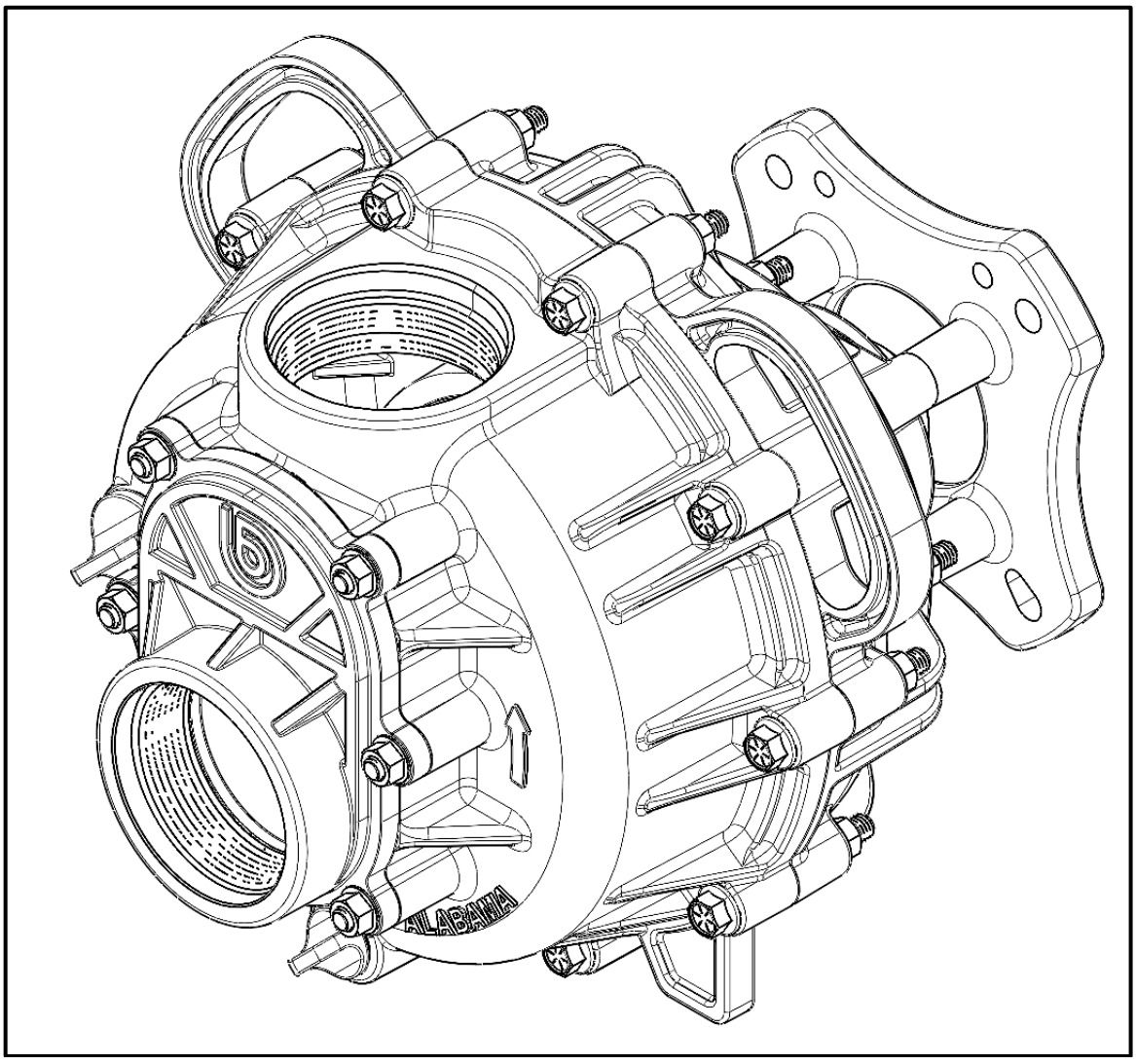
PSP-3360
POLYPROPYLENE SELF-PRIMING
3” CENTRIFUGAL PUMP

PARTS AND
INSTALLATION MANUAL



JOHN BLUE COMPANY

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SAFETY PRECAUTIONS:

- EQUIPMENT SHOULD BE OPERATED BY RESPONSIBLE PEOPLE.
- A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT.
- FILL SYSTEM WITH WATER FIRST AND CHECK FOR LEAKS.
- REPLACE HOSES WHEN WORN OR CRACKED.

WARNING:

USE OF THIS PRODUCT FOR ANY PURPOSES OTHER THAN ITS ORIGINAL INTENT, ABUSE OF THE PRODUCT, AND/OR MODIFICATION TO THE ORIGINAL PRODUCT IS STRICTLY PROHIBITED BY JOHN BLUE COMPANY. JOHN BLUE COMPANY RESERVES THE RIGHT TO DENY WARRANTY OR LIABILITY CLAIMS IN ANY/ALL SITUATIONS INVOLVING MISUSE, ABUSE OR MODIFICATION.

THE ORIGINAL INTENT OF THIS PRODUCT DOES NOT INCLUDE USE WHERE THE MAXIMUM ALLOWED PRESSURE OR TEMPERATURE IS EXCEEDED, AND IT DOES NOT INCLUDE APPLICATIONS UTILIZING FLUIDS THAT ARE NOT COMPATIBLE WITH THE PRODUCT'S COMPONENT MATERIALS. DO NOT USE THIS PRODUCT WITH FLAMMABLE OR COMBUSTIBLE FLUIDS SUCH AS GASOLINE, KEROSENE, DIESEL, ETC...

FAILURE TO FOLLOW THIS NOTICE MAY RESULT IN INJURY AND/OR SERIOUS PROPERTY DAMAGE AND WILL VOID THE PRODUCT WARRANTY. IF IN DOUBT ABOUT YOUR APPLICATION, CONTACT YOUR STOCKING DEALER OR THE JOHN BLUE TECHNICAL STAFF AT 1-800-253-2583.

WARNING:

This product can expose you to certain chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov.

Note to the Owner

The pump should be inspected annually for any wear or damage to any of the components in order to ensure proper operation. Enter the date of installation in the space provided for future reference. This information will be required for ordering replacement parts or servicing your pump. Our engineering department constantly improves its products. We reserve the right to make design and specification changes without notice.

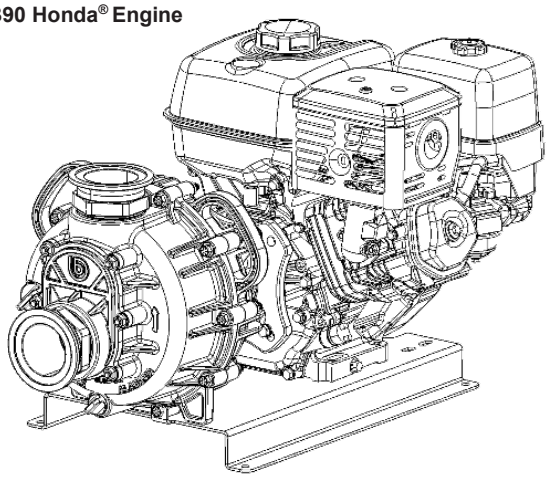
DATE OF INSTALLATION: _____

Specifications:

- Max flow*: 375 gpm
- Max pressure*: 73 psi
- Minimum Required HP: 10 Hp
- Port size: 3" FPT
- *Optional screw-in M300 flange adapters = 116431-01*
- Materials: Polypropylene, Viton® o-rings, 316 stainless bolts and shaft

* Under optimal plumbing conditions

PSP-3360 shown with GX-390 Honda® Engine



- The standard pump can be mounted directly to a gas engine, electric motor, or hydraulic motor.

- Note that any plumbing must be supported so that its weight does not hang off the pump – this will void the warranty.

- For best results when installing any fittings into the inlet and outlet of the pump, apply soft-set thread sealant to both the male threads on the fitting and the female threads of the pump. (Examples of soft-set thread sealants include Gasoila Soft-Set Thread Sealant with PTFE and Permatex Thread Sealant with PTFE or equivalent) **OVERTIGHTENING FITTINGS WILL RESULT IN PUMP DAMAGE AND VOID WARRANTY**

- The inlet configuration of the pump may be changed by removing the 6 locknuts holding the inlet on. The inlet check valve flap may also be removed in high configuration. Using the pump in the high inlet position allows the outlet hose to drain when the pump is shut off, which is beneficial to some users. Tighten all housing fasteners to 10-15 ft-lbs.

Start-up Procedure:

- Inspect all fittings to ensure they are tight and free of leaks.

- Inspect antifreeze level in the seal reservoir. Antifreeze level should be around ½" below the fill opening. Add 50/50 pre-diluted automotive antifreeze as required to maintain proper level in the seal reservoir.

- Ensure impeller is rotating in the correct direction as indicated by arrow on main housing.

- Pre-fill pump housing to the top of the outlet with fluid being pumped.

- Open inlet and outlet valves.

- Initiate power to the pump.

Storage:

After use, flush the pump with a solution that will neutralize the fluid you have been pumping and then drain. *Do not use water to flush acids* – resulting damage will not be warrantied.

Maintenance:

The seal reservoir may be inspected by opening the fill plug. The fluid level should be around ½" below the opening. If the fluid is dirty, drain by tilting the pump upside down or pull it out with a vacuum, then replace with 50/50 pre-diluted automotive antifreeze. If the fluid is cloudy, the impeller side seal may be leaking and should be replaced.

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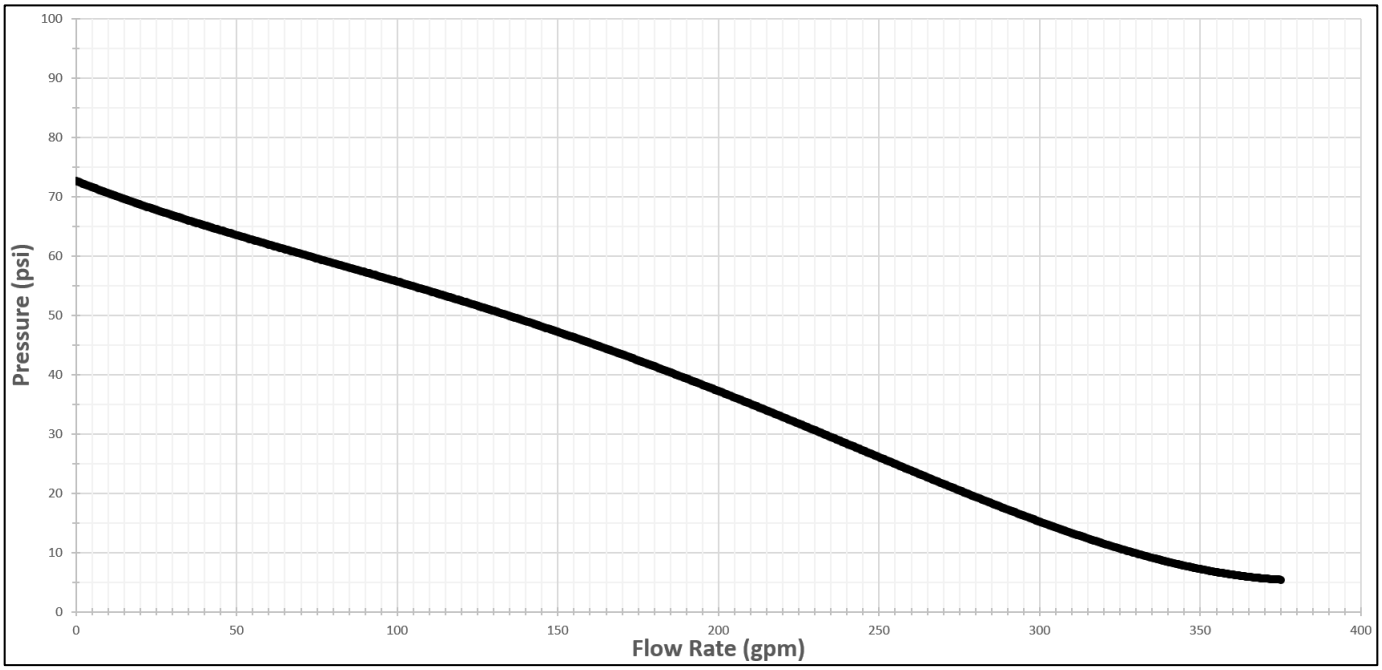
Performance Curve:



Pump Discharge Flow (GPM)	0	70	135	185	233	276	327	375
Pump Discharge Pressure (PSI)	73	60	50	40	30	20	10	5

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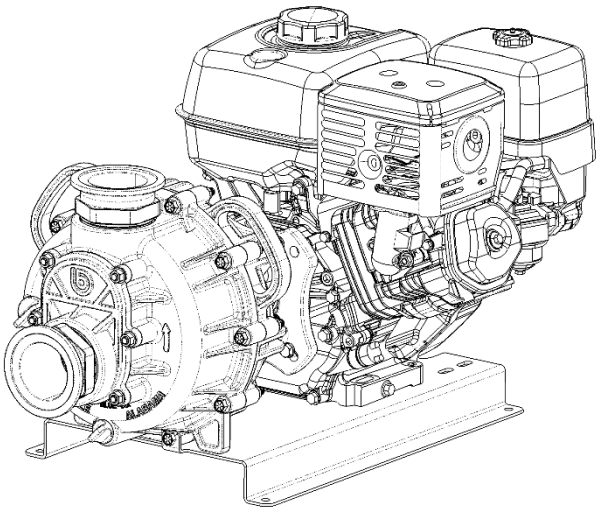
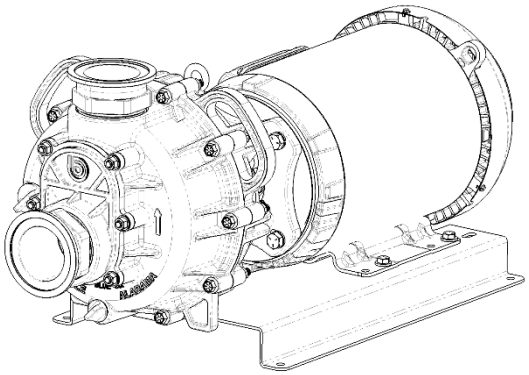
Available Electric Motor, Gas Engine, and Hydraulic Motor Models:

** All models available with optional 300 flange adapters (FLG)

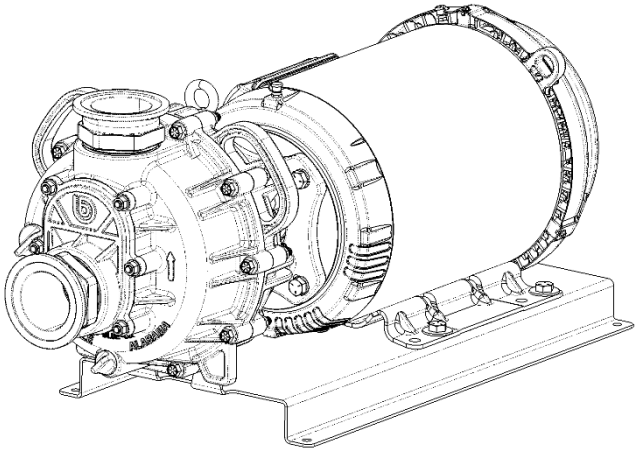
Pump Models	Electric Motor / Gas Engine / Hydraulic Motor Part Number	Description
PSP-3360(FLG)	N/A	Pump only – No Power Source
PSP-3360-E10TB-1(FLG) PSP-3360-E10TB(FLG)	116846-01 / 116847-01	10HP Electric Motor, TEFC (1PH / 3PH)
PSP-3360-E15TB(FLG)	116848-01	15HP Electric Motor, TEFC (3PH)
PSP-3360-G13HRP(FLG)	116272-01	Honda GX-390 Gas Engine, Rope Start
PSP-3360-G13H(FLG)	116457-01	Honda GX-390 Gas Engine, Elec. Start with Rope Start Backup
PSP-3360-G14V(FLG)	116590-01	B. S. Vanguard 14HP Gas Engine, Elec. Start with Rope Start Backup
PSP-3360-G14K(FLG)	116265-01	Kohler 14HP Gas Engine, Elec. Start with Rope Start Backup



PSP-3360-G13H



PSP-3360-E10TB Shown



PSP-3360-E15TB Shown

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Plumbing / Piping:

- Polypropylene self-priming centrifugal pumps are not designed to support piping. If piping is used, it should be supported independently of the pump and connected to the pump with flexible members such as hose.
- It is recommended that new clean pipe be used at installation and be of the same size as the pump ports. For long distances, the pipe size may need to be increased.
- The suction pipe should always be sloped upward to avoid creating air pockets in the line.

Electrical:

- For electric motors, a licensed electrician must be used to wire the pump/motor assembly. The wire and fuses should be sized by the licensed electrician based on the motor tag data and the length of wire run.
- Do not use the pump/motor assembly in explosive atmospheres – ensure adequate ventilation.

Gas Engines:

- Use AWG No. 4 wire to connect both the positive terminal of the battery to the stud on the starter solenoid, and the negative terminal of the battery to an engine mounting bolt or a good grounding point on the frame. The length of cable should be kept to a minimum, 5 ft or less. Protect positive electrical connections with a protective boot.
- The battery used should be 12v – 45Ah or larger, and it must be securely mounted to the frame.
- Coat terminals and cable ends with grease.
- Do not use the pump/engine assembly in explosive atmospheres – ensure adequate ventilation.
- NOTE: Failure to follow these guidelines could result in failures not covered by warranty.

For proper engine operation, maintenance and safety instructions, refer to the engine owner's manual shipped with the unit. Additional engine owner's manual, replacement part information, repair and support information may be found here:

Honda	www.engines.honda.com/parts-and-support
Briggs & Stratton	www.vanguardpower.com/na/en_us/support.html
Kohler (Rehlko)	www.rehlko.com/powertrain-technologies.html

Maintenance:

- Inspect the seal reservoir fluid level. It should be close to top of fill port when plug is removed.
- If dirty, replace the fluid by draining and replacing with a 50/50 mixture of ethylene glycol antifreeze and water. The recommended service interval for this fluid is 100 hours.
- If the fluid in the seal reservoir becomes cloudy or loses fluid after use, the impeller side seal is leaking and should be replaced.
- Inspect the pump frequently for any leaks from the housing gaskets or shaft seal.

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Storage:

IMPORTANT – KEEP FLUIDS OUT OF THE PUMP AND KEEP IT FROM FREEZING**

- Freezing temperatures can cause the fluid or water to freeze internally to the pump, which can cause severe damage to polypropylene components.
- **To prevent excessive corrosion of the pump's components**:
  - Flush pump thoroughly with 5 to 10 gallons of a solution that will neutralize the liquid last pumped (refer to that manufacturer's instructions).

Repair:

SEAL REPLACEMENT:

* Be sure to order the correct seal for your pump.
* Gasket and seal kits may also be purchased to rebuild pump – see Parts Listing section

1) Remove plumbing from the pump and flush fluids.
2) Loosen the set screw located on the pump impeller shaft where it mates to the power source shaft. Penetrating oil should be allowed to soak between pump impeller shaft and the power source shaft if it is stuck.
3) Loosen and remove the fasteners holding the pump assembly to the engine/motor/pedestal; then pull the pump assembly straight off the power source shaft. Do not pry the pump back and forth, as it may damage the pump shaft.
4) Remove the (10) fasteners holding the pump housing to the back plate and reservoir assembly.
5) Remove the scroll plate assembly by pulling straight up and away from back plate. Hold the pump shaft stationary and first unscrew the impeller retaining screw with an impact wrench, then the pull the impeller itself straight off from the impeller shaft.
6) Drain the seal reservoir fluid and then remove the motor/engine adapter and the reservoir housing from the pump backplate.
7) Remove the seal seats from the pump adapter and backplate (pump housing) and carefully clean the counterbores where they fit.
8) When re-installing new seal seats, coat the rubber o.d. with a quality o-ring lubricant or diluted dish soap / water solution and press the seal seat fully into the respective counterbores.
9) Using a small hammer and a plastic tube or block on the seal seat, you may lightly tap the seats into the counterbores to make sure they are bottomed out fully.
10) Before re-assembly, make sure the ceramic faces (where the rotary seal will touch) are clean.
11) Thoroughly clean the shaft and lightly lubricate it with o-ring lubricant or diluted dish soap / water solution before installing the shaft seals and spring onto the shaft.
12) Re-install the anti-freeze/water mixture as described in the Maintenance section.

IMPELLER REPLACEMENT:

1) Remove plumbing from the pump and flush fluids.
2) Remove the (10) fasteners holding the pump housing to the back plate and reservoir assembly.
3) Remove the scroll plate assembly by pulling straight up and away from back cover. Hold the pump shaft stationary and first unscrew the impeller retaining screw with an impact wrench, then the pull the impeller itself straight off from the impeller shaft.

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4) Replace impeller and retorque retaining nut to 17-20 ft-lbs.
5) Replace scroll plate ensuring its anti-rotation tabs fit securely into back plate recesses.
6) Reinstall pump housing and retorque 10 fasteners to 10ft-lbs each.

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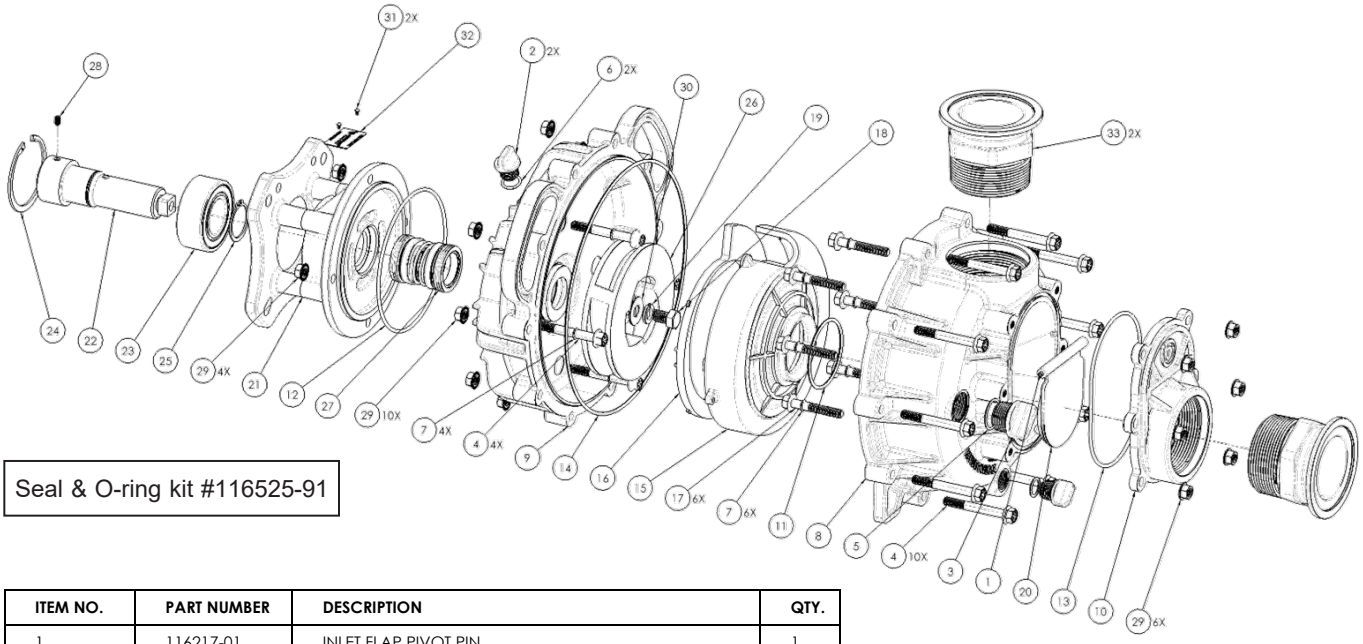
PSP-3360 Parts Breakdown:



Seal & O-ring kit #116525-91

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	116217-01	INLET FLAP PIVOT PIN	1
2	116288-01	1/2" NPT PLUG	2
3	116289-01	1IN PLUG	1
4	116291-01	FLANGED HEAD BOLT, 3/8-16X3, 316SS	14
5	116293-01	O-RING, VITON - 1IN PLUG	1
6	116294-01	O-RING, VITON - 1/2 IN PLUG	2
7	116300-01	O-RING, VITON - 3/8 BOLTS	10
8	116425-01	HOUSING	1
9	116426-01	BACKPLATE	1
10	116428-01	INLET FLANGE 3IN NPT	1
11	116433-01	O-RING, VITON - VOLUTE	1
12	116434-01	O-RING, VITON - POWER ADAPTER	1
13	116435-01	O-RING, VITON - INLET FLANGE	1
14	116436-01	O-RING, VITON - HOUSING	1
15	116438-01	SINGLE SCROLL PLATE	1
16	116439-01	SCROLL PLATE INSERT	1
17	116482-01	FLANGED HEAD 316SS BOLT, 3/8-16X2-3/8	6
18	116520-01	1/2-13 X 3/4 HEX BOLT, 316SS (17-20FT-BS)	1
19	116521-01	1/2" LOCK WASHER, 316SS	1
20	116620-01	INLET FLAP	1
21	116840-01	BEARING HOUSING	1
22	116841-01	IMPELLER SHAFT	1
23	116857-01	IMPELLER SHAFT BEARING	1
24	116858-01	INTERNAL RETAINING RING - IMPELLER SHAFT BEARING	1
25	116859-01	EXTERNAL RETAINING RING - IMPELLER SHAFT BEARING	1
26	116873-01	IMPELLER	1
27	43005	MECHANICAL SEAL ASSY,VITON	1
28	116896-01	1/4-20 X ¼ SOC HD SET SCREW, LOCKING PATCH	1
29	91077	3/8-16 FLANGED NUT(WHIZ-LOCK), PLATED (8-10FT-LBS)	20
30	93044	1/2 FLAT WASHER, 316SS	1
31	A-3557	#4 X 3/16 TYPE-U DRIVE SCREW	2
32	S-3594	NAME PLATE	1
33	116431-01	M300 TO 3IN NPT ADAPTER - **OPTIONAL**	2

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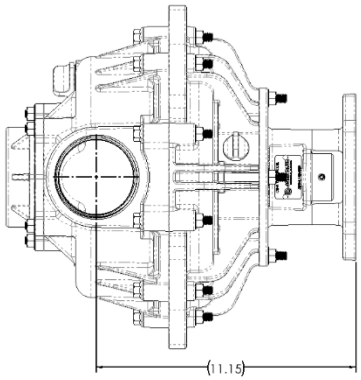
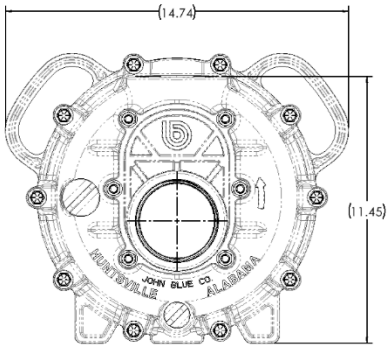
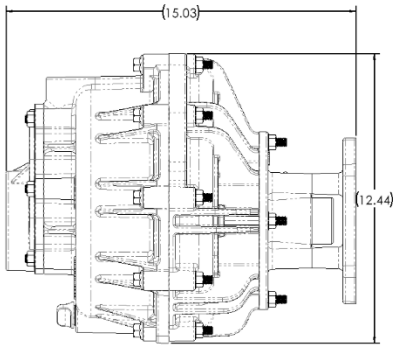
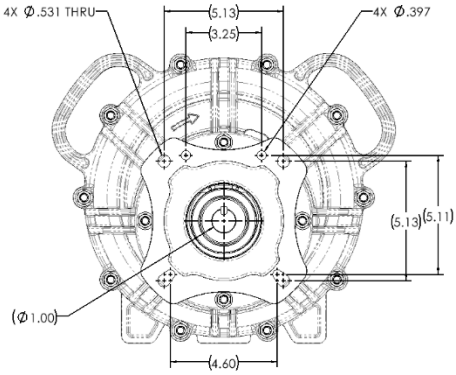
PSP-3360 Dimensional Information:









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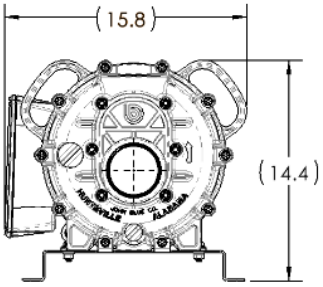

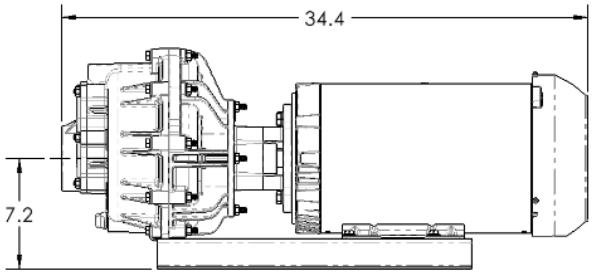

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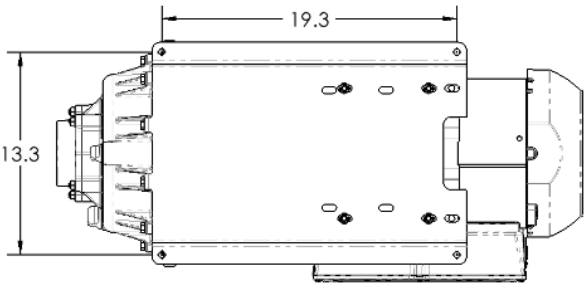

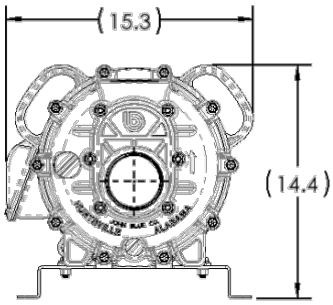

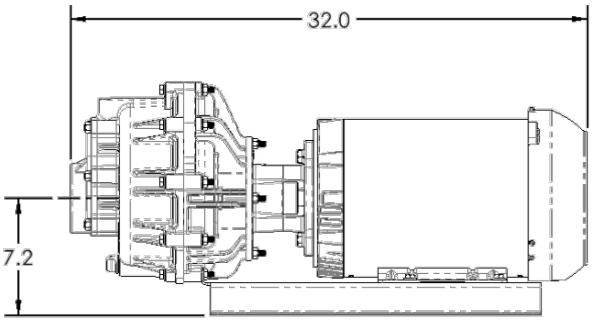

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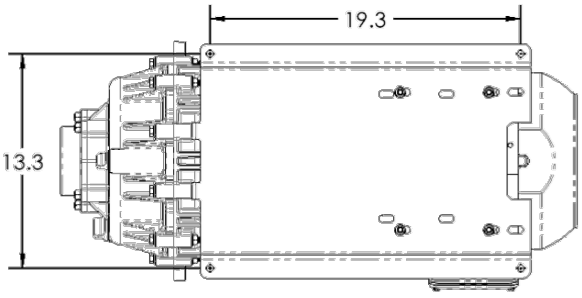

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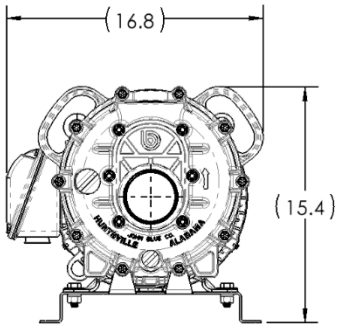

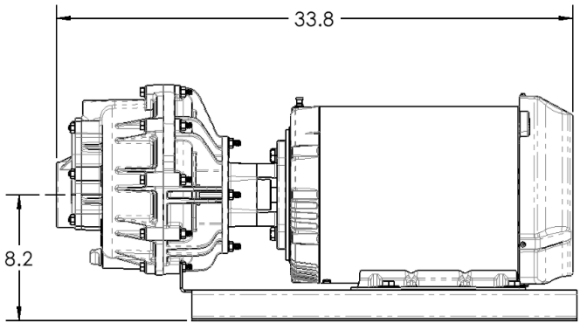

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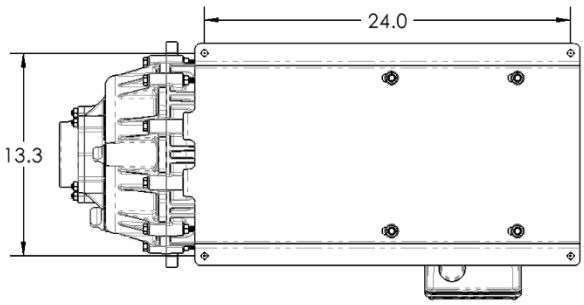

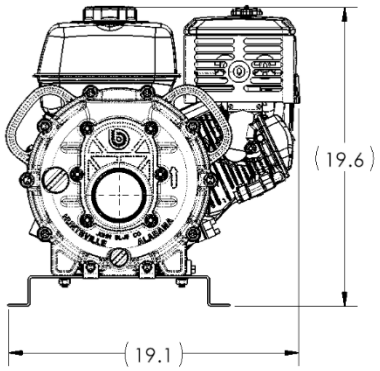

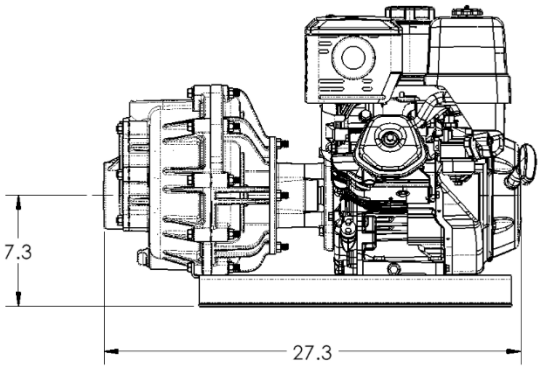

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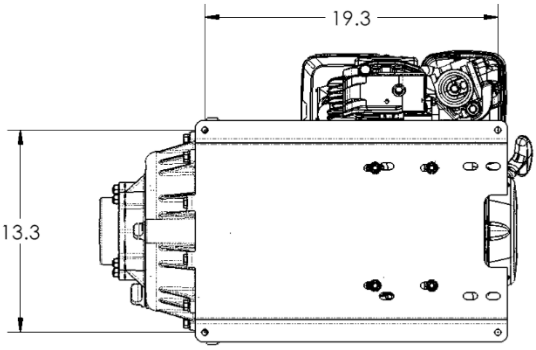

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Troubleshooting:

ISSUE	PROBABLE CAUSE
Pump makes rattling noise while running	Cavitation or pump starvation (suction lift is too high or the inlet line is too restrictive)
Reduced pump output or pressure	Clogged impeller or inlet piping (including strainer)
	Leaks in suction line or at inlet gasket
	Collapsed suction line
	Trapped air in sections of suction line
	Suction lift is too great
	Discharge lift is too great
	Worn or damaged parts (impeller or volute)
Pump fails to prime or slow prime	Leaks in suction line or at inlet gasket
	Failure to pre-fill pump with fluid to generate suction
	Suction lift is too great
	Collapsed suction line
	User may need to swap the inlet flange orientation (change from center inlet to high inlet without flap)
Seal reservoir fluid changes level	Leak at the input shaft seal if level is low
	Leak at the impeller side seal if level is high

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LIMITED WARRANTY

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Each new machine or component manufactured by John Blue Company through original buyer is warranted by John Blue Company to buyer and to any party or parties to whom buyer may resell, lease or lend the equipment to be free from defects in material and workmanship under normal use and service. This obligation of John Blue Company under this warranty is limited to the repair or replacement of defective parts or correction of improper workmanship of any parts of such equipment which shall within one year from the date of John Blue's original delivery thereof, be returned to John Blue's factory, transportation charges prepaid and which John Blue Company shall determine to its satisfaction upon examination thereof to have been thus defective. When it is impractical to return the defective parts of such equipment to John Blue's factory, then John Blue shall have no liability for the labor cost involved in repairing or replacing any such parts and shall be liable solely for supplying the material necessary to replace or repair the defective parts, provided that prior thereto John Blue Company shall have determined to its satisfaction that any such parts are thus defective.

This warranty shall not apply to any equipment which shall have been repaired or altered outside John Blue's factory in any way so as to affect its durability, nor which has been subjected to misuse, abuse, negligence or accident, or operated in any manner other than in accordance with operating instructions provided by John Blue Company. This warranty does not extend to repairs made necessary by theuse of inferior or unsuitable parts or accessories, or parts or accessories not recommended by John Blue Company.

John Blue Company makes no warranties in respect to parts, accessories or components not manufactured by John Blue Company, same ordinarily being warranted separately by their respective manufacturers.

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