

STA-RITE® JP Series

Signature 2000® composite 4" submersible pumps



POWERED BY
PENTEK®



Precision-engineered, corrosion-resistant Signature 2000® Composite Pumps in 10, 15, 20 and 30 GPM deliver efficient, dependable performance even in rough, aggressive water. Heads to over 650 feet and capacities to 45 GPM. Built to deliver long-term, trouble-free service.

These pumps feature the proven SignaSeal™ staging system. Floating impeller design resists sand and reduces sand locking.

APPLICATIONS

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

SPECIFICATIONS

Shell: Stainless steel

Diameter: 3-7/8"

Discharge: Fiberglass-reinforced thermoplastic

Discharge Bearing: Nylatron®

Intermediate Bearing: (On larger units) polycarbonate, nitrile rubber and stainless steel

Impellers: Acetal

Diffusers: Polycarbonate

Suction Caps: Polycarbonate with stainless steel insert

Thrust Pads: Proprietary spec.

Shaft and Coupling: Stainless steel

Intake: Fiberglass-reinforced thermoplastic

Intake Screen: Polypropylene

Cable Guard: Stainless steel

Check Valve: Acetal

Agency Listings: CSA

FEATURES

Proven Staging System: Our proven SignaSeal staging system incorporates a harder-than-sand ceramic wear surface that when incorporated with our floating impeller design, greatly reduces problems with abrasives, sand lock-up and running dry.

Discharge: Corrosion-resistant fiberglass-reinforced thermoplastic for durability in aggressive water. Large octagon wrench area for ease of installation.

Discharge Bearing: Exclusive self-lubricating Nylatron bearing resists wear from sand.

Intake: Corrosion-resistant fiberglass-reinforced thermoplastic for durability in aggressive water.

Shaft: Positive drive from 7/16" hexagonal heavy-duty 300 grade stainless steel.

Coupling: Stainless steel press fit to pump shaft. Couples to all standard NEMA motors.

Shell: Heavy-walled corrosion-resistant stainless steel. Threaded for easy servicing.

Hardware: All screws, washers and nuts are corrosion-resistant 300 grade stainless steel.

Check Valve: Durable internal poppet-type check valve.

Cable Guard: Corrosion-resistant stainless steel guard protects motor leads. Tapered ends prevent pump from catching on well.

Intake Screen: Corrosion-proof polypropylene.

Pentek® XE Series™ Motor: 2 and 3 wire NEMA standard all stainless construction water-filled motors.

Nylatron® is a registered trademark of Polymer Corp.
All other brand or product names are trademarks or registered trademarks of Pentair Ltd.

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ORDERING INFORMATION

GPM	MOTOR TYPE	HP	STGS.	PH	VOLT	ASSEMBLED PUMP			PUMP END			MOTOR		CONTROL BOX	
						CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
10**	2 WIRE	1/2	7	1	115	S10P4JP05121	22-3/4	27-1/2	L10P4CJ	12-3/4	9	P42B0005A1	19		
		1/2	7	1	230	S10P4JP05221	22-3/4	27-1/2	L10P4CJ	12-3/4	9	P42B0005A2	19		
		3/4	10	1	230	S10P4JP07221	25-3/4	30-1/2	L10P4DJ	14-1/2	10	P42B0007A2	23		
		1	13	1	230	S10P4JP10221	28-3/4	34-1/2	L10P4EJ	16	10-3/4	P42B0010A2	25		
		1-1/2	17	1	230	S10P4JP15221	34-3/4	41-1/2	L10P4FJ	19-3/4	12-1/2	P42B0015A2	29		
	3 WIRE	1/2	7	1	115	S10P4JP05131	22-3/4	27-1/2	L10P4CJ	12-3/4	9	P43B0005A1	19	SMC-IR0511	4
		1/2	7	1	230	S10P4JP05231	22-3/4	27-1/2	L10P4CJ	12-3/4	9	P43B0005A2	18	SMC-CR0521	4
		3/4	10	1	230	S10P4JP07231	25-3/4	30-1/2	L10P4DJ	14-1/2	10	P43B0007A2	21	SMC-CR0721	4
		1	13	1	230	S10P4JP10231	28-3/4	34-1/2	L10P4EJ	16-1/4	10-3/4	P43B0010A2	23	SMC-CR1021	4
		1	13	3	230				L10P4EJ	15-1/2	10-1/4	P43B0010A3	23		
		1	13	3	460				L10P4EJ	15-1/2	10-1/4	P43B0010A4	23		
		1-1/2	17	1	230	S10P4JP15231	33-1/2	41-1/2	L10P4FJ	19-3/4	12-1/2	P43B0015A2	27	SMC-CR1521	7
		1-1/2	17	3	230				L10P4FJ	19-3/4	12-1/2	P43B0015A3	23		
		1-1/2	17	3	460				L10P4FJ	19-3/4	12-1/2	P43B0015A4	23		
15**	2 WIRE	1/2	5	1	115	S15P4JP05121	22-1/4	27	L15P4CJ	12-1/4	9	P42B0005A1	19		
		1/2	5	1	230	S15P4JP05221	22-1/4	27	L15P4CJ	12-1/4	9	P42B0005A2	19		
		3/4	7	1	230	S15P4JP07221	25-3/4	31	L15P4DJ	14-1/2	10	P42B0007A2	23		
		1	9	1	230	S15P4JP10221	29-1/4	35	L15P4EJ	16-3/4	11	P42B0010A2	25		
		1-1/2	12	1	230	S15P4JP15221	35-1/4	43	L15P4FJ	20-1/4	13	P42B0015A2	29		
	3 WIRE	1/2	5	1	115	S15P4JP05131	22-1/4	27	L15P4CJ	12-1/4	9	P43B0005A1	19	SMC-IR0511	4
		1/2	5	1	230	S15P4JP05231	22-1/4	27	L15P4CJ	12-1/4	9	P43B0005A2	18	SMC-CR0521	4
		3/4	7	1	230	S15P4JP07231	25-3/4	31	L15P4DJ	14-1/2	10	P43B0007A2	21	SMC-CR0721	4
		1	9	1	230	S15P4JP10231	29-1/4	35	L15P4EJ	16-3/4	11	P43B0010A2	23	SMC-CR1021	4
		1	9	3	230				L15P4EJ	15-1/2	10-1/4	P43B0010A3	23		
		1	9	3	460				L15P4EJ	15-1/2	10-1/4	P43B0010A4	23		
		1-1/2	12	1	230	S15P4JP15231	33-3/4	41	L15P4FJ	20-1/4	13	P43B0015A2	27	SMC-CR1521	7
		1-1/2	12	3	230				L15P4FJ	20-1/4	13	P43B0015A3	23		
		1-1/2	12	3	460				L15P4FJ	20-1/4	13	P43B0015A4	23		
20**	2 WIRE	3/4	5	1	230	S20P4JP07221	23-3/4	30	L20P4DJ	12-1/2	8-1/2	P42B0007A2	23		
		1	7	1	230	S20P4JP10221	27-1/4	34	L20P4EJ	14-3/4	9-3/4	P42B0010A2	25		
		1-1/2	9	1	230	S20P4JP15221	32	39	L20P4FJ	16-3/4	10-3/4	P42B0015A2	29		
	3 WIRE	3/4	5	1	230	S20P4JP07231	23-3/4	30	L20P4DJ	12-1/2	8-1/2	P43B0007A2	21	SMC-CR0721	4
		1	7	1	230	S20P4JP10231	27-1/4	34	L20P4EJ	14-3/4	9-3/4	P43B0010A2	23	SMC-CR1021	4
		1	7	3	230				L20P4EJ	15-1/2	10-1/4	P43B0010A3	23		
		1	7	3	460				L20P4EJ	15-1/2	10-1/4	P43B0010A4	23		
		1-1/2	9	1	230	S20P4JP15231	30-1/2	39	L20P4FJ	16-3/4	10-3/4	P43B0015A2	27	SMC-CR1521	7
		1-1/2	9	3	230				L20P4FJ	16-3/4	10-3/4	P43B0015A3	23		
		1-1/2	9	3	460				L20P4FJ	16-3/4	10-3/4	P43B0015A4	23		
		2	12	1	230				L20P4GJ	20-1/4	12-1/2	P43B0020A2	31	SMC-CR2021	7
		2	12	3	230				L20P4GJ	20-1/4	12-1/2	P43B0020A3	23		
		2	12	3	460				L20P4GJ	20-1/4	12-1/2	P43B0020A4	23		
		30**	2 WIRE	1	5	1	230	S30P4JP10221	26-1/2	35	L30P4EJ	14	10	P42B0010A2	25
1-1/2	6			1	230	S30P4JP15221	30-1/2	39	L30P4FJ	15-1/4	11	P42B0015A2	29		
3 WIRE	1		5	1	230	S30P4JP10231	26-1/2	35	L30P4EJ	14	10	P43B0010A2	23	SMC-CR1021	4
	1		5	3	230				L30P4EJ	15-1/2	10-1/4	P43B0010A3	23		
	1		5	3	460				L30P4EJ	15-1/2	10-1/4	P43B0010A4	23		
	1-1/2		6	1	230	S30P4JP15231	29	39	L30P4FJ	15-1/4	11	P43B0015A2	27	SMC-CR1521	7
	1-1/2		6	3	230				L30P4FJ	15-1/4	11	P43B0015A3	23		
	1-1/2		6	3	460				L30P4FJ	15-1/4	11	P43B0015A4	23		
	2		8	1	230				L30P4GJ	18-1/4	12	P43B0020A2	31	SMC-CR2021	7
	2		8	3	230				L30P4GJ	18-1/4	12	P43B0020A3	23		
	2		8	3	460				L30P4GJ	18-1/4	12	P43B0020A4	23		

*Length and Weight are approximate.

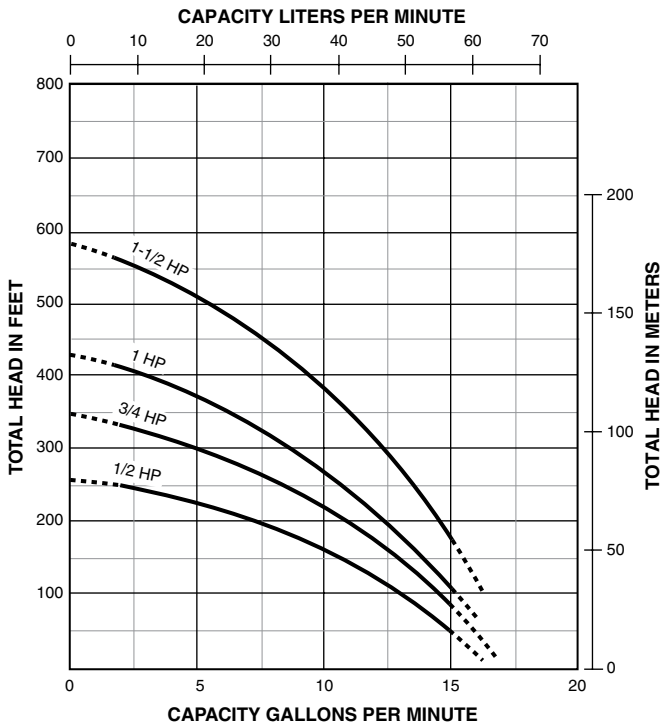
**For 10 GPM, 15 GPM, 20 GPM and 30 GPM discharge is 1-1/4" NPT.

NOTE: On 2 HP and larger pumps – Motor, Control Box or Magnetic Starter must be ordered separately.

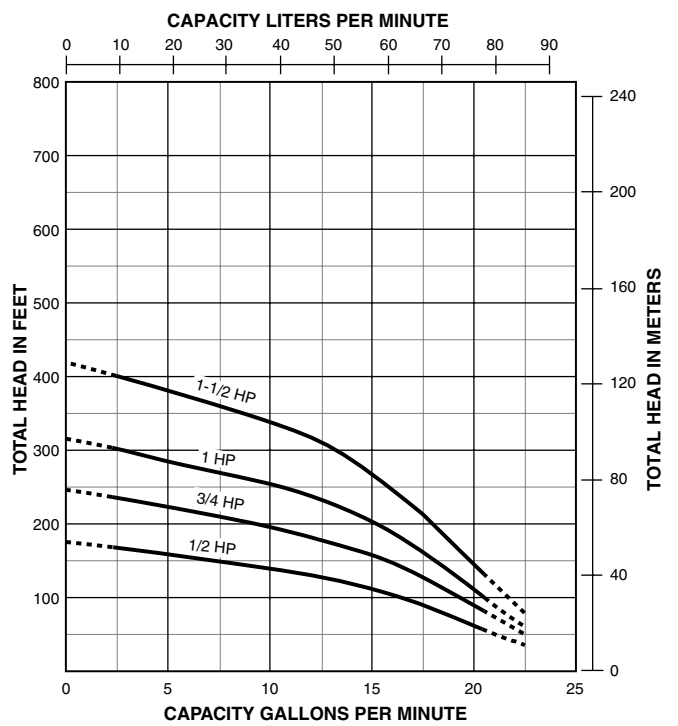
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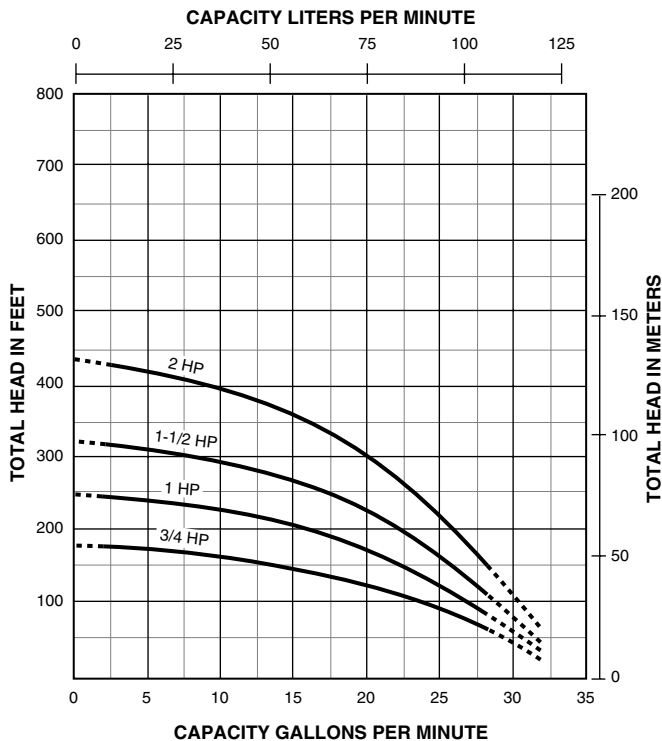
PUMP PERFORMANCE: 10 GPM



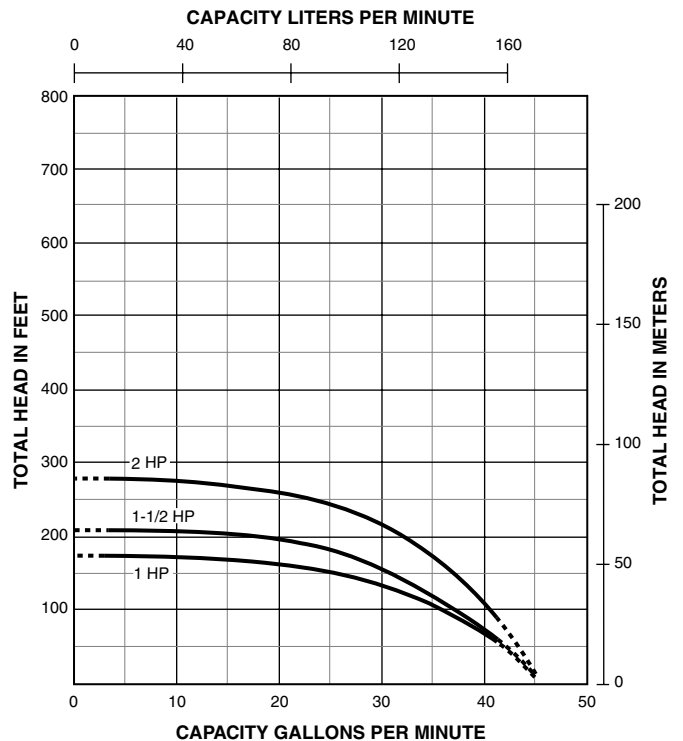
PUMP PERFORMANCE: 15 GPM



PUMP PERFORMANCE: 20 GPM



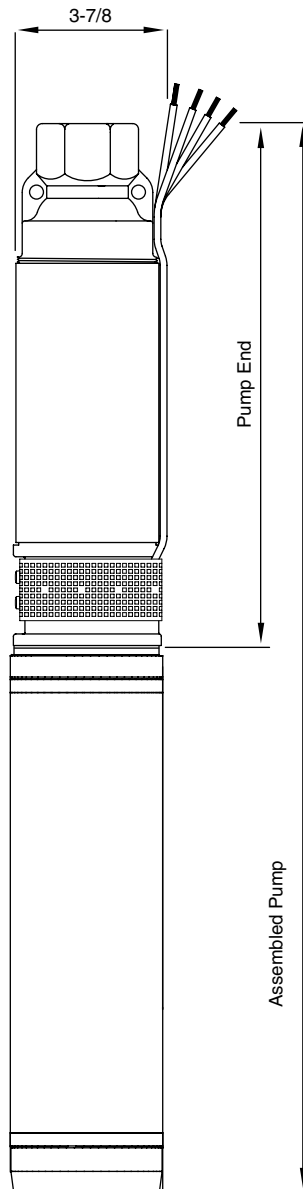
PUMP PERFORMANCE: 30 GPM



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OUTLINE DIMENSIONS



DISCHARGE

10 GPM	1-1/4" NPT
15 GPM	1-1/4" NPT
20 GPM	1-1/4" NPT
30 GPM	1-1/4" NPT

For lengths, refer to Ordering Information tables.
Dimensions (in inches) are for estimating purposes only.

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10 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	450	500	550	600	FEET	PSI																	
1/2	0	—	—	14.1	13.5	12.8	12.0	10.8	9.5	7.4	4.7								255	110																	
	20	14.0	13.3	12.7	12.0	11.0	9.6	7.8	5.2	1.4																											
	30	13.2	12.6	11.8	10.9	9.8	8.0	5.5	1.7																												
	40	12.4	11.7	10.8	9.7	8.2	8.8	2.0																													
	50	11.5	10.5	9.4	7.8	5.8	2.2																														
	60	10.4	9.2	7.5	5.4	2.8																															
3/4	0	—	—	—	14.8	14.4	13.8	13.0	12.0	11.0	8.4	4.7							340	147																	
	20	—	14.7	14.3	13.7	13.0	12.2	11.2	9.9	8.6	5.0																										
	30	14.4	14.2	13.7	13.0	12.3	11.2	10.0	8.8	7.2	3.0																										
	40	14.2	13.5	12.9	12.1	11.3	10.2	8.9	7.4	5.3																											
	50	13.4	12.7	12.0	11.0	10.2	8.9	7.4	5.5	3.2																											
	60	12.6	11.9	11.0	10.0	9.1	7.5	5.7	4.4	1.4																											
1	0	—	—	—	—	14.9	14.4	13.8	13.3	12.8	11.5	10.1	8.2	5.8	2.1				467	202																	
	20	—	—	14.7	14.4	14.0	13.4	12.9	12.3	11.7	10.2	8.3	6.0	2.6																							
	30	—	14.7	14.4	13.8	13.4	12.9	12.3	11.7	11.0	9.4	7.4	4.6																								
	40	14.6	14.2	13.8	13.3	13.0	12.5	11.8	11.1	10.3	8.5	6.2	3.0																								
	50	14.1	13.7	13.3	12.9	12.4	11.8	11.1	10.2	9.5	7.4	4.8																									
	60	13.7	13.2	12.8	12.4	11.9	11.2	10.3	9.5	8.7	6.3	3.2																									
1-1/2	0	—	—	—	—	—	—	14.7	14.4	14.0	13.2	12.2	11.2	10.1	8.6	7.1	5.2	2.5	636	275																	
	20	—	—	—	—	14.8	14.4	14.0	13.6	13.2	12.4	11.3	10.2	8.7	7.3	5.3	2.8																				
	30	—	—	—	14.7	14.4	14.0	13.6	13.2	12.8	11.9	10.7	9.6	8.1	6.4	4.4																					
	40	—	15.0	14.7	14.4	14.1	13.7	13.3	12.8	12.4	11.4	10.2	8.9	7.3	5.5	3.0																					
	50	14.9	14.6	14.3	14.0	13.6	13.2	12.8	12.4	12.0	10.8	9.7	8.2	6.5	4.5																						
	60	14.5	14.3	14.0	13.6	13.3	12.8	12.4	12.0	11.5	10.2	9.0	7.5	5.6	3.3																						

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. Tested and rated in accordance with Water Systems Council Standards.

NOTE: 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.

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15 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	450	500	FEET	PSI
1/2	0	—	21.5	20.0	18.7	16.9	13.1	7.4									175	76
	20	19.7	18.3	16.3	13.0	8.8												
	30	18.0	15.6	12.4	7.9	2.0												
	40	15.2	11.9	7.0														
	50	11.2	5.8															
	60	4.8																
3/4	0	—	—	21.2	20.2	19.3	17.8	16.0	13.2	9.6							245	106
	20	20.9	19.9	19.0	17.7	16.4	13.7	10.0	4.9									
	30	19.8	18.8	17.6	16.1	14.0	10.7	5.5										
	40	18.6	17.5	15.9	13.5	10.9	6.0											
	50	17.2	15.4	13.1	10.0	6.4												
	60	15.0	12.7	9.7	5.5	1.8												
1	0	—	—	—	—	20.4	19.4	18.4	17.2	15.5	10.3	2.7					318	138
	20	—	20.9	20.2	19.3	18.7	17.5	15.8	13.4	10.9	3.2							
	30	20.8	20.0	19.1	18.5	17.6	16.0	13.7	11.1	7.5								
	40	19.8	19.0	18.3	17.4	16.2	13.9	11.3	8.1	3.7								
	50	18.9	18.2	17.1	15.8	14.0	11.4	8.2	4.0									
	60	18.0	17.0	15.6	13.7	11.7	8.4	4.4										
1-1/2	0	—	—	—	—	—	20.5	19.9	19.3	18.4	16.4	13.1	8.3	2.8			420	182
	20	—	—	21.2	20.5	20.0	19.3	18.6	17.6	16.5	13.5	9.1	3.2					
	30	—	21.1	20.3	19.9	19.3	18.7	17.7	16.6	15.4	11.7	6.3						
	40	21.0	20.2	19.8	19.2	18.7	17.9	16.7	15.5	13.7	9.4	3.6						
	50	20.2	19.7	19.2	18.6	18.0	16.8	15.6	13.8	11.9	6.7							
	60	19.6	19.0	18.5	17.7	16.9	15.7	13.9	12.0	9.7	3.8							

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.

Tested and rated in accordance with Water Systems Council Standards.

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20 GALLONS PER MINUTE		PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)														SHUT-OFF HEAD	
HP	PSI	PUMPING DEPTH IN FEET														FEET	PSI
		20	40	60	80	100	125	150	175	200	250	300	350	400	450		
3/4	0	—	—	—	26.9	23.5	19.0	13.7								180	78
	20	—	25.8	22.5	18.5	14.5	3.4										
	30	25.2	22.0	18.3	13.9	4.5											
	40	21.3	17.6	13.0	3.0												
	50	17.2	11.4														
	60	10.2															
1	0	—	—	—	—	—	25.3	22.4	18.8	15.5					251	109	
	20	—	—	—	25.1	22.8	19.5	16.1	10.1								
	30	—	—	24.9	22.5	19.8	16.5	10.6									
	40	27.0	24.5	22.0	19.4	16.8	11.6	2.6									
	50	24.2	21.5	19.0	16.3	12.5	3.3										
	60	21.3	18.6	16.0	11.1	3.7											
1-1/2	0	—	—	—	—	—	—	26.4	24.0	21.6	16.4	5.4			323	140	
	20	—	—	—	—	26.8	24.4	22.0	19.5	16.8	6.8						
	30	—	—	—	26.5	24.7	22.2	19.6	17.1	13.9							
	40	—	—	26.2	24.3	22.3	19.8	17.3	14.2	8.0							
	50	—	26.0	24.1	22.1	20.0	17.5	14.5	8.3								
	60	25.6	23.9	21.9	19.8	17.5	14.8	9.1									
2	0	—	—	—	—	—	—	—	27.3	26.0	23.2	20.2	16.2	8.5	435	188	
	20	—	—	—	—	—	—	26.1	24.9	23.4	20.6	16.7	9.5				
	30	—	—	—	—	—	26.2	25.0	23.5	22.1	19.1	13.8	4.8				
	40	—	—	—	—	26.4	25.1	23.7	22.2	20.8	17.2	10.1					
	50	—	—	27.2	26.1	25.1	23.8	22.3	20.9	19.3	14.0	5.7					
	60	—	27.1	26.0	25.0	23.9	22.4	21.0	19.4	17.3	10.8						

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. Tested and rated in accordance with Water Systems Council Standards.

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30 GALLONS PER MINUTE		PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)														SHUT-OFF HEAD	
HP	PSI	PUMPING DEPTH IN FEET														FEET	PSI
		20	40	60	80	100	125	150	175	200	250	300	350	400	450		
1	0	—	—	40.9	39.1	36.8	32.5	26.0	8.0							175	76
	20	40.4	38.8	36.0	32.4	27.7	13.3										
	30	38.0	35.3	31.7	26.3	14.3											
	40	35.0	31.4	25.9	12.1												
	50	30.2	24.0	3.0													
	60	21.9															
1-1/2	0	—	—	41.9	39.9	37.5	34.1	30.9	26.9	17.0					210	91	
	20	41.2	39.1	36.5	34.0	31.5	27.8	21.5									
	30	38.9	36.1	33.8	31.0	27.9	21.8										
	40	36.0	33.5	30.8	27.7	20.2											
	50	32.9	30.1	26.8	21.5												
	60	29.5	25.9	18.1													
2	0	—	—	—	41.8	40.5	38.8	36.8	34.7	31.6	23.7				280	121	
	20	—	41.3	40.1	38.7	37.1	34.9	32.1	29.0	24.8							
	30	41.2	40.0	38.5	37.0	35.0	32.2	29.1	24.9	15.2							
	40	39.9	38.3	36.6	34.8	32.7	29.8	25.1	16.1								
	50	38.0	36.3	34.5	32.1	30.0	25.3	17.5									
	60	36.0	34.0	31.9	29.1	26.0	18.0										

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. Tested and rated in accordance with Water Systems Council Standards.

NOTE: 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.

