

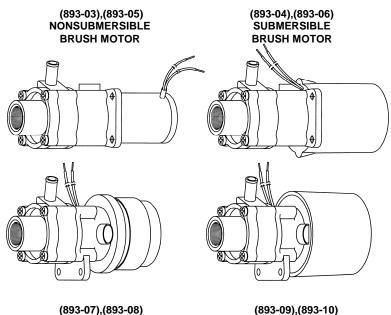
MARCH PUMPS

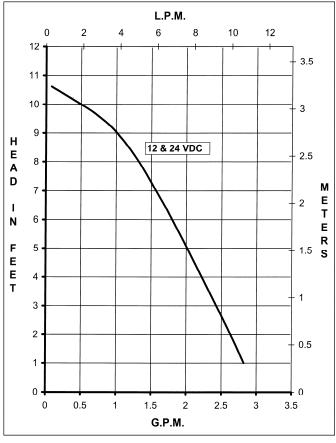
SUBMERSIBLE OR

NONSUBMERSIBLE

BRUSHLESS MOTOR

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PUMP CONSTRUCTION & SERVICING:

NONSUBMERSIBLE

BRUSHLESS MOTOR

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. All these pumps can be serviced with the use of a screwdriver. The only moving part other than the motor is the Impeller Assembly. This Impeller Assembly rotates on a stationary shaft and up against a thrust washer. This is the only part that can wear out, and may need to be replaced. See the Repair Parts List for replacement parts if necessary.

OPERATION:

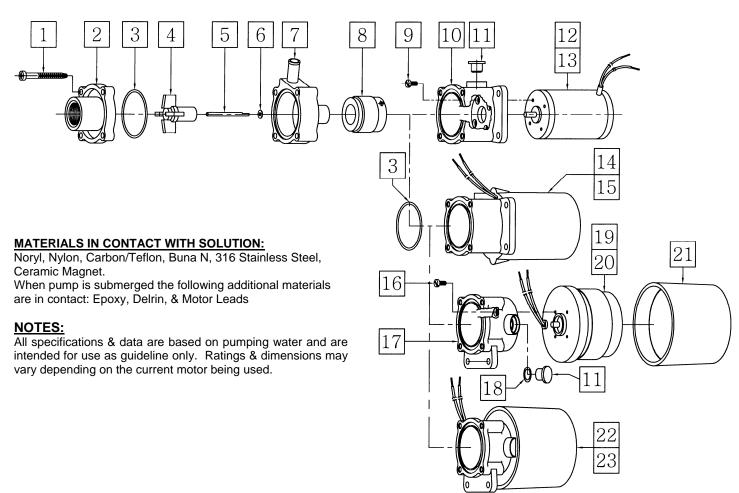
Pumps are not self priming and will not produce a suction lift and must be installed with a positive flooded suction. These pumps rely on the liquid being pumped to lubricate the Impeller Assembly spinning on the stationary shaft and, therefore, are not intended for dry running.

ELECTRICAL:

Brushless Motors must be operated within a restricted voltage range due to the electronics in the motor.

12 V.D.C. + 2 Volts, - 5 Volts 24 V.D.C. + 4 Volts, - 12 Volts The Red Lead is Positive. The Blue Lead is Negative.

SPECIFICATIONS			893-03 (12V) 893-05 (24V)		893-04 (12V) 893-06 (24V)		893-07 (12V)	893-08 (24V)	893-09 (12V) 893-10 (24V)		
Max Flow		lpm	11		11		1		11		
		gpm	2.7		2.7		2.		2.7		
Max Head		ft (psi)	3.3 10.6 (4.5)		3.3 10.6 (4.5)		10.6	_	3.3 10.6 (4.5)		
								`	ì		
Inlet Outlet			3/8" FPT 3/8" OD		3/8" FPT 3/8" OD		3/8"		3/8" FPT 3/8" OD		
Max Internal psi			50		50		5/6		50		
Pressure		bar	3.4		3.4		3.		3.4		
Max Liquid °F		190 open air		160 sub		-	oen air	190 open air 130 sub			
	perature	°C	87 op	en air	71 :	sub	87 op	en air	87 open air 54 sub		
Packed Weight kg/lbs			0.45/1.0		0.54/1.2		0.45	5/1.0	0.54/1.2		
Motor Type			DC 12V and 24V		DC 12V and 24V		D 12V ar	C nd 24V	DC 12V and 24V		
Volts			12	24	12	24	12	24	12	24	
Watts			12	12	12	12	12	12	12	12	
Amps			1	0.5	1	0.5	1	0.5	1	0.5	
Hp			1/150		1/150			1/150	1/150		
Kw			0.004	0.004	0.004			0.004	0.004		
Rpm Electrical Connection			4000 4000 leads		4000 4000 leads		4000 lea	4000	4000 4000 leads		
	II Pump ensions	Height	2.52	2.52	2.79	2.79	2.96	2.96	2.96	2.96	
	ensions (Inches)	Width Length	5.01	2.19 5.01	2.66 5.11	2.66 5.11	4.28	2.25 4.28	2.45 4.46	2.45 4.46	
	II Pump	Height	6.4	6.4	7.0	7.0	7.5	7.5	7.5	7.5	
	ensions	Width	5.5	5.5	6.7	6.7	5.7	5.7	6.2	6.2	
Jiiii	(cm)	Length	12.7	12.7	12.9	12.9	10.8	10.8	11.3	11.3	
	1- 7	g	—								



	REPAIR PARTS LIST												
					Brush				l	Brushless			
ITEM	DESCRIPTION	MATERIAL	QTY	PART#	893-03	893-04	893-05	90-£68	893-07	893-08	893-09	893-10	
1	Screws, Self-Tapping #7-19 x 1-7/16 Lg	Stainless	4	0115-0062-1000	S	S	S	S	S	S	S	S	
	Cover	Noryl	1	0893-0004-1000	S	S	S	S	S	S	S	S	
3	"O" Ring 1/16"CS x 1-5/16"ID x 1-7/16"OD	Buna N	2	0115-0018-1000	Α	S	Α	S	S	S	S	S	
	Impeller Assembly	Nylon/Ceramic Magnet	1	0115-0008-0100	S	S	S	S	S	S	S	S	
5	Shaft	316 Stainless	1	0115-0032-1000		S	S	S	S	S	S	S	
	Thrust Washer (Rear)	Carbon/Teflon	1	0115-0033-1000	S	S	S	S	S	S	S	S	
	Rear Housing	Noryl	1	0893-0003-1000	S	S	S	S	S	S	S	S	
	Drive Magnet Assembly		1	0115-0101-0100	S	S	S	S	S	S	S	S	
9	Screws, #4-40 x 1/4" Lg	Stainless	4	0893-0016-1000	S		S						
10	Motor Bracket		1	0893-0002-1000	S		S						
11	Plug		1	0125-0110-1000			S		S	S			
12	Motor (DC) 12V Brush		1	0893-0001-1000	S	S							
13	Motor (DC) 24V Brush		1	0893-0022-1000			S	S					
14	Encapsulated Assy. (DC) 12V Brush		1	0893-0019-0100	S	S							
15	Encapsulated Assy. (DC) 24V Brush		1	0893-0022-0100			S	S					
16	Screws, .118 x .5 x .236 Lg	Stainless	4	0893-0029-1000					S	S			
	Motor Bracket		1	0893-0035-0000					S	S			
18	"O" Ring 1/16"CS x 5/16"ID x 7/16"OD		1	0210-0008-1000					S	S			
	Motor (DC) 12V Brushless		1	0893-0026-1000					S		S		
20	Motor (DC) 24V Brushless		1	0893-0027-1000						S		S	
21	Motor Cap		1	0893-0036-1000					0	0			
22	Submersible Sub Assy. (DC) 12V Brushless		n/a	n/a							S	S	
23	Submersible Sub Assy. (DC) 24V Brushless		n/a	n/a							S	S	
	NOTE: Contact Factory for other materials and/	or parts not listed.	Le	gend: S = Standard	, O =	Opti	onal,	A = 9	Only	one r	eauir	ed	

LIMITED WARRANTY:

March pumps are warranted to the original user against defects in workmanship and materials under normal use with room temperature water. The brush type motors used on 03, 04, 05 & 06 have a rated brush life of 2,800 hours. They are warranted for 2,800 hours or 12 months, whichever comes first. The brushless motors used on 07, 08, 09, & 10 have a rated life of 50,000 hours and are warranted for 18 months from date of manufacture.