



293 Wright Street, Delavan, WI 53115

Phone: 800-365-6832

Fax: 800-526-3757

www.flotecwater.com

OWNER'S MANUAL

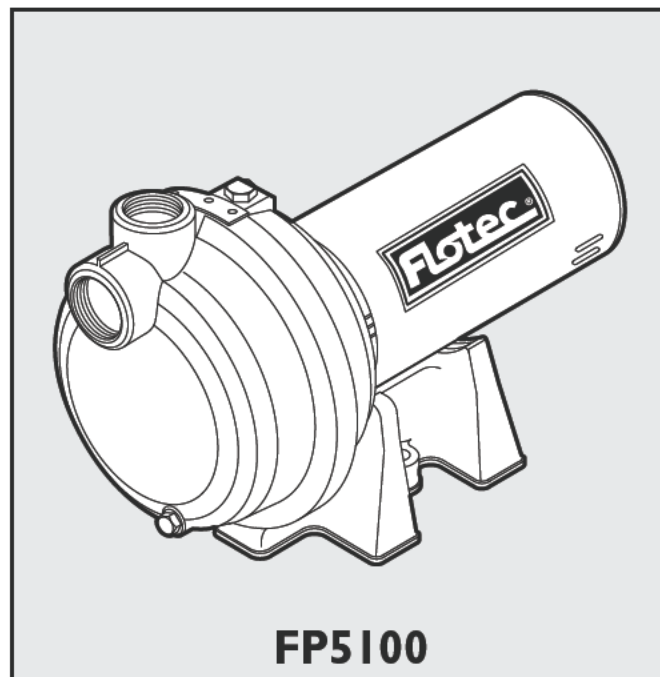
**Corrosion Resistant Centrifugal
Lawn Sprinkler Pump**

NOTICE D'UTILISATION

**Pompe centrifuge et inoxydable
pour l'arrosage du gazon**

MANUAL DEL USUARIO

**Bomba centrífuga resistente a
la corrosión para rociadores de
césped**



FP5100

Installation/Operation/Parts

*For further operating, installation, or
maintenance assistance:*

Call 800-365-6832

English..... Pages 2-11

Installation/Fonctionnement/Pièces

*Pour plus de renseignements
concernant l'utilisation,
l'installation ou l'entretien,*

Composer le (800) 365-6832

Français Pages 12-21

Instalación/Operación/Piezas

*Para mayor información sobre el fun-
cionamiento, instalación o manten-
imiento de la bomba:*

Llame al 800-365-6832

Español..... Paginas 22-31

Important Safety Instructions

SAVE THESE INSTRUCTIONS - This manual contains important instructions that should be followed during installation, operation, and maintenance of the product.

⚠ This is the safety alert symbol. When you see this symbol on your pump or in this manual, look for one of the following signal words and be alert to the potential for personal injury!

⚠ DANGER indicates a hazard which, if not avoided, *will* result in death or serious injury.

⚠ WARNING indicates a hazard which, if not avoided, *could* result in death or serious injury.

⚠ CAUTION indicates a hazard which, if not avoided, *could* result in minor or moderate injury.

NOTICE addresses practices not related to personal injury.

Carefully read and follow all safety instructions in this manual and on pump.

Keep safety labels in good condition. Replace missing or damaged safety labels.

California Proposition 65 Warning

⚠ WARNING This product and related accessories contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Electrical Safety

⚠ WARNING **Risk of electric shock.** Can shock, burn or kill. To discharge motor capacitor, hold insulated handle screwdriver **BY THE HANDLE** and short capacitor terminals together. Do not touch metal screwdriver blade or capacitor terminals. If in doubt, consult a qualified electrician.

General Safety

⚠ CAUTION **Risk of burns.** Do not touch an operating motor. Modern motors are designed to operate at high temperatures. To avoid burns when servicing pump, allow it to cool for 20 minutes after shut-down before handling.

Pump is designed as a lawn sprinkler only. To avoid heat built-up, over pressure hazard and possible injury, do not use in a domestic water system. Do not use as a booster pump; pressurized suction may cause pump body to explode.

Do not allow pump or any system component to freeze. To do so will void warranty.

Pump water only with this pump.


Periodically inspect pump and system components.

Wear safety glasses at all times when working on pumps.

Keep work area clean, uncluttered and properly lighted; store properly all unused tools and equipment.

Keep visitors at a safe distance from the work areas.

“Dead Heading” a pump means running the pump while little or no water is released from the system. **Never** run pump above recommended pressure shown on the performance chart.

<p>⚠ WARNING</p>  <p>Hazardous voltage. Can shock, burn, or cause death.</p> <p>Ground pump before connecting to power supply. Disconnect power before working on pump, motor or tank.</p>

- ⚠** Wire motor for correct voltage. See “Electrical” section of this manual and motor nameplate.
- ⚠** Ground motor before connecting to power supply.
- ⚠** Meet National Electrical Code, Canadian Electrical Code, and local codes for all wiring.
- ⚠** Follow wiring instructions in this manual when connecting motor to power lines.


	<p>⚠ WARNING</p> <p>Hazardous pressure! Install pressure relief valve in discharge pipe.</p> <p>Release all pressure on system before working on any component.</p>
--	---

Table of Contents

3

Thank you for purchasing a top quality, factory tested pump.

	Page
General Safety	2
Installation	4, 5
Electrical	6, 7
Operation	8
Troubleshooting.....	9
Repair Parts	10
Warranty.....	11

Installation

4

Before You Install Your Pump

NOTICE Well must not be more than 20' (6.1m) depth to water.

- Step 1. Long runs and many fittings increase friction and reduce flow. Locate pump as close to well as possible; use as few elbows and fittings as possible. Be sure suction line is straight and angles toward pump.
- Step 2. Be sure well and pipe are clear of sand, dirt and scale. Foreign matter will plug pump and void warranty. Use new pipe for best results.
- Step 3. Protect pump and all piping from freezing. Freezing will split pipe, damage pump and void warranty. Check locally for frost protection requirements (usually pipe must be 12" (30.5cm) below frost line and pump must be insulated).
- Step 4. Be sure all pipes and foot valve are clean and in good shape.
- Step 5. No air pockets in suction pipe.
- Step 6. No leaks in suction pipe. Use Teflon tape or Plasto-Joint Stik to seal pipe joints.
- Step 7. Unions installed near pump and well will aid in servicing. Leave room to use wrenches.

⚠ WARNING Risk of explosion. Do not ground to a gas supply line. Pump body may explode if used as booster pump. DO NOT use in booster application.

⚠ CAUTION Risk of burns. Motor normally operates at high temperature and will be too hot to touch. It is protected from heat damage during operation by an automatic internal cutoff switch. Before handling pump or motor, stop motor and allow it to cool for 20 minutes.

Well Pipe Installation

NOTICE Use installation method below which matches your well type.

Cased Well/Dug Well Installation

- Step 1. Inspect foot valve to be sure it works freely. Inspect strainer to be sure it is clean and secure.
- Step 2. Connect foot valve and strainer to first length of suction pipe and lower pipe into well. Add sections of pipe as needed, using Teflon tape on male threads (use 1-1/2" pipe for suction pipe). Be sure all suction pipe is leakproof or pump will lose prime and fail to pump. Install foot valve 10 to 20 ft. (3 to 6 m) below lowest level to which water will drop while pump is operating (pumping water level). Your well driller can furnish this information.
- Step 3. To prevent sand and sediment from entering pumping system, foot valve/strainer should be at least 5 ft. (1.5 m) above bottom of well.
- Step 4. When proper depth is reached, install sanitary well seal over pipe and in well casing. Tighten bolts to seal casing.
- Step 5. When using foot valve, a priming tee and plug are recommended. (Fig. 1).

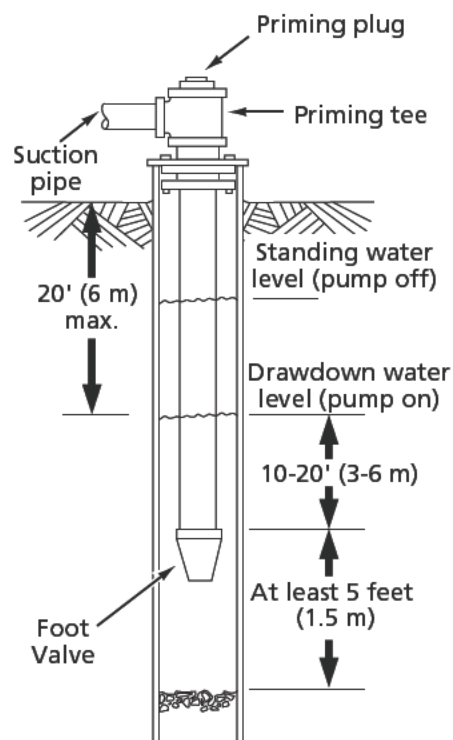


Figure 1 - Cased/Dug Well Installation

Installation

5

Driven Point Installation

- Step 1. Connect suction pipe to drive point (Fig. 2). Keep horizontal pipe run as short as possible. Use Teflon tape on male pipe threads. Multiple well points may be necessary to provide sufficient water to pump.
- Step 2. Install check valve in horizontal pipe. Flow arrow on check valve must point toward pump.

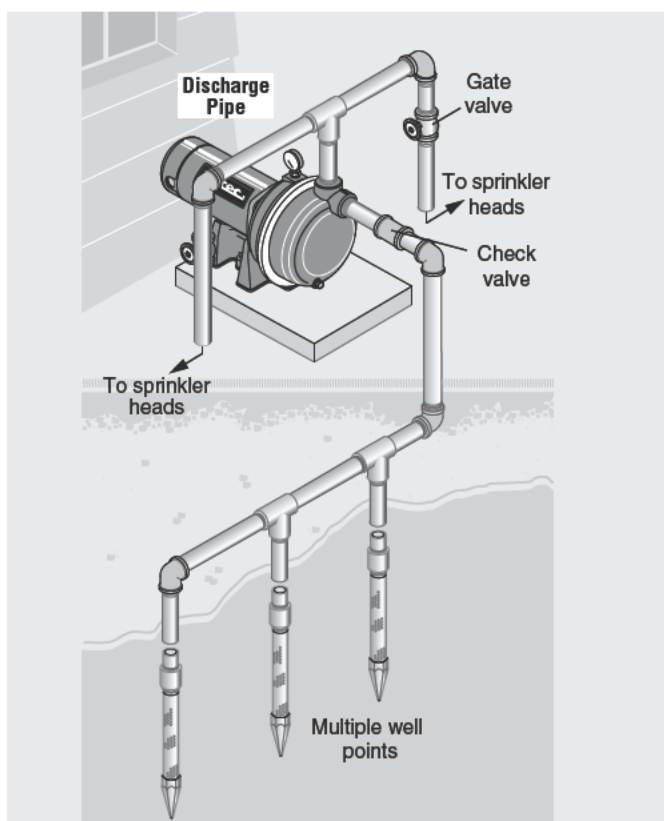


Figure 2 - Driven Point Installation, Multiple Well Points

Horizontal Piping from Well to Pump

- Step 1. Pump performance will be decreased if less than 1-1/2" pipe is used as suction pipe.
- Step 2. To aid priming on well point installations, install line check valve. Be sure check valve flow arrow points toward pump.

Discharge pipe sizes

Discharge pipe size should be increased to reduce pressure losses caused by friction on long pipe runs.

- Up to 100' (30.5 m) run: Same size as pump discharge port.
- 100' - 300' (30.5 - 91.4 m) run: Increase one pipe size.
- 300' - 600' (91.4 - 182.9 m) run: Increase two pipe sizes.

Lawn Sprinkling Application

This pump is designed for lawn sprinkling. Delivers plenty of water at full sprinkler pressure. Pumps from pond, cistern or well points.

Pump discharge can be divided to supply 4 or more sprinkler systems.

Do not use in booster pump applications.

Pump/Piping Installation

If turning pump on and off by pressure, a pressure switch and tank are required. For proper installation and operation instructions call Customer Service.

Use rigid pipe. Do not use hose or plastic tubing. See "Well Pipe Installation" for more information.

NOTICE Use only PTFE pipe thread sealant tape to joint compounds for making all threaded connections to the pump itself. **Do not use pipe joint compounds on plastic pumps:** they can react with the plastic in pump components. Make sure that all pipe joints in the suction pipe are air tight as well as water tight. *If the suction pipe can suck air, the pump will not be able to pull water from the well.*

- Step 1. Bolt pump to solid, level foundation.
- Step 2. Support all piping connected to pump.
- Step 3. Wrap 1-1/2 to 2 layers of Teflon tape clockwise (as you face end of pipe) on all male threads being attached to pump.
- Step 4. Tighten joints hand tight plus 1-1/2 turns. **Do not overtighten.**
- Step 5. Replace prime plug with pressure gauge. This will aid in sizing zones, troubleshooting, and following pump performance chart.

NOTICE Install pump as close to well head as possible. Long piping runs and many fittings create friction and reduce flow.

NOTICE For long horizontal pipe runs, install a priming tee between check valve and well head (Fig. 1). For driven point installations, install check valve. Be sure that check valve flow arrow points **toward** pump.

Motor Switch Settings

Dual-voltage motors (motors that can operate at either 115 or 230 volts), are set at the factory to 230 volts. Do not change motor voltage setting if line voltage is 230 volts, or if you have a single voltage motor.

NOTICE Never wire a 115 volt motor to a 230 volt line.

Remove Motor End Cover

If you have a dual-voltage motor, and will connect it to 115 volts, follow the procedure below. You will need to remove the motor end cover to change the voltage setting.

Your motor terminal board (located under the motor end cover) should look like Figure 4.

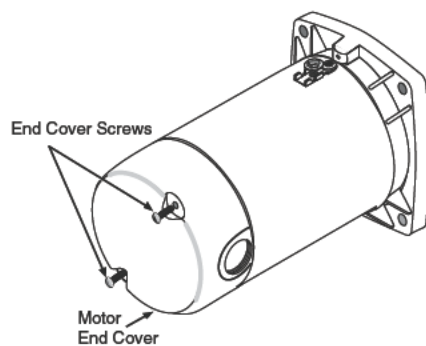


Figure 3 - Removing Motor End Cover

Selecting 115 volts with the Dial Type Voltage Selector

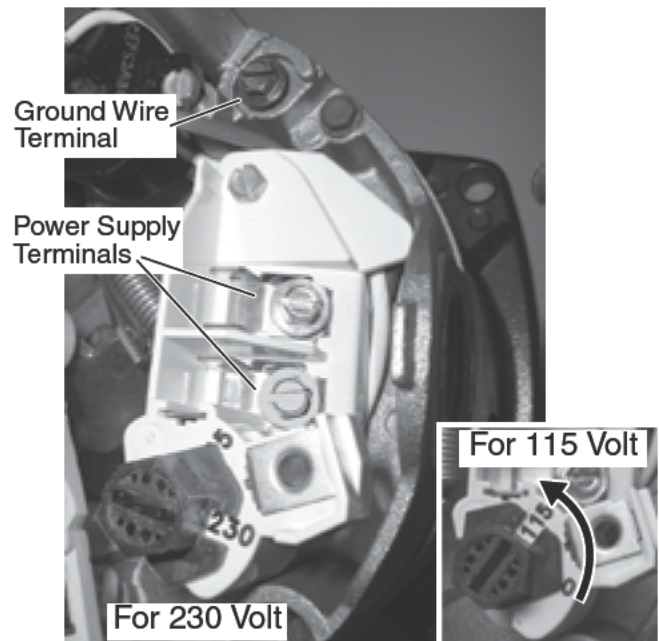


Figure 4 - Voltage set to 230 volts, Dial Type; turn dial to select 115 volts. Insert tool in slot to turn dial.

To change to 115 volts:

1. Make sure power is off.
 2. Turn the dial counter-clockwise until 115 shows in the dial window.
 3. Attach the power lead wires to the power lead terminals. Make sure the wires are secure.
 4. Attach the ground wire to the green ground screw.
 5. Reinstall the Motor end cover.
- Go to Wiring Connections below.

⚠ WARNING Risk of electric shock. Can shock, burn or kill. Disconnect power to motor before working on pump or motor. Ground motor before connecting to power supply.

Electrical


7

Wiring

▲WARNING Risk of electric shock. Can shock, burn or kill.

- Ground motor before connecting to electrical power supply. Failure to ground motor can cause severe or fatal electrical shock hazard.
- Do not ground to a gas supply line.
- To avoid dangerous or fatal electrical shock, turn OFF power to motor before working on electrical connections.
- Supply voltage must be within $\pm 10\%$ of nameplate voltage. Incorrect voltage can cause fire or damage motor and voids warranty. If in doubt consult a licensed electrician.
- Use wire size specified in Wiring Chart (below). If possible, connect pump to a separate branch circuit with no other appliances on it.
- Wire motor according to diagram on motor nameplate. If nameplate diagram differs from diagrams above, follow nameplate diagram.

- Step 1. Install, ground, wire and maintain this pump in accordance with electrical code requirements. Consult your local building inspector for information about codes.
- Step 2. Provide a correctly fused disconnect switch for protection while working on motor. Consult local or national electrical codes for switch requirements.
- Step 3. Disconnect power before servicing motor or pump. If the disconnect switch is out of sight of pump, lock it open and tag it to prevent unexpected power application.

Step 4. Ground the pump permanently using a wire of the same size as that specified in wiring chart, below. Make ground connection to green grounding terminal under motor canopy marked GRD. or .

Step 5. Connect ground wire to a grounded lead in the service panel or to a metal underground water pipe or well casing at least 10 feet long. Do not connect to plastic pipe or insulated fittings.

Step 6. Protect current carrying and grounding conductors from cuts, grease, heat, oil, and chemicals.

Step 7. Connect current carrying conductors to terminals L1 and L2 under motor canopy. When replacing motor, check wiring diagram on motor nameplate against Figure 4. If the motor wiring diagram does not match Figure 4, follow the diagram on the motor.

NOTICE 115/230 Volt single phase models are shipped from factory with motor wired for 230 volts. If power supply is 115 volts, remove motor canopy and change switch dial on motor as shown in Figure 4. Do not try to run motor as received on 115 volt current.

Step 8. Motor has automatic internal thermal overload protection. If motor has stopped for unknown reasons, thermal overload may restart it unexpectedly, which could cause injury or property damage. Disconnect power before servicing motor.

Step 9. If this procedure or the wiring diagrams are confusing, consult a licensed electrician.

Wiring Chart – Recommended Wire and Fuse Sizes for 115 and 230 volts

Pump Model	HP	Volts	Max Load Amp	Branch Fuse Rating* Amp	AWG Min. Wire Size (mm ²)	Distance in Feet (Meters) From Motor to Supply				
						0 - 100 (0 - 30)	101 - 200 (31 - 61)	201 - 300 (62 - 91)	301 - 400 (91 - 122)	401 - 500 (123 - 152)
						AWG Wire Size (mm ²)				
FP5162	1	115/230	14.8/7.4	20/15	12/14 (3/2)	12/14 (3/2)	8/14 (8.4/2)	6/14 (14/2)	6/12 (14/3)	4/10 (21/5.5)
FP5172	1 - 1/2	115/230	19.9/9.9	20/15	10/14 (5.5/2)	10/14 (5.5/2)	8/14 (8.4/2)	6/12 (14/3)	4/10 (21/5.5)	4/10 (21/5.5)
FP5182	2	115/230	24/12	20/15	10/14 (5.5/2)	10/14 (5.5/2)	6/14 (14/2)	6/12 (14/3)	4/10 (21/5.5)	4/10 (21/5.5)

* Dual element or Fusetron time delay fuses recommended for all motor circuits.

Operation

8

Priming the Pump

NOTICE 'Priming' refers to pump expelling all air in the system and beginning to move water from its source out into system. It does not refer only to pouring water into pump (although pouring water in is usually the first step).

CAUTION Risk of burns. NEVER run pump dry. Running pump without water may cause pump to overheat, damaging seal and possibly causing burns to persons handling pump. Fill pump with water before starting.

Step 1. Remove priming plug.

Step 2. Make sure suction and discharge valves and any hoses on discharge side of pump are open.

Step 3. Fill pump and suction pipe with water (Fig. 5).

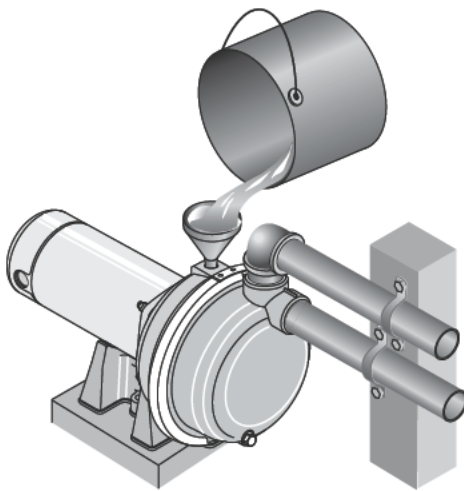


Figure 5 - Fill Pump Before Starting

Step 4. Replace priming plug, using Teflon tape on thread; tighten plug.

NOTICE If priming tee and plug have been provided for long horizontal run, be sure to fill suction pipe through this tee and replace plug. (Use Teflon tape on plug.)

Step 5. Start pump; water should be produced in 10 minutes or less, time depends on depth to water (not more than 20' (6 m)) and length of horizontal run (10' (3 m) of horizontal suction pipe = 1' (30.5 cm) of vertical lift due to friction losses in pipe). If no water is produced within 10 minutes, stop pump, release all pressure, remove priming plug, refill and try again.

WARNING Risk of explosion and scalding. NEVER run pump against closed discharge. To do so can boil water inside pump, causing hazardous pressure in unit, risk of explosion and possibly scalding persons handling pump (Fig. 6). Replace priming plug with pressure gauge to monitor pressure so that it is not allowed to exceed maximum pumping pressures according to performance chart.

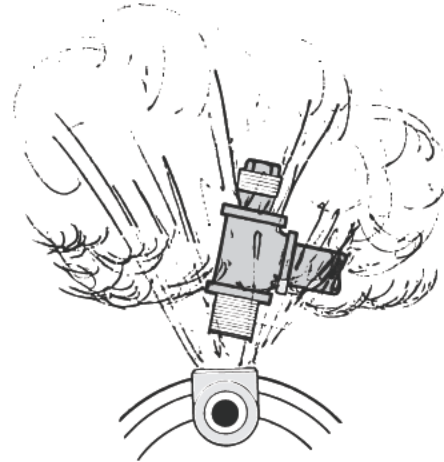


Figure 6 - Do Not Run Pump With Outlet Shut Off

To prevent explosion be sure discharge (valve, pistol grip hose nozzle, etc.) is open whenever pump is running.

Monitor pump body and piping temperature. Motor will warm up; this is normal. If pump body or piping begin to feel warm to touch, shut off pump and allow system to cool. Release all pressure in system and refill pump and piping with cold water.

Troubleshooting

⚠ WARNING Risk of electric shock. Can shock, burn or kill. To discharge capacitor, hold insulated handle screwdriver BY THE HANDLE and short capacitor terminals together. Do not touch metal screwdriver blade or capacitor terminals. If in doubt, consult a qualified electrician.

Symptom	Possible Cause(s)	Corrective Action
Motor will not run	Disconnect switch is off.	Be sure switch is on.
	Fuse is blown or circuit breaker tripped	Replace fuse or reset breaker.
	Starting switch is defective.	DISCONNECT POWER; Replace starting switch.
	Wire ast motor are loose, disconnected, or wired incorrectly.	Refer to instructions on wiring. DISCONNECT POWER; check and tighten all wiring.
Motor runs hot and overload kicks off or motor does not run and only hums.	Motor is wired incorrectly	Refer to instructions on wiring.
	Voltage is too low.	Check voltage being supplied to motor. Install heavier wiring if wire size is too small (See Electrical / Wiring Chart)
Motor Runs but no water is delivered* *(Note: Stop pump; then check prime before looking for other causes. Unscrew priming plug and see if water is in priming hole).	Pump in new installation did not pick up prime through:	In new installation:
	1. Improper priming	1. Re-prime according to instructions.
	2. Air leaks.	2. Check all connections on suction line, with soapy water or shaving cream
	3. Leaking foot valve or check valve	3. Replace foot valve or check valve.
	4. Pipe size too small	4. Re-pipe using size of suction and discharge ports on pump.
	Pump has lost prime through:	In installation already in use:
	1. Air leaks	1. Check all connections on suction line and shaft seal with soapy water.
	2. Water level bellow suction pipe inlet.	2. Lower suction line into water and re-prime. If receding water level in well exceeds 25' (7.6M), a deep well pump is needed.
	Impeller is plugged	Clean impeller
	Check valve or foot valve is stuck shut	Replace check valve or foot valve
	Pipes are frozen	Thaw pipes. Bury pipes below frost line. Heat pit or pump house.
	Foot valve and/or strainer are buried in sand or mud	Raise foot valve and/or strainer above bottom of water source.
*Pump does not deliver water to full capacity.	Water level in well is lower than estimated	A deep well jet will be needed if your well is more than 25' (7.6M) dept to water.
	Steel piping (if used) is corroded or limed, causing excess friction	Replace with plastic pipe where possible, otherwise with new steel pipe.
	Piping is too small in size	Re-pipe using size of suction and discharge ports on pump
	Pump not being supplied with enough water	Add additional well points.
Pump leaks around clamp	Clamp loose	STOP PUMP, tighten clamp nut 1 - 2 turns. Alternately tighten and tap on clamp with mallet to seat O-Ring. Do not overtighten.

Performance Chart in GPM(LPM)

Discharge Pressure PSI (kPa)	FP5162 - 1HP				FP5172 - 1 - 1/2 HP				FP5182, FP5182C - 2HP			
	Height of Pump Above Water in Feet (Meter)											
	5' (1.5)	10' (3)	15' (4.6)	20' (6.1)	5' (1.5)	10' (3)	15' (4.6)	20' (6.1)	5' (1.5)	10' (3)	15' (4.6)	20' (6.1)
10 (69)	55 (208)	49 (185)	48 (181)	45 (170)	67 (254)	61 (231)	56 (212)	46 (174)	69 (261)	64 (242)	65 (246)	62 (235)
15 (103)	51 (193)	46 (174)	45 (170)	44 (166)	66 (250)	58 (220)	55 (208)	45 (170)	65 (246)	62 (235)	60 (227)	57 (215)
20 (138)	45 (170)	42 (159)	39 (148)	37 (140)	61 (231)	56 (212)	54 (204)	44 (166)	59 (223)	56 (212)	54 (204)	52 (197)
25 (172)	38 (144)	35 (132)	32 (121)	29 (110)	55 (208)	52 (197)	51 (193)	43 (163)	52 (197)	50 (189)	48 (181)	46 (174)
30 (207)	31 (117)	28 (106)	24 (90)	20 (76)	48 (181)	45 (170)	44 (166)	37 (14)	47 (178)	45 (170)	42 (159)	40 (151)
35 (241)	23 (87)	19 (72)	16 (60)	11 (42)	39 (147)	37 (140)	34 (129)	28 (106)	42 (159)	38 (144)	35 (132)	32 (121)
40 (276)	17 (64)	13 (49)	8 (30)		33 (125)	27 (102)	20 (76)	11 (42)	34 (129)	30 (113)	27 (102)	23 (87)
45 (310)					18 (68)	14 (53)	8 (30)		25 (95)	18 (68)	13 (49)	10 (38)
50 (345)									14 (53)	7 (26)		

All models except FP5182 and FP5182C have discharge and suction size of 1-1/2" NPT. FP5182 and FP5182C have 2" NPT suction and discharge.

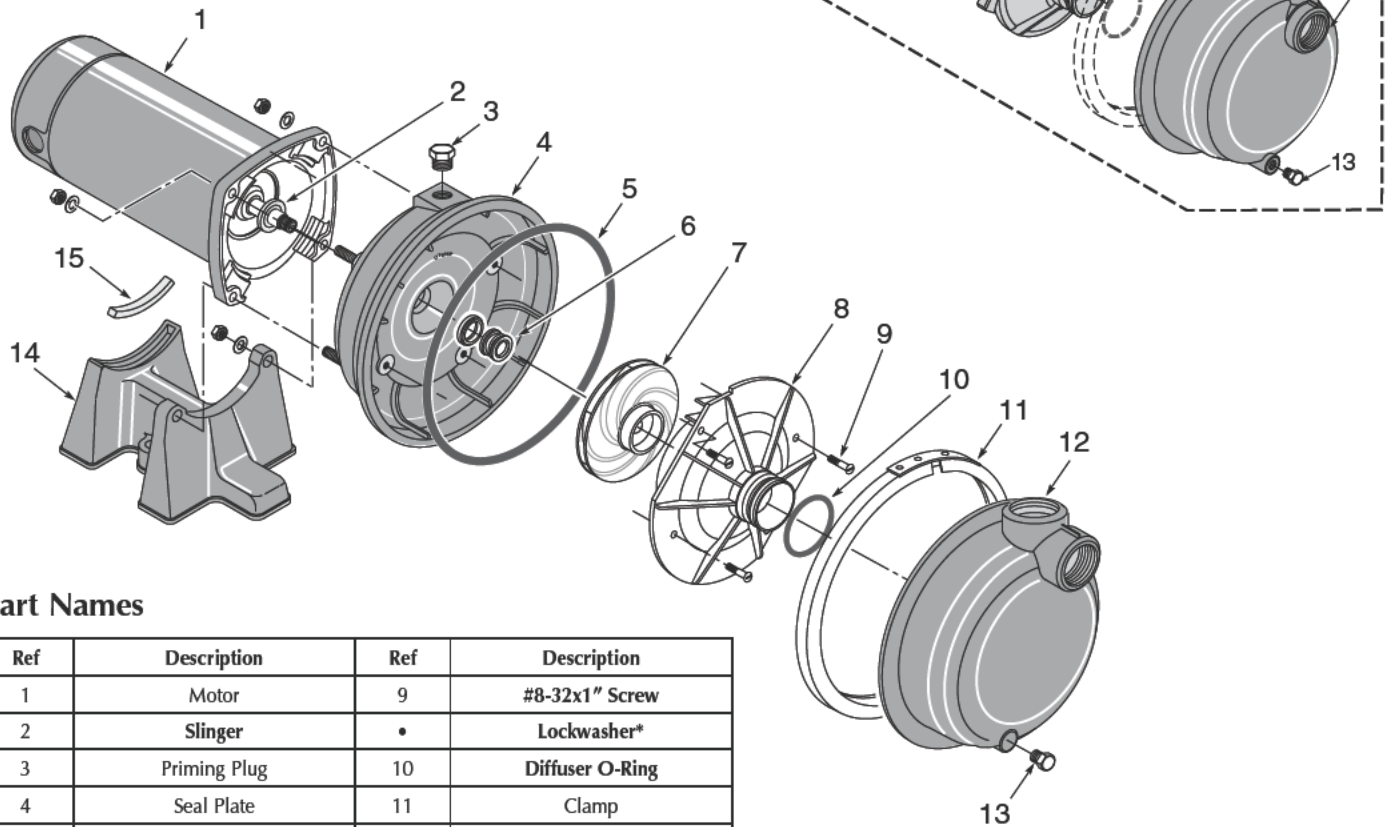
For parts or assistance, call Flotec Customer Service at 800-365-6832

Repair Parts

10

Models

FP5192-08
 FP5162-08
 FP5172-08
 FP5182-08
 FP5182-08C



Part Names

Ref	Description	Ref	Description
1	Motor	9	#8-32x1" Screw
2	Slinger	•	Lockwasher*
3	Priming Plug	10	Diffuser O-Ring
4	Seal Plate	11	Clamp
5	O-Ring	12	Pump Body
6	Shaft Seal	13	Drain Plug
7	<i>Impeller</i>	14	Base
8	<i>Diffuser</i>	15	Motor Pad

*Models FP5182-08 and FP5182-08C only.

Parts in **Bold Face** are included in Seal and Gasket Kit and in Overhaul Kit.

Parts in ***Bold Face Italics*** are included in Overhaul Kit only.

Ref	Description	FP5162-08 1HP	FP5172-08 1 - 1/2 HP	FP5182-08 2 HP
1	Moto	J218-596PKG	J218-601PKG	J2180883APKG
4	Seal Plate Complete	L176-47P1	L176-47P1	C103-189P
11	"V" Clamp	C19-54SS	C19-54SS	C19-37A
12	Pump Body Front Half	C176-53P	C176-53P	C176-62P
14	Base	C4-42P	C4-42P	C4-42P
•	Seal and Gasket Kit Includes Items 2,5,6,9,&10. See "Parts Names," above.	FPPP5000	FPPP5000	FPPP5000
•	Overhaul Kit Includes all items in Seal and Gasket Kit plus Item 7, <i>impeller</i> , and 8, <i>diffuser</i> . See "Part Names," above.	FPP5001	FPP5002	FPP2008

Warranty



Retain Original Receipt for Warranty Eligibility

Limited Warranty

This Limited Warranty is effective June 1, 2011 and replaces all undated warranties and warranties dated before June 1, 2011. FLOTEC warrants to the original consumer purchaser ("Purchaser" or "You") that its products are free from defects in material and workmanship for a period of twelve (12) months from the date of the original consumer purchase. If, within twelve (12) months from the original consumer purchase, any such product shall prove to be defective, it shall be repaired or replaced at FLOTEC's option, subject to the terms and conditions set forth herein. Note that this limited warranty applies to manufacturing defects only and not to ordinary wear and tear. All mechanical devices need periodic parts and service to perform well. This limited warranty does not cover repair when normal use has exhausted the life of a part or the equipment.

The original purchase receipt and product warranty information label are required to determine warranty eligibility. Eligibility is based on purchase date of original product – not the date of replacement under warranty. The warranty is limited to repair or replacement of original purchased product only, not replacement product (i.e. one warranty replacement allowed per purchase). Purchaser pays all removal, installation, labor, shipping, and incidental charges.

For parts or troubleshooting assistance, DO NOT return product to your retail store - contact FLOTEC Customer Service at 800-365-6832.

Claims made under this warranty shall be made by returning the product (except sewage pumps, see below) to the retail outlet where it was purchased or to the factory immediately after the discovery of any alleged defect. FLOTEC will subsequently take corrective action as promptly as reasonably possible. No requests for service will be accepted if received more than 30 days after the warranty expires. Warranty is not transferable and does not apply to products used in commercial/rental applications.

Sewage Pumps

DO NOT return a sewage pump (that has been installed) to your retail store. Contact FLOTEC Customer Service. Sewage pumps that have seen service and been removed carry a contamination hazard with them.

If your sewage pump has failed:

- Wear rubber gloves when handling the pump;
- For warranty purposes, return the pump's cord tag and original receipt of purchase to the retail store;
- Dispose of the pump according to local disposal ordinances.

Exceptions to the Twelve (12) Month Limited Warranty

Product	Warranty Period
FP0F360AC, FP0FDC	90 days
FP0S1775A, FP0S1790PCA, FP0S2400A, FP0S2450A, FP0S4100X, FP2800DCC, FPCP-20ULST, FPPSS3000, FPSC2150A, FPSC3150A, FPSC3350A	2 Years
4" Submersible Well Pumps, FP0S3200A, FP0S3250A, FP0S6000A, FPSC1725X, FPSC2200A, FPSC2250A, FPSE3601A, FPPSS5000	3 Years
FP7100 Series Pressure Tanks, E100ELT, E3305TLT, E3375TLT, E5005TLTT, E50TLT, E50VLT, E75STVT, E75VLT, FPSC3200A, FPSC3250A, FPSC4550A	5 Years

General Terms and Conditions; Limitation of Remedies

You must pay all labor and shipping charges necessary to replace product covered by this warranty. This warranty does not apply to the following: (1) acts of God; (2) products which, in FLOTEC's sole judgment, have been subject to negligence, abuse, accident, misapplication, tampering, or alteration; (3) failures due to improper installation, operation, maintenance or storage; (4) atypical or unapproved application, use or service; (5) failures caused by corrosion, rust or other foreign materials in the system, or operation at pressures in excess of recommended maximums.

This warranty sets forth FLOTEC's sole obligation and purchaser's exclusive remedy for defective products.

FLOTEC SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR CONTINGENT DAMAGES WHATSOEVER.

THE FOREGOING LIMITED WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE FOREGOING LIMITED WARRANTIES SHALL NOT EXTEND BEYOND THE DURATION PROVIDED HEREIN.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to You. This warranty gives You specific legal rights and You may also have other rights which vary from state to state.

FLOTEC • 293 Wright Street • Delavan, WI USA 53115

Phone: 800-365-6832 • Fax: 800-526-3757 • www.flotecwater.com