

# 90 GPM Series

Stainless Steel



**The 90 GPM Stainless Steel 4" High-Flo Submersible Pumps deliver efficient and dependable performance even in rough, aggressive water. New stack design delivers better efficiency and head per stage than previous model.**

## APPLICATIONS

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

## SPECIFICATIONS

**Discharge:** 300 grade stainless steel with 2" NPT Threads

**Top Bearing:** Nylatron®

**Top Bearing Journal:** 300 grade stainless steel

**Diffuser Assembly:** Noryl® (20% glass filled)

**Impellers:** Noryl (20% glass filled)

**Bowls:** Noryl (20% glass filled)

**Diffuser Bearing:** Nylatron

**Diffuser Bearing Journal:** 300 grade stainless steel

**Shaft:** 300 grade stainless steel, 7/16" hex stock

**Coupling:** 300 grade stainless steel

**Shell:** 300 grade stainless steel

**Motor Adapter:** 300 grade stainless steel

**Suction Screen:** 300 grade stainless steel

**Cable Guard:** 300 grade stainless steel

**Fastener:** 300 grade stainless steel

## FEATURES

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

**Top Bearing:** Self-lubricated top bearing ensures long bearing life.

**Impellers:** 20% glass-reinforced Noryl to resist abrasives and provide smooth water passage for minimal friction loss.

**Diffuser Bearing:** 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.

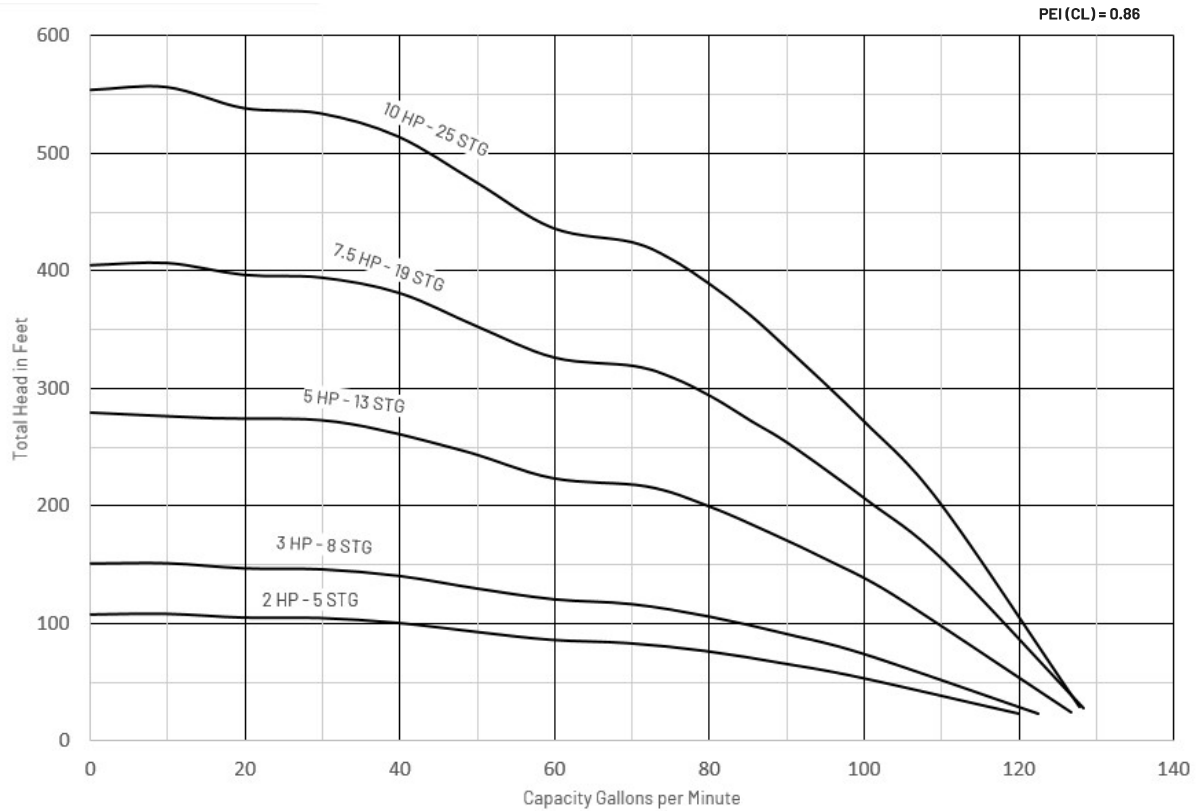
**Shell:** Heavy-gauge, 300 series stainless steel pump shell is durable and offers high corrosion resistance.

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

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## PUMP PERFORMANCE



Tested and rated in accordance with Water Systems Council Standards.

Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Check valve sold separately.

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## 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	225	250	275	300	350	375	400	425	450	475	500	FEET	PSI
2	0	-	110	94	75	39																107	46
	20	90	59																				
	30	53																					
	40																						
	50																						
	60																						
3	0	-	115	107	96	84	54															151	65
	20	104	93	80	53	30																	
	30	91	78	50																			
	40	75	47																				
	50	45																					
	60																						
5	0	-	-	119	115	110	104	97	89	80	59	46										279	120
	20	-	113	108	103	98	90	81	63	48	32												
	30	112	108	102	97	91	82	69	49	34													
	40	107	102	96	90	83	72	50	36														
	50	100	95	89	82	73	51	37															
	60	94	87	81	70	52	39																
7-1/2	0	-	-	-	121	119	115	111	106	101	96	91	84	78	61	51	43					407	176
	20	-	-	118	115	111	107	102	97	92	85	79	68	52	44								
	30	-	117	114	111	107	103	98	92	86	80	71	53	45	31								
	40	117	114	110	107	103	98	93	87	81	72	53	46	33									
	50	113	110	106	103	98	93	87	81	73	54	46	34										
	60	109	106	101	98	94	88	81	74	55	47	35											
10	0	-	-	-	-	121	118	116	113	110	107	103	100	96	92	87	83	77	69	56	50	558	240
	20	-	-	-	118	116	113	110	109	104	100	96	92	88	83	78	71	57	51	45	37		
	30	-	-	118	116	114	111	108	104	100	96	92	88	84	79	72	57	51	46	38			
	40	-	118	116	114	111	108	104	101	97	92	89	84	79	73	58	51	46	39				
	50	118	115	113	111	108	105	101	97	93	89	84	80	73	58	52	47	40					
	60	115	113	110	108	105	101	98	93	89	85	80	74	59	53	47	40						

CAUTION: DO NOT use pump at flow rates indicated by the symbol '-'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions.

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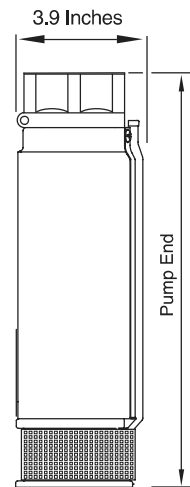
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## ORDERING INFORMATION

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	L90BF20-01	22	15	P43B0020A2	31	SMC-CR2021	7
			3	230	L90BF20-01	22	15	P43B0020A3	28		
			3	460	L90BF20-01	22	15	P43B0020A4	28		
	3	8	1	230	L90BF30-01	32-1/8	17	P43B0030A2	40	SMC-CR3021	7
			3	230	L90BF30-01	32-1/8	17	P43B0030A3	32		
			3	460	L90BF30-01	32-1/8	29	P43B0030A4	32		
	5	13	1	230	L90BF50-01	48-7/8	20	P43B0050A2	70	SMC-CR5021	8
			3	230	L90BF50-01	48-7/8	20	P43B0050A3	55		
			3	460	L90BF50-01	48-7/8	20	P43B0050A4	55		
	7-1/2	19	3	230	L90BF75-01	69-1/8	33	P43B0075A3	70		
			3	460	L90BF75-01	69-1/8	33	P43B0075A4	70		
	10	25	3	460	L90BF100-01	89-3/8	46	P43B0100A4	78		

\*Length and Weight are approximate. NOTE: Pump end and motor purchased separately. Check valve sold separately.

## OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

For lengths, refer to Ordering Information table.