INSTALLATION, OPERATION & MAINTENANCE MANUAL

PERFECTA PUMP®
Electric Submersible Pump

Single Phase
115 V 60 Hz
220 V 50 Hz

Models
GF 32-9
GF 32-9NL
GF 32-9X
IGF 32-9
IGF 32-9NL
IGF 32-9X
TIGF 32-9NL
TIGF 32-9NLX

Read this manual carefully before installing, operating or servicing these pump models. Observe all safety information. Failure to comply with instructions may result in personal injury and/or property damage. Please retain these instructions.
### Technical data

**GF 32-9**
- **Pump Material:** Noryl GTX 830, 304 S.S Rotor shaft and 316 S.S Hardware
- **Seal System:** 2 seals (1 FKM, 1 BUNA-N)
- **Motor Voltage (115 Volt):** 115 V, 5.0 Amps, 60 Hz, single-phase std
- **Motor Voltage (220Volt):** 220 V, 2.1 Amps, 50 Hz, single-phase std
- **Max. Power Consumption:** 500 watt
- **Max. Submersion Depth:** 33" (10 m) or limited to length of cable
- **Overall Dimensions:** 7.2" (185 mm)
- **Height Including Handle:** 9.8" (250 mm)
- **Weight:** 13.5 lbs (6.1kg)
- **Power Cord (115 Volt):** 22' submersible
- **Power Cord (220 Volt):** 16' submersible
- **Level Regulator:** Automatic on/off level control std
- **Oil filled Motor:** Shell Tellus C68 or equal
- **Thermal Breaker:** Capacitor

**IGF 32-9**
- **Pump Material:** Noryl GTX 830, 316 SS Shaft & Hardware
- **Seal System:** 2 FKM seals
- **All other components are the same as for GF 32-9. Please see above.**

**TIGF 32-9**
- **Same as for IGF 32-9 but with all exposed metal parts made of titanium.***

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**Capacitance curve:**

**PERFECTA® SERIES**

- **NOMINAL PRESSURE:** 115 V / 60 Hz
- **FLOW RATE:** 220 V / 50 Hz

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**Notes:**
- NL -> Manual/no float switch
- X -> 220V, 50Hz

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*115V PLUG NEEDS TO BE REMOVED*
**ALWAYS DISCONNECT PUMP FROM ELECTRICAL SOURCE BEFORE SERVICING! NOT FOR USE IN FLAMMABLE LIQUIDS!**

**IMPORTANT: IN ANY CORROSIVE ENVIRONMENT, CONSULT FACTORY OR YOUR DISTRIBUTOR BEFORE INSTALLATION OR USE.**

**TROUBLE SHOOTING**

**Pump shuts off:**
- Adjust float switch
- Check impeller for free rotation and clogging
- Check pump passage, hose or pipe for kink or clog.

**Pump is heating up:**
- Check impeller for free rotation
- Check voltage

**Pump performance low:**
- Check for blockage
- Check impeller for excessive wear

**SERVICE:**

**Tools needed**
- Phillips screwdrivers (#1 and #2), locking pliers, 10 mm and 17 mm wrench, ball bearing puller.

**A. Disassembly of pump top.**
- (Check wires, rotor, stator, ball bearings and oil). Remove (pos 39) handle screws (pos 4). Remove handle. Remove (pos 37) top cover screws (pos 2) and open top cover. Disconnect wires, remove motor housing cover (pos 3). Inspect the quality of the oil. If milky or whitish in color, check seals and replace (both seals and oil) if necessary. To remove rotor, ball bearings and seals, follow steps described in B. Disassemble pump bottom before proceeding. Once impeller is off, pull out rotor. Inspect bearings, replace if necessary. Press out lip seals. Inspect and replace as necessary.

**B. Disassembly of pump bottom**
- (strainer, suction cover, impeller) Remove strainer screws (pos 36), remove strainer (pos 6) and suction cover (pos 7). Hold impeller with vise grip and remove impeller screw (pos 40). Remove impeller (pos 5). Impeller vanes should have sharp edges to maximize performance. Replace impeller if vanes are rounded or dull.
- Inspection of pump bottom parts. Look at lower lip seal parts (pos 27) for visible wear. If damaged or worn replace both lip seals. To replace lip seals, disassemble top portion of pump first and remove the oil (see A., disassembly of pump top).

**Note: Both seal openings should face down.**

**C. Important notes on re-assembly of pump**
- All O-rings should be lubricated with a silicone based grease, or lubricated with same oil as in motor, before assembly. Replace ball bearings to shaft. To re-install inner cover, lubricate bearing holder. Use a plastic or rubber mallet to lightly tap until cover is in place. It is important that the bearing is in the absolute center of the bearing holder when closing the top cover. If not centered, the shaft will not turn freely.

BJM Pumps, LLC warrants each new pump against defects in workmanship and material for the period of 90 DAYS. It will replace or repair for the original purchaser, any genuine parts found to be defective upon return to its factory at CT (or other place as designated by it), transportation prepaid by purchaser. The labor involved in replacing defective parts is not warrantable. Other equipment and accessories are warranted only to the extent of the original manufacturer’s warranty. This warranty does not cover any pump which has been damaged due to careless handling, improper use or application, improper power supply, use in unsuitable liquids, or faulty installation. Alteration or repair by other than BJM Pumps, LLC (or designated service facility) voids this warranty.

BJM Pumps, LLC assumes no liability for damages, losses, inconveniences, direct, or consequential, any kind in respect to the use or operation of the pumps or any equipment or accessory used in connection herewith.

This warranty encompasses the entire understanding between the purchaser and BJM Pumps, LLC and no other person is authorized to extend or alter the terms of the warranty. This warranty is effective only when the warranty certificate card is properly completed and returned to BJM Pumps, LLC at the time of purchase.

**KEEP FOR YOUR RECORDS**

Date Purchased: ____________________________________________

Model: _____________________ Serial No.: _____________________

Dealer Name: ______________________________________________

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