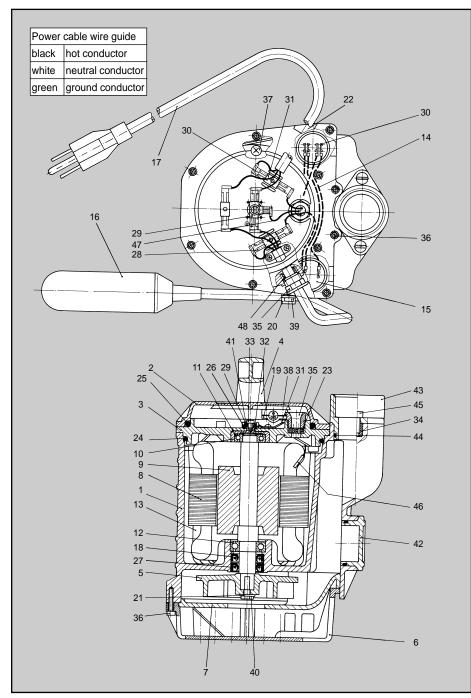
Service Manual for GF 32-9, IGF 32-9 and TIGF 32-9



PERFECTA PUMP[®] Electrical Submersible Pump



Parts list for the PERFECTA pump

Pos.	Part no.	Description
2	099-109	Top cover (no level)
2	099-103	Top cover (with level)
3	099-003	Motor housing cover
4	099-068	Handle
5	099-079	Impeller
6	099-007	Strainer
7	099-015	Suction cover plate
9	099-022	Rotor (GF 32-9)
9	099-022T	Rotor (TIGF 32-9NL)
9	099-098	Rotor (IGF 32-9)
11	099-036	Ball bearing (upper)
12	099-037	Ball bearing (lower)

Pos.	Part no.	Description
13	099-038	Oil Tellus T-68
		IMPORTANT - replace-
		ment oil must be same
		or equal as not to dama-
		ge NORYL material.
15	099-151	Run Capacitor
16	100-032	Float switch
17	099-104	Power cable
17	099-104T	Power cable
		(TIGF 32-9NL)
18	099-062	Oil seal ring 15 x 30 x 7,
		Viton
19	099-031	Cable clamp
20	099-030	Cable clamp for float
		switch

Pos.	Part no.	Description			
21	099-084	lock washer 6.4			
22	099-047	Cable grommet for			
		power cord			
22	099-047T	Cable grommet for			
		power cord			
		(TIGF 32-9NL)			
23	099-016	Sealing ring 14 x 5.5			
24	099-027	O-ring 125 x 5			
25	099-028	O-ring 105 x 5			
26	099-029	O-ring 6 x 2			
27	099-060	Oil seal ring $15 \times 30 \times 7$,			
21	000 000	Perbunan			
27	099-062	Oil seal ring 15 x 30 x 7,			
21	033-002	Viton			
28	099-086	Insulation cap			
29	099-048	Terminal, 3-prong			
30	099-049	Terminal plug			
31	099-061	Terminal, 2-prong			
32	099-050	Washer 4.0			
33	099-051	Screw 4 x 6			
35	099-025	Cable entry			
36	099-054	Screw 4.2 x 22			
36	099-054T	Screw 4.2 x 22			
		(TIGF 32-9NL)			
37	099-055	Screw 4.2 x 60/50			
38	099-056	Screw 2.9 x 8			
39	099-057	Screw 2.9 x 12			
40	099-058	Screw 6 x 12			
40	099-058T	Screw 6 x 12			
40	000 0001	(TIGF 32-9NL)			
41	099-053	Washer 4.0			
42	099-066	Discharge cap			
43	099-067	1 1/4" NPT discharge			
43	099-007	female flange			
44	099-071	O-ring 35 x 2.5			
45	099-082	Screw 6 x 12			
45 45	099-082b	Self tapping screw			
43 47	099-0320	Terminal wire			
48	099-039	Cable grommet			
40	099-070	for float switch			
	099-030T				
	000 0001	(TIGF 32-9NL ONLY)			
		· · · · · · · · · · · · · · · · · · ·			
float s	witch wire gu	ide			

float switch wire guide				
blue	hot conductor			
brown	neutral conductor			
yellow/green	ground conductor			

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:

Tool needed

Phillips screwdrivers (#1 and #2) vice grip, 10 mm wrench, ballbearing puller, and 17 mm wrench.

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.

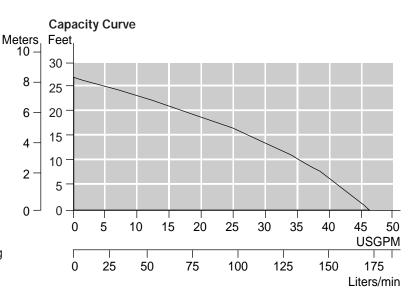
Inspection of pump bottom parts.

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.

> WEB ADDRESSES: http://www.bjmcorp.com http://www.bjmpumps.com http://www.alltestpro.com



Technical data

GF 32-9 Pump Material:

Seal System: Motor Voltage: Max. Power Consumption: Motor horsepower: Running amps: Max. Submersion Depth:

Overall Dimensions: Height Including Handle: Weight: Power Cord: Level Regulator: Oilfilled Motor: Thermal Breaker:

IGF 32-9 Pump Material:

Noryl GTX 830, 316 SS Shaft & Hardware 2 viton seals All other components are the same as for GF 32-9. Please see above.

Noryl GTX 830, 304 S.S Rotor shaft

33' (10 m) or limited to length of cable

Automatic on/off mechanical float switch std

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and 316 S.S Hardware

500 watt

4.5 amps

7.2" (185 mm)

9.8" (250 mm)

13.5 lbs (6.2 kgs)

Shell Tellus T68 or equal

22' submersible

Capacitor

0.4 HP

2 seals (1 viton, 1 perbunan)

115 V, 60 Hz, single-phase std

TIGF 32-9NL

Seal System:

Same as for IGF 32-9 except that all exposed metal parts made of titanium.

WARRANTY REGISTRATION CARD (Please Print Legibly)							
Date Purchased	Model		Serial No				
Owner's Name							
Address	City		State	Zip			
Dealer's Name							
Type of Operation:	Continuc	ous 🗌 Interm	ittent				
Application:	Mining	Const.	Industrial	Commercia	al 🗌 Rental		
Other (Explain)			Temp°:				
Pumping:	High/Silt Content		Corrosive Liquids		Clear Water		
Signature of Owner: _							
Specify:							

BJM CORP.

123 Spencer Plains Rd. • P. O. BOX 1138 Old Saybrook, CT 06475 • TEL. (860) 399-5937 WEB ADDRESS: http://www.bjmcorp.com http://www.bjmpumps.com http://www.alltestpro.com

BJM Corp. 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 Corp. (or destinated service facility) voids this warranty. BJM Corp. 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 Corp. 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 Corp. at the time of purchase.

BJM Corp.

KEEP FOR YOUR RECORDS

Date Purchased:

Model: Serial No.:

Dealer Name: _

BJM CORP.

123 Spencer Plains Rd. P. O. BOX 1138 Old Saybrook, CT 06475 TEL. (860) 399-5937 FAX (860) 399-7784

Please complete and send back to:

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