

LINE OVERVIEW CATALOG

FW1053
0922
Supersedes
1021



- Submersible Pumps
- Submersible Pump Motors
- Variable Frequency Drives
- Jet Pumps
- Centrifugal Pumps
- Booster Pumps
- Specialty Pumps
- Sump/Sewage Pumps



Flint & Walling is a family-owned American proud manufacturer of premium pumps, motors, and controls. Built on proven, comprehensive testing and generations of personal relationships with loyal customers and employees. With a legacy of high-quality products, trust flows through everything we do.



4F Series 4 Inch Stainless Steel, Plastic or Cast Iron Fitted



1/2 to 7 1/2 HP • 5 to 85 GPM

Series "4F"

Low, medium, and high capacity submersible pumps for home, farm, industry and many other domestic and commercial applications

'S' Commander® series with stainless steel shell, suction and discharge housing - 5 through 85 GPM

'A' Captain® series with stainless steel shell and cast iron suction and discharge housing - 5 through 85 GPM

- Stainless steel or cast iron suction and discharge housings
- Stainless steel pump shell
- Stainless steel hex drive shaft and coupling
- Stainless steel screen
- Corrosion resistant cable guard
- NEMA standard motor mounting ring
- Field replaceable cartridge assembly, lead guard, motor and motor lead wire assembly
- Stainless steel motors with lightning protection - (F&W available up to 2 HP)



DOE Compliance

| PUMP MODEL | Impeller Dia. | P.E.I. |
|------------|---------------|--------|
| 4F35 | 3.072" | 0.89 |
| 4F55 | 3.075" | 0.93 |
| 4F85 | 3.070" | 0.99 |



**S SERIES,
A SERIES**



G Series 1/2 through 1-1/2 HP • 5 through 27 GPM P Series 1/2 through 1 HP • 5 through 27 GPM

G series with powder-coated carbon shell and cast iron suction and discharge housing

P series with stainless steel shell and glass-filled Noryl® mounting ring and discharge

- Stainless steel hex drive, pump shaft and coupling
- Corrosion resistant screen and cable guard
- NEMA standard motor mounting ring
- Field replaceable cartridge assembly, lead guard, motor and motor lead wire assembly
- Stainless steel motors with lightning protection - (F&W available up to 2 HP)



**G SERIES,
P SERIES**



Submersible Turbine Pumps and Pump Control Boxes

Wolf Pump 25 - 1,000 GPM for 6, 8, and 10" wells



Submersible Turbine Pumps for 6" through 10" Wells

High capacity submersible turbine pumps for commercial, industrial, agricultural, municipal, and other deep well, large water volume applications

- Discharge Adapter**
 Ductile iron or 316SS on select models
- Pump Shaft**
 Chrome plated C1045, 416 stainless steel, and ion plasma treated in stock. Other specialty options are also available.
- Bushings**
 Discharge adapter
 Bronze or Vesconite
 Motor bracket
 Bronze or Vesconite
 Intermediate
 Bronze, Buna-N rubber, Viton, Vesconite, 2-piece silicon carbide, or Wolf proprietary Z bearing
- Intermediate Bowl**
 Cast iron standard, ductile iron or 316 stainless steel available on select models
- Impeller**
 Bronze, 304 stainless steel, or 316 stainless steel
- Collet**
 416 or 316 stainless steel
- Sand Collar**
 Bronze or 316 stainless steel
- Motor Bracket**
 Ductile iron or 316 stainless steel on select models
- Thrust Collar**
 Bronze UHMW
- Inlet Screen**
 316 stainless steel or 416 stainless steel
- Motor Coupling**
 316 stainless steel or 416 stainless steel
- Cable Guard**
 316 stainless steel or 416 stainless steel

 Motor brackets and other custom options available.



| | | |
|---|---|---|
| 6" Well 3 TO 125 HP 100, 150, 170, 300 AND 460 GPM | 8" Well 5 TO 150 HP 100, 160, 220, 320, 420, 540 AND 740 GPM | 10" Well 10 TO 200 HP 480, 525, 660, AND 850 GPM |
|---|---|---|

DOE Compliance

| PUMP MODEL | Impeller Dia. | P.E.I. |
|------------|---------------|--------|
| 5LL5V | 4.125" | 0.89 |
| 5LL8V | 4.125" | 0.87 |
| 5ML6V | 4.515" | 0.99 |
| 5MM6V | 4.515" | 0.93 |
| 5MM8V | 4.515" | 0.91 |
| 5MH6V | 4.515" | 0.98 |

| PUMP MODEL | Impeller Diameter | P.E.I. |
|------------|-------------------|--------|
| 5MH7V | 4.515" | 0.96 |
| 5HH7V | 4.125" | 0.93 |
| 5HX7V | 4.515" | 0.87 |
| 6LL6V | 4.515" | 0.93 |
| 6LM6V | 4.515" | 0.88 |
| 6LM8V | 4.515" | 0.88 |

| PUMP MODEL | Impeller Diameter | P.E.I. |
|------------|-------------------|--------|
| 6LH6V | 4.515" | 0.93 |
| 6LH7V | 4.515" | 0.91 |
| 6MM8V | 4.75" | 0.87 |
| 6HH7V | 4.515" | 0.99 |
| 6LH7V-SS | 4.515" | 0.96 |
| 6LM6V-SS | 4.515" | 0.92 |

Submersible Control Boxes



1/2 through 5 HP, 115V or 230V

- Universal voltage relay
- Designed for outdoor installations
- Heavy-duty terminal block for secure connections
- Side and bottom knockouts for easy wire installation
- Interchangeable with industry control boxes

DELUXE 2, 3, and 5 HP CONTROL BOXES 025242, 025243, 025244

- Easier to access and install
- Heavy duty
- Premium components

| Model | HP | Volt | Amp | KW | Phase | Weight | | Size (In.) |
|--------|-------|------|----------|------|-------|--------|-----|------------------|
| | | | | | | Lbs. | KG | |
| 022875 | 1/2 | 115 | 12 | 0.37 | 1 | 3 | 1.4 | 9 x 3.5 x 5.5 |
| 022876 | 1/2 | 230 | 6 | 0.37 | 1 | 3 | 1.4 | 9 x 3.5 x 5.5 |
| 022877 | 3/4 | 230 | 8 | 0.55 | 1 | 3 | 1.4 | 9 x 3.5 x 5.5 |
| 022878 | 1 | 230 | 10.4 | 0.75 | 1 | 3 | 1.4 | 9 x 3.5 x 5.5 |
| 022879 | 1-1/2 | 230 | 8.0/11.5 | 1.10 | 1 | 6.8 | 3.1 | 9.5 x 5.9 x 7.7 |
| 025242 | 2 | 230 | 13.2 | 1.50 | 1 | 7.1 | 3.2 | 9.5 x 5.9 x 7.7 |
| 025243 | 3 | 230 | 17 | 2.20 | 1 | 7.1 | 3.2 | 9.5 x 5.9 x 7.7 |
| 025244 | 5 | 230 | 27.5 | 3.70 | 1 | 10 | 4.5 | 15.7 x 5.9 x 7.8 |



Submersible Pump Motors, Variable Frequency Drives and VFD Monitoring

2 Wire and 3 Wire 4 Inch Submersible Motors



1/2 through 2 HP, 2-Wire and 3-Wire, Single and Three Phase

- Nitrile rubber shaft seal . . . three-part design protects motor from contamination
- Stainless steel shaft . . . features polished bearing journals for extended bearing life
- Copper-wound stator for superior performance
- Stainless steel carbon graphite Kingsbury thrust bearing . . . provides self-aligning axial support up to 700 lbs. for reliable operation
- Stainless steel shell and stator ends. . . hermetically sealed for maximum corrosion resistance
- Carbon graphite radial bearings . . . precision ground for high load capability and long life

Commander Pro® VS Series 15, 20, 30 and TVS 50 Variable Speed Controllers and Systems



Designed for the Professional Pump Installer

- Easy to read diagnostic display
- Increases flow as demand increases
- Available with pressure switch or pressure transducer
- Adjustable constant pressure
- Automatic pump and motor protection
- Superior cooling and dust protection
- Meets Part 15 Class A FCC electronic interference standards
- Programming lockout for secure operation
- Tamper proof cover
- Automatic fan designed to maximize cooling
- NEMA 3R for indoor/outdoor use



Z Control® Gateway



Stay Connected to the Job Site . . . With Global VFD Monitoring

- Connects to Commander Pro VS Controller
- Push-button simple
- Restore service remotely from anywhere an internet connection is available
- Diagnose problems before arrival and solve issues in record time
- Call customers before they are aware of potential problems
- Sends you and your customers email or text notifications



CJ103 Series Multi-Stage Centrifugal Pump



Featuring Flint & Walling Service Plus Motors

Flint & Walling single stage CJ103 centrifugal pumps are non-self priming with suction lifts up to 25 feet. Applications include booster service, water circulation, liquid transfer, cooling systems, jockey pump service, and general service in farm, commercial, and industrial applications.

- Capacities to 6,800 GPH
- Pressures to 45 PSI
- 1/3, 1/2, 3/4, 1, 1-1/2 and 2 HP
- Single or three phase
- Low lead brass or thermoplastic impellers
- Flint & Walling 56-frame, NEMA J, capacitor start, double ball bearing motors for continuous operation
- Rugged cast iron pump casing
- Discharge can be rotated to any one of four positions for horizontal or vertical positioning



| COMPONENT DESCRIPTION | CJ103 SERIES 1/3 through 2 HP SINGLE STAGE MODELS |
|-----------------------|--|
| Suction Body | Cast iron with low lead brass clearance ring. Discharge port rotates in 90° increments. 1/4" vacuum tappings and drain plugs. |
| Impeller(s) | Closed low lead brass or closed thermoplastic |
| Gasket(s) | Buna-N square cut ring |
| Intermediate Stage(s) | Not applicable |
| Shaft Seal | Carbon-silicon carbide, stainless steel spring, and Buna-N |
| Mounting Ring | Cast iron body |
| Pump Shaft | Threaded 416 stainless steel |
| Base | Rigid steel base assembly |
| Motor | All single phase (with ODP motors) pumps feature Flint & Walling's Service Plus 56 frame NEMA J, single or dual voltage ODP motors with permanently lubricated double ball bearing. NOTE: CJ103 1 HP and above 3 PH and pumps with TEFC motors feature purchased motors. Single or three phase options. TEFC motors available on select models. |

Open Drip Proof (ODP) motor voltage

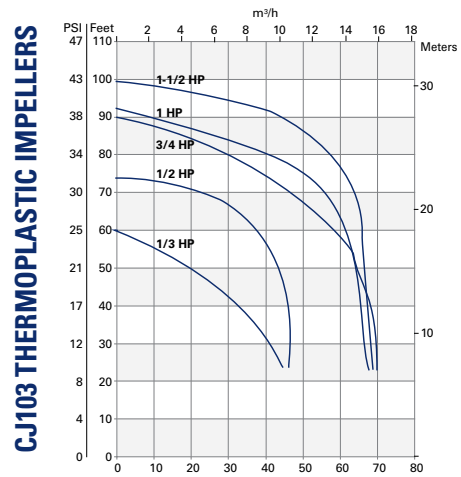
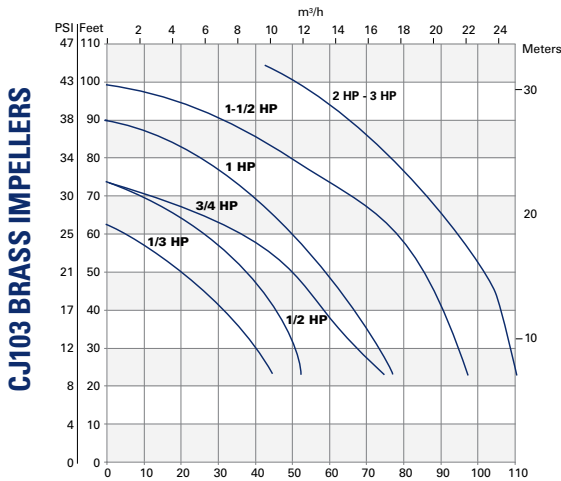
CJ103 Single Phase: 1/3 through 3/4 HP - 115/230V, 60/50HZ;
1 through 3 HP, 230V, 60HZ

CJ103 Three Phase: 1/2 through 3/4 HP - 208-230V/460V, 50/60HZ

Totally Enclosed Fan Cooled (TEFC) motor voltage

Single Phase: 1/2 through 3 HP - 115/230V 60/50HZ

Three Phase: 1/2 through 3 HP - 208-230/460V 60/50HZ



CJ103 DOE Compliance

| PUMP MODEL | Impeller Dia. | P.E.I.cl. | PUMP MODEL | Impeller Dia. | P.E.I.cl. | PUMP MODEL | Impeller Dia. | P.E.I.cl. |
|------------|---------------|-----------|------------|---------------|-----------|------------|---------------|-----------|
| CJ103101 | 4.870" | 0.98 | CJ103P151 | 5.090" | 0.90 | CJ103103T | 4.870" | 0.91 |
| CJ103151 | 5.090" | 0.99 | CJ103101T | 4.870" | 0.99 | CJ103153T | 5.090" | 0.93 |
| CJ103201 | 5.090" | 0.98 | CJ103151T | 5.090" | 0.99 | CJ103203T | 5.090" | 0.91 |
| CJ103P101 | 5.000" | 0.98 | CJ103201T | 5.090" | 0.99 | | | |



CJ101 Series Single Stage Centrifugal Pump



Featuring Flint & Walling Service Plus Motors

Flint & Walling multi stage CJ101 centrifugal pumps are non-self priming with suction lifts up to 25 feet. Applications include booster service, water circulation, liquid transfer, cooling systems, jockey pump service, and general service in farm, commercial and industrial applications.

- Capacities to 3,400 GPH
- Pressures to 95 PSI
- 3/4, 1, 1-1/2, 2, and 3 HP
- Single or three phase
- Multi-Stage for high head
- Flint & Walling 56-frame, NEMA J, capacitor start, double ball bearing motors for continuous operation
- Low lead brass or thermoplastic impellers
- Rugged cast iron pump casing



| COMPONENT DESCRIPTION | CJ101 SERIES 3/4 through 3 HP TWO and THREE STAGE MODELS |
|-----------------------|---|
| Suction Body | Cast iron with low lead brass clearance ring and 1/4" vacuum tapping. |
| Impeller(s) | Closed low lead brass or closed thermoplastic |
| Gasket(s) | Lexide gasket, Buna-N square cut ring |
| Intermediate Stage(s) | Cast iron w/brass suction and hub clearance rings |
| Shaft Seal | Carbon-silicon carbide, stainless steel spring, and Buna-N |
| Mounting Ring | Cast iron body, 1/4" tapping for applications requiring a pressure switch |
| Pump Shaft | Threaded 416 stainless steel |
| Base | Heavy cast iron base assembly |



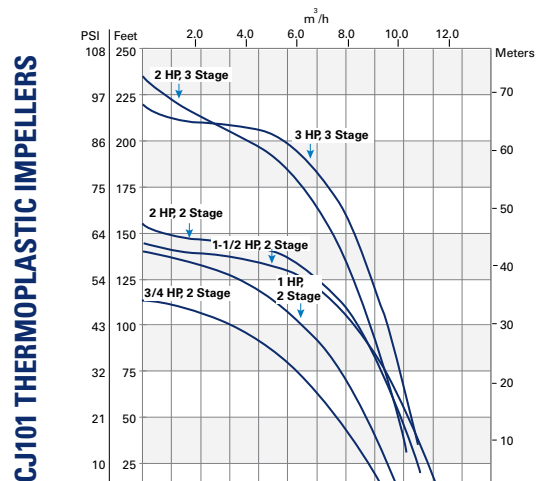
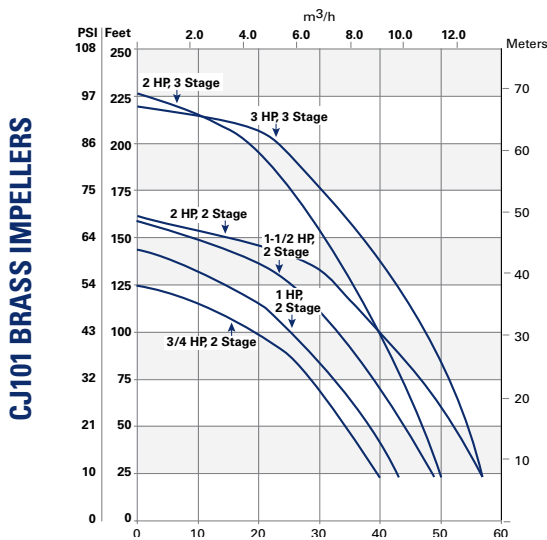
All single phase (with ODP motors) pumps feature Flint & Walling's Service Plus 56 frame NEMA J, single or dual voltage ODP motors with permanently lubricated double ball bearing. Single or three phase options. TEFC motors available on selective models.

Open Drip Proof (ODP) motor voltage

CJ101 Single Phase: 1/3 through 2 HP - 115/230V;
3 HP - 230V, 60HZ
Three Phase: 1/2 through 2 HP - 208-230V/460V, 50/60HZ
3 HP - 208-230/460V; 60HZ

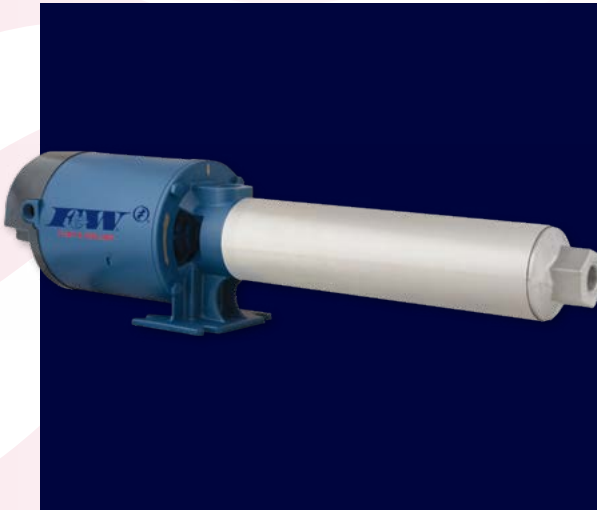
Totally Enclosed Fan Cooled (TEFC) motor voltage

Single Phase: 1/2 through 3 HP - 115/230V 60/50HZ
Three Phase: 1/2 through 3 HP - 208-230/460V 60/50HZ



Booster Pumps and Centrifugal Pumps

PB Series Pressure Booster Pumps



1/3 - 3 HP 5, 7, 10, 19, 27, 35, 55 and 85 GPM

- Flint & Walling service plus 56-frame, NEMA J, dual voltage motors—single or three phase
- Three-wire, 8 foot 115 volt grounded power cord and plug supplied on 1/3 HP single phase models. (Not supplied on any other model)
- Thermoplastic impellers and diffusers

Cast Iron Model Pump Components—

Cast iron suction and discharge castings, 304 stainless steel pump shell, 416 stainless steel hex pump shaft, and carbon/ceramic seal with Buna N rubber parts

Powder Coated Model Pump Components—

Powder-coated cast iron suction and discharge castings, 304 stainless steel pump shell, 416 stainless steel hex pump shaft, and carbon/ceramic seal with Buna N rubber parts

Stainless Steel Model Pump Components—

Stainless steel suction and discharge castings, 304 stainless steel pump shell, 303 stainless steel hex pump shaft and carbon/ceramic seal with Viton rubber parts

The pressure booster pump is designed to increase water pressure from city mains or private water systems.

Applications: Pressure Cleaning, Spray or Mist Systems, Jockey Pumps, Booster Service, Reverse Osmosis, Water Circulation, and General Purpose Pumping.

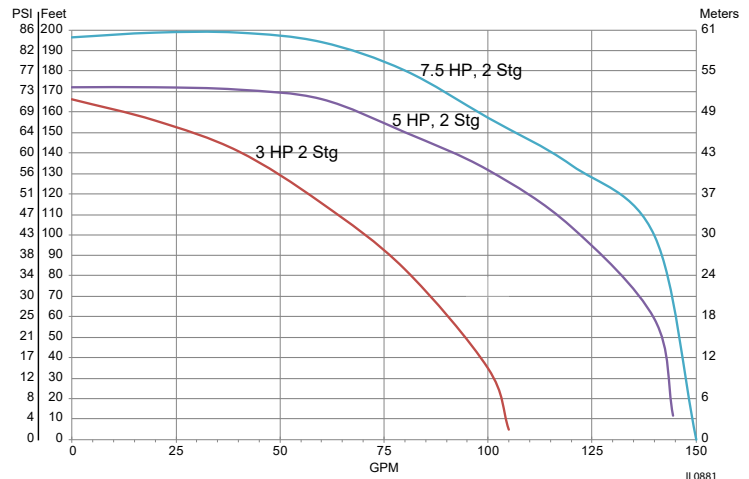
PRESSURES TO 200 PSI— 140°F MAXIMUM LIQUID TEMPERATURE



PB SERIES

C22000 Series Two Stage Centrifugal Pump

3 - 7-1/2 HP



- The C22000 series is a rugged pump built for extra performance.
- Capacities to 8,500 gallons per hour
- Pressures to 85 PSI
- 3 in. suction
- Nationally known NEMA JM motors. Nationwide service available from local authorized service stations.

- Single or three phase options
- Lead-free, electronically balanced brass impellers



SPJ Lawn Sprinkler



For Lawn and Turf Sprinkling, Irrigation and Water Transfer

Every SPJ is tested a minimum of three times during the manufacturing process. With 100% testing, you don't have to worry about out-of-the-box failures.

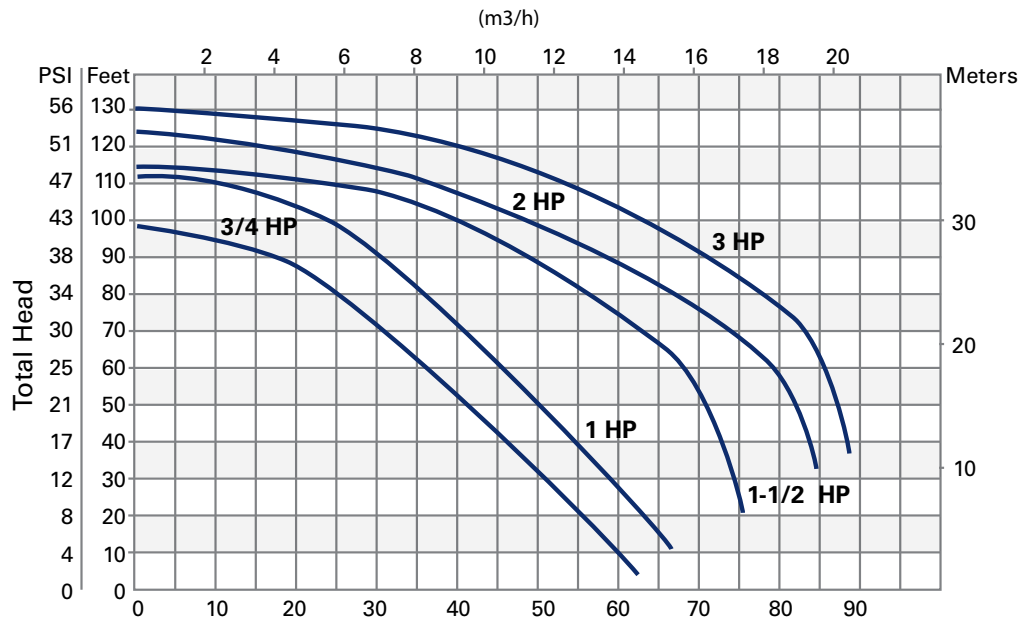
Made in the USA with a majority of USA content, the SPJ series also features:

- High capacity, high volume
- Cast iron pump body and mounting ring for long life
- Flint & Walling Service Plus NEMA J, capacitor start, double ball bearing motors for continuous operation
- Easy access drain plug
- Rapid self-priming characteristics under maximum suction conditions
- 3/4 through 3 HP, single or three phase



| HP | Type | Volts | Hz | RPM | Motor Voltage (Factory) Connected | Service Factor Motor Amps | | | | Max Liquid Temp | Max Suction Lift |
|-------|--------------|-------------|-------|-----------|-----------------------------------|---------------------------|------|-------------|------|-----------------|------------------|
| | | | | | | Single Phase | | Three Phase | | | |
| | | | | | | 115V | 230V | 230V | 460V | | |
| 3/4 | Single Phase | 115/230 | 60 | 3450 | 115V | 14.0 | 7.0 | - | - | 180°F | 25 Ft. |
| 1 | | | | | | 18.0 | 9.0 | | | | |
| 1-1/2 | | | | | | 21.0 | 10.5 | | | | |
| 2 | | | | | | 25.0 | 12.5 | | | | |
| 3 | | | | | | - | 13.5 | | | | |
| 3/4 | Three Phase | 208-230/460 | 60/50 | 3450/2850 | 230V | - | - | 3.5 | 1.75 | 180°F | 25 Ft. |
| 1 | | | | | | | | 4.5 | 2.25 | | |
| 1-1/2 | | | | | | | | 5.7 | 2.85 | | |
| 2 | | | | | | | | 7.4 | 3.70 | | |
| 3 | | | | | | | | 9.8 | 4.90 | | |

Suction lift varies, depending upon elevation (altitude) and water temperatures.



SP Series Lawn Sprinkler

1, 1-1/2 or 2 HP

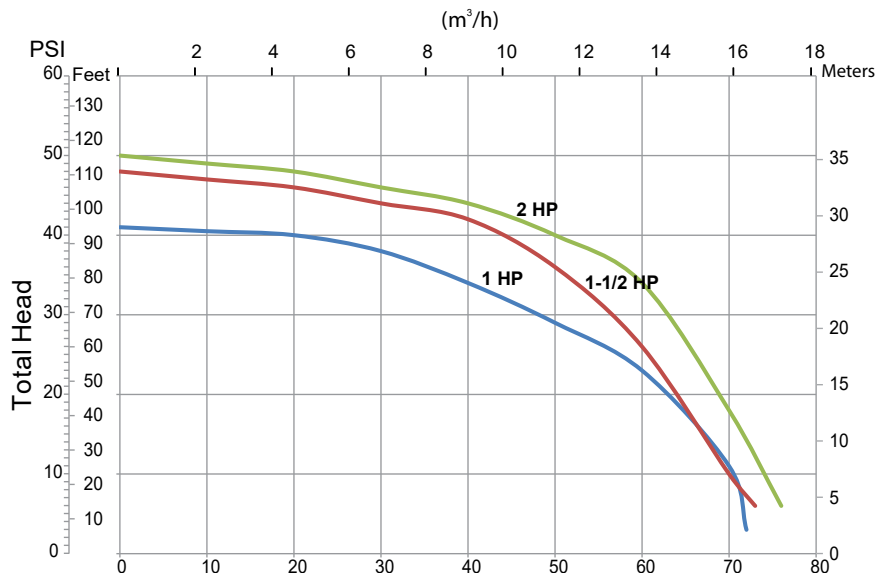


- Quick self-priming operation for lawn irrigation
- Flint & Walling Service Plus motor featuring capacitor start and sealed ball bearings for continuous operation
- Heavy-duty cast-iron construction
- 115/230 dual voltage motor
- Easy access drain plug
- 2 in. suction pipe / 1-1/2 in. discharge pipe



| Model # | HP | Suction Lift (Ft.) | Discharge Pressure (PSI) | | | | | | | Shut Off Pressure @ 0 Lift (PSI) | Suction Pipe | Discharge Pipe |
|---------|-------|--------------------|------------------------------------|----|----|----|----|----|----|----------------------------------|--------------|----------------|
| | | | 15 | 20 | 25 | 30 | 35 | 40 | 45 | | | |
| | | | Capacity - U.S. Gallons per Minute | | | | | | | | | |
| SP10P1 | 1 | 5 | 65 | 61 | 53 | 44 | 32 | | | 39 | 2 in. | 1-1/2 in. |
| | | 10 | 64 | 58 | 49 | 39 | 24 | | | | | |
| | | 15 | 62 | 55 | 45 | 34 | | | | | | |
| | | 20 | 59 | 51 | 41 | 28 | | | | | | |
| | | 25 | 56 | 46 | 36 | 2 | | | | | | |
| SP15P1 | 1-1/2 | 5 | 66 | 63 | 59 | 54 | 48 | 40 | 8 | 45 | 2 in. | 1-1/2 in. |
| | | 10 | 64 | 61 | 57 | 52 | 45 | 28 | | | | |
| | | 15 | 63 | 60 | 55 | 49 | 41 | 15 | | | | |
| | | 20 | 62 | 58 | 53 | 46 | 32 | | | | | |
| | | 25 | 60 | 56 | 50 | 42 | 21 | | | | | |
| SP20P1 | 2 | 5 | 70 | 68 | 65 | 62 | 56 | 46 | 24 | 48 | 2 in. | 1-1/2 in. |
| | | 10 | 69 | 66 | 63 | 60 | 52 | 39 | 6 | | | |
| | | 15 | 68 | 65 | 62 | 57 | 47 | 27 | | | | |
| | | 20 | 67 | 64 | 60 | 53 | 41 | 13 | | | | |
| | | 25 | 65 | 62 | 58 | 48 | 30 | | | | | |

Max. Case Pressure: 100 PSI



SPM Series High Power Centrifugals



3 HP and 5 HP, Single or Three Phase

EASY REPLACEMENTS

- Replace current 3 and 5 HP centrifugals without disrupting plumbing. The SPM series is designed to be easily swapped without the difficulties of changing piping, flapper valves, or other tedious plumbing work.

TRIM YOUR PRIME TIME

- Achieve prime in less than one minute

ENGINEERED BY FLINT & WALLING

- Powered by Baldor
- Available in single or three phase

CPJ, CPH and EK Series Horizontal Jet Pumps



1/3 - 1-1/2 HP

Whether operating as a shallow well or deep well pump, count on Flint & Walling versatile, powerful jet pumps to deliver more water at full city pressures.

These pumps provide higher single stage capacities and pressures; depths to 150 feet, capacities to 1800 GPH and as much as 90 pound pressure.

- High tensile gray iron pump bodies
- Buna-N square cut ring
- Molded diffusers
- Precision-balanced impellers

- Silicon carbide shaft seal
- CPH and EK patented uni-frame motor bracket
- Automatic overload
- CPJ models feature NEMA J motors
- All motors are dual voltage, capacitor start with automatic thermal overload protection.
- Depths to 150 ft.
- Up to 1800 GPH with up to 90 PSI



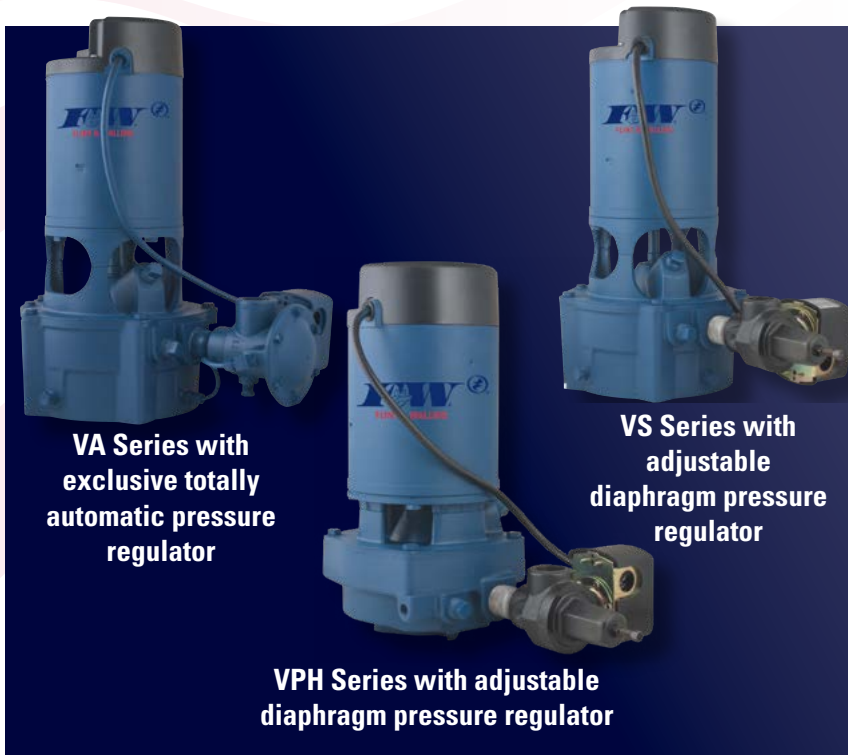
MADE IN THE USA
USING A MAJORITY OF U.S. CONTENT

**EK, CPHS, CPJS,
CPJ, CPH SERIES**



Jet Pumps and Jet / Centrifugal Pump Motors

VA, VS and VPH Series Deep Well Jet Pumps



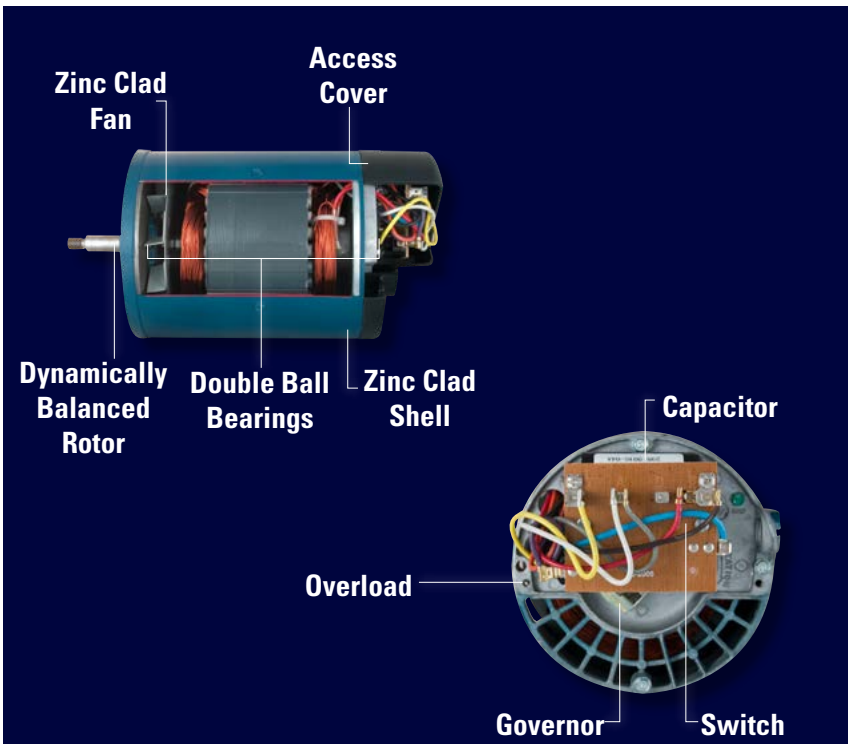
3/4 - 2 HP Single and Multi-Stage

- NEMA J single phase, 60 HZ, 3450 RPM dual voltage motor features: quality windings, double ball bearings, and overload protection with automatic restart.
- Precision molded impeller and diffuser ensures perfect alignment and ultra-smooth passages for high performance and reliability.
- Large one-piece pump case design. Pump can be disassembled without disturbing well or discharge pipes.
- Top located priming port and discharge prevents air lock and allows for easy priming.
- Convenient tapings for draining of pump and installation of pressure switch and pressure gauge.



VA, VS, VPH SERIES

Service Plus F&W Motors for Jets and Centrifugals



“Service Plus” means top reliability plus quick access to all electrical components.

Routine maintenance is simplified through the convenient mounting of electrical components.

Removal of the rear access cover exposes components for fast replacement. Spade connectors enable quick hookup and voltage change.

- Rear access cover
- Quality-wound double insulated stator

- Permanently lubricated ball bearings
- Fully enclosed transfer switch
- Patented governor
- Zinc clad steel shell and cooling fan
- Automatic overload
- “Service Plus” motors manufactured by Flint & Walling, Inc. in Kendallville, IN, USA—An industry exclusive among jet pump manufacturers.

Floating Pond Pump Systems



1/2 - 1 HP, 115V or 230V Single Phase

- Operates in 5 ft. of water or deeper
- Interchangeable nozzles to achieve three different spray patterns
- Polyethylene, foam-filled flotation system: UV resistant, will not water-log
- Stainless steel eye bolts anchor system to pond bottom or shore line with nylon rope
- Six inch diameter slotted PVC screen provides large surface area to filter debris and draw water from below the pond surface area
- Four inch diameter pump fitted with stainless steel and thermal plastic components
- Water-cooled motor with stainless steel shell. Oil-free design. Single phase
- Rain-proof, lockable control center on 230V models. Includes internally mounted ground fault interrupter and 24 hour adjustable timers for pump and optional lights.
- Flint & Walling floating fountains are even more dramatic at night with the addition of a "Night Bright" lighting system. The three light, 120V, 105 watt system includes powder coated, cast aluminum housings that can easily be installed onto the float. The fountain control center includes an adjustable 24 hour timer for controlling the "Night Bright" lighting system.
- 1/2 HP model available with 115V motor and no control center.

Designed for waterscapes, golf courses, retention ponds, parks and more.

Light Kit Model 023069

City Water Booster Pumps



1/2 and 1 HP, 115V

- All-in-one unit, consisting of pump, motor, stainless steel pressure tank, and electronic controller
- Compact design and quiet operation make it suitable for many applications
- System has automatic built-in diagnostics to protect against:
 - Run Dry
 - Dead Head
 - Rapid Cycling
- Impeller constructed of stainless steel with stainless steel bearing and shaft sleeve
- 1 in. stainless steel inlet and outlet flanges

