

# 4" SUBMERSIBLE PUMPS

1/2 HP TO 1-1/2 HP



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**NOTES:**

## INTRODUCTION

The Signature 2000® pump design has been delivering dependable performance since 1990. The floating stage design continues to handle even the most aggressive water using the SignaSeal™ system that breaks down debris and reduces locking. So what does this mean for you?

### BETTER PERFORMANCE

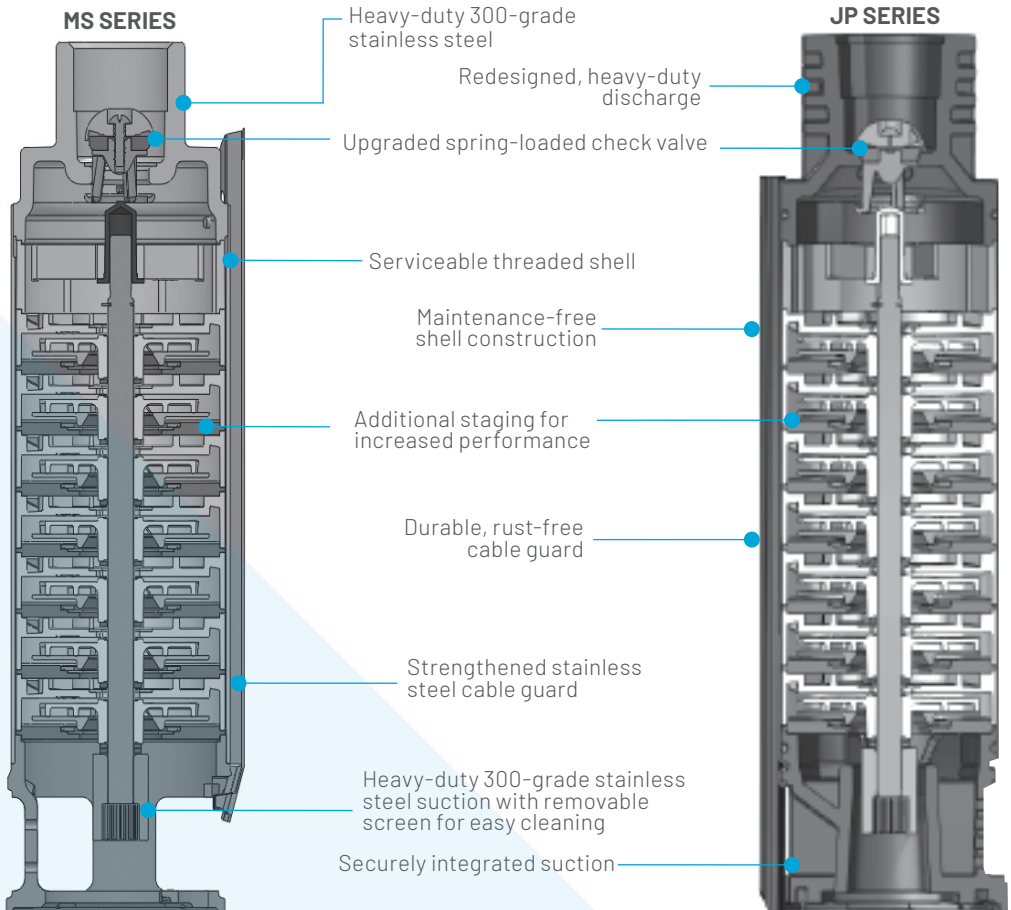
With increased staging across much of our 1/2 - 1-1/2HP pumps, enjoy even greater performance receiving more depth and/or more flow with heads to 800 feet and flows up to 27 gallons.

### KEEP AHEAD OF THE CURVE

Our increased staging also gives you more than competitive pumps at like horsepower and rated flow. Visit <http://www.pentair.com/pumps> to compare our pumps to top competitors.

### RELIABILITY

With choices between stainless steel and super tough composite discharges that both include a spring-loaded check valve, we continue to deliver the reliable pumps our customers and the market expects.



**APPLICATIONS**

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

**FEATURES FOR MS & JP SERIES**

**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 Bearing:** Self-lubricating Nylatron® bearing resists wear from sand.

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

**Coupling:** Stainless steel press fit to pump shaft, which couples to all standard NEMA motors.

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

**Check Valve:** Durable internal spring-loaded check valve.

**Pentek® XE Series Motor:** Our powerful, encapsulated submersible 2 and 3 wire

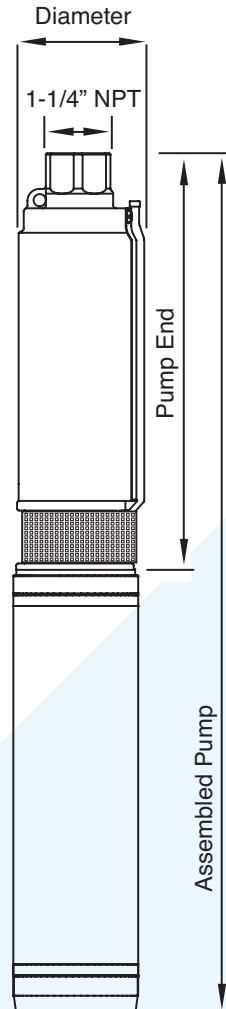
**MS SERIES SPECIFICATIONS**

- ◆ **Shell:** 300-grade, heavy-walled corrosion-resistant stainless steel.
- ◆ **Discharge:** 300-grade stainless steel.
- ◆ **Screen:** Servicable, 300-grade stainless steel.
- ◆ **Cable Guard:** 300-grade stainless steel.

**JP SERIES SPECIFICATIONS**

- ◆ **Shell:** 300-grade, heavy-walled corrosion-resistant stainless steel.
- ◆ **Discharge:** Nylon 610 (composite).
- ◆ **Screen:** Integrated, Nylon 610.
- ◆ **Cable Guard:** PVC.

DIAMETER (INCHES)	
5, 7 GPM	3-3/4"
10, 15, 20 GPM	3-7/8"



# 5 GPM SUBMERSIBLE PUMPS

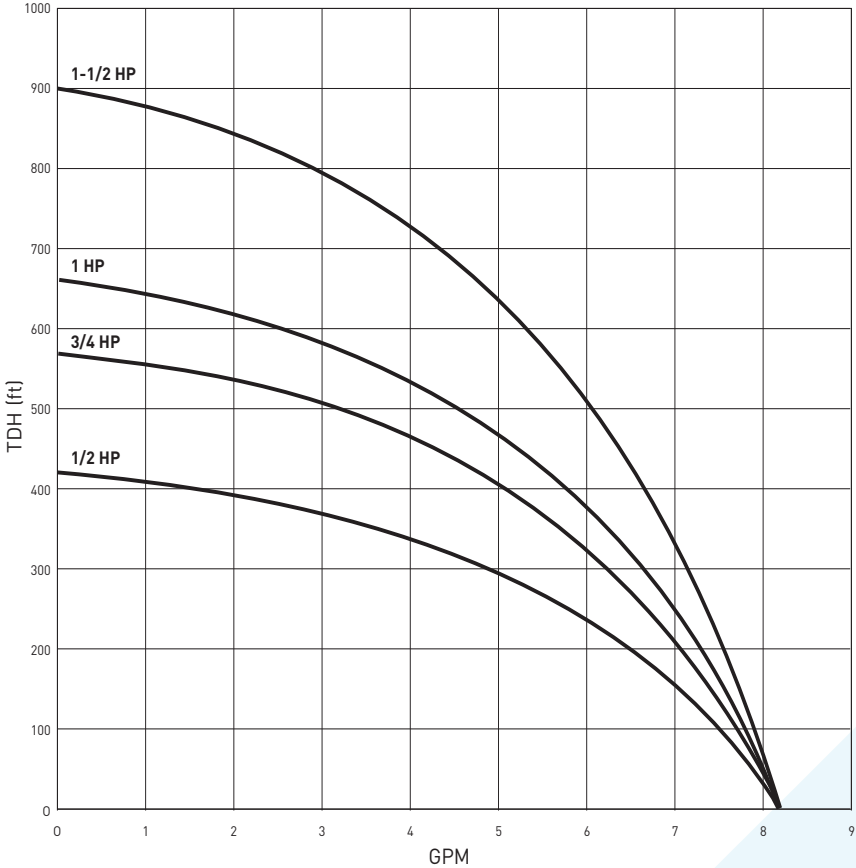
## ORDERING INFORMATION

GPM	MOTOR TYPE	HP	STAGES	PH	VOLT	ASSEMBLED PUMP		PUMP END		MOTOR		DRIVE		CONTROL BOX			
						CAT. NO.	LENGTH (IN.)	WT. (LBS.)	CAT. NO.	LENGTH (IN.)	WT. (LBS.)	CAT. NO.	WT. (LBS.)	CAT. NO.	WT. (LBS.)		
5	2 WIRE	1/2	14	1	115	B5P4MS05121	28	28	L5P4CMGS	18	12	P42B0005A1-C	19				
		1/2	14	1	230	B5P4MS05221	28	28	L5P4CMGS	18	12	P42B0005A2-C	19				
		3/4	19	1	230	B5P4MS07221	33	34	L5P4DMGS	22	15	P42B0007A2-C	23				
		1	22	1	230	B5P4MS10221	37	39	L5P4EMGS	26	17	P42B0010A2-C	25				
		1 1/2	30	1	230	B5P4MS15221	47	51	L5P4FMGS	32	21	P42B0015A2-C	29	PID20	22		
		1/2	14	1	230	B5P4MS05231	28	28	L5P4CMGS	18	12	P43B0005A2-C	18			SMC-CR0521	4
	3 WIRE	3/4	19	1	230	B5P4MS07231	33	34	L5P4CMGS	22	15	P43B0007A2-C	21	PID10		SMC-CR0721	4
		1	22	1	230	B5P4MS10231	38	39	L5P4DMGS	26	17	P43B0010A2-C	23			SMC-CR1021	4
		1 1/2	30	1	230	B5P4MS15231	46	48	L5P4EMGS	32	21	P43B0015A2-C	27	PID20		SMC-CR1521	7

### JP SERIES

5	2 WIRE	1/2	14	1	115	B5P4JP05121	28	28	SL5P4CJ	18	12	P42B0005A1-C	19				
		1/2	14	1	230	B5P4JP05221	28	28	SL5P4CJ	18	12	P42B0005A2-C	19				
		3/4	19	1	230	B5P4JP07221	33	34	SL5P4DJ	22	15	P42B0007A2-C	23				
		1	22	1	230	B5P4JP10221	37	39	SL5P4EJ	26	17	P42B0010A2-C	25				
		1/2	14	1	230	B5P4JP05231	28	28	SL5P4CJ	18	12	P43B0005A2-C	18			SMC-CR0521	4
		3/4	19	1	230	B5P4JP07231	33	34	SL5P4CJ	22	15	P43B0007A2-C	21	PID10		SMC-CR0721	4
	3 WIRE	1	22	1	230	B5P4JP10231	38	39	SL5P4DJ	26	17	P43B0010A2-C	23			SMC-CR1021	4

PUMP PERFORMANCE







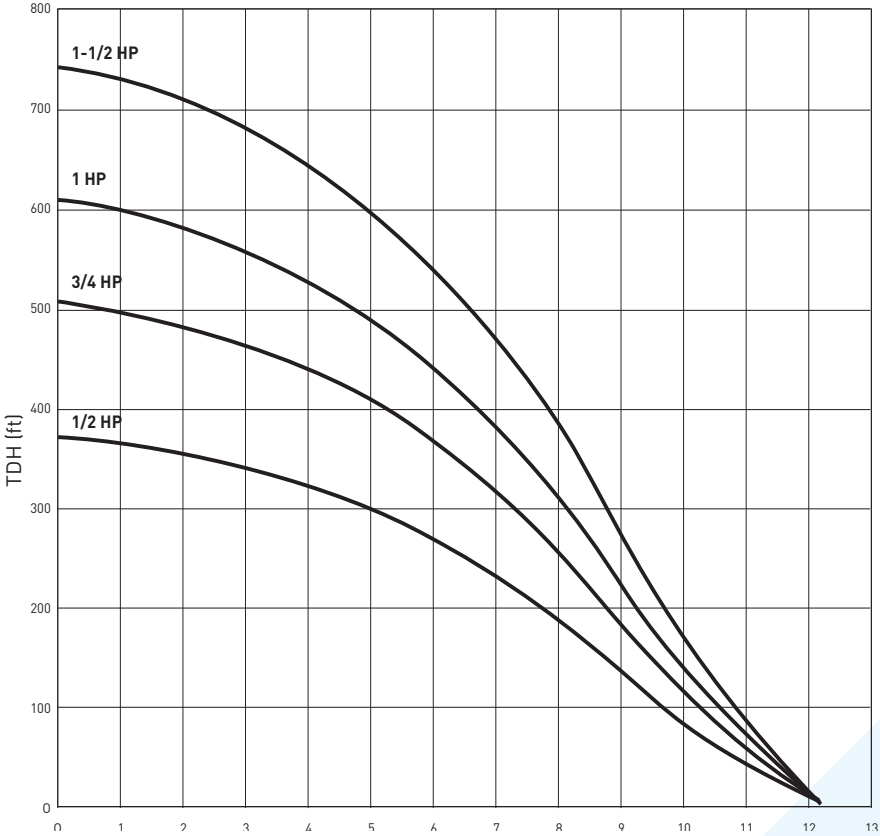
HP	PSI	PUMPING DEPTH IN FEET																SHUT-OFF HEAD																			
		0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	600	650	700	750	800	850	FEET	PSI				
1	0	-	-	-	-	-	-	-	-	-	7.5	7.3	7.1	7.0	6.8	6.6	6.4	6.3	6.1	5.9	5.7	5.1	4.5	3.8	2.8	1.2	-	-	-	-	-	-	-	-			
	20	-	-	-	-	-	-	-	7.4	7.3	7.1	6.9	6.7	6.6	6.4	6.2	6.0	5.8	5.6	5.4	5.2	4.5	3.8	2.9	1.4	-	-	-	-	-	-	-	-	-			
	30	-	-	-	-	-	7.5	7.4	7.2	7.1	6.9	6.7	6.5	6.4	6.2	6.0	5.8	5.6	5.3	5.1	4.9	4.2	3.4	2.3	-	-	-	-	-	-	-	-	-	-	-		
	40	-	-	-	-	7.5	7.4	7.2	7.0	6.9	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.3	5.1	4.8	4.6	3.9	3.0	1.6	-	-	-	-	-	-	-	-	-	-	-		
	50	-	-	-	-	7.5	7.3	7.2	7.0	6.8	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.3	5.0	4.8	4.5	4.3	3.5	2.4	-	-	-	-	-	-	-	-	-	-	-	-	
	60	-	-	-	7.5	7.3	7.2	7.0	6.8	6.6	6.5	6.3	6.1	5.9	5.7	5.5	5.2	5.0	4.8	4.5	4.2	3.9	3.1	1.7	-	-	-	-	-	-	-	-	-	-	-	-	
	70	-	-	7.4	7.3	7.1	7.0	6.8	6.6	6.4	6.2	6.1	5.9	5.6	5.4	5.2	5.0	4.7	4.5	4.2	3.9	3.6	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
	80	-	7.4	7.3	7.1	6.9	6.8	6.6	6.4	6.2	6.0	5.8	5.6	5.4	5.2	4.9	4.7	4.4	4.1	3.8	3.5	3.1	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 1/2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	7.4	7.3	7.2	7.1	6.9	6.8	6.7	6.4	6.0	5.6	5.2	4.8	4.3	3.8	3.1	2.2	-	-	-	-		
	20	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	7.4	7.3	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.0	5.7	5.3	4.8	4.3	3.8	3.2	2.3	-	-	-	-	
	30	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	7.4	7.2	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.2	5.9	5.5	5.1	4.6	4.1	3.5	2.8	1.8	-	-	-	-
	40	-	-	-	-	-	-	-	-	-	7.5	7.3	7.2	7.1	7.0	6.9	6.7	6.6	6.5	6.3	6.2	6.1	5.7	5.3	4.9	4.4	3.8	3.2	2.4	-	-	-	-	-	-	-	
	50	-	-	-	-	-	7.7	7.6	7.4	7.3	7.2	7.1	7.0	6.8	6.7	6.6	6.5	6.3	6.2	6.0	5.9	5.5	5.1	4.6	4.1	3.6	2.9	1.9	-	-	-	-	-	-	-	-	
	60	-	-	-	-	-	7.5	7.4	7.3	7.2	7.1	6.9	6.8	6.7	6.6	6.4	6.3	6.2	6.0	5.9	5.7	5.3	4.9	4.4	3.9	3.3	2.5	-	-	-	-	-	-	-	-	-	
	70	-	-	-	-	-	7.5	7.4	7.3	7.2	7.1	6.9	6.8	6.7	6.5	6.4	6.3	6.1	6.0	5.8	5.7	5.5	5.1	4.7	4.2	3.6	2.9	2.0	-	-	-	-	-	-	-	-	
	80	-	-	-	-	7.5	7.4	7.3	7.2	7.0	6.9	6.8	6.7	6.5	6.4	6.3	6.1	6.0	5.8	5.7	5.5	5.4	4.9	4.5	3.9	3.3	2.5	1.3	-	-	-	-	-	-	-	-	

# 7 GPM SUBMERSIBLE PUMPS

## ORDERING INFORMATION

GPM	MOTOR TYPE	HP	STAGES	PH	VOLT	ASSEMBLED PUMP		PUMP END		MOTOR		DRIVE		CONTROL BOX						
						CAT. NO.	LENGTH (IN.)	WT. (LBS.)	CAT. NO.	LENGTH (IN.)	WT. (LBS.)	CAT. NO.	WT. (LBS.)	CAT. NO.	WT. (LBS.)					
<b>MS SERIES</b>																				
7	2 WIRE	1/2	11	1	115	B7P4MS05121	26	27	L7P4CMGS	16	11	P42B0005A1-C	19							
		1/2	11	1	230	B7P4MS05221	26	27	L7P4CMGS	16	11	P42B0005A2-C	19							
		3/4	15	1	230	B7P4MS07221	30	32	L7P4DMGS	19	13	P42B0007A2-C	23							
		1	18	1	230	B7P4MS10221	34	37	L7P4EMGS	22	15	P42B0010A2-C	25							
		1 1/2	22	1	230	B7P4MS15221	43	47	L7P4FMGS	28	17	P42B0015A2-C	29				22			
		1/2	11	1	230	B7P4MS05231	26	27	L7P4CMGS	16	11	P43B0005A2-C	19					SMC-CR0521	4	
	3 WIRE	3/4	15	1	230	B7P4MS07231	30	32	L7P4DMGS	19	13	P43B0007A2-C	21					SMC-CR0721	4	
		1	18	1	230	B7P4MS10231	34	37	L7P4EMGS	22	15	P43B0010A2-C	23					SMC-CR1021	4	
		1 1/2	22	1	230	B7P4MS15231	42	47	L7P4FMGS	28	17	P43B0015A2-C	27					SMC-CR1521	7	
<b>JP SERIES</b>																				
7	2 WIRE	1/2	11	1	115	B7P4JP05121	26	27	SL7P4CJL	16	11	P42B0005A1-C	19							
		1/2	11	1	230	B7P4JP05221	26	27	SL7P4CJL	16	11	P42B0005A2-C	19							
		3/4	15	1	230	B7P4JP07221	30	32	SL7P4DJL	19	13	P42B0007A2-C	23							
		1	18	1	230	B7P4JP10221	34	37	SL7P4EJL	22	15	P42B0010A2-C	25							
		1 1/2	22	1	230	B7P4JP15221	43	47	SL7P4FJL	28	17	P42B0015A2-C	29						22	
		1/2	11	1	230	B7P4JP05231	26	27	SL7P4CJL	16	11	P43B0005A2-C	19						SMC-CR0521	4
	3 WIRE	3/4	15	1	230	B7P4JP07231	30	32	SL7P4DJL	19	13	P43B0007A2-C	21						SMC-CR0721	4
		1	18	1	230	B7P4JP10231	34	37	SL7P4EJL	22	15	P43B0010A2-C	23						SMC-CR1021	4
		1 1/2	22	1	230	B7P4JP15231	42	47	SL7P4FJL	28	17	P43B0015A2-C	27						SMC-CR1521	7

PUMP PERFORMANCE



PUMP PERFORMANCE CAPACITY - 7 GALLONS PER MINUTE

HP	PSI	PUMPING DEPTH IN FEET																SHUT-OFF HEAD																			
		0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	600	650	700	FEET	PSI							
1/2	0	-	11.0	10.7	10.4	10.0	9.7	9.3	8.9	8.6	8.1	7.7	7.2	6.7	6.2	5.6	5.0	4.2	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-					
	20	10.6	10.3	9.9	9.6	9.2	8.8	8.4	8.0	7.6	7.1	6.6	6.0	5.4	4.7	3.9	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	30	10.2	9.9	9.5	9.2	8.8	8.4	7.9	7.5	7.0	6.5	5.9	5.3	4.6	3.8	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	40	9.8	9.5	9.1	8.7	8.3	7.9	7.4	6.9	6.4	5.9	5.2	4.5	3.7	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	50	9.4	9.0	8.6	8.2	7.8	7.3	6.9	6.3	5.8	5.1	4.4	3.5	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	60	9.0	8.6	8.2	7.7	7.3	6.8	6.2	5.7	5.0	4.3	3.3	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	70	8.5	8.1	7.7	7.2	6.7	6.2	5.6	4.9	4.1	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	80	8.0	7.6	7.1	6.6	6.1	5.5	4.8	4.0	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3/4	0	-	-	10.9	10.6	10.4	10.2	9.9	9.6	9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.2	6.9	6.5	6.1	5.7	5.2	3.8	-	-	-	-	-	-	-	-	-	-	-	-		
	20	10.8	10.6	10.3	10.1	9.8	9.6	9.3	9.0	8.7	8.4	8.1	7.8	7.5	7.1	6.8	6.4	6.0	5.5	5.0	4.5	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	30	10.5	10.3	10.0	9.8	9.5	9.2	9.0	8.7	8.4	8.1	7.8	7.4	7.1	6.7	6.3	5.9	5.5	5.0	4.4	3.8	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	40	10.2	10.0	9.7	9.5	9.2	8.9	8.6	8.3	8.0	7.7	7.4	7.0	6.6	6.3	5.8	5.4	4.9	4.3	3.7	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	10.0	9.7	9.4	9.2	8.9	8.6	8.3	8.0	7.7	7.3	7.0	6.6	6.2	5.8	5.3	4.8	4.2	3.6	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	9.7	9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.3	6.9	6.5	6.1	5.7	5.2	4.7	4.1	3.5	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	70	9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.2	6.8	6.5	6.1	5.6	5.2	4.6	4.0	3.3	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	9.0	8.8	8.5	8.2	7.8	7.5	7.2	6.8	6.4	6.0	5.6	5.1	4.5	3.9	3.2	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

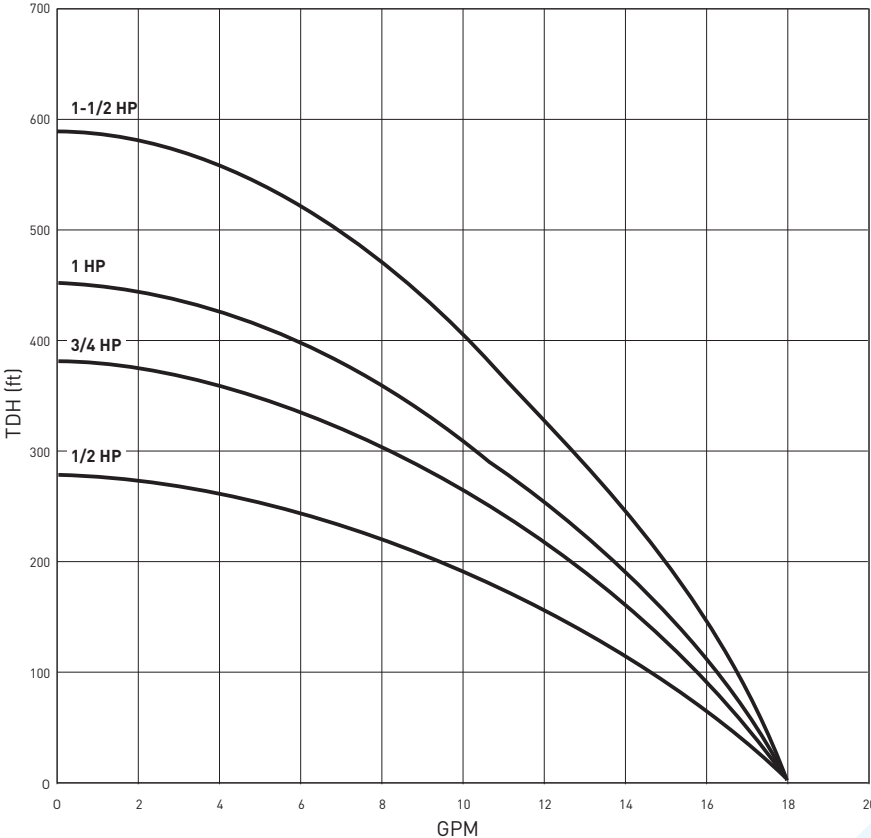
HP	PSI	PUMPING DEPTH IN FEET																SHUT-OFF HEAD																
		0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	600	650	700	FEET	PSI				
1	0	-	-	11.0	10.8	10.6	10.4	10.2	9.9	9.7	9.5	9.3	9.1	8.8	8.6	8.3	8.1	7.8	7.5	7.2	6.9	6.6	6.3	5.8	4.8	3.5	-	-	-	-	-			
	20	10.9	10.7	10.5	10.3	10.1	9.9	9.7	9.4	9.2	9.0	8.7	8.5	8.2	8.0	7.7	7.4	7.1	6.8	6.5	6.2	5.8	5.4	4.9	3.6	-	-	-	-	-	-			
	30	10.7	10.5	10.3	10.1	9.8	9.6	9.4	9.2	8.9	8.7	8.5	8.2	7.9	7.7	7.4	7.1	6.8	6.5	6.1	5.8	5.4	4.3	2.8	-	-	-	-	-	-	-	-		
	40	10.4	10.2	10.0	9.8	9.6	9.4	9.1	8.9	8.7	8.4	8.2	7.9	7.6	7.4	7.1	6.8	6.4	6.1	5.7	5.3	4.9	3.7	-	-	-	-	-	-	-	-	-	-	
	50	10.2	10.0	9.8	9.6	9.3	9.1	8.9	8.6	8.4	8.1	7.9	7.6	7.3	7.0	6.7	6.4	6.0	5.7	5.3	4.9	4.4	3.0	-	-	-	-	-	-	-	-	-	-	
	60	10.0	9.7	9.5	9.3	9.1	8.8	8.6	8.3	8.1	7.8	7.5	7.3	7.0	6.7	6.3	6.0	5.6	5.2	4.8	4.3	3.8	-	-	-	-	-	-	-	-	-	-	-	-
	70	9.7	9.5	9.3	9.0	8.8	8.6	8.3	8.0	7.8	7.5	7.2	6.9	6.6	6.3	5.9	5.6	5.2	4.7	4.3	3.7	3.1	-	-	-	-	-	-	-	-	-	-	-	
	80	9.5	9.2	9.0	8.8	8.5	8.3	8.0	7.7	7.5	7.2	6.9	6.6	6.2	5.9	5.5	5.1	4.7	4.2	3.6	3.0	2.1	-	-	-	-	-	-	-	-	-	-	-	-
	0	-	-	11.0	10.9	10.7	10.5	10.4	10.2	10.0	9.9	9.7	9.5	9.3	9.1	8.9	8.8	8.6	8.3	8.1	7.9	7.7	7.1	6.5	5.8	5.0	4.0	2.7	-	-	-	-	-	-
	20	11.0	10.8	10.7	10.5	10.3	10.2	10.0	9.8	9.6	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.6	7.4	7.2	6.5	5.8	5.0	4.1	2.8	-	-	-	-	-	-	-
30	10.8	10.6	10.5	10.3	10.1	10.0	9.8	9.6	9.4	9.2	9.1	8.9	8.7	8.5	8.3	8.0	7.8	7.6	7.4	7.1	6.9	6.2	5.5	4.6	3.5	-	-	-	-	-	-	-	-	
40	10.6	10.4	10.3	10.1	9.9	9.8	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.2	8.0	7.8	7.6	7.3	7.1	6.8	6.6	5.9	5.1	4.2	2.9	-	-	-	-	-	-	-	-	
50	10.4	10.2	10.1	9.9	9.7	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.2	8.0	7.8	7.5	7.3	7.1	6.8	6.5	6.3	5.5	4.7	3.6	2.1	-	-	-	-	-	-	-	-	-
60	10.2	10.1	9.9	9.7	9.5	9.3	9.2	9.0	8.8	8.6	8.4	8.2	7.9	7.7	7.5	7.3	7.0	6.8	6.5	6.2	5.9	5.2	4.2	3.0	-	-	-	-	-	-	-	-	-	
70	10.0	9.9	9.7	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.7	7.5	7.2	7.0	6.7	6.5	6.2	5.9	5.6	4.8	3.7	2.3	-	-	-	-	-	-	-	-	-	
80	9.8	9.6	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.6	7.4	7.2	6.9	6.7	6.4	6.1	5.9	5.5	5.2	4.3	3.1	-	-	-	-	-	-	-	-	-	-	-

# 10 GPM SUBMERSIBLE PUMPS

## ORDERING INFORMATION

GPM	MOTOR TYPE	HP	STAGES	PH	VOLT	ASSEMBLED PUMP		PUMP END		MOTOR		DRIVE	CONTROL BOX			
						CAT. NO.	LENGTH (IN.)	WT. (LBS.)	CAT. NO.	LENGTH (IN.)	WT. (LBS.)		CAT. NO.	WT. (LBS.)	CAT. NO.	WT. (LBS.)
<b>MS SERIES</b>																
10	2 WIRE	1/2	8	1	115	B10P4MS05121	23	28	L10P4CMGS	13	9	P42B0005A1-C	19			
		1/2	8	1	230	B10P4MS05221	23	28	L10P4CMGS	13	9	P42B0005A2-C	19	PID10		
		3/4	11	1	230	B10P4MS07221	26	31	L10P4DMGS	15	10	P42B0007A2-C	23			
		1	13	1	230	B10P4MS10221	29	35	L10P4EMGS	17	11	P42B0010A2-C	25			
	11/2	17	1	230	B10P4MS15221	35	42	L10P4FMGS	20	12	P42B0015A2-C	29	PID20	22		
	1/2	8	1	230	B10P4MS05231	23	28	L10P4CMGS	13	9	P43B0005A2-C	19		SMC-CR0521	4	
	3/4	11	1	230	B10P4MS07231	26	31	L10P4DMGS	15	10	P43B0007A2-C	21	PID10		SMC-CR0721	4
	1	13	1	230	B10P4MS10231	29	35	L10P4EMGS	17	11	P43B0010A2-C	23			SMC-CR1021	4
	11/2	17	1	230	B10P4MS15231	34	42	L10P4FMGS	20	12	P43B0015A2-C	27	PID20		SMC-CR1521	7
	<b>JP SERIES</b>															
10	2 WIRE	1/2	8	1	115	B10P4JP05121	23	28	SL10P4CJ	13	9	P42B0005A1-C	19			
		1/2	8	1	230	B10P4JP05221	23	28	SL10P4CJ	13	9	P42B0005A2-C	19	PID10		
		3/4	11	1	230	B10P4JP07221	26	31	SL10P4DJ	15	10	P42B0007A2-C	23			
		1	13	1	230	B10P4JP10221	29	35	SL10P4EJ	17	11	P42B0010A2-C	25			
	11/2	17	1	230	B10P4JP15221	35	42	SL10P4FJ	20	12	P42B0015A2-C	29	PID20	22		
	1/2	8	1	230	B10P4JP05231	23	28	SL10P4CJ	13	9	P43B0005A2-C	19		SMC-CR0521	4	
	3/4	11	1	230	B10P4JP07231	26	31	SL10P4DJ	15	10	P43B0007A2-C	21	PID10		SMC-CR0721	4
	1	13	1	230	B10P4JP10231	29	35	SL10P4EJ	17	11	P43B0010A2-C	23			SMC-CR1021	4
	11/2	17	1	230	B10P4JP15231	34	42	SL10P4FJ	20	12	P43B0015A2-C	27	PID20		SMC-CR1521	7

PUMP PERFORMANCE



PUMP PERFORMANCE CAPACITY - 10 GALLONS PER MINUTE

HP	PSI	PUMPING DEPTH IN FEET																SHUT-OFF HEAD													
		0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	FEET	PSI				
1/2	0	-	-	-	-	-	14.7	13.8	12.9	11.8	10.7	9.4	8.0	6.3	4.1	-	-	-	-	-	-	-	-	-	-	-	-	-			
	20	-	-	-	14.4	13.5	12.5	11.5	10.3	9.0	7.5	5.7	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	30	-	-	14.3	13.4	12.4	11.3	10.1	8.8	7.3	5.4	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	40	-	14.2	13.2	12.2	11.1	9.9	8.6	7.0	5.1	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	50	14.0	13.1	12.1	11.0	9.7	8.4	6.8	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	60	12.9	11.9	10.8	9.5	8.1	6.5	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	70	11.7	10.6	9.3	7.9	6.2	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	80	10.4	9.1	7.7	5.9	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3/4	0	-	-	-	-	-	-	-	14.6	14.0	13.3	12.6	11.8	11.0	10.1	9.2	8.2	7.0	5.6	3.9	-	-	-	-	-	-	-	-			
	20	-	-	-	-	-	14.4	13.8	13.1	12.3	11.6	10.7	9.9	8.9	7.8	6.6	5.1	3.2	-	-	-	-	-	-	-	-	-	-			
	30	-	-	-	15.0	14.3	13.7	13.0	12.2	11.5	10.6	9.7	8.7	7.6	6.4	4.9	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	
	40	-	14.9	14.2	13.6	12.9	12.1	11.3	10.5	9.6	8.6	7.5	6.2	4.6	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	50	15.4	14.8	14.1	13.5	12.7	12.0	11.2	10.3	9.4	8.4	7.3	6.0	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	14.7	14.0	13.3	12.6	11.9	11.1	10.2	9.3	8.2	7.1	5.7	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	70	13.9	13.2	12.5	11.8	10.9	10.1	9.1	8.1	6.9	5.5	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	13.1	12.4	11.6	10.8	9.9	9.0	7.9	6.7	5.3	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



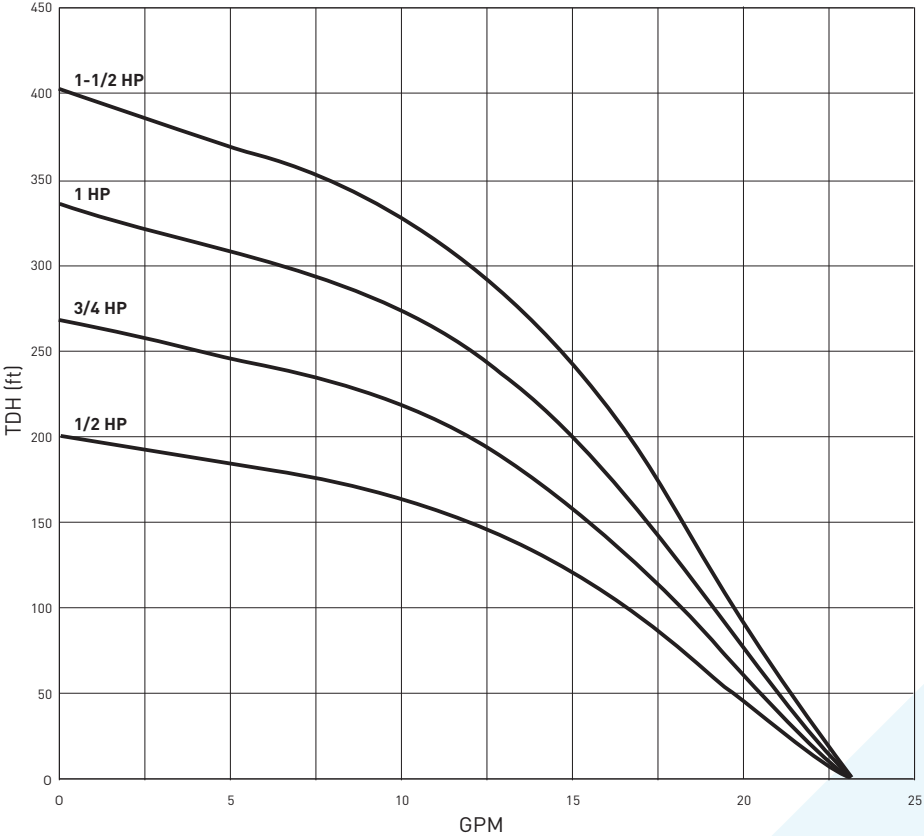
HP	PSI	PUMPING DEPTH IN FEET																SHUT-OFF HEAD									
		0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	FEET	PSI
1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

# 15 GPM SUBMERSIBLE PUMPS

## ORDERING INFORMATION

GPM	MOTOR TYPE	HP	STAGES	PH	VOLT	ASSEMBLED PUMP		PUMP END		MOTOR		DRIVE	CONTROL BOX				
						CAT. NO.	LENGTH (IN.)	WT. (LBS.)	CAT. NO.	LENGTH (IN.)	WT. (LBS.)		CAT. NO.	WT. (LBS.)	CAT. NO.	WT. (LBS.)	
<b>MS SERIES</b>																	
15	2 WIRE	1/2	6	1	115	B15P4MS05121	23	27	L15P4CMGS	13	9	P42B0005A1-C	19				
		1/2	6	1	230	B15P4MS05221	23	27	L15P4CMGS	13	9	P42B0005A2-C	19	PID10			
		3/4	8	1	230	B15P4MS07221	26	31	L15P4DMGS	15	10	P42B0007A2-C	23				
		1	10	1	230	B15P4MS10221	30	35	L15P4EMGS	17	11	P42B0010A2-C	25				
		11/2	12	1	230	B15P4MS15221	36	43	L15P4FMGS	21	13	P42B0015A2-C	29	PID20	22		
		1/2	6	1	230	B15P4MS05231	23	27	L15P4CMGS	13	9	P43B0005A2-C	19		SMC-CR0521	4	
	3 WIRE	3/4	8	1	230	B15P4MS07231	26	31	L15P4DMGS	15	10	P43B0007A2-C	21	PID10	SMC-CR0721	4	
		1	10	1	230	B15P4MS10231	30	35	L15P4EMGS	17	11	P43B0010A2-C	23		SMC-CR1021	4	
		11/2	12	1	230	B15P4MS15231	34	41	L15P4FMGS	21	13	P43B0015A2-C	27	PID20	SMC-CR1521	7	
		<b>JP SERIES</b>															
		15	2 WIRE	1/2	6	1	115	B15P4JP05121	23	27	SL15P4CJ	13	9	P42B0005A1-C	19		
				1/2	6	1	230	B15P4JP05221	23	27	SL15P4CJ	13	9	P42B0005A2-C	19	PID10	
3/4	8			1	230	B15P4JP07221	26	31	SL15P4DJ	15	10	P42B0007A2-C	23				
1	10			1	230	B15P4JP10221	30	35	SL15P4EJ	17	11	P42B0010A2-C	25				
11/2	12			1	230	B15P4JP15221	36	43	SL15P4FJ	21	13	P42B0015A2-C	29	PID20	22		
1/2	6			1	230	B15P4JP05231	23	27	SL15P4CJ	13	9	P43B0005A2-C	19		SMC-CR0521	4	
3 WIRE	3/4		8	1	230	B15P4JP07231	26	31	SL15P4DJ	15	10	P43B0007A2-C	21	PID10	SMC-CR0721	4	
	1		10	1	230	B15P4JP10231	30	35	SL15P4EJ	17	11	P43B0010A2-C	23		SMC-CR1021	4	
	11/2		12	1	230	B15P4JP15231	34	41	SL15P4FJ	21	13	P43B0015A2-C	27	PID20	SMC-CR1521	7	

PUMP PERFORMANCE



PUMP PERFORMANCE CAPACITY - 15 GALLONS PER MINUTE

HP	PSI	PUMPING DEPTH IN FEET																SHUT-OFF HEAD								
		0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	FEET	PSI		
1/2	0	-	-	20.5	19.2	17.8	16.3	14.7	12.8	10.5	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20	20.1	18.8	17.4	15.8	14.1	12.1	9.7	6.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	30	18.6	17.1	15.6	13.8	11.8	9.2	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	40	16.9	15.3	13.5	11.4	8.8	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	50	15.1	13.2	11.0	8.3	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	60	12.9	10.7	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	70	10.3	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	6.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	0	-	-	-	20.2	19.2	18.2	17.1	15.9	14.7	13.3	11.7	9.8	7.5	3.6	-	-	-	-	-	-	-	-	-	-	
	20	20.8	19.9	18.9	17.9	16.7	15.5	14.2	12.8	11.2	9.2	6.6	-	-	-	-	-	-	-	-	-	-	-	-	-	
	30	19.7	18.7	17.7	16.6	15.4	14.0	12.6	10.9	8.8	6.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	40	18.6	17.5	16.4	15.2	13.8	12.3	10.6	8.5	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	50	17.3	16.2	15.0	13.6	12.1	10.3	8.1	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	60	16.0	14.8	13.4	11.8	10.0	7.7	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	70	14.5	13.1	11.5	9.7	7.3	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	80	12.9	11.3	9.3	6.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

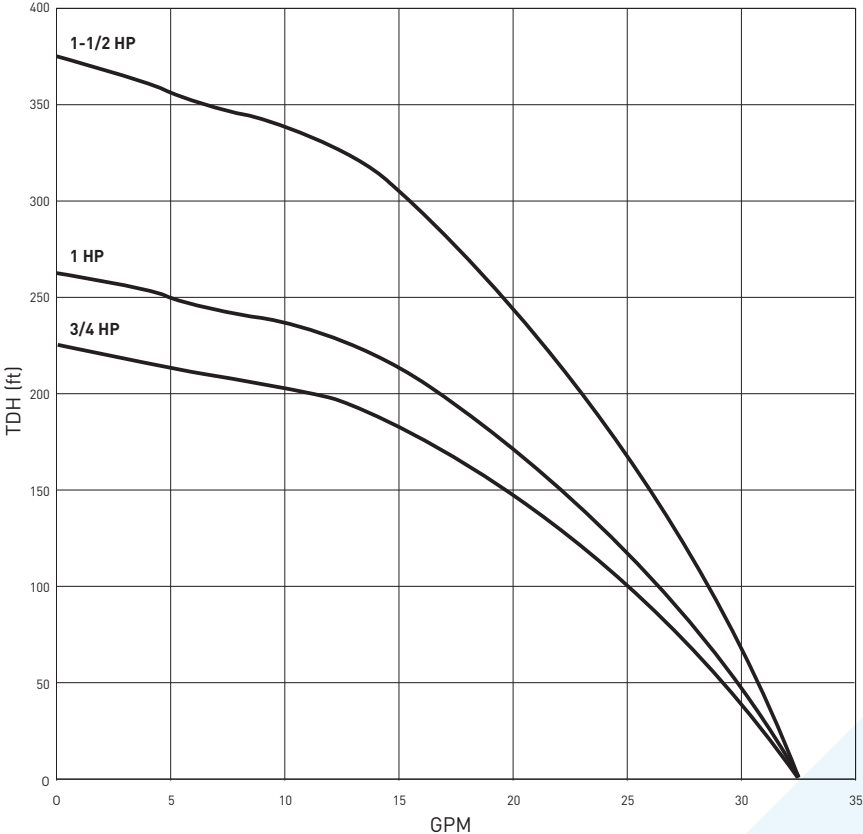
HP	PSI	PUMPING DEPTH IN FEET																SHUT-OFF HEAD							
		0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	FEET	PSI	
1	0	-	-	-	-	20.4	19.6	18.7	17.8	16.9	15.9	14.8	13.6	12.3	10.9	9.3	7.3	4.5	-	-	-	-	-	-	
	20	-	21.0	20.2	19.3	18.5	17.5	16.6	15.5	14.4	13.2	11.9	10.4	8.7	6.6	3.2	-	-	-	-	-	-	-	-	
	30	20.9	20.1	19.2	18.3	17.4	16.4	15.4	14.3	13.0	11.7	10.2	8.4	6.2	2.4	-	-	-	-	-	-	-	-	-	
	40	19.9	19.1	18.2	17.3	16.3	15.2	14.1	12.8	11.5	9.9	8.1	5.7	-	-	-	-	-	-	-	-	-	-	-	
	50	18.9	18.0	17.1	16.1	15.0	13.9	12.6	11.3	9.7	7.8	5.3	-	-	-	-	-	-	-	-	-	-	-	-	
	60	17.9	17.0	15.9	14.9	13.7	12.4	11.0	9.4	7.5	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	70	16.8	15.8	14.7	13.5	12.2	10.8	9.1	7.1	4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	15.6	14.5	13.3	12.0	10.6	8.8	6.7	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	0	-	-	-	-	20.5	19.9	19.2	18.5	17.8	17.1	16.3	15.5	14.7	13.7	12.8	11.7	10.5	9.1	7.5	5.3	-	-	-	
	20	-	20.9	20.3	19.7	19.0	18.3	17.6	16.9	16.1	15.3	14.4	13.4	12.4	11.3	10.1	8.7	6.9	4.3	-	-	-	-	-	
	30	20.8	20.2	19.6	18.9	18.2	17.5	16.7	16.0	15.1	14.2	13.3	12.3	11.2	9.9	8.4	6.6	3.8	-	-	-	-	-	-	
	40	20.1	19.5	18.8	18.1	17.4	16.6	15.8	15.0	14.1	13.1	12.1	11.0	9.7	8.2	6.2	3.0	-	-	-	-	-	-	-	
	50	19.4	18.7	18.0	17.3	16.5	15.7	14.9	14.0	13.0	11.9	10.8	9.5	7.9	5.9	1.8	-	-	-	-	-	-	-	-	-
	60	18.6	17.9	17.1	16.4	15.6	14.7	13.8	12.8	11.8	10.6	9.2	7.6	5.5	-	-	-	-	-	-	-	-	-	-	-
	70	17.8	17.0	16.3	15.4	14.6	13.7	12.7	11.6	10.4	9.0	7.3	5.1	-	-	-	-	-	-	-	-	-	-	-	-
	80	16.9	16.1	15.3	14.4	13.5	12.5	11.4	10.2	8.8	7.0	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-

# 20 GPM SUBMERSIBLE PUMPS

## ORDERING INFORMATION

GPM	MOTOR TYPE	HP	STAGES	PH	VOLT	ASSEMBLED PUMP			PUMP END			MOTOR		DRIVE		CONTROL BOX		
						CAT. NO.	LENGTH (IN.)	WT. (LBS.)	CAT. NO.	LENGTH (IN.)	WT. (LBS.)	CAT. NO.	WT. (LBS.)	CAT. NO.	WT. (LBS.)	CAT. NO.	WT. (LBS.)	
<b>MSSERIES</b>																		
20	2 WIRE	3/4	6	1	230	B20P4MS07221	24	30	L20P4DMGS	13	9	P42B0007A2-C	23	PID10	22	SMC-CR0721	4	
		1	7	1	230	B20P4MS10221	28	34	L20P4EMGS	15	10	P42B0010A2-C	25					
		1 1/2	10	1	230	B20P4MS15221	32	39	L20P4FMGS	17	11	P42B0015A2-C	29					
	3 WIRE	3/4	6	1	230	B20P4MS07231	24	30	L20P4DMGS	13	9	P43B0007A2-C	23	PID10	22	SMC-CR1021	4	
		1	7	1	230	B20P4MS10231	28	34	L20P4EMGS	15	10	P43B0010A2-C	25					
		1 1/2	10	1	230	B20P4MS15231	31	39	L20P4FMGS	17	11	P43B0015A2-C	29					
<b>JP SERIES</b>																		
20	2 WIRE	3/4	6	1	230	B20P4JP07221	24	30	SL20P4DJ	13	9	P42B0007A2-C	23	PID10	22	SMC-CR0721	4	
		1	7	1	230	B20P4JP10221	28	34	SL20P4EJ	15	10	P42B0010A2-C	25					
		1 1/2	10	1	230	B20P4JP15221	32	39	SL20P4FJ	17	11	P42B0015A2-C	29					
	3 WIRE	3/4	6	1	230	B20P4JP07231	24	30	SL20P4DJ	13	9	P43B0007A2-C	23	PID10	22	SMC-CR1021	4	
		1	7	1	230	B20P4JP10231	28	34	SL20P4EJ	15	10	P43B0010A2-C	25					
		1 1/2	10	1	230	B20P4JP15231	31	39	SL20P4FJ	17	11	P43B0015A2-C	29					

PUMP PERFORMANCE



PUMP PERFORMANCE CAPACITY - 20 GALLONS PER MINUTE

HP	PSI	PUMPING DEPTH IN FEET																SHUT-OFF HEAD							
		0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	FEET	PSI	
3/4	0	-	-	-	-	26.9	25.0	23.0	20.7	18.1	15.1	11.3	4.9	-	-	-	-	-	-	-	-	-	-	-	
	20	-	-	26.3	24.4	22.3	19.9	17.3	14.1	9.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	30	27.9	26.1	24.1	21.9	19.6	16.8	13.5	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	40	25.8	23.8	21.6	19.2	16.4	12.9	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	50	23.4	21.2	18.8	15.9	12.3	7.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	60	20.9	18.3	15.4	11.6	5.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	70	17.9	14.9	10.9	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	14.3	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



HP	PSI	PUMPING DEPTH IN FEET																SHUT-OFF HEAD							
		0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	FEET	PSI	
1	0	-	-	-	-	27.9	26.4	24.7	23.0	21.0	18.9	16.5	13.6	10.0	2.8	-	-	-	-	-	-	-	-	-	-
	20	-	-	27.5	25.9	24.2	22.4	20.4	18.2	15.7	12.6	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	30	-	27.2	25.6	23.9	22.1	20.1	17.8	15.2	12.1	7.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	40	27.0	25.4	23.7	21.8	19.7	17.5	14.8	11.5	6.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	25.1	23.4	21.5	19.4	17.1	14.3	10.9	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	23.1	21.2	19.1	16.7	13.9	10.3	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	70	20.9	18.7	16.3	13.4	9.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	18.4	15.9	12.9	8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	0	-	-	-	-	-	-	27.9	26.8	25.6	24.4	23.1	21.7	20.2	18.6	16.9	15.0	12.7	10.0	6.1	-	-	-	-	-
	20	-	-	-	-	27.5	26.4	25.2	24.0	22.6	21.3	19.8	18.1	16.3	14.3	12.0	9.0	4.1	-	-	-	-	-	-	-
	30	-	-	-	27.4	26.2	25.0	23.8	22.4	21.0	19.5	17.9	16.0	14.0	11.6	8.4	2.6	-	-	-	-	-	-	-	-
	40	-	-	27.2	26.0	24.8	23.6	22.2	20.8	19.3	17.6	15.7	13.6	11.1	7.8	-	-	-	-	-	-	-	-	-	-
	50	-	27.0	25.8	24.6	23.4	22.0	20.6	19.0	17.3	15.4	13.3	10.7	7.2	-	-	-	-	-	-	-	-	-	-	-
	60	26.8	25.7	24.4	23.2	21.8	20.3	18.8	17.0	15.1	12.9	10.2	6.5	-	-	-	-	-	-	-	-	-	-	-	-
	70	25.5	24.2	23.0	21.6	20.1	18.5	16.8	14.8	12.5	9.7	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	24.1	22.7	21.4	19.9	18.2	16.5	14.5	12.2	9.2	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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