



MARCH PUMPS 893 BRUSHLESS

1819 PICKWICK AVE., GLENVIEW, IL 60026-1306, U.S.A
 PHONE: (847) 729-5300 - FAX: (847) 729-7062
 WWW.MARCHPUMP.COM

12 & 24 VDC **Papst Motor**
 893-07, 893-08, 893-09, 893-10

DESCRIPTION:

Series 893 are centrifugal magnetic drive pumps, eliminating the need for a shaft seal. Pumps can be serviced with a screwdriver. See the parts list for a breakdown of parts.

OPERATION:

Pumps are not self-priming, lack a suction lift, and thus require a **flooded suction**. Pumps **cannot be run dry** because the impeller requires the liquid being pumped for lubrication. Brushless motors must be operated within a restricted voltage range due to the electronics in the motor. For application assistance, contact March Pump.

ELECTRICAL:

Motors are Brushless DC.

12 Volt Motor Restricted Voltage Range (7V to 14V)
 24 Volt Motor Restricted Voltage Range (12V to 28V)

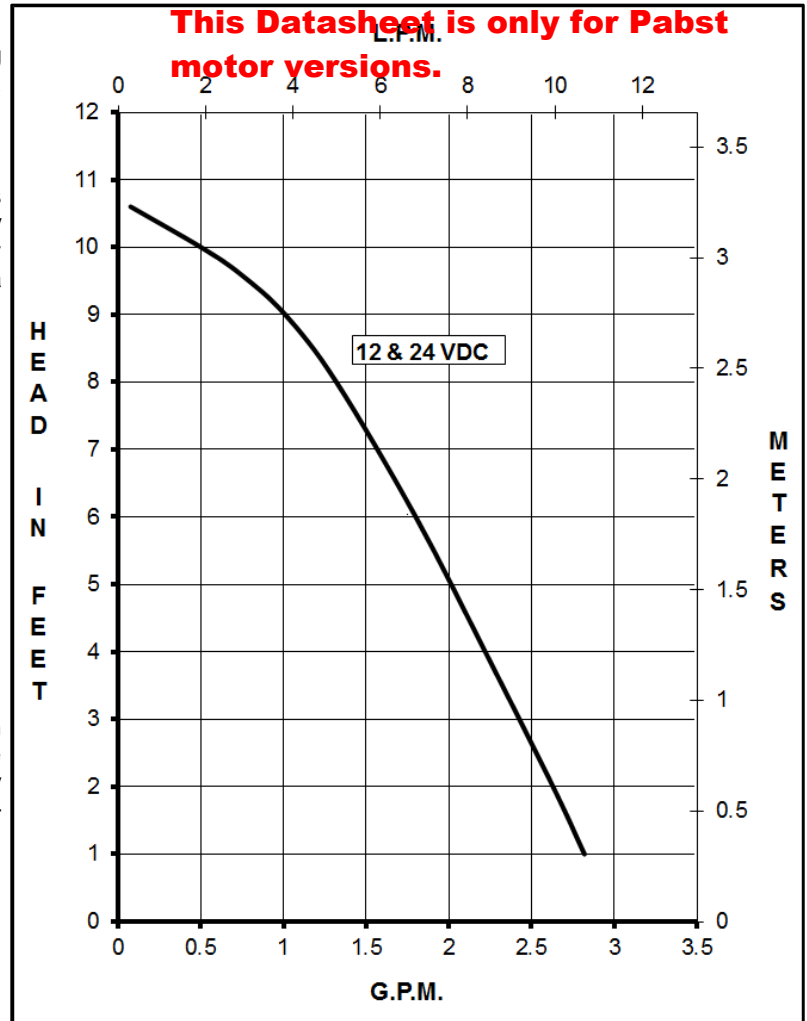
Red lead is positive, blue lead is negative.

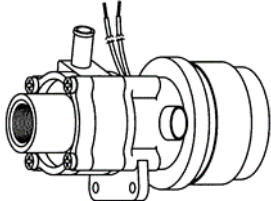
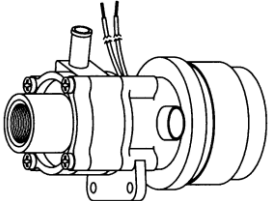
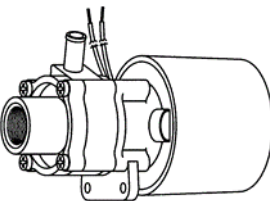
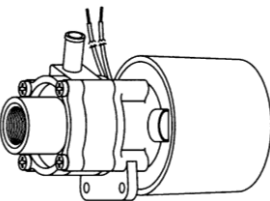
All have 16" (40 cm) motor leads.

LIMITED WARRANTY:

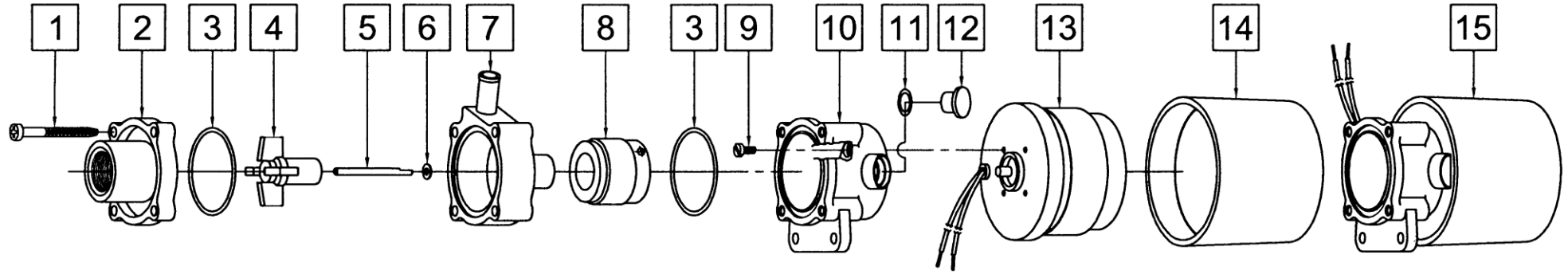
March pumps are guaranteed only against defects in workmanship or materials for a period of one year from date of manufacture pumping water. For the complete warranty and to register online go to www.marchpump.com/warranty-registration

This Datasheet is only for Pabst motor versions.



MODELS & SPECIFICATIONS	893-07				893-08				893-09				893-10			
																
	Open Air				Open Air				Submersible or Open Air				Submersible or Open Air			
Product #	0893-0030-0100				0893-0031-0100				0893-0030-0200				0893-0031-0200			
Max Flow	2.7 gpm - 11 lpm				2.7 gpm - 11 lpm				2.7 gpm - 11 lpm				2.7 gpm - 11 lpm			
Max Head	10.6 ft / 4.5 psi - 3.3 m				10.6 ft / 4.5 psi - 3.3 m				10.6 ft / 4.5 psi - 3.3 m				10.6 ft / 4.5 psi - 3.3 m			
Inlet	3/8" FPT				3/8" FPT				3/8" FPT				3/8" FPT			
Outlet	3/8" OD				3/8" OD				3/8" OD				3/8" OD			
Max Internal Pressure	50 psi - 344 kPa				50 psi - 344 kPa				50 psi - 344 kPa				50 psi - 344 kPa			
Max Liquid Temperature	190 °F open air				190 °F open air				190 °F open air, 130 °F sub				190 °F open air, 130 °F sub			
Packed Weight	1.0 lbs / 0.45 kg				1.0 lbs / 0.45 kg				1.05 lbs / 0.47 kg				1.05 lbs / 0.47 kg			
ELECTRICAL	A	W	Hp	kW	Rpm	A	W	Hp	kW	Rpm	A	W	Hp	kW	Rpm	
Restricted Range 12 V	1.0	12	1/150	0.004	4000						1.0	12	1/150	0.004	4000	
Restricted Range 24 V						0.5	12	1/150	0.004	4000						
Overall Size	Height	Width	Length	Height	Width	Length	Height	Width	Length	Height	Width	Length	Height	Width	Length	
	2.96"	2.25"	4.28"	2.96"	2.25"	4.28"	2.96"	2.45"	4.46"	2.96"	2.45"	4.46"	2.96"	2.45"	4.46"	
	7.5 cm	5.7 cm	10.8 cm	7.5 cm	5.7 cm	10.8 cm	7.5 cm	6.2 cm	11.3 cm	7.5 cm	6.2 cm	11.3 cm	7.5 cm	6.2 cm	11.3 cm	
Materials in Contact With Solution	Noryl, Nylon, Carbon/Teflon, Buna N, 316 Stainless Steel, Ceramic Magnet.															
	When pump is submerged the following additional materials are in contact: Epoxy, Delrin, & Motor Leads															
	All specifications & data are based on pumping water & are intended as a guideline only. Specifications may vary with different motors.															

PARTS LIST



#	DESCRIPTION	MATERIAL	SIZE (Inches)	QTY.	893-07	893-08	893-09	893-10
1	Screws, Self-Tapping	Stainless	#7-19 x 1-7/16 Lg.	4			0115-0062-1000	
2	Cover	Noryl	3/8 FPT Inlet	1			0893-0004-1000	
3	"O" Ring	Buna N	1/16 CS x 1-7/16 OD	2			0115-0018-1000	
4	Impeller	Nylon/Ceramic Magnet		1			0115-0008-0100	
5	Shaft	316 Stainless		1			0115-0032-1000	
6	Thrust Washer (Rear)	Carbon/Teflon		1			0115-0033-1000	
7	Rear Housing	Noryl	3/8 OD Outlet	1			0893-0003-1000	
8	Drive Magnet			1			0115-0101-0100	
9	Screws	Stainless	0.118 x 0.5 x 0.236 Lg.	4	0893-0029-1000			
10	Motor Bracket	Plastic		1	0893-0035-0000			
11	"O" Ring	Viton	1/16 CS x 7/16 OD	1	0210-0008-1000			
12	Plug	Plastic		1	0125-0110-1000			
13A	Motor (Papst) 12 VDC Brushless			1	0893-0026-1000			
13B	Motor (Papst) 24 VDC Brushless			1		0893-0027-1000		
14	Motor Cap (Option)	Plastic		1	0893-0036-1000			
15A	Submersible Assy. 12 VDC Brushless			n/a			Not Available	
15B	Submersible Assy. 24 VDC Brushless			n/a				Not Available

NOTE: Contact Factory for other materials and/or parts not listed.

0893-0037-1000 R3

This Datasheet is only for Pabst motor versions.



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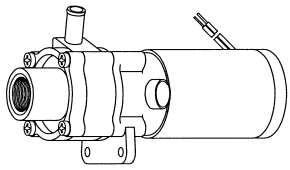
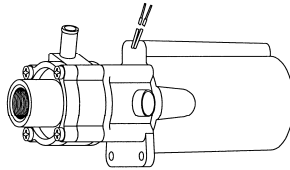
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12 VDC **Ametek Motor**
 893-07 & 893-09

DESCRIPTION: Series 893 are centrifugal magnetic drive pumps, eliminating the need for a shaft seal. Model 893-09 is restricted to submersible operation. Pumps are serviceable with a screwdriver. See the parts list for a breakdown of parts.

OPERATION:

Pumps are not self-priming, lack a suction lift, and thus require a **flooded suction**. Pumps **cannot be run dry** because the impeller requires the liquid being pumped for lubrication. Brushless motors must be operated within a restricted voltage range due to the electronics in the motor. For application assistance, contact March Pump.

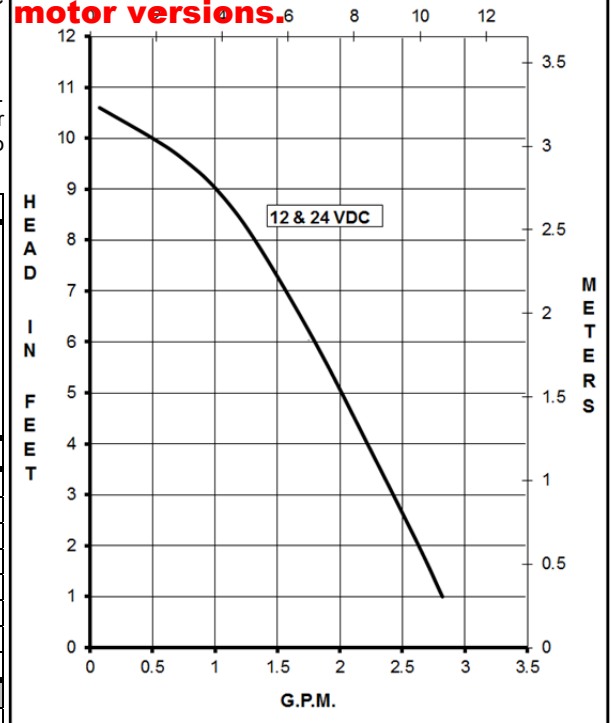
MODELS & SPECIFICATIONS	893-07					893-09					
											
	Open Air					Submersible Only					
Product #	0893-0061-0100					0893-0061-0200					
Max Flow	2.7 gpm - 11 lpm					2.7 gpm - 11 lpm					
Max Head	10.6 ft / 4.5 psi - 3.3 m					10.6 ft / 4.5 psi - 3.3 m					
Inlet	3/8" FPT					3/8" FPT					
Outlet	3/8" OD					3/8" OD					
Max Internal Pressure	50 psi - 344 kPa					50 psi - 344 kPa					
Max Liquid Temperature	190 °F open air					120 °F sub					
	87 °C open air					49 °C sub					
Packed Weight	1.0 lbs / 0.45 kg					1.2 lbs / 0.54 kg					
ELECTRICAL	A	W	Hp	kW	Rpm	A	W	Hp	kW	Rpm	
Restricted Range 12 V	1.5	12	1/150	0.004	4000	1.5	12	1/150	0.004	4000	
Overall Size	Height	Width	Length				Height	Width	Length		
	2.96"	1.85"	5.21"	2.96"	3.00"	6.00"	2.96"	3.00"	6.00"		
	7.5 cm	4.6 cm	13.2 cm	7.5 cm	7.6 cm	15.2 cm					
Materials in Contact With Solution	Noryl, Nylon, Carbon/Teflon, Buna N, 316 Stainless Steel, Ceramic Magnet.					When pump is submerged the following additional materials are in contact: Epoxy, Delrin, & Motor Leads					

All specifications & data are based on pumping water & are intended as a guideline only. Specifications may vary with different motors.

LIMITED WARRANTY:

March pumps are guaranteed only against defects in workmanship or materials for a period of one year from date of manufacture pumping water. For the complete warranty and to register online go to www.marchpump.com/warranty-registration

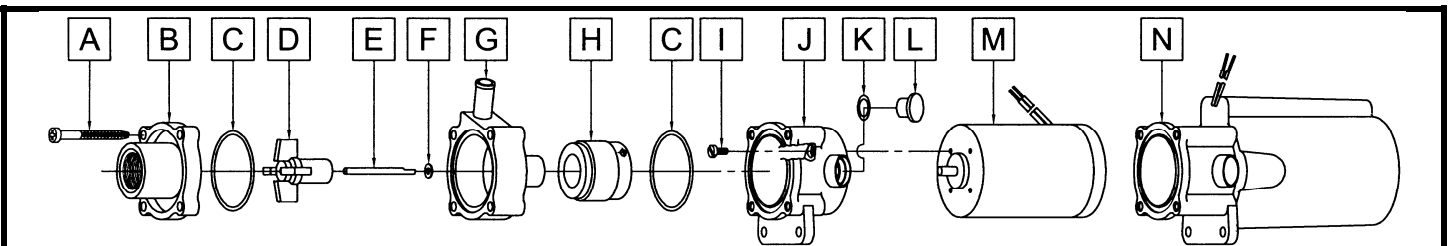
This Datasheet is only for Ametek motor versions.



ELECTRICAL:

Motors are Brushless DC. 12 Volt Motor
 Restricted Voltage Range (7V to 14V)
 Red lead is positive, blue lead is negative

893-07 have 13" (33 cm) motor leads.
 893-09 have 10" (25 cm) motor leads.



#	DESCRIPTION	MATERIAL	SIZE (Inches)	QTY.	893-07	893-09
A	Screws, Self-Tapping	Stainless	#7-19 x 1-7/16 Lg.	4	0115-0062-1000	
B	Cover	Noryl	3/8 FPT Inlet	1	0893-0004-1000	
C	"O" Ring	Buna N	1/16 CS x 1-7/16 OD	2	0115-0018-1000	
D	Impeller	Nylon/Ceramic Magnet		1	0115-0008-0100	
E	Shaft	316 Stainless		1	0115-0032-1000	
F	Thrust Washer (Rear)	Carbon/Teflon		1	0115-0033-1000	
G	Rear Housing	Noryl	3/8 OD Outlet	1	0893-0003-1000	
H	Drive Magnet			1	0115-0101-0100	
I	Screws	Stainless	0.118 x 0.5 x 0.236 Lg.	4	0893-0029-1000	
J	Motor Bracket	Plastic		1	0893-0035-1000	
K	"O" Ring	Viton	1/16 CS x 7/16 OD	1	0210-0008-1000	
L	Plug	Plastic		1	0125-0110-1000	
M	Motor (Ametek) 12 VDC Brushless			1	0893-0058-1000	
N	Submersible Assy. 12 VDC Brushless			n/a		Not Available

NOTE: Contact Factory for other materials and/or parts not listed.

0893-0037-1100 R1