



**WE CAN
MAKE IT
POSSIBLE**

ALL SUBMERSIBLES

- **SUMP / UTILITY**
- **EFFLUENT**
- **NON-CLOG**
- **NON-CLOG X-PROOF**
- **GRINDER**
- **STAINLESS**
- **RECESSED IMPELLER**

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FFBP33 & FFBP50

Discharge: 1½" NPT, female, vertical.

Spherical solids handling: 1/2"

HP: 0.3 & 0.5

RPM: 3500

Impeller: 10 vane vortex, with vanes on back side, dynamically balanced. Cast iron ASTM A-48, class 30

Shaft: 416 series stainless steel.

Motor: NEMA L, single phase, permanent split capacitor, 120 volts, 60 Hz, oil filled, with overload protection in motor.

Pump operation: automatic float switch or automatic vertical float switch.



FF2AHS

Discharge: 2" NPT, vertical.

Spherical solids handling: 1/2"

HP: 1

RPM: 3500

Impeller: 8 vane, open, semi-vortex.

Hytrel® thermoplastic elastomer.

Shaft: 410 series stainless steel.

Motor: dry type submersible motor, 1 & 3 phase, 115 & 230 volts, 60 Hz, 3500 RPM.

For continuous duty, with thermal protector IP68 in winding, insulation class B.



FFBPEV512

Discharge: 2" NPT, female, vertical.

Spherical solids handling: 3/4"

HP: 0.5

RPM: 3500

Impeller: vortex, dynamically balanced.

Cast iron ASTM A-48, class 30. ISO G6.3

Shaft: 416 series stainless steel.

Motor: NEMA L, single phase, permanent split capacitor, 115 volts, 60 Hz, oil filled, with overload protection in motor.



FFBPSTEP

Discharge: 2" NPT, vertical.

Spherical solids handling: 3/4"

HP: 0.5 & 1

RPM: 3500

Impeller: single vane enclosed.

Polypropylene with stainless steel insert.

Shaft: stainless steel.

Motor: NEMA L, single phase, permanent split capacitor, 115/230 volts, 60 Hz, oil filled, class B insulation, with overload protection in motor.



FF2BEH-SS

Discharge: 2" NPT, vertical.

Spherical solids handling: 3/4"

HP: 0.5 & 1

RPM: 3500

Impeller: 2 vane, open, with vanes on back side, dynamically balanced ISO G6.3. Bronze 85-5-5-5.

Shaft: stainless steel.

Motor:

Single phase: NEMA L, permanent split capacitor, 115/230 volts, oil filled, with overload protection in motor.

Three phase: NEMA B, 208/230 & 460 volts, oil filled. Requires overload protection to be included in control panel.



FF2BSE411 & FF2BSE511

Discharge: 2" NPT, vertical.

Spherical solids handling: 2"

HP: 0.4 & 0.5

RPM: 1750

Impeller: open, double vane, dynamically balanced.

Cast iron ASTM A-48, class 30, ISO G6.3.

Shaft: 416 series stainless steel.

Motor: NEMA L, single phase, permanent split capacitor, 115 volts, 60 Hz, oil filled, with overload protection in motor.



FF2SEV512

Discharge: 2" NPT, female, vertical.

Spherical solids handling: 2"

HP: 0.5

RPM: 3500

Impeller: vortex. Cast iron ASTM A-48, class 30, ISO G6.3.

Shaft: 416 series stainless steel.

Motor: NEMA L, single phase, permanent split capacitor, 115 volts, 60 Hz, oil filled, with overload protection in motor.



FF2BSE-SS / FF3BSE-SS

Discharge: 2" or 3" NPT female, vertical, bolt on flange. Includes both flanges.

(The name of the pump changes to FF3BSE when used with the 3" discharge flange.)

Spherical solids handling: 2"

HP: 0.5 & 0.75

RPM: 1750

Impeller: 2 vane, open, with vanes on back side.

Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor: NEMA L, single phase, permanent split capacitor, 120 volts, 60 Hz, oil filled, with overload protection in motor.

NON-CLOG



FF3BSE-SS / 1 HP

Discharge: 3" NPT, female, vertical, bolt on flange.
Spherical solids handling: 2"

HP: 1

RPM: 1750

Impeller: 2 vane, open, with vanes on back side.

Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor:

Single phase: NEMA L, permanent split capacitor, 230 volts, 60 Hz, oil filled, with overload protection in motor.

Three phase: NEMA B, 230/460 volts, 60 Hz, oil filled. Requires overload protection to be included in control panel.



FF3BSE-SS / 1.5 & 2 HP

Discharge: 3" NPT, female, vertical, bolt on flange.
Spherical solids handling: 2½"

HP: 1.5 & 2

RPM: 1750

Impeller: 2 vane, open, with vanes on back side.

Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor:

Single phase: NEMA L, permanent split capacitor, 230 volts, 60 Hz, oil filled, with overload protection in motor.

Three phase: NEMA B, 230/460 volts, 60 Hz, oil filled. Requires overload protection to be included in control panel.



FF3BSE-SS / 3 HP

Discharge: 3" NPT, female, vertical, bolt on flange.
Spherical solids handling: 2½"

HP: 3

RPM: 1750

Impeller: 2 vane, open, with vanes on back side.
Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor:

Single phase: permanent split capacitor, 230 volts,
60 Hz, oil filled, with overload protection in motor.

Three phase: 230/460 volts, 60 Hz, oil filled.

Requires overload protection to be included in
control panel.



FF3BWSE-DS

Discharge: 3", 125 lb, flange horizontal.

Spherical solids handling: 2½"

HP: 2-5

RPM: 1750

Impeller: 2 vane, semi-open, with vanes on back
side. Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor: NEMA B, three phase, 230 & 460 volts,
60 Hz, oil filled, with class F insulation.

Requires overload protection to be included
in control panel.



FF4BSE-SS

Discharge: 4" NPT vertical.

Spherical solids handling: 3"

HP: 3 & 5

RPM: 1750

Impeller: 2 vane, open, with vanes on back side.
Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor: NEMA B, three phase, 230/460 volts,
60 Hz, oil filled, with class F insulation.

Requires overload protection to be included
in control panel.



FF4BWSE-DS

Discharge: 4", 125 lb, flange horizontal.

Spherical solids handling: 3"

HP: 2-7.5

RPM: 1750

Impeller: 2 vane, open, with vanes on back side.

Cast iron ASTM A-48, class 30.

Shaft: 316 series stainless steel.

Motor: NEMA B, three phase, 230 & 460 volts, 60 Hz, oil filled, with class F insulation.

Requires overload protection to be included in control panel.



FF4BSE-DS

Discharge: 4", 125 lb, flange horizontal.

Spherical solids handling: 3"

HP: 4.5-15

RPM: 1750

Impeller: 2 vane, open, with vanes on back side.

Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor:

Single phase: NEMA L, permanent split capacitor, 230 volts, 60 Hz, oil filled.

Three phase: NEMA B 230/460 volts, 60 Hz, oil filled.



FF4BSE-HLDS

Discharge: 4", 125 lb, flange horizontal.

Spherical solids handling: 3"

HP: 7.5-15

RPM: 1750

Impeller: 2 vane, closed, with vanes on back side.

Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor: NEMA B, three phase, 230/460 volts, 60 Hz, oil filled. Requires overload protection to be included in control panel.

NON-CLOG



FF6BSE-LDS / 9-30 HP

Discharge: 6", 125 lb, flange horizontal.

Spherical solids handling: 4"

HP: 9-30

RPM: 1150

Impeller: 1 vane, closed, with vanes on back side.

Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor: NEMA B, three phase, 230/460 volts, 60 Hz, oil filled. Requires overload protection to be included in control panel.



FF6BSE-LDS / 18-60 HP

Discharge: 6", 125 lb, flange horizontal.

Spherical solids handling: 4"

HP: 18-60

RPM: 1750

Impeller: 1 vane (2 vane for 48 & 60 HP), closed, with vanes on back side. Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor: NEMA B, three phase, 230/460 volts, 60 Hz, oil filled. Requires overload protection to be included in control panel.



FF6BSE-HLDS

Discharge: 6", 125 lb, flange horizontal.

Spherical solids handling: 3"

HP: 30-60

RPM: 1750

Impeller: 3 vane, closed, with vanes on back side.

Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor: NEMA B, three phase, 230/460 volts, 60 Hz, oil filled. Requires overload protection to be included in control panel.



FF8BSE-HLDS

Discharge: 8", 125 lb, flange horizontal.

Spherical solids handling: 3"

HP: 36-48

RPM: 1150

Impeller: 3 vanes, closed, with a bronze wear ring and vanes on back side. Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor: NEMA B, three phase, 230/460 volts, 60 Hz, oil filled. Requires overload protection to be included in control panel.



FF8BSE-HADS

Discharge: 8", 125 lb, flange horizontal.

Spherical solids handling: 3"

HP: 30-75 / 100-200

RPM: 1150 / 3450

Impeller: 3 vane, closed, with with a bronze wear ring and vanes on back side. Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor: NEMA B, three phase, 230/460 volts, 60 Hz, air cooled. Explosion proof, class 1, division 1, group C & D. Requires overload protection to be included in control panel.



FF4XBSE W/ EXPLOSION PROOF MOTORS

Discharge: 4", 125 lb, flange horizontal.

Spherical solids handling: 3"

HP: 5-20

RPM: 1150 & 1750

Impeller: 2 vane, open, with vanes on back side.

Cast iron ASTM A-48 class 30.

Shaft: 416 series stainless steel.

Motor: NEMA B, three phase, 230 & 460 volts, 60 Hz, 1150 & 1750 RPM, air cooled. Explosion Proof, Class 1, Division 1, Group C & D, insulation Class F. Requires overload protection to be included in control panel.



FF6XBSE W/ EXPLOSION PROOF MOTORS

Discharge: 6", 125 lb, flange horizontal.

Spherical solids handling: 4"

HP: 15-75

RPM: 1150 & 1750

Impeller: 1 vane, closed, with vanes on back side.

Cast iron ASTM A-48 class 30.

Shaft: 416 series stainless steel.

Motor: NEMA B, three phase, 230 & 460 volts, 60 Hz, 1150 & 1750 RPM, air cooled. Explosion Proof, Class 1, Division 1, Group C & D, insulation Class F. Requires overload protection to be included in control panel.



FF8XBSE W/ EXPLOSION PROOF MOTORS

Discharge: 8", 125 lb, flange horizontal.

Spherical solids handling: 3"

HP: 30-150

RPM: 1150 & 1750

Impeller: 3 vane, closed, with with a bronze wear ring and vanes on back side. Cast iron ASTM A-48, class 30.

Shaft: 416 series stainless steel.

Motor: NEMA B, three phase, 460 volts, 60 Hz, 1150 & 1750 RPM, air cooled. Explosion Proof, Class 1, Division 1, Group C & D, insulation Class F. Requires overload protection to be included in control panel.



FFBGP-DS / 2 HP

Discharge: 1¼" NPT, vertical.

HP: 2

RPM: 3500

Impeller: 12 vanes, vortex with vanes on back side, dynamically balanced. Cast iron ASTM A-48, class 30.

Radial cutter and shredding ring: hardened 440C, stainless steel, hardness Rockwell C-55.

Shaft: 420 series stainless steel.

Motor:

Single phase: permanent split capacitor, 220 volts, 60 Hz, oil filled, with overload protection in motor. Class F insulation.

Three phase: 220/440 volts, 60 Hz, oil filled with overload protection in motor. Class F insulation.



FFBGP-DS / 3, 5 & 7.5 HP

Discharge: 2" NPT, vertical.

HP: 3, 5 & 7.5

RPM: 3500

Impeller: 10 vanes, vortex with vanes on back side, dynamically balanced. Cast iron ASTM A-48, class 30.

Radial cutter and shredding ring: hardened 440C, stainless steel, hardness Rockwell C-55.

Shaft: 420 series stainless steel.

Motor:

Single phase: NEMA L, permanent split capacitor (to be located in control panel), 230 volts, 60 Hz, oil filled. Class F insulation.

Three phase: NEMA B, 230/460 volts, 60 Hz, oil filled. Class F insulation. Requires overload protection to be included in control panel.



FFBGP-DS / 3, 5 & 7.5 HP

Discharge: 2½" flange, horizontal.

HP: 3, 5 & 7.5

RPM: 3500

Impeller: 10 vanes, vortex with vanes on back side, dynamically balanced. Cast iron ASTM A-48, class 30.

Radial cutter and shredding ring: hardened 440C, stainless steel, hardness Rockwell C-55.

Shaft: 420 series stainless steel.

Motor:

Single phase: NEMA L, permanent split capacitor (to be located in control panel), 230 volts, 60 Hz, oil filled. Class F insulation.

Three phase: NEMA B, 230/460 volts, 60 Hz, oil filled. Class F insulation. Requires overload protection to be included in control panel.

STAINLESS



FFBVRI

Discharge: 2" & 3" NPT elbow, vertical.

Spherical solids handling: 1½" & 2"

HP: 0.5 - 7.5

RPM: 3500

Impeller: 8 vane, semi-open Vortex. 316 series stainless steel.

Shaft: 416 series stainless steel.

Motor: For continuous duty, 1 & 3 phase, 3450 RPM, dry type, insulation class B, protection IP68, 115/230 volts.

RECESSED IMPELLER



FFBVRI

Discharge: 2.5" & 3" NPT elbow, vertical.

Spherical solids handling: 2½" & 3"

HP: 1.5 - 3

RPM: 3450

Impeller: 6 & 8 vane, semi-open Vortex.

Cast iron ASTM A-48, class 30.

Shaft: 410 series stainless steel.

Motor: 1 & 3 phase, 230 volts, 60 Hz, 3450 RPM. For continuous duty, with protection IP68 in winding, insulation class B.

STAINLESS



FFBVRI

Discharge: 2" & 3" NPT elbow, vertical.

Spherical solids handling: 1½" & 2"

HP: 0.5 - 7.5

RPM: 3500

Impeller: 8 vane, semi-open Vortex. 316 series stainless steel.

Shaft: 416 series stainless steel.

Motor: For continuous duty, 1 & 3 phase, 3450 RPM, dry type, insulation class B, protection IP68, 115/230 volts.

RECESSED IMPELLER



FFBVRI

Discharge: 2.5" & 3" NPT elbow, vertical.

Spherical solids handling: 2½" & 3"

HP: 1.5 - 3

RPM: 3450

Impeller: 6 & 8 vane, semi-open Vortex.

Cast iron ASTM A-48, class 30.

Shaft: 410 series stainless steel.

Motor: 1 & 3 phase, 230 volts, 60 Hz, 3450 RPM. For continuous duty, with protection IP68 in winding, insulation class B.



FFMCN-G CHEMICAL PROCESS PUMP

TECH DATA

- Size: 1" - 10"
- Max head: 6164GPM
- Max cap: 466'
- Media temp: -13°F ~+ 284°F
- Max System Pressure: 363PSI

ADVANTAGE

- Complies with ANSI B73.1
- Open impeller
- High efficiency & energy saving
- Wide operation range
- Robust structure
- Modern design

APPLICATION

- Chemical Engineering
- Paper and pulp
- All process industries
- Petrochemical



FFMCO SLURRY PUMP

TECH DATA

- Size: 2" - 12"
- Max cap: 7045GPM
- Max head: 361' '
- Media temp: -13°F ~+ 284°F
- Max system pressure: 232PSI

ADVANTAGE

- Semi-open impeller
- Robust design
- Wide operation range
- Heavy duty bearing housing

APPLICATION

- Barite & mineral oil based drilling
- Bentonite, Salt water slurry
- Cement
- Paper and pulp, Mine dewatering
- Lime, Gypsum, Calcium,
- Ash & coal liquid slurry
- Chemical industry



FFMCT SELF PRIMING TRASH PUMP

TECH DATA

- Size: 2"- 12"
- Max cap: 3400GPM
- Max head: 130'
- Media temp: 14°F ~+ 185°F
- Max system pressure: 51PSI
- Max suction: 25'
- Max solids: 3"

ADVANTAGE

- Proven design
- Excellent performance
- Non-clogging design
- Excellent self priming function
- Installation and maintenance

APPLICATION

- Municipal
- Marine
- Industrial sewage water treatment
- Agriculture irrigation
- Drainage/Construction



FFMCST SELF PRIMING TRASH PUMP

TECH DATA

- Size: 2"- 12"
- Max cap: 3400GPM
- Max head: 130'
- Media temp: 14°F ~+ 185°F
- Max system pressure: 51PSI
- Max suction: 25'
- Max solids: 3"

ADVANTAGE

- Proven design
- Excellent performance
- Non-clogging design
- Excellent self priming function
- Installation and maintenance

APPLICATION

- Municipal
- Marine
- Industrial sewage water treatment
- Agriculture irrigation
- Drainage/Construction



FFMCU HIGH HEAD SELF PRIMING TRASH PUMP

TECH DATA

- Size: 3" - 6"
- Max cap: 1500GPM
- Max head: 207'
- Media temp: 14°F ~+ 185°F
- Max system pressure: 87PSI
- Max suction: 25'
- Max solids: 1.25"

ADVANTAGE

- Proven design
- Excellent & reliable performance
- Non- clogging design
- Excellent self priming function
- Installation and maintenance
- Excellent trash handling capability

APPLICATION

- Municipal
- Marine
- Industrial sewage water treatment
- Agriculture irrigation



FFMCSU HIGH HEAD SELF PRIMING TRASH PUMP

TECH DATA

- Size: 3" - 6"
- Max cap: 1500GPM
- Max head: 207'
- Media temp: 14°F ~+ 185°F
- Max system pressure: 87PSI
- Max suction: 25'
- Max solids: 1.25"

ADVANTAGE

- Proven design
- Excellent & reliable performance
- Non- clogging design
- Excellent self priming function
- Installation and maintenance
- Excellent trash handling capability

APPLICATION

- Municipal
- Marine
- Industrial sewage water treatment
- Agriculture irrigation