



4" submersible pumps



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In order to provide the best products possible, specifications are subject to change.

The 90 GPM Stainless Steel Big-Flo 4" Submersible Pumps deliver efficient and dependable performance even in rough, aggressive water. Heads to 410 feet and capabilities to 120 GPM. Built to deliver long-term, trouble-free service. FDA compliant engineered composite and stainless steel components.

APPLICATIONS

■ **Water systems...** for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Discharge – 300 grade stainless steel with 2" NPT threads

Top Bearing – Acetal

Top Bearing Journal – 300 grade stainless steel

Diffuser Assembly – Noryl® (20% glass filled) urethane
300 grade stainless steel

Up-Thrust Washers – Phenolic

Impellers – Polycarbonate (20% glass filled)

Impeller Eye Seals – Urethane

Bowls – Noryl® (20% glass filled)

Intermediate Bearing – Acetal

Intermediate Bearing Journal – 300 grade stainless steel

Shaft – 300 grade stainless steel

Coupling – 300 grade stainless steel, 7/16" hex stock

Shell – 300 grade stainless steel

Motor Adapter – 300 grade stainless steel

Suction Screen – 300 grade stainless steel

Cable Guard – 300 grade stainless steel

Fasteners – 300 grade stainless steel

90 GPM SERIES BIG-FLO 4"

FEATURES

Discharge – Heavy duty 300 grade stainless steel construction provides smooth water passage to column pipe. Large wrench flats and rope hole

Top Bearing – Field proven, sealed and lubricated top bearing assembly keeps abrasives out, ensuring long bearing life.

Impellers – 20% glass reinforced polycarbonate to resist abrasives and provide smooth water passage for minimal friction loss.

Upthrust Bearing – Phenolic washers and stainless steel up thrust rings at each stage provide excellent wear resistant surfaces.

Diffuser Bearing – Urethane bearings at each stage provide radial protection and stability, and excellent resistance to sand damage.

Motor Bracket – 300 grade precision cast stainless steel. Incorporates an efficient hydraulic design for maximum volume and access to motor mounting nuts.

Shaft – 300 grade "treated" stainless steel pump shaft is corrosion resistant. The hex shape offers generous impeller drive surfaces.

Motor Coupling – Pressed on, sintered 300 grade stainless steel for maximum corrosion resistance provides trouble free transfer of power between motor and pump shaft.

Shell – Heavy gauge, 300 series stainless steel pump shell is durable and offers high corrosion resistance.

Intake Screen – 300 series stainless steel material offers maximum corrosion resistance and protects against damaging solids entering the pump.

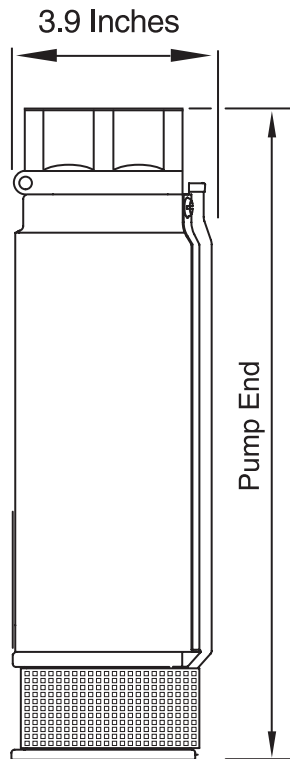
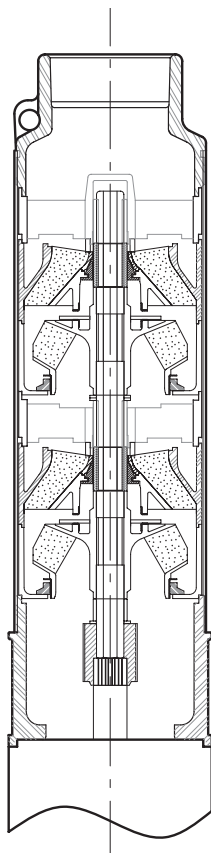


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ORDERING INFORMATION

Motor Type	HP	Stgs.	PH	Volt	Pump End			Motor		Control Box	
					Catalog Number	Length Inches	Weight Pounds	Catalog Number	Weight Pounds	Catalog Number	Weight Pounds
3-wire	2	5	1	230	L90BF20	21	15	P43B0020A2	31	SMC-CR2021	7
			3	230	L90BF20	21	15	P43B0020A3	27		
			3	460	L90BF20	21	15				
	3	7	1	230	L90BF30	26-5/8	17	P43B0030A2	40	SMC-CR3021	7
			3	230	L90BF30	26-5/8	17	P43B0030A3	32		
			3	460	L90BF30	26-5/8	17				
	5	12	1	230	L90BF50	41-1/2	19	P43B0050A2	70	SMC-CR5021	8
			3	230	L90BF50	41-1/2	19	P43B0050A3	55		
			3	460	L90BF50	41-1/2	19				
	7-1/2	19	3	230	L90BF75	61-1/2	22	P43B0075A3	70		
			3	460	L90BF75	61-1/2	22				
	10	23	3	460	L90BF100	72-3/8	35				
			3	460	L90BF100	72-3/8	35				

CROSS-SECTIONAL VIEW / OUTLINE DIMENSIONS



Model Number	Discharge
L90BF20	2" NPT
L90BF30	
L90BF50	
L90BF75	
L90BF100	

For lengths, refer to Ordering Information tables.

Dimensions are for estimating purposes only.



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90 Gallons per Minute PUMP PERFORMANCE (Capacity in Gallons Per Minute)

HP	PSI	Pumping Depth in Feet														Shut-Off Head	
		20'	40'	60'	80'	100'	125'	150'	175'	200'	250'	300'	350'	400'	Feet	PSI	
2	0	-	115	90	60										109	48	
	20	80	53														
	30	50															
	40																
	50																
	60																
3	0	-	-	113	96	75	50							153	67		
	20	108	90	69	50												
	30	87	66														
	40																
	50																
	60																
5	0	-	-	-	-	115	103	86	72	56				258	112		
	20	-	122	112	102	88	74	59									
	30	119	111	101	87	73	58										
	40	108	98	84	72	57											
	50	96	83	71	56												
	60	82	70	55													
7-1/2	0	-	-	-	-	-	125	115	107	98	78	59		402	175		
	20	-	-	-	123	116	108	100	90	79	61						
	30	-	-	121	115	107	99	91	80	71	53						
	40	-	120	114	106	98	92	81	72	61							
	50	119	113	105	97	93	82	73	62								
	60	112	104	96	94	83	74	63									
10	0	-	-	-	-	-	-	-	118	112	99	81	66	52	491	213	
	20	-	-	-	-	-	119	113	106	100	83	67	53				
	30	-	-	-	-	120	114	107	101	93	75	60					
	40	-	-	-	119	114	107	101	94	84	68	54					
	50	-	-	118	114	108	102	95	85	77	62						
	60	125	117	113	108	102	94	86	78	70	55						

PUMP PERFORMANCE - 90 GPM

