

# STA-RITE® 90 GPM Series

Stainless steel High-Flo 4" submersible pumps



**The 90 GPM Stainless Steel High-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

**Upthrust 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

## 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 upthrust 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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All other brand or product names are trademarks or registered trademarks of Pentair Ltd.

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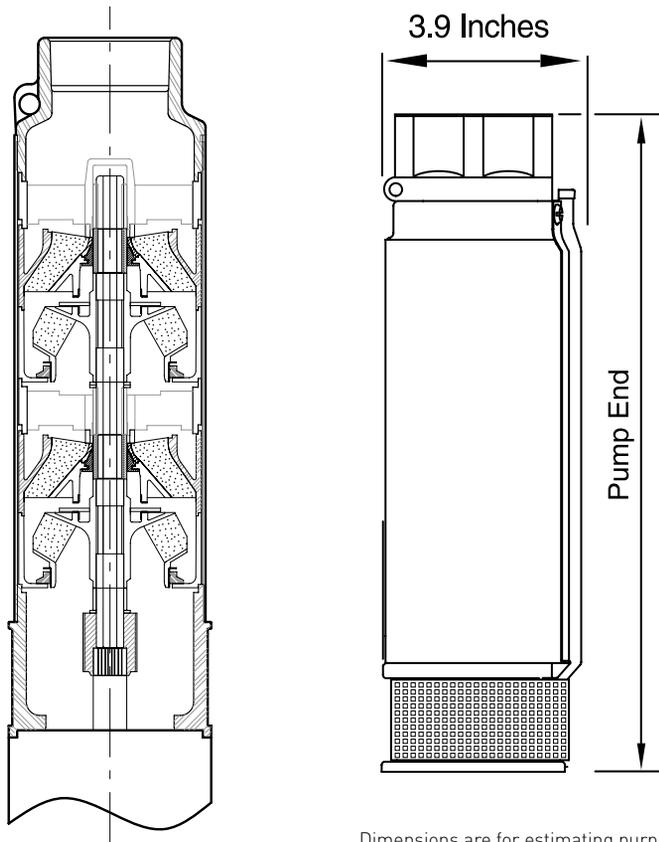
Stainless steel High-Flo 4" submersible pumps

## 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	L90HF20	21	15	P43B0020A2	31	SMC-CR2021	7
			3	230	L90HF20	21	15	P43B0020A3	31		
			3	460	L90HF20	21	15	P43B0020A4	31		
	3	7	1	230	L90HF30	26-5/8	17	P43B0030A2	40	SMC-CR3021	7
			3	230	L90HF30	26-5/8	17	P43B0030A3	32		
			3	460	L90HF30	26-5/8	17	P43B0030A4	32		
	5	12	1	230	L90HF50	41-1/2	19	P43B0050A2	70	SMC-CR5021	8
			3	230	L90HF50	41-1/2	19	P43B0050A3	55		
			3	460	L90HF50	41-1/2	19	P43B0050A4	55		
	7-1/2	17	3	230	L90HF75	56	26	P43B0075A3	70		
			3	460	L90HF75	56	26	P43B0075A4	70		
	10	23	3	460	L90HF100	72-3/8	35	P43B0100A4	78		

\*Length and Weight are approximate.

## CROSS-SECTIONAL VIEW/OUTLINE DIMENSIONS



MODEL NUMBER	DISCHARGE
L90HF20	2" NPT
L90HF30	
L90HF50	
L90HF75	
L90HF100	

For lengths, refer to Ordering Information tables.

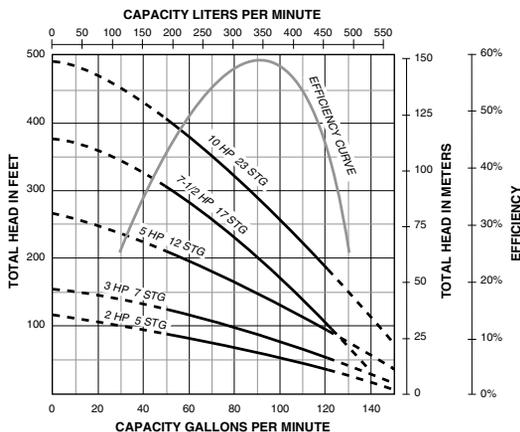
Dimensions are for estimating purposes only.

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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	-	-	-	-	124	116	108	103	92	73	50		402	175	
	20	-	-	122	116	110	101	93	87	74	52					
	30	-	121	115	109	102	94	84	79	65						
	40	120	114	108	101	94	85	76	70	54						
	50	113	107	100	93	86	76	66	60							
	60	106	99	92	85	77	67	56								
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





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Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.

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