



# ITT

Bulletin E-100

## Bell & Gossett Sump, Effluent and Wastewater Product Line



[www.bellgossett.com](http://www.bellgossett.com)

*Engineered for life*

# SC

## SUBMERSIBLE SUMP/ EFFLUENT PUMPS

1½" NPT Discharge  
½" Solids Handling

### APPLICATIONS

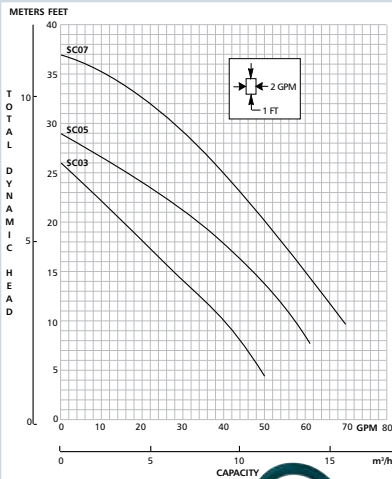
Specially designed for the following uses:

- Basement draining
- Water transfer
- Dewatering
- Effluent transfer

### SPECIFICATIONS

**Pump:**

- Capacities: to 70 GPM.
- Maximum head: to 37 feet.
- Temperature: 104° F (40° C) maximum, continuous when completely submerged.
- Automatic models include a float switch.
- Manual model also available.
- Pumping range: see performance chart or curve.



# SS

## SUBMERSIBLE SUMP PUMPS

1½" NPT Discharge  
¾" Solids Handling

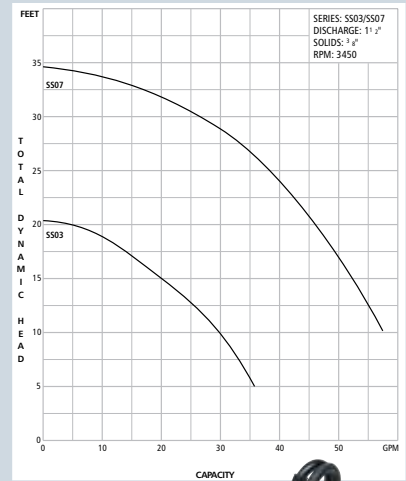
### APPLICATIONS

Specially designed for the following uses:

- Basement draining
- Water transfer
- Dewatering

### SPECIFICATIONS

- Capacities: to 55 GPM.
- Maximum head: 34 feet TDH.
- Max. solids: ¾" spherical.
- Temperature: 104° F (40° C) maximum liquid temperature.



# SP

## SUBMERSIBLE SUMP PUMPS

1½" NPT Discharge  
¾" Solids Handling

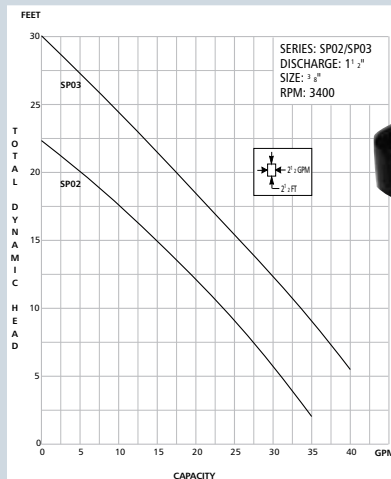
### APPLICATIONS

Specially designed for the following uses:

- Basement draining
- Water transfer
- Dewatering

### SPECIFICATIONS

- Capacities: to 40 GPM
- Maximum head: to 30 feet.
- Temperature: 104° F (40° C) maximum, continuous when completely submerged.
- Float switch: built-in non-mercury vertical; SP0211V, SP0311V.
- Manual model also available – SP0311M.
- Pumping range: 3.0".
- Maximum pump down - 1¼" from base.



# 1CVP

## VERTICAL SUMP PUMPS

### 1 1/4" NPT Discharge APPLICATIONS

Specifically designed for the following uses:

- Basement draining
- Water transfer
- Dewatering

### SPECIFICATIONS

- Discharge: 1 1/4" NPT, will accept adapter for 1 1/2" discharge pipe.
- Power cord: heavy duty 8 foot, 3-wire cord.
- Temperature: 160° F (71° C) maximum.
- Sump diameter: 12 inches or larger.



# BBSP/2

## BATTERY BACK-UP SUMP PUMP

### APPLICATIONS

Designed to provide emergency backup service for primary pump in the event of a power outage. Will also operate if main pump can't keep up with inflow.

### SPECIFICATIONS

- 12 volt pump.
- Float switch.
- 10 amp battery charger.
- Check valve.
- Pipe fittings.
- Battery box.
- System requires minimum 105 amp deep cycle marine battery (not included).
- Two sizes now available.

**NEW**



*Don't be caught with  
a wet basement when  
your power goes out...*

# MIGHTY LITE®

## GASOLINE ENGINE-DRIVEN SELF-PRIMING CENTRIFUGAL PUMPS FEATURES

- Portable, Lightweight, Compact Design.
- Die Cast Aluminum Casing and Engine Housing.
- Rugged Cast Iron Impeller and Volute.
- Reliable Honda GX Engine.
- Trouble Free Mechanical Seal, Carbon/Silicon/Buna-N.
- Replaceable Discharge and Suction Connection.
  - BSPT and NPT Aluminum Connections.
  - Multi-Position Discharge Connection.
- Heavy-Duty, Cage Mounted.
- Standard Strainer Basket Included.
- Water and Trash Models Available.

### OPTIONS

- Skid Mounts.
- Wheel Kit.
- Hard Faced Mechanical Seals.





# 1EC

## SUBMERSIBLE EFFLUENT PUMPS

1½" NPT Discharge  
½" Solids Handling

### APPLICATIONS

Specially designed for the following uses:

- Mound Systems
- Effluent/Dosing Systems
- Low Pressure Pipe Systems
- Basement Draining
- Heavy Duty Sump/Dewatering

### SPECIFICATIONS

- Discharge: 1½" NPT.
- Temperature: 104°F (40° C) maximum, continuous when fully submerged.
- Solids handling: ½" maximum sphere.
- Automatic models include a float switch.
- Manual models available.

#### 1EC03 Pump:

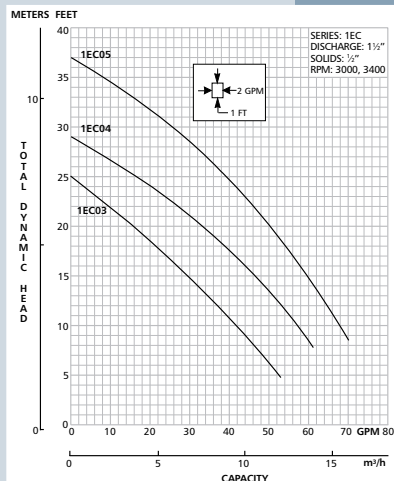
- Maximum capacity: 50 GPM
- Maximum head: 25' TDH

#### 1EC04 Pump:

- Maximum capacity: 60 GPM
- Maximum head: 29' TDH

#### 1EC05 Pump:

- Maximum capacity: 70 GPM
- Maximum head: 37' TDH



# 1ES

## SUBMERSIBLE EFFLUENT PUMPS

1½" NPT Discharge  
¾" Solids Handling

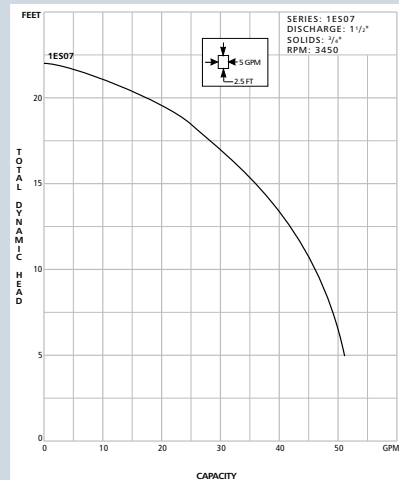
### APPLICATIONS

Specially designed for the following uses:

- Effluent systems
- Water transfer
- Dewatering
- Heavy duty sump

### SPECIFICATIONS

- Capacities: to 52 GPM.
- Maximum head: 22 feet TDH.
- Max. solids: ¾" spherical.
- Temperature: 104° F (40° C) maximum liquid temperature.





# 1EP

## SUBMERSIBLE EFFLUENT PUMPS

1½" NPT Discharge  
¾" Solids Handling

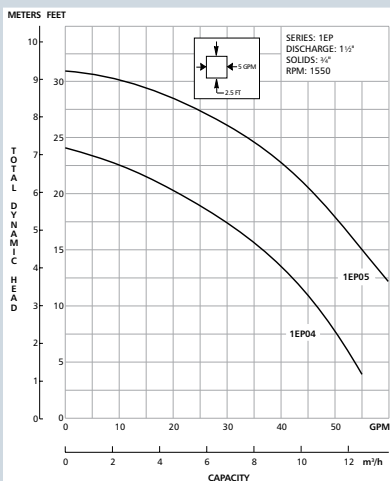
### APPLICATIONS

Specifically designed for the following uses:

- Effluent systems
- Homes
- Farms
- Heavy duty sump
- Water transfer
- Dewatering

### SPECIFICATIONS

- Capacities: up to 60 GPM.
- Total heads: up to 31 feet.
- Mechanical seal: carbon-rotary/ceramic stationary, BUNA-N elastomers.
- Temperature:  
104° F (40° C) continuous  
140° F (60° C) intermittent.
- Fasteners: 300 series stainless steel.
- Capable of running dry without damage to components.



# 2EC

## SUBMERSIBLE EFFLUENT PUMPS

2" NPT Discharge  
¾" Solids Handling

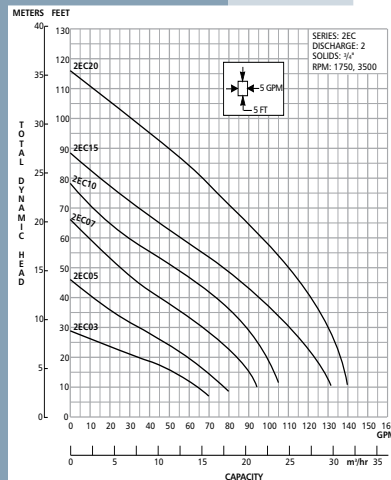
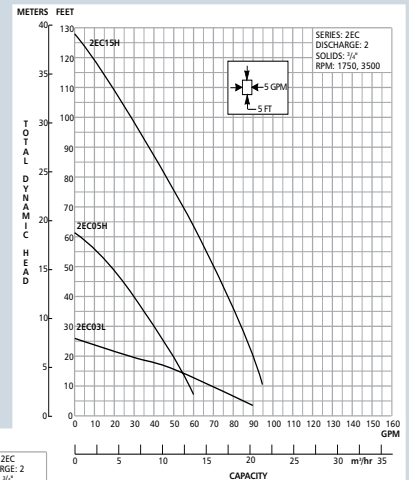
### APPLICATIONS

Specifically designed for the following uses:

- Homes
- Schools
- Farms
- Hospitals
- Trailer courts
- Industry
- Motels
- Effluent systems

### SPECIFICATIONS

- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature:  
104° F (40° C) continuous  
140° F (60° C) intermittent.
- See Model Information for specific HP, voltage, phase and RPM's available.



# 2WC

## SUBMERSIBLE SEWAGE PUMPS

2" NPT Discharge  
2" Solids Handling

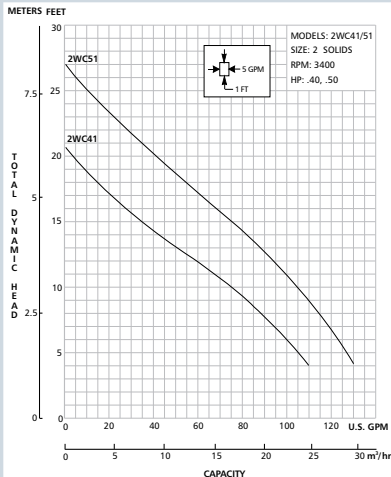
### APPLICATIONS

Specifically designed for the following uses:

- Homes
- Sewage systems
- Dewatering/Effluent
- Water transfer

### SPECIFICATIONS

- Capacities: up to 130 GPM.
- Total heads: up to 27 feet TDH.
- Temperature: 104° F (40° C) continuous 140° F (60° C) intermittent.
- See Model Information for specific HP, voltage, phase and RPM's available.



# 2VW

## SUBMERSIBLE VORTEX SEWAGE PUMPS

2" NPT Discharge  
2" Solids Handling

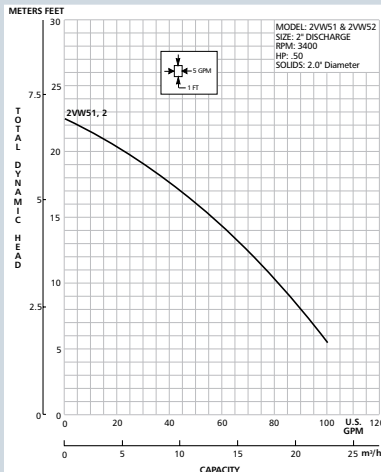
### APPLICATIONS

Specifically designed for the following uses:

- Homes
- Sewage systems
- Dewatering/Effluent
- Water transfer

### SPECIFICATIONS

- Capacities: up to 100 GPM.
- Total heads: up to 22 feet TDH.
- Temperature: 104° F (40° C) continuous 140° F (60° C) intermittent.
- See Model Information for specific HP, voltage, phase and RPM's available.



# 1WS/2WS

## SUBMERSIBLE SEWAGE PUMPS

1½" and 2" NPT Discharge  
1⅜" and 2" Solids Handling

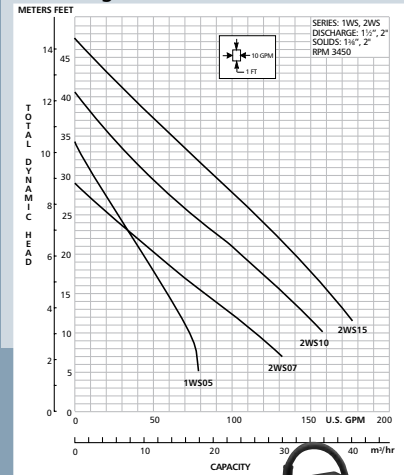
### APPLICATIONS

Non-clog submersible sewage pumps for simplex and duplex installations in small lift stations, drainage systems or raw water applications requiring solids handling capability of 1⅜" and 2" diameter made specifically for:

- Homes and farms
- Municipal package systems
- Schools and hospitals
- Dewatering applications
- Mobile home parks and motels
- Industrial treatment systems

### SPECIFICATIONS

- 1½" discharge on ½ HP.
- 2" discharge on ¾ HP and larger.
- Solid size: 1⅜" solids on ½ HP; 2" solids on ¾ HP and larger.
- Capacities: to 175 GPM.
- Total heads: to 47 feet TDH.
- Temperature: 104° F (40° C) continuous, 140° F (60° C) intermittent.
- AISI 304 SS casing, AISI 304 SS impeller.
- Continuous duty rated, non-overloading motor.





## 2WT/2WF

### SUBMERSIBLE SEWAGE PUMPS

2WT - 2" NPT Discharge  
 2WF - 2" NPT Flanged Discharge  
 2" Solids Handling

### APPLICATIONS

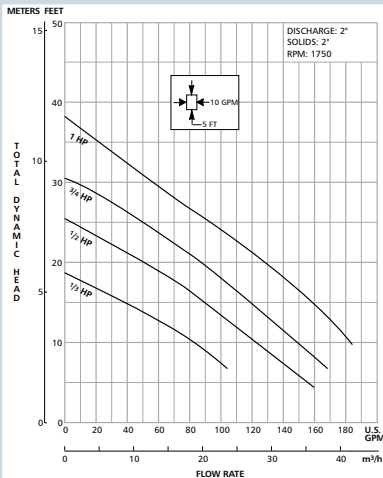
Specifically designed for the following uses:

- Homes
- Sewage systems
- Dewatering/Effluent
- Water transfer
- Light industrial
- Commercial applications

Anywhere waste or drainage must be disposed of quickly, quietly and efficiently.

### SPECIFICATIONS

- Capacities: up to 183 GPM.
- Total heads: up to 38 feet TDH.
- Discharge size: 2" NPT. Threaded casing or threaded companion flange as standard.
- Temperature: 104° F (40° C) continuous, 140° F (60° C) intermittent.
- See Model Information for specific HP, voltage, phase and RPMs available.



## 12GS

### SUBMERSIBLE GRINDER PUMP

1 1/4" NPT Discharge

### APPLICATIONS

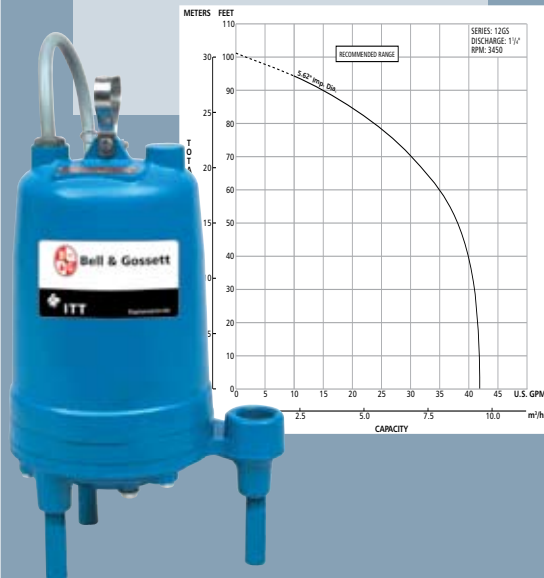
Designed for high head residential sewage applications where a gravity system is not practical. Ideal for pressure sewage systems.

### SPECIFICATIONS

- Capacities: to 41 GPM.
- Total heads: to 95' TDH.
- Discharge: 1 1/4" NPT.
- Single mechanical seal: Silicon carbide rotary/silicon carbide stationary, 300 series stainless steel metal parts, BUNA-N elastomers.
- Fasteners: 300 series stainless steel.
- Rotating cutter and cutter ring: 440 C hardened stainless steel.

#### Motor:

- Single phase: 2 HP, 60 Hz, 3450 RPM, 208/230V, capacitor start with on winding thermal protector.
- **No external capacitor kits required.**
- Class F insulation.
- Shaft: 300 series stainless steel threaded design.
- Bearings: ball bearings upper and lower.
- Power cord: 20 feet standard 14/3 STOW with bare leads. Optional lengths available.



## 2WF\_H

### SUBMERSIBLE SEWAGE PUMPS

2" NPT Flanged Discharge  
 2" Solids Handling

### APPLICATIONS

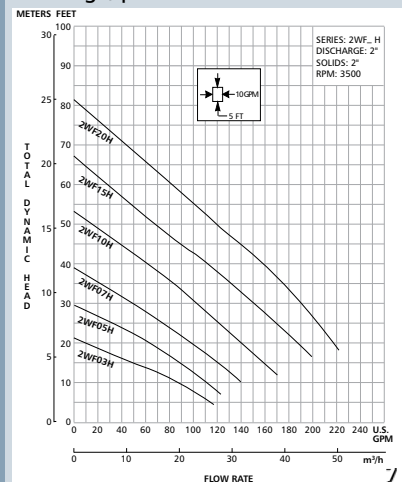
Specifically designed for the following uses:

- Homes
- Sewage systems
- Dewatering/Effluent
- Water transfer
- Light industrial
- Commercial applications

Anywhere waste or drainage must be disposed of quickly, quietly and efficiently.

### SPECIFICATIONS

- Capacities: up to 220 GPM.
- Total heads: up to 81 feet TDH.
- Discharge size: 2" NPT threaded companion flange as standard. 3" option available but must be ordered separately. (Order no. A1-3)
- Temperature: 104° F (40° C) continuous, 140° F (60° C) intermittent.
- See Model Information for specific HP, voltage, phase and RPMs available.



# 3WDA

## SUBMERSIBLE SEWAGE PUMPS

3" Flanged Discharge  
2½" Solids Handling

### APPLICATIONS

Used in a variety of residential, commercial and industrial applications such as:

- Sewage systems
- Farms
- Hospitals
- Dewatering/Effluent
- Motels
- Trailer courts
- Flood and pollution control

### SPECIFICATIONS

#### Pump:

- Maximum solid size: 2.5"
- Discharge Size: 3", 125# ANSI flange.
- Maximum capacity: 470 GPM.
- Maximum Total Head: 65 feet.
- 300 Series stainless steel fasteners.
- 20' Power cord.
- Standard silicon carbide/silicon carbide outer (lower) seals.

#### Motor:

- Maximum ambient temperature: 104° F (40° C) continuous duty, 140° F (60° C) intermittent duty.
- Rated for continuous duty when fully submerged.
- Insulation: Class B
- RPM: 1750; 60 Hz
- Single row ball bearings
- 300 Series stainless steel keyed shaft

#### Single Phase:

- 1.5 – 5 HP. 208 and 230 volts.
- On-winding, built-in thermal overloads.
- Built-in capacitors.

#### Three Phase:

- 1.5 – 5 HP. 200, 230, 460 and 575 volts.
- Overload protection must be provided in control panel.

#### Pump/Motor Options:

- Silicon bronze impeller.
- Tungsten carbide outer seals.
- Longer power cords: 30', 50' and 100'.



# 4WDA

## SUBMERSIBLE SEWAGE PUMPS

4" Flanged Discharge  
3" Solids Handling

### APPLICATIONS

Used in a variety of residential, commercial and industrial applications such as:

- Sewage systems
- Farms
- Dewatering/Effluent
- Hospitals
- Trailer courts
- Motels
- Flood and pollution control

### SPECIFICATIONS

#### Pump:

- Maximum solid size: 3"
- Discharge Size: 4", 125# ANSI flange.
- Maximum capacity: 620 GPM.
- Maximum Total Head: 60 feet.
- 300 Series stainless steel fasteners.
- 20' Power cord.
- Standard silicon carbide/silicon carbide outer (lower) seals.

#### Motor:

- Maximum ambient temperature: 104° F (40° C) continuous duty, 140° F (60° C) intermittent duty.
- Rated for continuous duty when fully submerged.
- Insulation: Class B
- RPM: 1750; 60 Hertz
- Single row ball bearings
- 300 Series stainless steel keyed shaft

#### Single Phase:

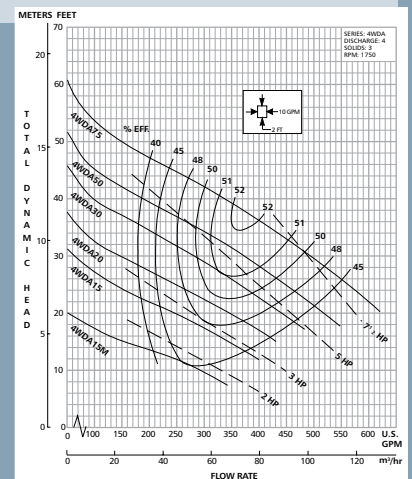
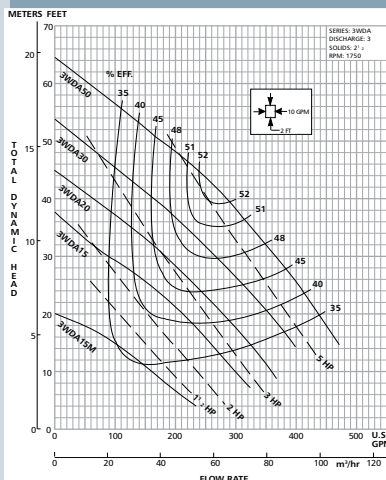
- 1.5 – 5 HP. 208 and 230 volts.
- On-winding, built-in thermal overloads.
- Built-in capacitors.

#### Three Phase:

- 1.5 – 7.5 HP. 200, 230, 460 and 575 volts.
- Overload protection must be provided in control panel.

#### Pump/Motor Options:

- Silicon bronze impeller.
- Tungsten carbide outer seals.
- Longer power cords: 30', 50' and 100'.





# 1WV/2WV

## SUBMERSIBLE VORTEX SEWAGE PUMPS

1½" and 2" NPT Discharge  
1⅜" and 2" Solids Handling

### APPLICATIONS

Vortex submersible sewage pumps for simplex and duplex installations in small lift stations, drainage systems or raw water applications requiring solids handling capability of 1⅜" and 2" diameter made specifically for:

- Homes and farms
- Mobile home parks and motels
- Schools and hospitals
- Municipal package systems
- Industrial treatment systems
- Dewatering applications

### SPECIFICATIONS

- 1½" discharge on ½ HP.
- 2" discharge on ¾ HP and larger.
- Solid size: 1⅜" solids on ½ HP; 2" solids on ¾ HP and larger.
- Capacities: to 130 GPM.
- Total heads: to 39 feet TDH.
- Temperature:
  - 104°F (40°C) continuous
  - 140°F (60°C) intermittent.
- Maximum submergence to 17 feet.
- AISI 304 SS casing.
- AISI 304 SS impeller.
- Continuous duty rated, non-overloading motor.

# 2WV

## SUBMERSIBLE VORTEX SEWAGE PUMPS

2" NPT Discharge  
2" Solids Handling

### APPLICATIONS

Specifically designed for the following uses:

- Residential sewage systems
- Dewatering
- Water transfer

Anywhere waste or drainage must be disposed of quickly, quietly and efficiently.

### SPECIFICATIONS

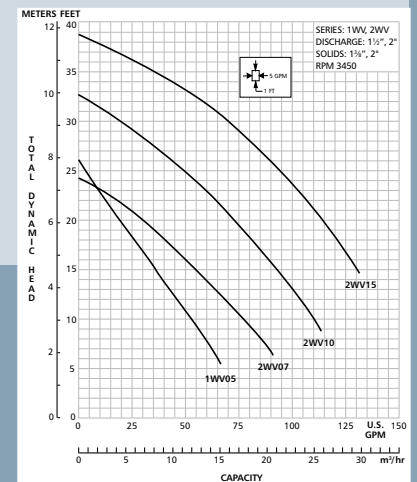
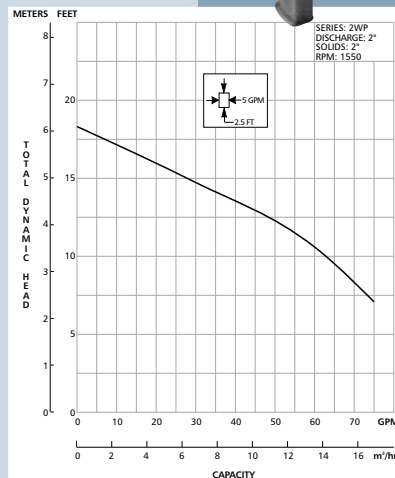
#### Pump:

- Capacities: up to 75 GPM.
- Total heads: up to 18 feet.
- Mechanical seal: carbon-rotary/ceramic-stationary, BUNA-N elastomers.
- Temperature:
  - 104° F (40° C) continuous
  - 140° F (60° C) intermittent.
- Fasteners: 300 series stainless steel.

#### Motor:

- Single phase: ½ HP, 115 V or 230 V, 60 Hz, 1550 RPM, built in overload with automatic reset.
- Power cord: 10 foot standard length, 16/3 SJTW with molded NEMA three prong grounding plug. Optional 20 foot length.
- Fully submerged in high grade turbine oil for lubrication and efficient heat transfer.

Available for automatic and manual operation. Automatic models include Mechanical Float Switch assembled and preset at the factory.



# 1DS

## SUBMERSIBLE DEWATERING PUMP

1½" NPT Discharge  
 ⅜" Solids Handling

### APPLICATIONS

Specifically designed for the following uses:

- Handling dirty waters
- Excavating in the building trades
- Water transfer
- Industrial water drainage or transfer

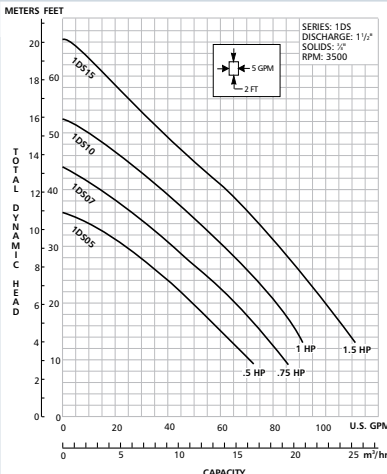
### SPECIFICATIONS

#### Pump:

- Capacities: up to 110 GPM.
- Total heads: up to 66 feet TDH.
- Temperature limit: 120° F (50° C) maximum.
- Fasteners: 300 series stainless steel.
- Maximum submergence: 23'

#### Motor:

- Single phase: 60 Hz, 3500 RPM, ½ HP, 115 V and 230 V; ¾ and 1 HP, 230 V only.
- Three phase: 60 Hz, 3500 RPM, ½ to 1½ HP, 230 V or 460 V.
- Built-in thermal overload protection with automatic reset on single phase models.
- Three phase: Overload protection must be provided in starter unit with three phase pumps.
- Power cord: 20 feet long. Single phase 115 V and 230 V models are supplied with molded NEMA three prong grounding plugs. ½ HP 115V and 1 HP 230V single phase models include a capacitor box built into the cord assembly. Three phase models are supplied with bare leads.
- Class F insulation.



# 2DS

## SUBMERSIBLE DEWATERING PUMP

2" NPT Discharge  
 ⅜" Solids Handling

### APPLICATIONS

Specifically designed to remove water from:

- Drainage ditches
- Trenches
- Basements
- Manholes
- Excavating drainage in the building trades

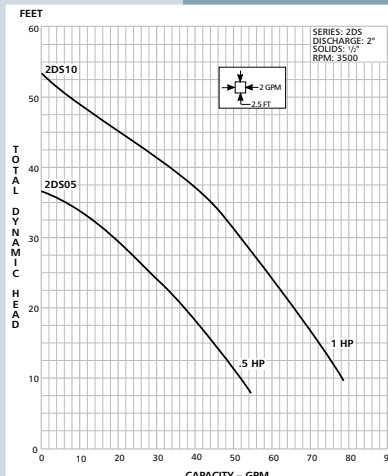
### SPECIFICATIONS

#### Pump:

- Discharge size: 2" threaded hose coupling design.
- Capacities: up to 80 GPM.
- Total heads: up to 52 feet.
- Max. solids: any particles passing through strainer.
- Mechanical seals: outer seal – silicon carbide, inner seal – carbon ceramic.
- Temperature limit: 95° F (35° C) maximum.

#### Motor:

- Single phase: 3500 RPM, ½ HP and 1 HP, 115 V and 230 V, 60 Hz.
- Built-in starter with full overload and temperature protection.
- Class F insulation.
- Air filled design.
- Upper and lower heavy duty ball bearing construction.
- Power cord: 50 feet.



# 1SF/1SH

## SUBMERSIBLE WATER PUMP

1¼" NPT Discharge  
 ⅜" Solids Handling

### APPLICATIONS

Submersible water pumps designed for pumping out of reservoirs and storage tanks:

- Homes and farms
- Mobile home parks and motels
- Schools and hospitals
- Municipal applications
- Industrial applications
- Commercial applications

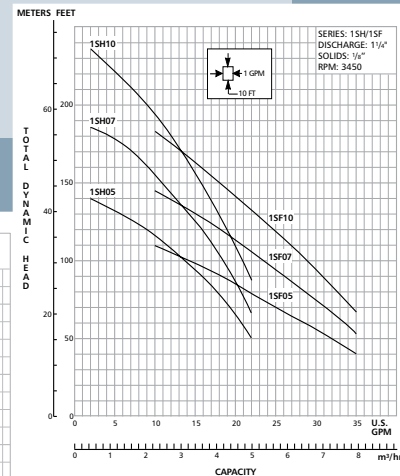
### SPECIFICATIONS

#### Pump:

- 1¼" NPT discharge, bottom suction.
- Maximum suspended solids ⅜".
- Capacities: to 35 GPM.
- Total heads: to 240 feet TDH.
- Temperature: 104° F (40° C) continuous, 140° F (60° C) intermittent.
- Continuous duty rated, non-overloading motor.

#### Motor:

- Single phase: 3450 RPM, 115 and 230 V, 60 Hz.
- Three phase: 3450 RPM, 230 V, 60 Hz.
- Non-overloading, Class F insulation.
- Thermal overload protection: built-in with automatic reset on single phase.
- Three phase models require external overloads in panel.
- Power cord: 30' long with BARE leads for control panel connection. Single phase – 16/4 SJTO, Three phase – 16/4 STO



# CentriPro® ACCESSORIES



## MSDS

### SINK DRAIN SYSTEM

1½" NPT Discharge

#### APPLICATIONS

Specially designed for the following uses:

- Laundry tray
- Wet bar sink
- Air conditioning or dehumidifier condensate
- Residential dishwashers
- Beautician sink

#### SPECIFICATIONS

Completely assembled and ready to pipe with SC03 pump.

## MWP

### PACKAGED SEWAGE SYSTEMS

#### APPLICATIONS

- For home, rural water districts, parks and dewatering.
- Wastewater.
- Sewage lift station.
- Anywhere waste or drainage must be disposed of quickly, quietly and efficiently.

#### SPECIFICATIONS

Completely assembled and ready to pipe with pump 2WC51.

#### PANELS

#### FLOAT SWITCHES

#### BASINS/COVERS

#### PUMP REMOVAL SYSTEM



#### FITTINGS

#### PACKAGED BASIN KITS **NEW**





# ITT

*Bell & Gossett also manufactures Centrifugal Pumps, Residential Circulators, Hydronic Accessories, Valves and Packaged Systems.*



Domestic Pump manufactures condensate transfer equipment for steam systems.  
[www.domesticpump.com](http://www.domesticpump.com)



**Domestic Pump Condensate Transfer Package**

McDonnell & Miller manufactures boiler controls, flow switches and liquid level controls.  
[www.mcdonnellmiller.com](http://www.mcdonnellmiller.com)



**McDonnell & Miller Low Water Cut-Off**

Hoffman Specialty manufactures steam traps, regulators and valves.  
[www.hoffmanspecialty.com](http://www.hoffmanspecialty.com)



**Hoffman Steam Traps**

**USA**  
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 Seneca Falls, NY 13148  
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 FAX: 888-322-5877  
[www.bellgossett.com](http://www.bellgossett.com)

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## Bell & Gossett

*Engineered for life*

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