6	10.7	28
22100V2J	1	Plastic	230	1	18.8	11.7	32
22150V2J	1 1/2	Plastic	230	1	24.0	13.6	40



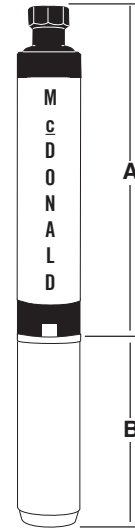
## Thermoplastic - Effluent

### K - 10 GPM

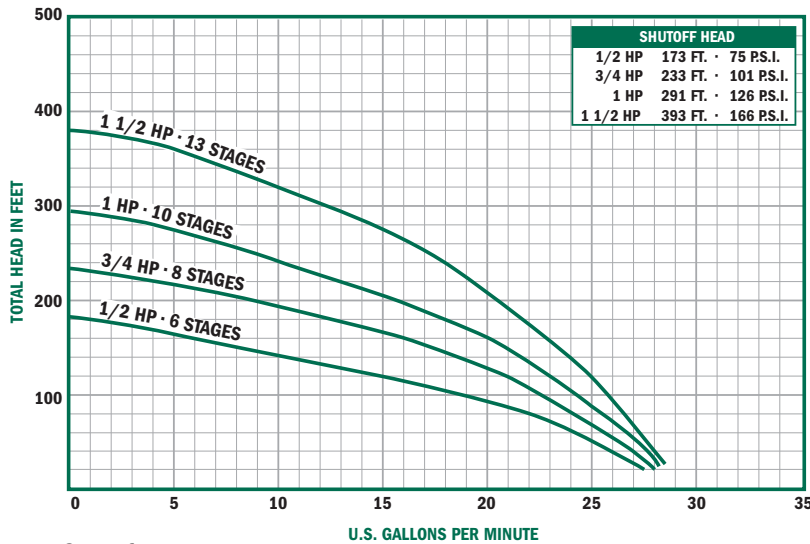


#### Specifications

Model	HP	Material	Volts	Phase	A	B	Wt.
22050K2AJ	1/2	Plastic	115	1	12.3	9.53	23
22050K2J	1/2	Plastic	230	1	12.3	9.53	22
22075K2J	3/4	Plastic	230	1	13.7	10.66	27
22100K2J	1	Plastic	230	1	16.0	11.75	31
22150K2J	1 1/2	Plastic	230	1	19.7	15.12	40

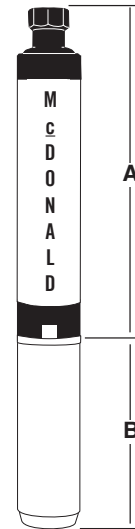


### L - 15 GPM



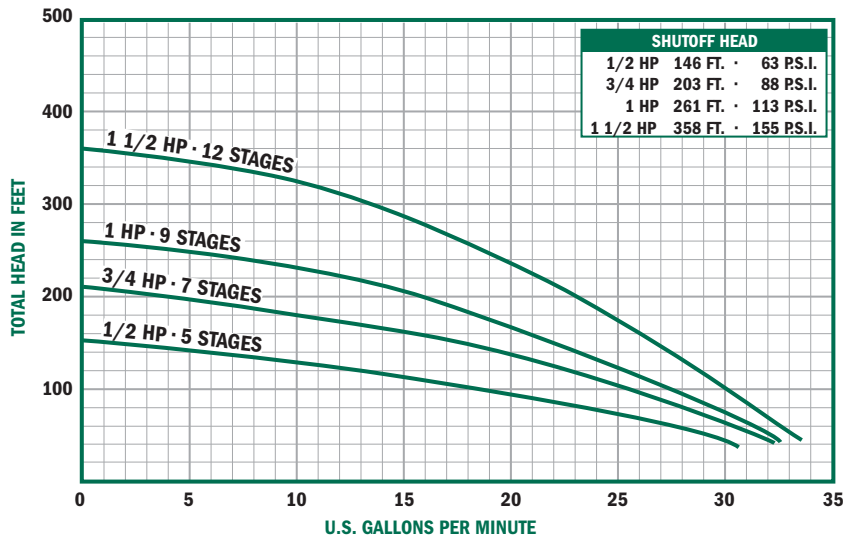
#### Specifications

Model	HP	Material	Volts	Phase	A	B	Wt.
22050L2AJ	1/2	Plastic	115	1	13.55	9.53	23
22050L2J	1/2	Plastic	230	1	13.55	9.53	23
22075L2J	3/4	Plastic	230	1	15.71	10.66	27
22100L2J	1	Plastic	230	1	17.85	11.75	31
22150L2J	1 1/2	Plastic	230	1	21.07	15.12	39



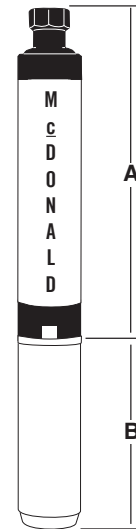
# Thermoplastic - Effluent

## P - 20 GPM

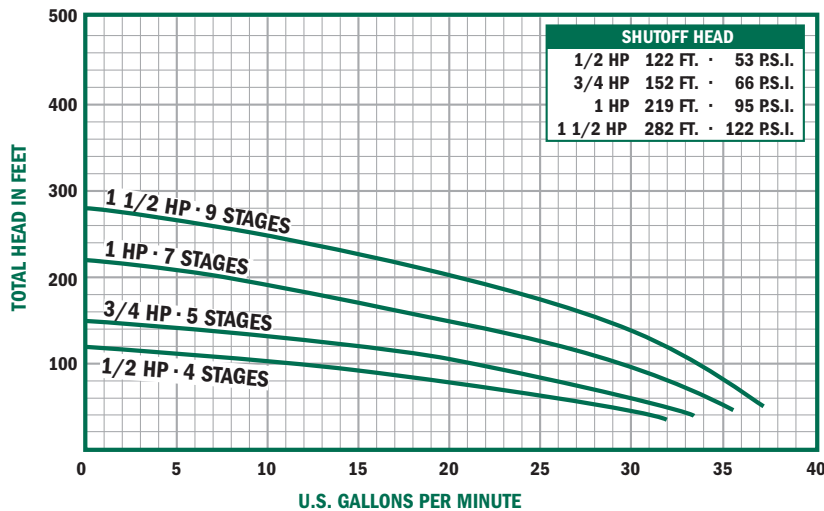


### Specifications

Model	HP	Material	Volts	Phase	A	B	Wt.
22050P2AJ	1/2	Plastic	115	1	12.48	9.53	23
22050P2J	1/2	Plastic	230	1	12.48	9.53	23
22075P2J	3/4	Plastic	230	1	14.63	10.66	27
22100P2J	1	Plastic	230	1	16.78	11.75	31
22150P2J	1 1/2	Plastic	230	1	20.00	15.12	41

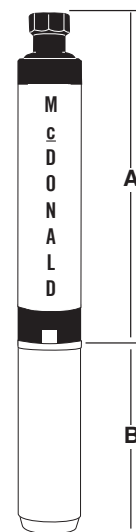


# E Series - 30 GPM



### Specifications

Model	HP	Material	Volts	Phase	A	B	Wt.
22050E2AJ	1/2	Plastic	115	1	10.94	9.53	23
22050E2J	1/2	Plastic	230	1	10.94	9.53	23
22075E2J	3/4	Plastic	230	1	12.48	10.66	25
22100E2J	1	Plastic	230	1	14.63	11.75	30
22150E2J	1 1/2	Plastic	230	1	16.78	15.12	39



## Sewage Ejector 4/10 HP

Rugged, cast iron housing for residential and light commercial wastewater applications. Stainless steel fasteners and motor shaft, also available with or without piggyback float switch.

### Features:

- High torque capacitor start motors
- Upper & lower ball bearings
- 2" NPT vertical discharge, vortex impellers
- Oil-filled motors (non-toxic oil)
- Integrated clip for float switch cable

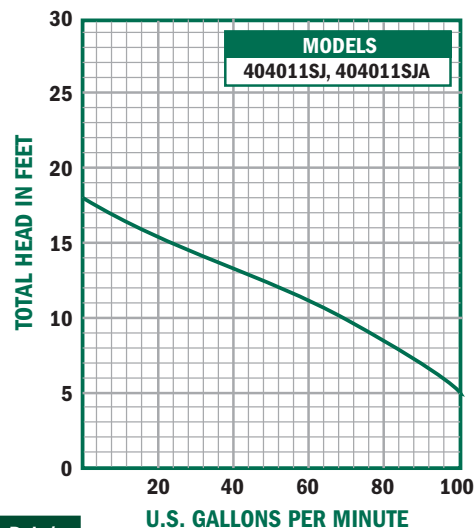
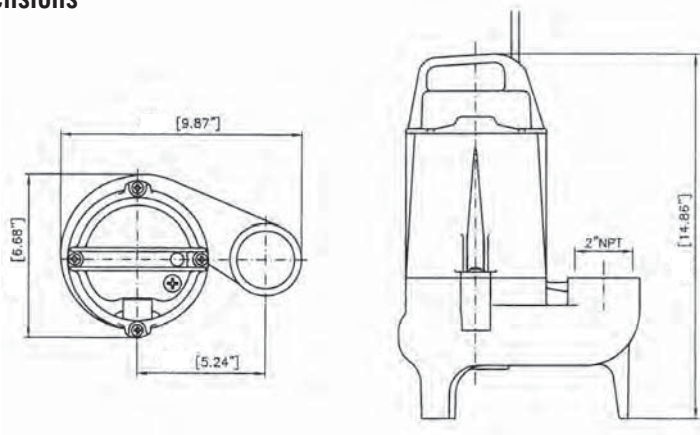


### Materials of Construction & Motor Specifications

Motor Housing	Cast Iron ASTM A48 Class 30
Volute	Cast Iron ASTM A48 Class 30
External Hardware	304 Stainless Steel
O-ring	Buna-N
Motor Shaft	420 Stainless
Oil	Non-toxic white mineral oil (Marcol 52)
Upper Bearing	Single row ball bearing
Lower Bearing	Single row ball bearing
Lower Shaft Seal	Spring loaded rotating carbon face w/ stationary ceramic face

Impeller	Polybutylene Terephthalate (PBT) 30% glass fiber, Vortex
Motor Design	NEMA design B, squirrel cage induction, oil filled (non toxic)
Motor Type	Enclosed submersible
Insulation Class	Class B, rated at 248°F(120° C)
Motor Protection	Integral Bi-Metallic current sensing switch providing over temperature shut down
Service Factor	1.10
Voltage Tolerance	± 10% from nominal

### Dimensions



### Motor Data, 60 Hz

Model No.	Phase	Rated Output BHP	Volts	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Power Factor 100% Load	Motor Efficiency 100% Load	Pole/Speed (RPM)
404011SJ	1	0.4 HP	115	6.6	17.7	F	0.92	57	4/1750
404011SJA	1	0.4 HP	115	6.6	17.7	F	0.92	57	4/1750

### Sewage Ejector & Cable Specifications

Model No.	Voltage	HP	Phase	Solids Size	Hertz	Speed (RPM)	Discharge	Weight	Cable Length(ft.)	Float Included	Outer Jacket
404011SJ	115	4/10	1	2"	60	1750	2" Vert NPT	35	15	N	Thermoplastic elastomer
404011SJA	115	4/10	1	2"	60	1750	2" Vert NPT	37	15	Y	Thermoplastic elastomer

- Power Cable - 16/3 SJTOW-A or equiv. w/ 3 prong plug
- Maximum submergence (feet) = 30
- Maximum temp. of pumped fluid = 104° F(40°C) continuous, =122°F (50°C) intermittent

## Sewage Ejector 1/2 HP

Rugged, cast iron housing for residential and light commercial wastewater applications. Stainless steel fasteners and motor shaft, also available with or without piggyback float switch.

### Features:

- High torque capacitor start motors
- Upper & lower ball bearings
- 2" NPT vertical discharge, vortex impellers
- Oil-filled motors (non-toxic oil)
- Integrated clip for float switch cable

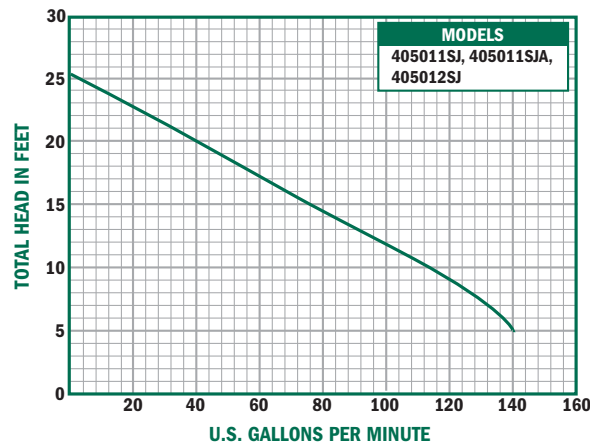
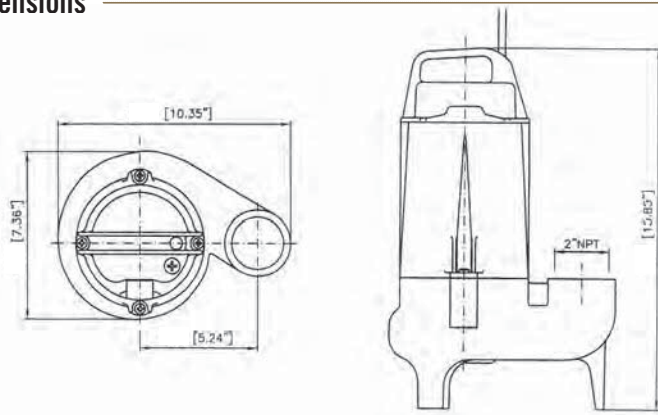


### Materials of Construction & Motor Specifications

Motor Housing	Cast Iron ASTM A48 Class 30
Volute	Cast Iron ASTM A48 Class 30
External Hardware	304 Stainless Steel
O-ring	Buna-N
Motor Shaft	420 Stainless
Oil	Non-toxic white mineral oil (Marcol 52)
Upper Bearing	Single row ball bearing
Lower Bearing	Single row ball bearing
Lower Shaft Seal	Spring loaded rotating carbon face w/ stationary ceramic face

Impeller	Polybutylene Terephthalate (PBT) 30% glass fiber, Vortex
Motor Design	NEMA design B, squirrel cage induction, oil filled (non toxic)
Motor Type	Enclosed submersible
Insulation Class	Class B, rated at 248°F(120° C)
Motor Protection	Integral Bi-Metallic current sensing switch providing over temperature shut down
Service Factor	1.10
Voltage Tolerance	± 10% from nominal

### Dimensions



### Motor Data, 60 Hz

Model No.	Phase	Rated Output BHP	Volts	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Power Factor 100% Load	Motor Efficiency 100% Load	Pole/Speed (RPM)
405011SJ	1	0.5	115	10.6	21.4	E	0.87	59	4/1750
405011SJA	1	0.5	115	10.6	21.4	E	0.87	59	4/1750
405012SJA	1	0.5	230	5.3	10.5	E	0.87	59	4/1750

- Power Cable - 16/3 SJTOW-A or equiv. w/ 3 prong plug
- Maximum submergence (feet) = 30
- Maximum temp. of pumped fluid = 104° F(40°C) continuous, = 122°F (50°C) intermittent

### Sewage Ejector & Cable Specifications

Model No.	Voltage	HP	Phase	Solids Size	Hertz	Speed (RPM)	Discharge	Weight	Cable Length(ft.)	Float Included	Outer Jacket
405011SJ	115	1/2	1	2"	60	1750	2" Vert NPT	37	15	N	Thermoplastic elastomer
405011SJA	115	1/2	1	2"	60	1750	2" Vert NPT	39	15	Y	Thermoplastic elastomer
405012SJA	230	1/2	1	2"	60	1750	2" Vert NPT	39	15	Y	Thermoplastic elastomer

## Sewage Ejector 1 HP

Rugged cast iron construction submersible pumps with stainless steel fasteners and motor shaft for residential, commercial, municipal, and industrial applications.

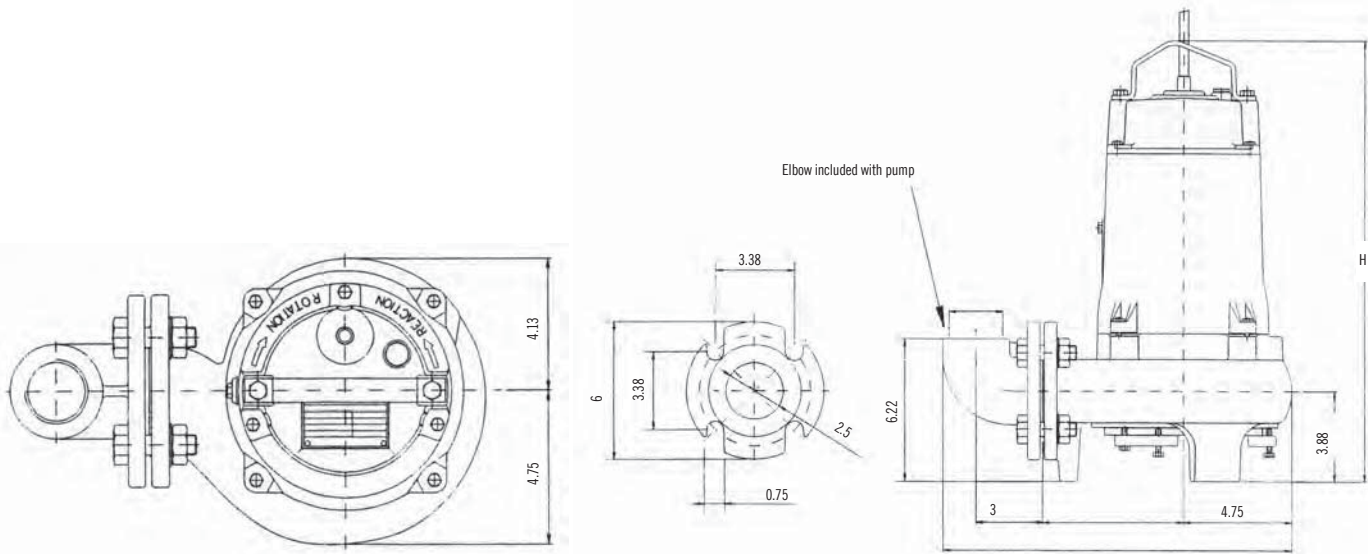
With the exclusive triple seal system, this pump offers three levels of sealing for outstanding reliability! A double mechanical seal located inside the oil chamber provides two full levels of sealing. An additional V-Ring type lip seal between the oil chamber and pump volute provides a third, extra level of sealing, and enhanced mechanical seal protection.

### Features:

- Unique triple seal design
- Patented Contra Block® impeller with adjustable wear plate system, for clog-free operation
- 2" Discharge
- High torque capacitor start single phase motors
- Rugged cast iron construction with stainless steel fasteners and motor shaft
- Oil-filled motors (non-toxic oil)
- Stainless steel open loop lifting bale for ease of removal



### Dimensions



### Specifications

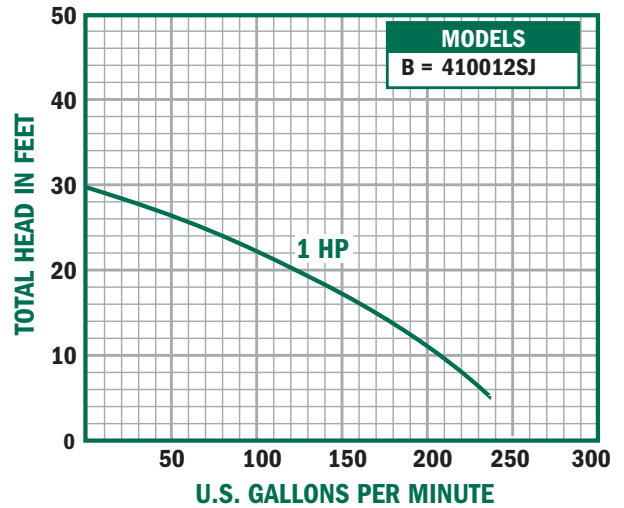
Model No.	Voltage	HP	Phase	Solids Size	Speed (RPM)	Amps	Discharge	Weight	Max Head (ft.)	Max Flow (GPM)
410012SJ	208/230	1	1	2"	1750	11.1-10.0	Horiz. Flange **	84	30	240

# Sewage Ejector

## 1 HP

### Materials of Construction & Motor Specifications

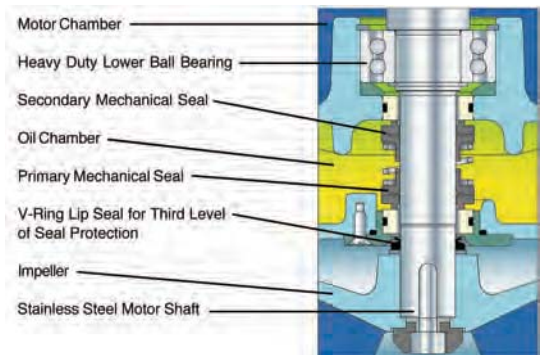
Upper Motor Lid	Cast Iron ASTM A48 Class 30
Motor Housing	Cast Iron ASTM A48 Class 30
Oil Chamber	Cast Iron ASTM A48 Class 30
Volute	Cast Iron ASTM A48 Class 30
Bottom Plate	Cast Iron ASTM A48 Class 30
Impeller	Cast Iron ASTM A48 Class 30
Lifting Bail	AISI 304 Stainless Steel
Oil (motor & oil chamber)	Non-toxic white mineral oil (Marcol 52)
External Hardware	AISI 304 Stainless Steel
O-rings	Buna-N
Motor Shaft	AISI 420 Stainless Steel
Upper Bearing	Single row ball bearing
Lower Bearing(s)	Single row ball bearing
Upper Shaft Seal (secondary)	Rotating carbon face w/ stationary ceramic face
Lower Shaft Seal (primary)	Rotating carbon face w/ stationary ceramic face Includes V-ring lip seal for lower seal protection.
Motor Design	NEMA design B, squirrel cage induction, oil filled, non toxic oil
Motor Type	Enclosed submersible
Insulation Class	Class B, rated at 120° F
Motor Protection	Single Phase: Internal thermal protection with automatic reset. Installer must provide circuit breaker for short circuit protection per N.E.C. standards.  Three Phase: Installer must provide external motor overload protection device such as a contactor w/ thermal relay, and circuit breaker for short circuit protection per N.E.C. standards.
Service Factor	1.15
Voltage Tolerance	± 10% from name plate rating



### Motor Data, 60 Hz

Model No.	Phase	Rated Output BHP	Volts	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Pole/Speed (RPM)
410012SJ	1*	1.0	230	10.0	38	K	4/1750

### Triple Seal System



### Cable Specifications

Model No.	Volts	Diameter	Power Cable	Length (Feet)	Outer Jacket
410012SJ	230	14/3 SJE00W	0.36in (9.2mm)	20ft (6m)	Thermoplastic Elastomer

- Maximum submergence, ft. (m) - 65 (20)
- Maximum temp. of pumped fluid - 104°F (40°C) continuous, 122°F (50°C) intermittent

## Grinder Pumps

### 120912GRP

These submersible pumps have been designed for effective and economical dewatering tasks using discharge lines of small diameter in private, municipal and industrial areas. Grinder pumps are specially designed for private and domestic applications.

#### Applications

- For sewage removal from living units and houses in scattered settlements where the laying of a conventional sewer would be too expensive, or where large ground undulations are present or where it is only possible to lay pipe lines of small diameter.
- For sewage removal from motorway resting sites, communal buildings and for renovation of buildings or parts of a city.
- For use in slaughter houses, food processing plants, paper factories, agriculture, and similar areas.

#### Medium Pumped

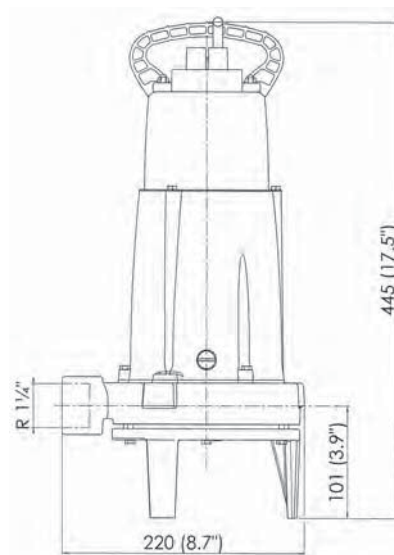
Fecal matter and heavily polluted sewage, max, medium temperature: continuous operation = 104°F (40°C) or if unit is submerged, short term to 140°F (60°C) (max. 5 min).

#### Features:

- Unique shredding system capable of shredding cloths and plastic bags
- For the pumping of wastewater containing sewage, offal, organic and industrial effluent
- Low installation costs
- Advantage of small discharge lines from 1 1/4"
- Installations are possible where large ground undulations are present
- Do not need a control box as capacitor and relay are in upper lid
- DN32 flange with internal thread



#### Dimensions



#### Specifications

Model No.	Voltage	HP	Phase	Hertz	Full Load Amps	Speed (RPM)	Discharge	Height	Cable Length (ft.)
120912GRP	230	2	1	60	13.51	3450	1 1/4" Thread / Flange	51	32'



# Grinder Pumps

## 120912GRP

### Materials of Construction & Motor Specifications

Motor Housing	Cast Iron GG-25
Rotor Shaft	Stainless Steel 1.4021 (AISI 420)
Volute, impeller	Cast Iron GG-25
Fasteners	Stainless Steel 1.4401 (AISI 316)

### Construction

The water pressure tight encapsulated fully flood proof motor and the pump section form a compact robust unit construction.

### Bearings

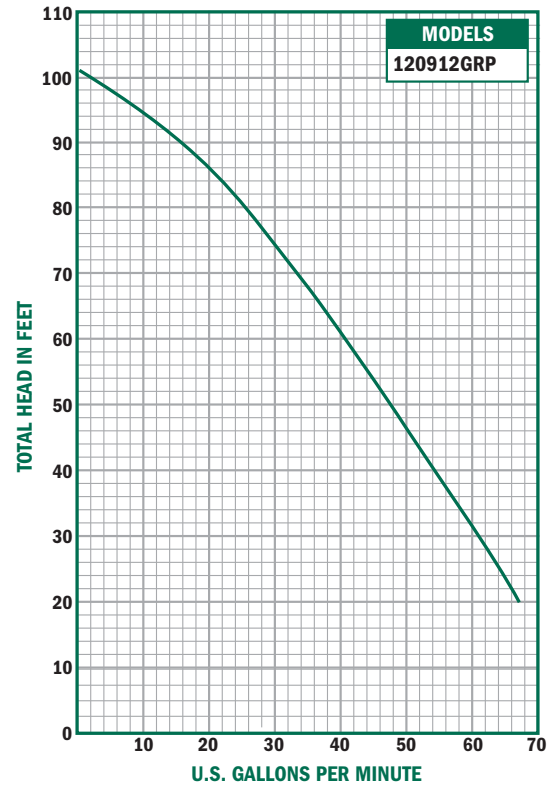
The motor shaft is supported in lubricated-for-life ball bearings.

### Shaft sealing

Between motor and hydraulic section by means of high quality sealing unit using a silicon carbide mechanical seal, independent of direction of rotation and resistant to temperature shock, motor side: Lip seal oil lubricated.

### Shredding System

Consists of spiral bottom plate with stationary cutter ring with cutting edges and a shredding rotor located before the impeller for optimum blockage-free running.



## Pumpmaster®

Mechanically activated, wide angle switch for direct control of single phase pumps up to 1/2 HP at 120V and 1 HP at 230V,

Part No.	Description	Wt.
6190-011	20' cord with piggyback plug 120V pump down, with pipe clamp.	3
6190-012	10' cord with piggyback plug 120V pump down, with pipe clamp.	2
6190-013	15' cord with piggyback plug 120V pump down, with pipe clamp.	2
6190-014	15' cord with piggyback plug 230V pump down, with pipe clamp.	2
6190-015	20' cord with piggyback plug 230V pump down, with pipe clamp.	3
6190-027	15' cord with piggyback plug 120V pump up, with pipe clamp.	2



## Pumpmaster® Plus

Mechanically activated, wide angle switch designed for direct control of single phase pumps up to 3/4 HP at 120V and 2 HP at 230V.

Part No.	Description	Wt.
6190-016	15' cord with piggyback plug 120V pump down, with pipe clamp.	3
6190-017	15' cord with piggyback plug 230V pump down, with pipe clamp.	3
6190-018	20' cord with piggyback plug 120V pump down, with pipe clamp.	3
6190-019	20' cord with piggyback plug 230V pump down, with pipe clamp.	3
6190-008	10' cord without plug, pump up.	3
6190-130	10' cord without plug, pump down.	3
6190-177	20' cord with piggyback plug, 120V, pump up, with pipe clamp.	



## Verticalmaster®

Mechanically activated, switch designed for direct control of single phase pumps up to 1/2 HP at 120V and 1 HP at 230V.

Part No.	Description	Wt.
6190-020	15' cord with piggyback plug 120V pump down, with mounting bracket and hose clamp.	2
6190-021	30' cord without piggyback plug 230/120V pump down, with mounting bracket and hose clamp.	3
6190-022	20' cord with piggyback plug 120V pump down, with mounting bracket and hose clamp.	3
6190-023	20' cord with piggyback plug 230V pump down, with mounting bracket and hose clamp.	3



# Liquid Level Alarm Systems

Alarm systems can be special ordered with other floats options (cord length, pump down, pump up, etc.). Contact factory for pricing information.



## Tank Alert AB

Indoor - 120V, Nema 1 enclosure, with auto reset and battery backup features.

Part No.	Description	Wt.
6190-137	With mechanical switch, 15' pipe clamp mount, normally open, SignalMaster® float, high water alarm.	3
6190-176	With mechanical switch, 15' pipe clamp mount, normally open, SignalMaster® float, high water alarm with auxiliary contacts.	3



## Tank Alarm XT

Indoor/outdoor - 120V, Nema 3R water tight enclosure.

Part No.	Description	Wt.
6190-025	With mechanical switch, 15' pipe SignalMaster® float, high water alarm.	4

# Signalmaster®

Control Switches can be special ordered with other floats options (cord length, pump down, pump up, etc.). Contact factory for pricing information.

Mechanically activated, narrow angle float switch designed to activate pump control panels and alarms.

Part No.	Description	Wt.
6190-044	20' cord, normally closed, weighted externally with mounting clamp.	4
6190-045	15' cord, normally open, pipe clamp.	2
6190-046	20' cable, NC	2
6190-144	Sensor float, 15' cable, NC	2
6190-035	PS Patrol System w/o switch	13



### Normally Open (high level) Operation

The control switch closes (turns on) when the float tips slightly **above** horizontal signaling a high level, and opens (turns off) when the float drops slightly **below** horizontal in potable water, water or sewage applications.

### Normally Closed (low level) Operation

The control switch closes (turns on) when the float tips slightly **below** horizontal signaling a low level, and opens (turns off) when the float tips slightly **above** horizontal in potable water, water or sewage applications.

## Poly Basin & Covers

### Simplex

Part No.	Description	Wt.
6192-010	18"x30" Poly Basin w/ 4" adapt-a-flex	13
6192-011	18" Structural foam cover, 2"x2" with gaskets (ind. boxed)	6
6192-012	18" steel cover	8
6192-013	18" x 30" Simplex Basin kit with structural foam cover	21
6192-014	18" x 30" Simplex Basin kit with steel cover	27

Simplex basins include 18" x 30" basin, cover, 4" schedule 40 adapt-a-flex inlet, lid gasket, discharge and vent gasket, and cord grommet.

### Duplex

Part No.	Description	Wt.
6192-015	36" x 36" Poly Basin-no inlet	45
6192-016	36" Duplex cover, 10 ga. steel	20
6192-017	36" Duplex cover, 1/4" steel	30

### Basin Accessories

Part No.	Description	Wt.
6192-018	4" sch. 40 adapt-a-flex inlet	1
6192-019	4" caulking hub inlet	2



## Check Valves

Model No.	Description
*2063	1 1/4" x 1 1/2" Combo Sump Pump Check Valve
*2063	1 1/2", 2" Full Flow Sump Pump Check Valve
*2065	2" Union Swing Check Valve
*2066	2" Union Swing Check - Socket Ball Valve Combo
*2067	2" Compression Swing Check Valve
*2068	2" Compression Swing Check Valve - Socket Ball Valve Combo

\*Refer to the plumbing catalog for pricing.

