

MARCH

INSTRUCTIONS & REPAIR PARTS FOR MODELS 819, 802, 823, 851



PUMP CONSTRUCTION

March "ORBITAL" Magnetic Drive Pumps eliminate the conventional shaft seals found in most pumps. This means that there is no rotating seal to wear and allow the liquid being pumped to leak out. There are only two areas in this type construction that rotate and could wear out. One area is the motor shaft and bearings. The second area is the impeller rotating on a stationary spindle, and hence these are the only two areas where wearing can occur.

All parts can be easily serviced and replaced in the field if necessary. By removing the 4 wing nuts or 4 screws the entire pump can be disassembled. See the Repair Parts List for necessary replacement items.

PUMP MATERIALS

The plastic parts are molded out of glass filled polypropylene. The stationary impeller spindle

is type 316 stainless steel on Models 802, 819, & 823, and ceramic on Model 851. The "O" rings are Viton or Ethylene Propylene rubber. On the 3,000 rpm pumps there is a type 316 stainless or ceramic thrust washer and thrust screw. The magnet is a glazed ceramic. For materials other than standard, contact the factory.

ELECTRICAL CONNECTIONS AND RUNNING DRY

The motors are 230 volt 50/60 cycle, 1 phase A.C. Motors are all thermal overload protected and are U.L. recognized. The pumps should not be run dry for more than 60 seconds as the plastic impeller will squeal and bind onto the stationary spindle. The black and white lead should be connected to your power source. The green lead must be connected to the ground. The 819 dual voltage motor has 5 leads. Connect as per diagram on motor nameplate. This motor is an impedance protected unit.

SPECIFICATIONS

Model No.	Max. Flow* (GPM)	Max. Head (in ft.)	Inlet (O.D.)	Outlet (O.D.)	MOTOR							Max. Overall Dimensions			Pack Wt.
					HP	RPM	Volts	Cycles	Type	Watts	Amps	Ht.	Wd.	Lg.	
819	3.0	3.2	1/2"	1/2" Smooth	1/100	1550	115/230	50/60	Shaded Pole	35	.57/.29	4 1/2"	4 5/8"	9 7/8"	5 1/4
802	6.7	16.1	1/2"	1/2" Smooth	1/8	3450	230	50/60	Permanent Split Capacitor	180	.84	6 1/4"	4 1/2"	10 1/2"	11 1/2
823	6.7	16.1	5/8"									6 1/4"	5"	11"	
851	8	17.5	5/8"	1/2" Smooth	1/8	3450	230	50/60	Permanent Split Capacitor	180	.84	6 1/4"	5"	12"	11 1/2

*At one foot head. Ratings are for each pump head. For total capacity, double the GPM.



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REPAIR PARTS LIST FOR MODELS 802, 819, 823, & 851

Item	Description	Pump Model	Qty	Part Number
1a	Motor, 230 volt	802	1	802-001-10
1b	Motor, 115/230 volt	819	1	819-019-10
1c	Motor, 230 volt	823, 851	1	823-003-10
2a	Motor Bracket	802, 823, 851	2	130-066-10
2b	Motor Bracket	819	2	809-058-10
3a	Drive Magnet Assembly	802, 823	2	135-126-02
3b	Drive Magnet Assembly	819	2	125-083-01
3c	Drive Magnet Assembly	851	2	130-043-03
4	Impeller Magnet Housing W/Shaft	802	2	802-043-10
5a	Pump Housing R.H.	802	1	802-023-10
5b	Pump Housing L.H.	802	1	802-024-10
5c	Pump Housing	819	2	819-020-10
5d	Pump Housing	823	2	823-001-10
5e	Pump Housing	851	2	851-001-10
6a	Cover, Housing	819	2	819-002-10
6b	Cover, Housing	823	2	823-002-10
6c	Cover, Housing	851	2	851-002-10
7a	O" Ring, Housing (Ethylene Propylene)	802	2	750-053-10
7b	O" Ring, Housing (Viton)	819	2	125-041-10
7c	O" Ring, Housing (Viton)	823	2	135-046-10
7d	O" Ring, Housing (Viton)	851	2	851-006-10
8a	Impeller & Magnet Assembly	802, 823	2	135-043-01
8b	impeller & Magnet Assembly	819	2	819-003-01
8c	Impeller & Magnet Assembly	851	2	851-003-01
9a	Shaft, Impeller (Stainless Steel)	819	2	819-004-10
9b	Shaft, Impeller (Ceramic)	851	2	130-024-10
10a	Thrust Washer	802, 823	2	802-057-10
10b	Thrust Screw (Stainless Steel)	802, 823	2	135-042-10
10c	Thrust Washer (Teflon)	819	2	809-043-10
10d	Thrust Washer (Ceramic)	851	2	130-028-10
11a	Screws, Housing to Bracket	802	8	802-010-10
11b	Screws, Pump Housing	819	8	819-011-10
11c	Screws, Housing to Bracket	823	8	823-008-10
11d	Screws, Pump Housing	851	8	851-005-10
12	Wing Nuts, Pump Housing	802, 823	8	802-009-10
13	Motor Capacitor (for spare part only)	802, 823, 851	1	925-002-10

Prices subject to change without notice.

Contact factory for other materials/or parts not listed on standard pumps. When ordering parts specify serial number of pump and model number of pump that parts are to be used on.

LIMITED WARRANTY

March pumps are warranted to the original user against defects in workmanship and materials under normal use for a period of 12 months when used on room temperature water. See complete March limited warranty statement on card F4109 which is packed with this pump.