

Betta FLO

SUBMERSIBLE PUMPS

4" - 6" - 8"

- ★ RESIDENTIAL
- ★ COMMERCIAL
- ★ INDUSTRIAL
- ★ MUNICIPAL
- ★ MINING
- ★ IRRIGATION

MAXIMUM EFFICIENCY

MAXIMUM PERFORMANCE

MAXIMUM DEPENDABILITY



4"
.....

SUBMERSIBLE MAX PRO LEAD FREE PUMPS

For clear, fresh drinking water, there's no better choice than National's Beta Flo lead free 4" submersible pumps. They're easy to install and offer consistent performance over a long pump life.

To prevent vortexing and premature check valve failure, they feature an iron or stainless steel discharge head with an external check valve and a cast mounting port for submersible safety cable.

For permanent positive up-thrust protection and increased pump life, the case hardened steel cone point set screw, preadjusted at the factory, prevents impeller drag at startup and low head applications.

Extra large graphite-impregnated bronze bearing runs cool and quiet while providing perfect shaft alignment.

Stainless steel threaded tube provides corrosion resistance and long life. O-ring gasket provides positive seal between discharge head and tube.

Highly efficient Noryl diffusers provide for larger diameter impellers.

Stainless steel locking nut permanently locks pump stack so that impellers do not float, lengthening pump life, reducing sand damage and allowing quiet, smooth operation.

We look forward to developing a strong relationship of trust with you through high professional standards and reliable customer service. We would like the opportunity to assist you in achieving your goals and objectives. Before you design your next pumping system, talk with a National Pump expert and take advantage of the knowledge and experience we have to offer.

Betta FLO

BRANDS



MAX Pro Series

- Our Deluxe Series
- 3 Year Warranty on Pump End
- Stainless Steel Suction
- Stainless Steel Discharge
- External Check Valve
— Added Versatility
- Upthrust Protection
- Noryl Impellers & Diffusers
— High Efficiency
— Higher Abrasion Resistance
- Stainless Suction Screen
- Powered By Franklin Electric
- 2 & 3 Wire Models Available

- GPM's from 4 to 70
- HP's from 1/2 to 7-1/2

MAX Iron Series

- Our Economy Series
- 1 Year Warranty
- Ductile Iron Suction & Discharge
— Stronger Than Plastics
- External Check Valve
— Added Versatility
- Upthrust Protection
- Noryl Impellers & Diffusers
— High Efficiency
— Higher Abrasion Resistance
- Stainless Suction Screen
- 2 & 3 Wire Models Available

- GPM's from 4 to 25
- HP's from 1/2 to 1-1/2



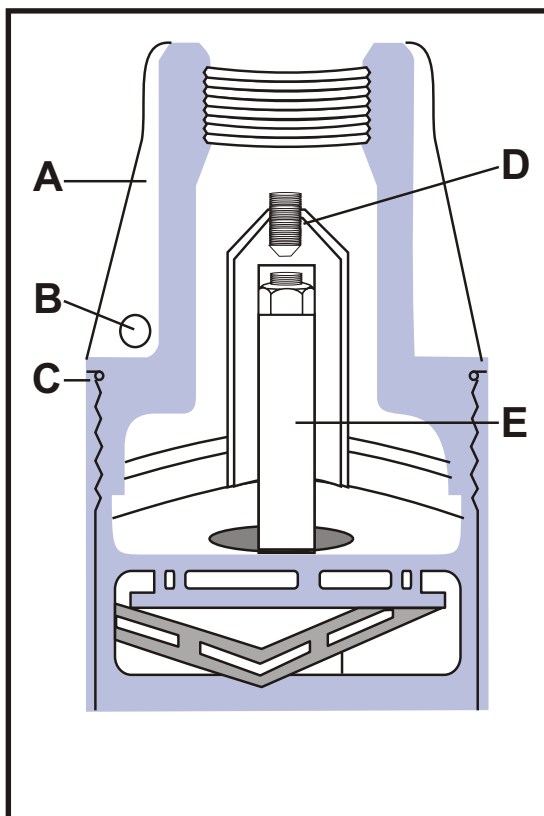
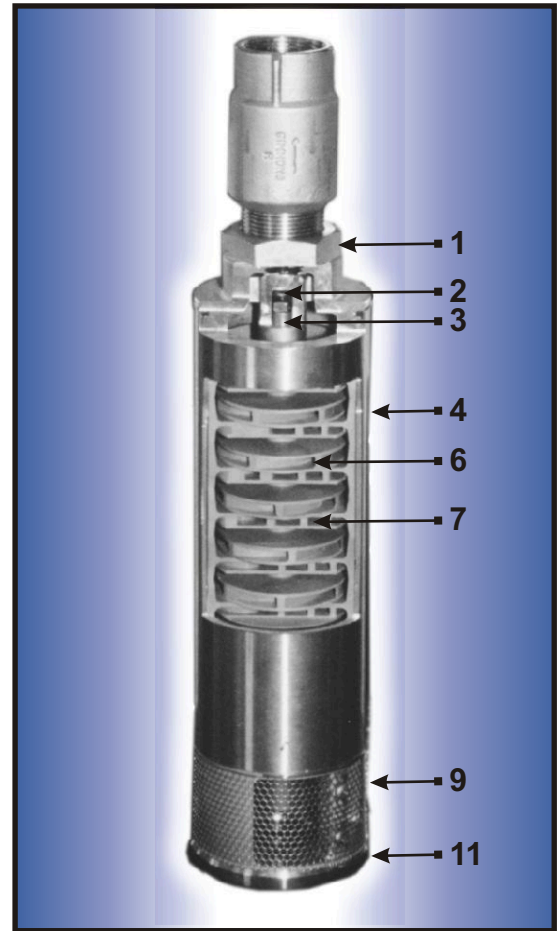
4" SUBMERSIBLE PUMP PRODUCT

1. Stainless steel or ductile iron discharge connection.
2. Anti-up-thrust set screw prevents impeller drag at startup and low head application. Increased pump life.
3. Extra large graphite-impregnated bronze bearing runs cool and quiet while providing perfect shaft alignment.
4. Stainless steel tubing provide corrosion resistance and long life.
5. Stainless steel cable guard protects motor leads during installation and pump start-up. (*Not shown*)
6. Impellers are made of abrasive resistant high strength glass-filled noryl.
7. High efficiency noryl diffusers provide for larger O.D. impellers.
8. Pump shaft in 7/16" hex series 400 stainless steel. (*Not shown*)
9. Stainless steel suction screen, completely non-corrosive, protects pumping elements from harmful materials.
10. Motor coupling is a one piece sintered stainless powdered metal part. The 7/16 hex shaft is locked in with a screw and with lock-tite applied to the threads. (*Not shown*)
11. One piece motor bracket and suction are supplied in stainless steel or ductile iron.

NOT SHOWN:

External check valve supplied on all pumps

Screw, nuts and washers are stainless steel.



A Rugged stainless steel or ductile iron discharge connection with external check valve. Designed to prevent vortexing and premature check valve failure. Guide vanes cast into discharge permit easy removal from wells where pump is installed below well casing.

B Convenient mounting port for submersible safety cable.

C O-ring gasket provides positive seal between discharge housing and stainless steel tube assembly. Increases efficiency and prolongs pump life.

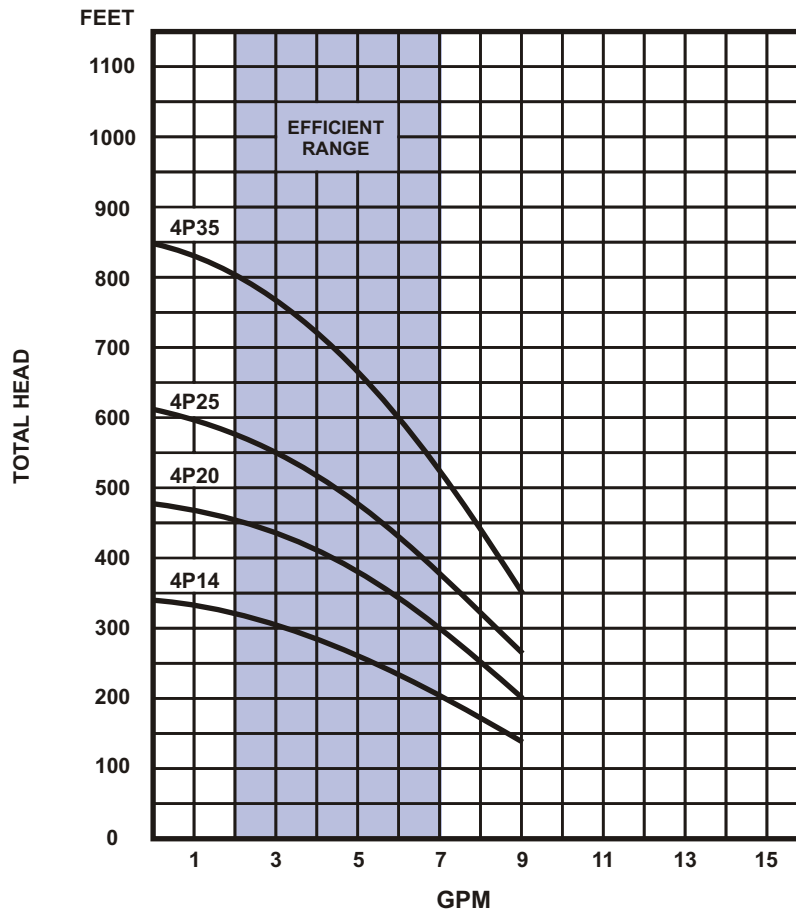
D Case hardened steel cone point set screw, pre-adjusted at the factory, provides permanent and positive up-thrust protection for the life of your Betta Flo submersible pump and allows your pump to be used in all water levels without damaging the pump.

E Full 1-1/2" long graphite impregnated bronze bearing. Self-lubricating. Provides extremely long life and will not seize if pump breaks suction.



4" SUBMERSIBLE CURVE

4P SERIES



GPM - WEIGHT AND LENGTH DATA

MODEL	HP	NO. OF STAGES	NO. WIRE	PHASE	LENGTH - INCHES		SHIPPING WEIGHT		DISCH. SIZE
					PUMP	MOTOR	PUMP	MOTOR	
4P14	1/2	14	2	1	16 7/8	9.53	11	18	1"
			3	1	16 7/8	9.53	11	18	1"
4P20	3/4	20	2	1	21 1/8	10.70	13	21	1"
			3	1	21 1/8	10.66	13	21	1"
4P25	1	25	2	1	24 3/4	11.75	14	24	1"
			3	1	24 3/4	11.75	14	24	1"
4P35	1 1/2	35	2	1	32	15.12	18	32	1"
			3	1	32	13.62	18	29	1"



PERFORMANCE CHART

7 GPM SERIES

CAPACITIES IN U.S. GALLONS PER MINUTE

PUMP MODEL	HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET																							
			SHADED AREAS INDICATE OPERATING RANGE																							
			20	40	60	80	100	120	140	160	180	200	240	260	300	340	380	420	460	480	520	560	600	700	800	900

7C11	1/2	0			17	16	15	14	13	12	10	9	6	3														
		20	17	16	15	14	13	11	10	9	8	5																
		30	15	15	13	12	10	10	9	7	4																	
		40	15	12	12	11	10	9	7	4																		
		50	12	12	11	10	8	7	4																			
		60	11	10	10	8	6	4																				
SHUT OFF		PSI	109	100	92	83	74	66	57	48	40	31	14	5														

7C14	3/4	0			17	16	15	15	14	12	12	11	10	9	6												
		20	16	15	15	15	13	12	12	11	10	10	8	6													
		30	16	15	15	14	12	12	11	10	9	9	5	3													
		40	15	14	13	12	12	11	10	9	8	7	3														
		50	14	13	12	12	11	10	9	8	6	4															
		60	13	12	11	10	10	9	8	6	4	1															
SHUT OFF		PSI	141	133	124	115	107	98	90	81	72	64	46	38	20												

7C20	1	0					17	17	16	15	15	14	12	12	10	9	5	1									
		20				17	16	16	15	15	13	12	12	10	8	5	1										
		30			16	16	16	15	15	13	13	11	10	9	6	2											
		40		16	16	16	15	15	13	13	12	10	9	8	5												
		50	16	16	15	15	14	13	13	12	11	9	8	6	3												
		60	16	15	15	15	14	13	13	12	11	10	8	8	4												
SHUT OFF		PSI	195	187	178	169	161	152	144	135	126	118	100	92	74	57	40	22	5								

7C25	1 1/2	0							17	17	15	15	14	13	12	11	10	8	7	5	2					
		20						17	16	15	15	14	12	12	11	10	8	7	5	2						
		30					17	16	15	15	14	13	11	11	10	9	7	5	3							
		40				17	16	15	15	14	13	12	11	10	9	8	6	2								
		50			17	16	15	15	14	13	12	12	10	10	8	7	5									
		60		17	16	15	15	14	13	12	12	10	10	9	8	5	2									
SHUT OFF		PSI		224	215	207	198	190	181	172	164	146	138	120	102	85	68	50	42	25	8					

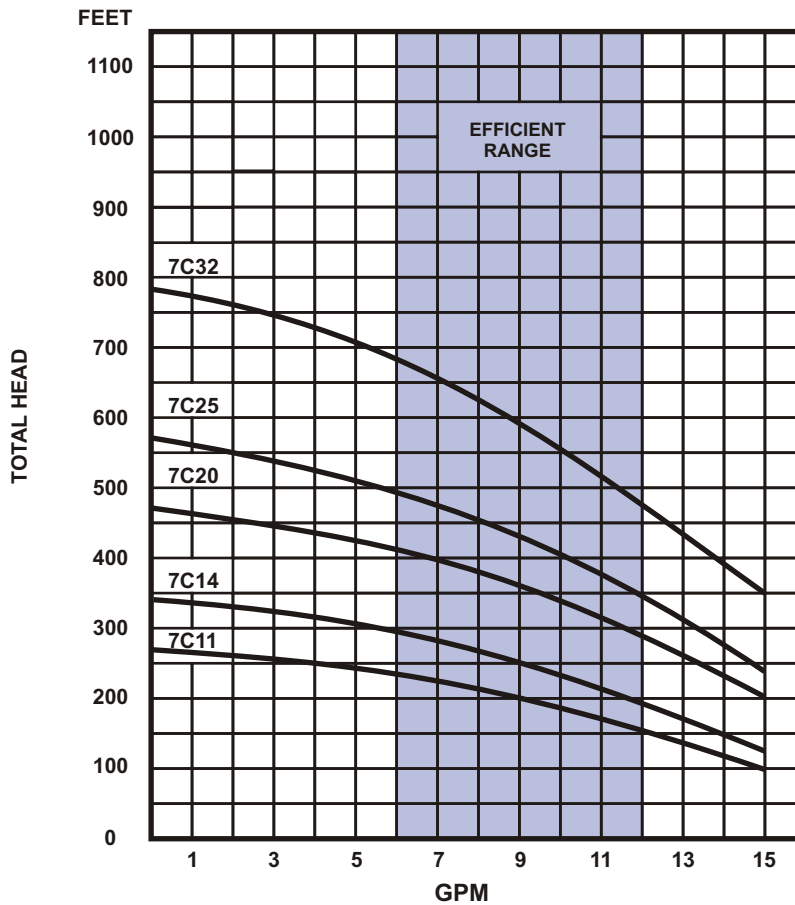
PUMP MODEL	HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET																							
			SHADED AREAS INDICATE OPERATING RANGE																							
			300	320	340	360	380	400	420	440	460	480	500	520	540	560	580	600	620	640	660	680	700	740	780	820

7C32	2	0	15	15	15	15	14	13	13	12	12	12	11	11	10	10	9	9	8	8	7	6	6	4	1	
		20	15	15	14	13	13	13	12	12	11	11	10	10	9	9	8	8	7	6	6	5	4			
		30	15	14	13	13	13	12	12	11	11	10	10	9	9	8	8	7	6	6	5	4				
		40	14	13	13	13	12	12	11	11	10	10	9	9	8	8	7	6	6	5	4					
		50	13	13	13	12	12	11	11	10	10	9	9	8	8	7	6	6	5	4						
		60	13	13	12	12	11	11	10	10	9	9	8	8	7	6	6	5	4							
SHUT OFF		PSI	205	196	187	179	170	161	153	144	135	127	118	109	101	92	83	75	66	57	49	40	31	23	14	



4" SUBMERSIBLE CURVE

7C SERIES



GPM - WEIGHT AND LENGTH DATA

MODEL	HP	NO. OF STAGES	NO. WIRE	PHASE	LENGTH - INCHES		SHIPPING WEIGHT		DISCH.
					PUMP	MOTOR	PUMP	MOTOR	SIZE
7C11	1/2	11	2	1	14 1/2	9.53	10	18	1"
			3	1	14 1/2	9.53	10	18	1"
7C14	3/4	14	2	1	16 7/8	10.70	11	21	1"
			3	1	16 7/8	10.66	11	21	1"
7C20	1	20	2	1	21 1/8	11.75	13	24	1"
			3	1	21 1/8	11.75	13	24	1"
7C25	1 1/2	25	2	1	24 3/4	15.12	14	32	1"
			3	1	24 3/4	13.60	14	29	1"
7C32	2	32	3	1	32 5/8	15.12	17	32	1"
			3	3	32 5/8	13.62	17	28	1"



PERFORMANCE CHART

12 GPM SERIES

CAPACITIES IN U.S. GALLONS PER MINUTE

PUMP MODEL	HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET																							
			SHADED AREAS INDICATE OPERATING RANGE																							
			20	40	60	80	100	120	140	160	180	200	240	260	300	340	380	420	460	480	520	560	600	700	800	900

12J8	1/2	0	21	20	19	17	17	14	13	11	8	5																	
		20	18	17	16	14	12	10	7	4																			
		30	17	16	14	12	10	7	3																				
		40	16	14	12	10	7																						
		50	13	11	9	6																							
		60	11	9	5																								
SHUT OFF	PSI	84	76	67	58	50	41	32	23	15	6																		

12J11	3/4	0	21	20	19	19	18	17	16	15	14	13	9	7																
		20	19	18	17	17	16	15	13	12	10	9	6																	
		30	18	17	17	15	14	14	12	10	8	6																		
		40	17	17	15	14	13	12	10	8	5																			
		50	16	15	14	13	12	10	8	5																				
		60	15	14	13	12	10	8	5																					
SHUT OFF	PSI	117	109	100	90	82	73	64	55	46	38	20	11																	

12J14	1	0	21	20	20	19	18	17	17	16	15	14	13	11	9	5															
		20	20	19	18	18	17	16	15	14	13	12	10	8	6	5															
		30	18	18	17	16	16	15	14	13	12	10	8	6																	
		40	18	17	16	15	14	14	13	12	10	9	6																		
		50	17	16	15	15	13	12	12	10	9	7																			
		60	16	15	15	13	12	11	10	9	7																				
SHUT OFF	PSI	151	142	133	124	115	106	97	88	79	73	56	48	30	13																

12J20	1 1/2	0					20	19	18	18	17	17	16	15	14	12	11	9	7	6											
		20					19	18	18	17	17	16	16	14	13	12	11	9	7	4											
		30				19	18	18	17	17	16	16	14	13	12	11	9	7	5												
		40		19	18	18	17	17	16	16	14	13	12	11	9	7	6														
		50	19	18	18	17	17	16	16	14	13	12	12	10	10	7															
		60	18	18	17	17	16	16	14	14	13	12	11	10	8																
SHUT OFF	PSI	220	212	201	193	185	176	167	159	150	141	125	115	98	81	63	47	29	21												

12J25	2	0										18	18	17	16	15	14	13	11	10	9	7	5										
		20										18	17	17	16	15	14	13	12	10	9	8	5	1									
		30										18	17	17	16	15	14	13	12	10	9	8	6	3									
		40										18	17	17	16	15	14	13	12	11	10	8	6	5									
		50										18	17	17	16	16	14	14	12	11	10	9	6	5	2								
		60							18	17	17	16	16	15	14	13	12	10	9	8	5	4											
SHUT OFF	PSI						239	230	222	213	204	196	178	170	152	135	117	100	83	74	57	39	22										

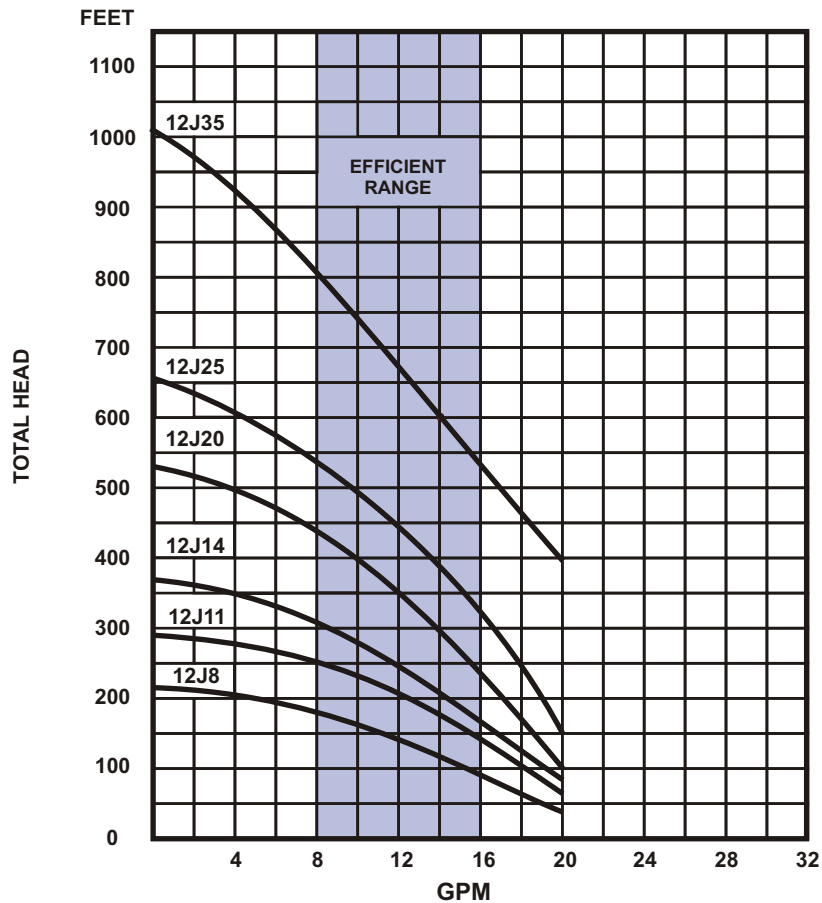
PUMP MODEL	HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET																							
			SHADED AREAS INDICATE OPERATING RANGE																							
			400	420	440	460	480	500	520	540	560	580	600	620	640	660	680	700	720	740	760	780	800	840	880	920

12J35	3	0				17	17	16	16	16	15	15	14	13	13	12	12	12	11	10	10	9	9	7	7	6						
		20				17	17	16	15	15	15	14	13	13	12	12	12	11	11	10	9	9	8	7	7	6	4					
		30		17	17	16	15	15	15	14	13	13	12	12	12	11	11	10	10	9	9	8	7	7	6	5	3					
		40	17	17	16	15	15	14	13	13	12	12	11	11	10	10	10	9	8	7	7	6	5	4	3							
		50	17	16	15	15	15	14	13	13	12	12	11	11	10	10	10	9	8	7	7	6	5	4	3							
		60	16	15	15	15	14	13	13	12	12	11	11	10	10	9	9	9	7	7	6	5	4	4								
SHUT OFF	PSI	267	258	249	241	232	223	215	206	197	189	180	171	163	154	145	137	128	120	111	103	94	77	59	42							



4" SUBMERSIBLE CURVE

12J SERIES



GPM - WEIGHT AND LENGTH DATA

MODEL	HP	NO. OF STAGES	NO. WIRE	PHASE	LENGTH - INCHES		SHIPPING WEIGHT		DISCH.
					PUMP	MOTOR	PUMP	MOTOR	SIZE
12J8	1/2	8	2	1	12 1/2	9.53	9	18	1"
			3	1	12 1/2	9.53	9	18	1"
12J11	3/4	11	2	1	14 1/2	10.66	10	21	1"
			3	1	14 1/2	10.66	10	21	1"
12J14	1	14	2	1	16 7/8	11.75	11	24	1"
			3	1	16 7/8	11.75	11	24	1"
12J20	1 1/2	20	2	1	21 1/8	15.12	13	32	1"
			3	1	21 1/8	13.62	13	29	1"
12J25	2	25	3	1	24 3/4	15.12	14	32	1"
			3	3	34 3/4	13.62	14	28	1"
12J35	3	35	3	1	32	19.06	18	41	1"
			3	3	32	16.06	18	35	1"



PERFORMANCE CHART

18 GPM SERIES

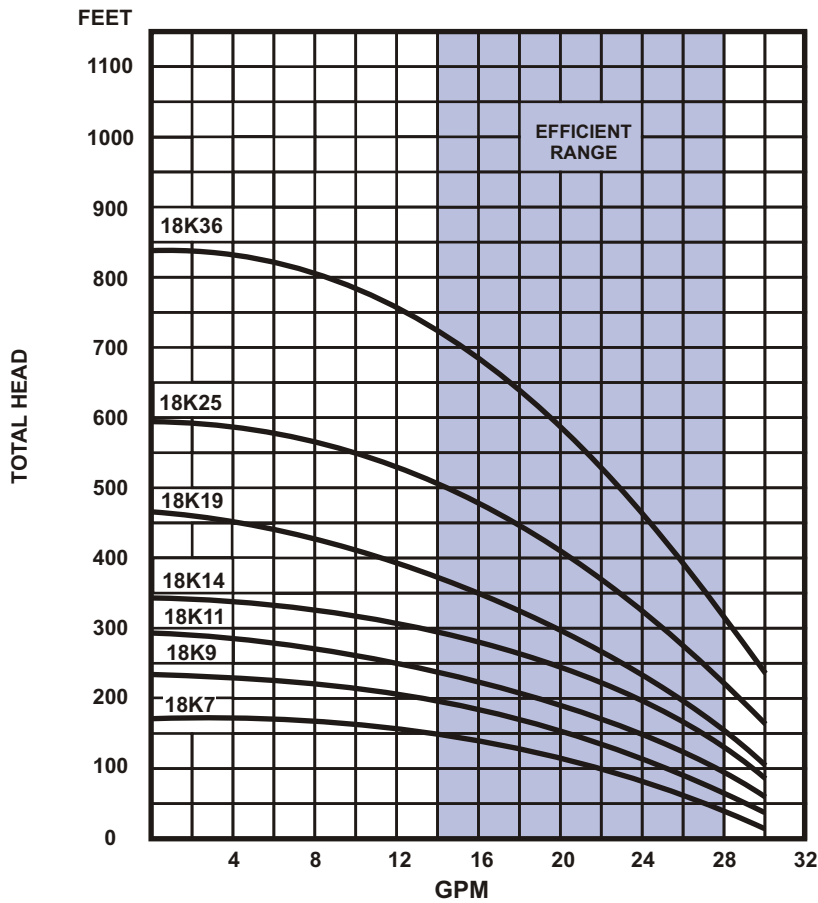
CAPACITIES IN U.S. GALLONS PER MINUTE

PUMP MODEL	HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET																											
			20	40	60	80	100	120	140	160	180	200	240	260	300	340	380	420	460	480	520	560	600	700	800	900				
18K7	1/2	0	30	28	26	24	22	19	17	10																				
		20	25	24	22	18	15	10																						
		30	23	21	18	15	5																							
		40	21	18	15																									
		50	18	15																										
		60	11																											
SHUT OFF		PSI	67	59	50	41	33	24	16	7																				
18K9	3/4	0	31	30	29	27	25	23	22	20	18	15																		
		20	28	27	25	24	22	20	17	8	8																			
		30	27	24	23	21	19	17	13	7																				
		40	24	23	21	19	16	12	6																					
		50	23	21	19	15	10	6																						
		60	20	18	15	10	5																							
SHUT OFF		PSI	91	83	74	65	57	48	40	31	22	14																		
18K11	1	0	32	31	30	28	27	25	23	20	19	13	10																	
		20	30	29	27	25	24	22	20	19	16	16																		
		30	28	27	25	24	23	20	18	16	11																			
		40	26	25	24	22	18	17	16	11																				
		50	25	23	21	19	17	15	10																					
		60	23	21	19	17	15	9																						
SHUT OFF		PSI	111	103	94	85	77	68	60	51	42	34	16	8																
18K14	1 1/2	0	33	33	32	31	29	28	28	26	25	24	20	19	15															
		20	32	31	29	28	27	25	25	23	22	20	17	15																
		30	31	29	28	27	25	25	23	22	20	18	15	6																
		40	28	27	26	25	24	23	20	20	18	16	6																	
		50	27	26	25	24	23	21	20	18	15	13																		
		60	25	25	24	22	20	20	18	15	12																			
SHUT OFF		PSI	141	133	124	115	107	98	90	81	72	64	46	38	20	3														
18K19	2	0					30	29	28	27	26	25	24	23	21	20	15	10												
		20				30	28	27	26	25	25	24	22	21	20	15	10													
		30			30	28	27	26	25	24	23	23	21	19	17	13														
		40		30	28	27	26	25	24	23	22	22	19	19	15	10														
		50	30	28	27	26	25	24	23	22	20	20	19	16	12	6														
		60	28	27	26	25	24	23	22	21	20	19	16	15	8															
SHUT OFF		PSI	191	183	174	165	157	148	140	131	122	114	96	88	70	52	35	18												
18K25	3	0							30	30	29	28	27	27	26	22	20	18	17	15	10									
		20							30	29	29	28	27	26	24	22	20	18	16	15	10									
		30							30	29	28	28	27	26	24	23	21	19	17	13	11									
		40						30	29	29	28	27	26	24	23	21	19	18	15	11	8									
		50					30	29	29	28	27	26	25	23	22	20	18	16	12	8										
		60			30	29	29	28	27	26	25	24	22	21	19	17	15	10												
SHUT OFF		PSI			228	219	211	202	193	185	176	168	150	142	124	107	90	72	55	46	29	12								
18K36	5	0	26	25	24	24	23	23	22	21	20	20	19	18	17	17	16	15	14	13	12	10								
		20	24	24	23	23	22	21	20	20	20	19	18	17	17	16	15	14	13	12	10									
		30	24	23	22	22	21	20	20	20	19	18	17	16	16	15	14	13	12	10										
		40	23	22	21	21	20	20	19	19	18	17	17	16	15	14	13	12	10											
		50	22	22	21	20	20	19	18	18	17	17	16	15	14	13	12	10												
		60	22	21	20	20	19	18	17	17	17	16	15	14	13	11	10													
SHUT OFF		PSI	187	178	169	161	152	143	135	126	117	109	100	91	83	74	65	57	48	39	31	22	13							



4" SUBMERSIBLE CURVE

18K SERIES



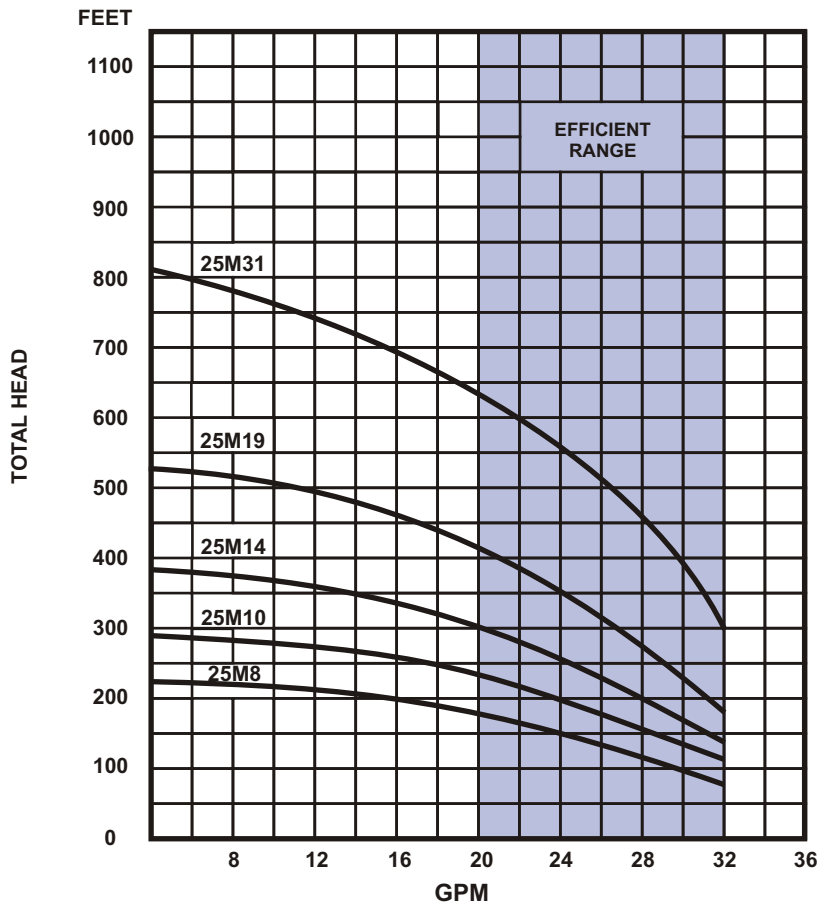
GPM - WEIGHT AND LENGTH DATA

MODEL	HP	NO. OF STAGES	NO. WIRE	PHASE	LENGTH - INCHES		SHIPPING WEIGHT		DISCH.
					PUMP	MOTOR	PUMP	MOTOR	SIZE
18K7	1/2	7	2	1	13 9/16	9.53	9	18	1.25"
			3	1	13 9/16	9.53	9	18	1.25"
18K9	3/4	9	2	1	15 1/2	10.66	9	21	1.25"
			3	1	15 1/2	10.66	9	21	1.25"
18K11	1	11	2	1	17 3/8	11.75	11	24	1.25"
			3	1	17 3/8	11.75	11	24	1.25"
18K14	1 1/2	14	2	1	20 3/16	15.12	12	32	1.25"
			3	1	20 3/16	13.62	12	29	1.25"
18K19	2	19	3	1	25	15.12	14	32	1.25"
			3	3	25	13.62	14	28	1.25"
18K25	3	25	3	1	30 3/4	19.06	16	41	1.25"
			3	3	30 3/4	16.06	16	35	1.25"
18K36	5	36	3	1	36 1/2	28.20	18	70	1.25"
			3	3	36 1/2	22.20	18	55	1.25"



4" SUBMERSIBLE CURVE

25M SERIES



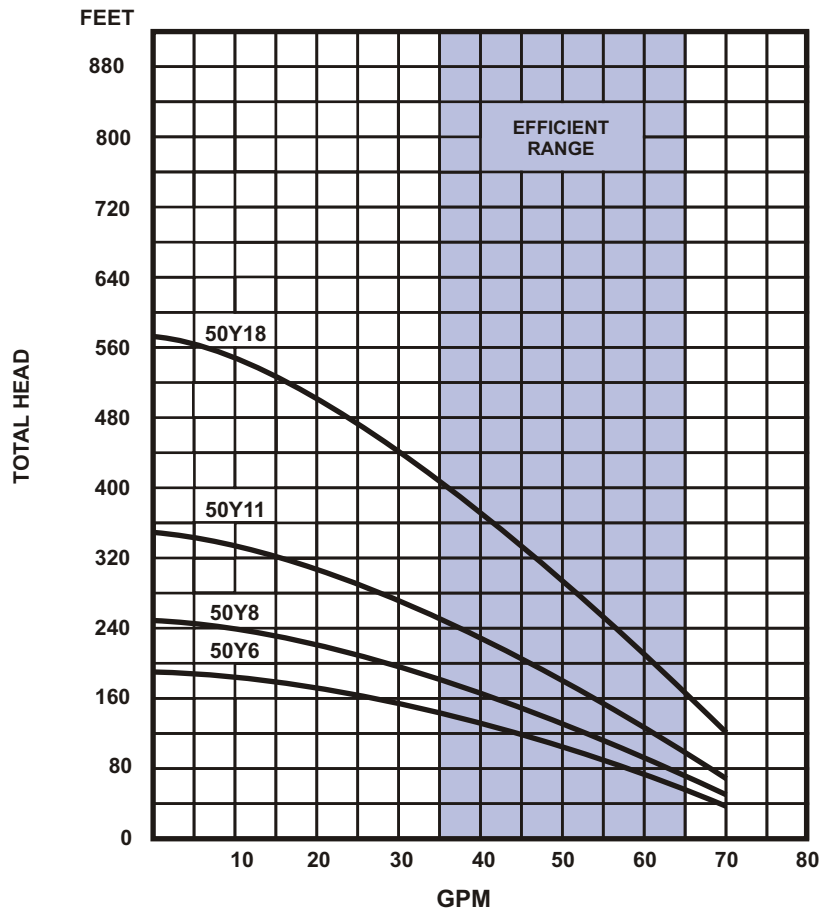
GPM - WEIGHT AND LENGTH DATA

MODEL	HP	NO. OF STAGES	NO. WIRE	PHASE	LENGTH - INCHES		SHIPPING WEIGHT		DISCH.
					PUMP	MOTOR	PUMP	MOTOR	SIZE
25M8	1	8	2	1	14 1/2	11.75	9	24	1.25"
			3	1	14 1/2	11.75	9	24	1.25"
25M10	1 ½	10	2	1	16 1/2	15.12	10	32	1.25"
			3	1	16 1/2	13.62	10	29	1.25"
25M14	2	14	3	1	20 1/4	15.12	12	32	1.25"
			3	3	20 1/4	13.62	12	28	1.25"
25M19	3	19	3	1	25	19.06	14	41	1.25"
			3	3	25	16.06	14	35	1.25"
25M31	5	31	3	1	36 1/2	28.20	18	70	1.25"
			3	3	36 1/2	22.20	18	55	1.25"



4" SUBMERSIBLE CURVE

50Y SERIES



GPM - WEIGHT AND LENGTH DATA

MODEL	HP	NO. OF STAGES	NO. WIRE	PHASE	LENGTH - INCHES		SHIPPING WEIGHT		DISCH. SIZE
					PUMP	MOTOR	PUMP	MOTOR	
50Y6	1 ½	6	12	1	20 3/4	13.60	15	29	2"
			3	3	20 3/4	13.62	15	28	2"
50Y8	2	8	3	1	25 1/4	15.12	17	32	2"
			3	3	25 1/4	13.62	17	28	2"
50Y11	3	11	3	1	32	19.06	20	41	2"
			3	3	32	16.06	20	35	2"
50Y18	5	18	3	1	47 1/2	28.20	26	64	2"
			3	3	47 1/2	22.20	26	49	2"



PERFORMANCE CHART

70 GPM SERIES

CAPACITIES IN U.S. GALLONS PER MINUTE

PUMP MODEL	HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET																							
			SHADED AREAS INDICATE OPERATING RANGE																							
			20	40	60	80	100	120	140	160	180	200	240	260	300	340	380	420	460	480	520	560	600	700	800	900

70V6	2	0	90	84	77	70	60	52	43	36	22																	
		20	77	70	60	52	43	36	22																			
		30	65	56	49	37	29																					
		40	56	43	37	29																						
		50	43	37	29																							
		60	37	22																								
SHUT OFF	PSI	76	67	59	50	41	33	24	15	7																		

70V8	3	0	93	88	85	79	74	70	63	56	48	40	27															
		20	83	79	74	70	63	56	48	40	30	26																
		30	76	72	65	58	54	48	37	29	20																	
		40	70	64	58	54	48	37	29	20																		
		50	63	56	48	40	34	29																				
		60	56	48	40	34	27																					
SHUT OFF	PSI	104	95	87	78	69	61	52	43	35	26	9																

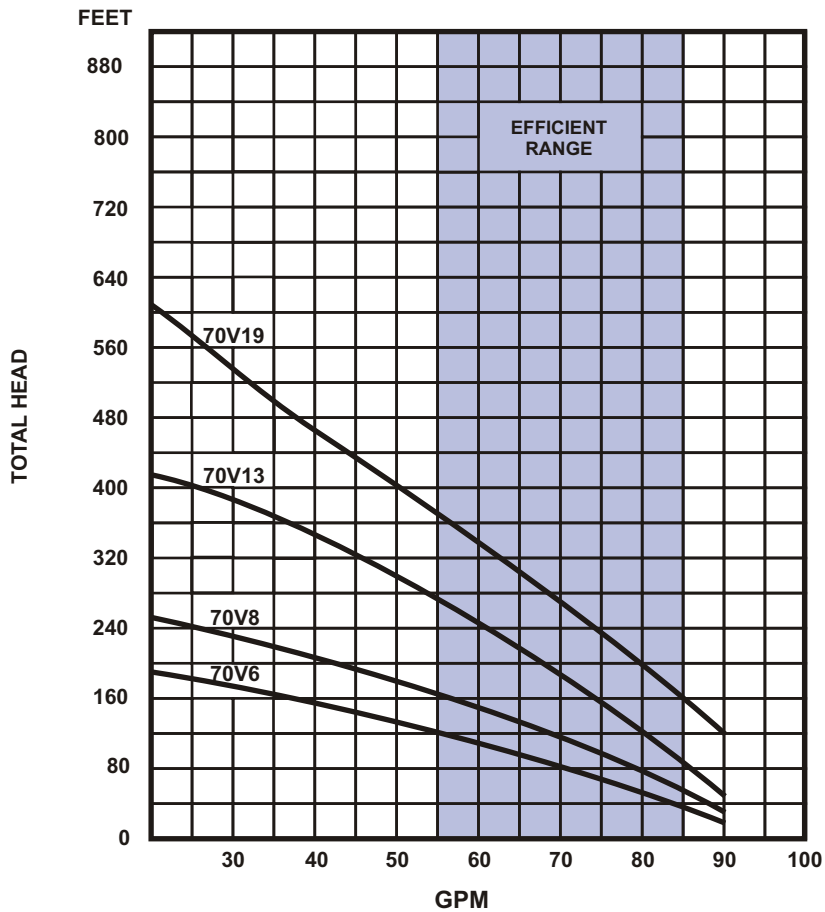
70V13	5	0		90	88	86	84	82	78	74	72	68	58	54	44	38	30											
		20	88	86	84	82	78	74	71	68	62	56	50	44	37	24												
		30	85	84	82	76	72	70	66	60	56	51	40	37	33													
		40	82	78	76	72	70	66	60	55	50	44	37	34	20													
		50	78	76	72	68	64	60	55	50	44	40	34	30														
		60	74	72	68	64	60	55	50	44	38	36	30	20														
SHUT OFF	PSI	169	160	152	143	134	126	117	108	100	91	74	65	48	30	13												

70V19	7 ½	0				92	89	86	84	82	80	78	72	68	62	55	48	40	36	32	22	10							
		20				88	86	84	82	80	78	75	70	68	62	55	48	40	34	32	22	10							
		30			88	85	83	81	78	76	74	70	66	64	58	50	44	35	30	25	18								
		40		88	85	83	81	78	76	74	70	68	64	58	50	46	38	31	25	18									
		50	88	85	83	81	78	76	74	70	68	64	60	56	48	40	34	28	16										
		60	84	82	80	78	75	72	70	68	66	62	55	50	44	36	32	22	10										
SHUT OFF	PSI	256	247	239	230	221	213	204	195	187	178	161	152	135	117	100	83	66	57	40	22	4							



4" SUBMERSIBLE CURVE

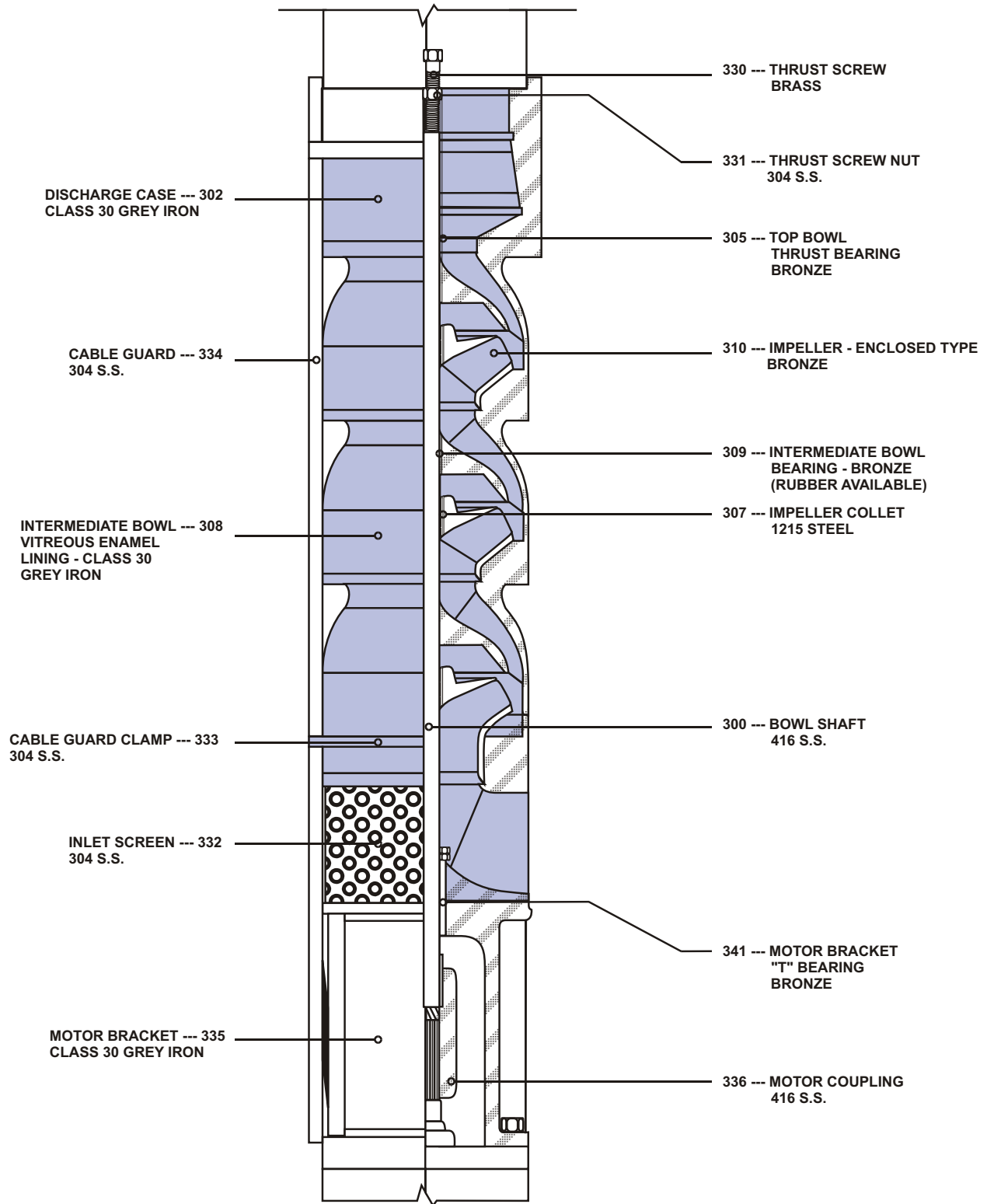
70V SERIES



GPM - WEIGHT AND LENGTH DATA

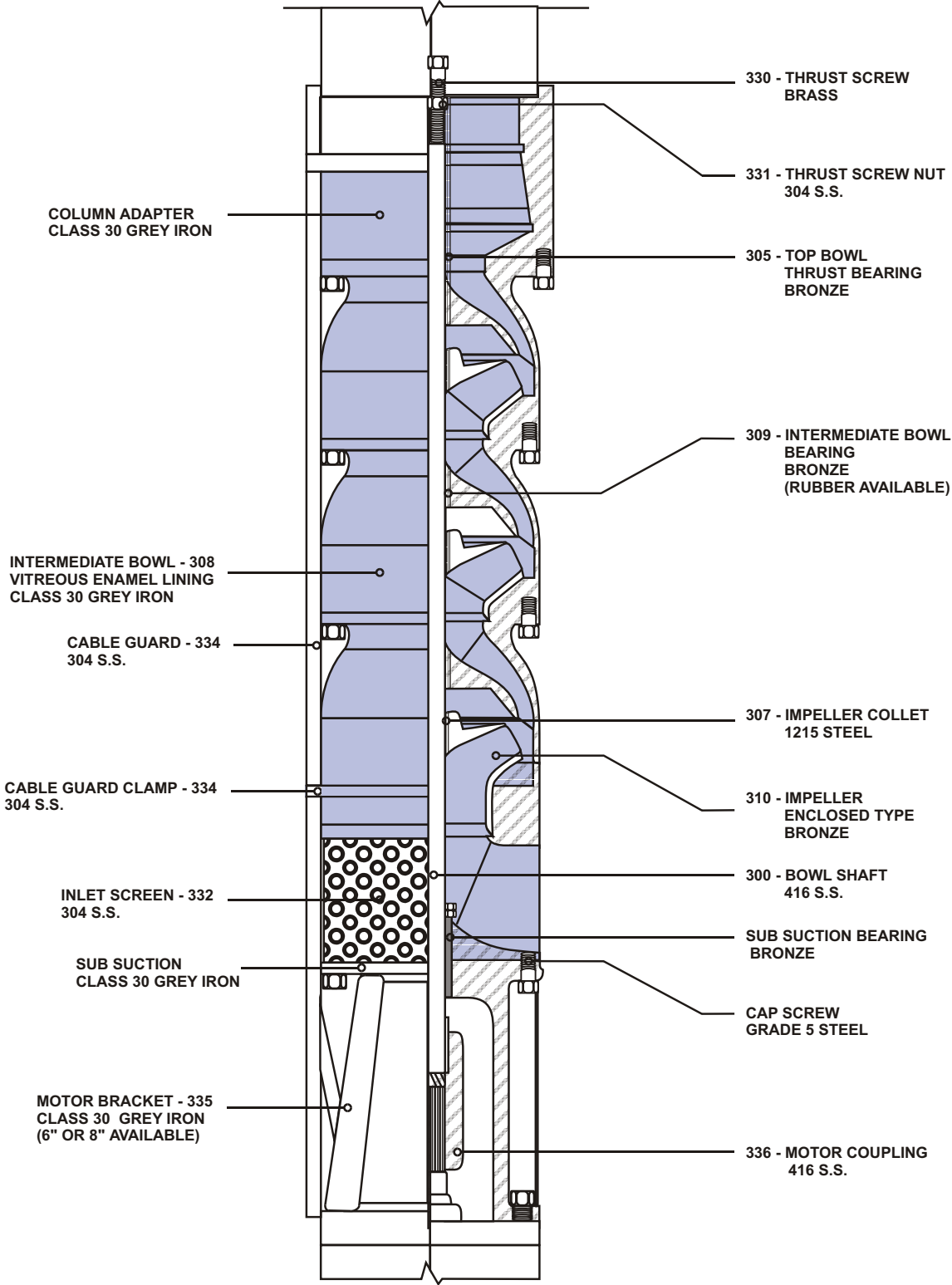
MODEL	HP	NO. OF STAGES	NO. WIRE	PHASE	LENGTH - INCHES		SHIPPING WEIGHT		DISCH. SIZE
					PUMP	MOTOR	PUMP	MOTOR	
70V6	2	6	3	1	20 3/4	15.12	15	33	2"
			3	3	20 3/4	13.62	15	28	2"
70V8	3	8	3	1	25 1/4	19.06	17	41	2"
			3	3	25 1/4	16.06	17	35	2"
70V13	5	13	3	1	37 3/4	28.20	20	64	2"
			3	3	37 3/4	22.20	20	49	2"
70V19	7 1/2	19	3	3	52 3/4	28.20	28	64	2"

SUBMERSIBLE PUMP S6 - SE6 - SJ8 MODELS THREADED BOWLS



ALTERNATE MATERIALS AVAILABLE UPON REQUEST

SUBMERSIBLE PUMP S8 AND LARGER MODELS



ALTERNATE MATERIALS AVAILABLE UPON REQUEST



6" SUBMERSIBLE TURBINE

S6LC SERIES

100 GPM

CAPACITIES IN U.S. GALLONS PER MINUTE

TOTAL

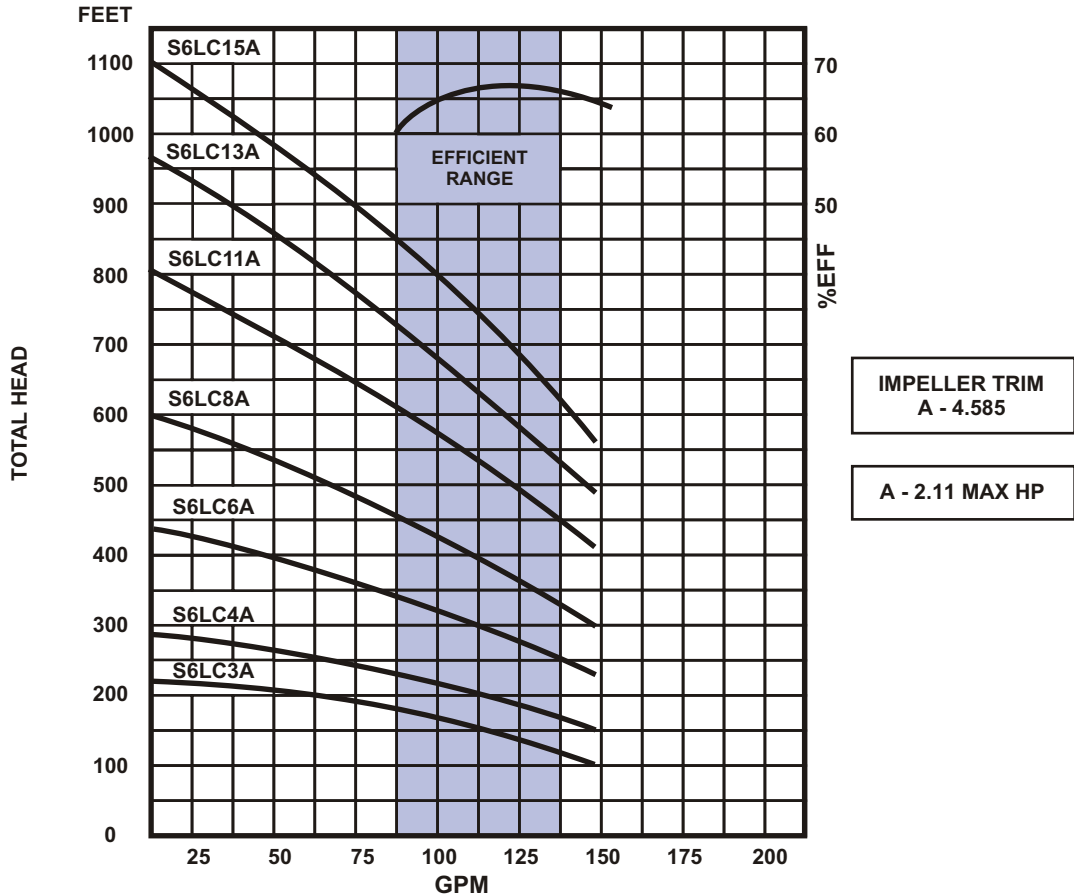
MODEL	HP	STG	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT IN FEET																				SHUT OFF						
				50	75	100	125	150	175	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	FT	PSI			
S6LC3A A = 4.585	5	3	0			145	135	115	77	30															220'	95				
			20		139	118	85	40																						
			40	121	89	45																								
			60	52																										
S6LC4A A = 4.585	7 1/2	4	0				145	131	114	55															294'	127				
			20				133	117	92	60																				
			40		124	119	95	64	31																					
			60	122	100	70	36																							
S6LC6A A = 4.585	10	6	0								136	114	77	33											442'	191				
			20								137	116	81	36																
			40						138	129	117	83	39																	
			60			140	131	120	105	87	42																			
S6LC8A A = 4.585	15	8	0									145	131	114	88	55									589'	255				
			20										132	115	90	57														
			40										133	116	91	58														
			60									134	117	92	59															
S6LC11A A = 4.585	20	11	0													137	127	114	95	73	49			810'	351					
			20													138	128	115	96	74	50									
			40													139	129	116	97	75	51									
			60													140	130	117	98	76	52									
S6LC13A A = 4.585	25	13	0													143	134	125	114	98	81	60		957'	414					
			20													144	135	126	115	99	82	61								
			40													144	135	126	115	99	82	61								
			60													145	136	127	116	100	83	62								
S6LC15A A = 4.585	30	15	0														140	132	124	114	100	86	68	50	1100'	476				
			20															140	132	124	114	100	86	68			50			
			40															141	133	125	115	101	87	69			51			
			60															141	133	125	115	101	87	69			51			



6" SUBMERSIBLE CURVE

S6LC SERIES

100 GPM



GPM - WEIGHT AND LENGTH DATA

MODEL	HP	NO. OF STAGES	PHASE	LENGTH - INCHES		SHIPPING WEIGHT	
				PUMP	MOTOR	PUMP	MOTOR
S6LC3A	5	3	1	25.25	28.2	74	64
			3	25.25	22.2	74	49
S6LC4A	7 ½	4	1	29.25	28.0	88	123
			3	29.25	24.2	88	108
S6LC6A	10	6	1	37.25	30.6	116	141
			3	37.25	25.4	116	116
S6LC8A	15	8	1	45.25	33.1	144	154
			3	45.25	28.0	144	129
S6LC11A	20	11	3	57.25	28.0	186	145
S6LC13A	25	13	3	65.25	30.6	214	156
S6LC15A	30	15	3	73.25	33.1	242	156

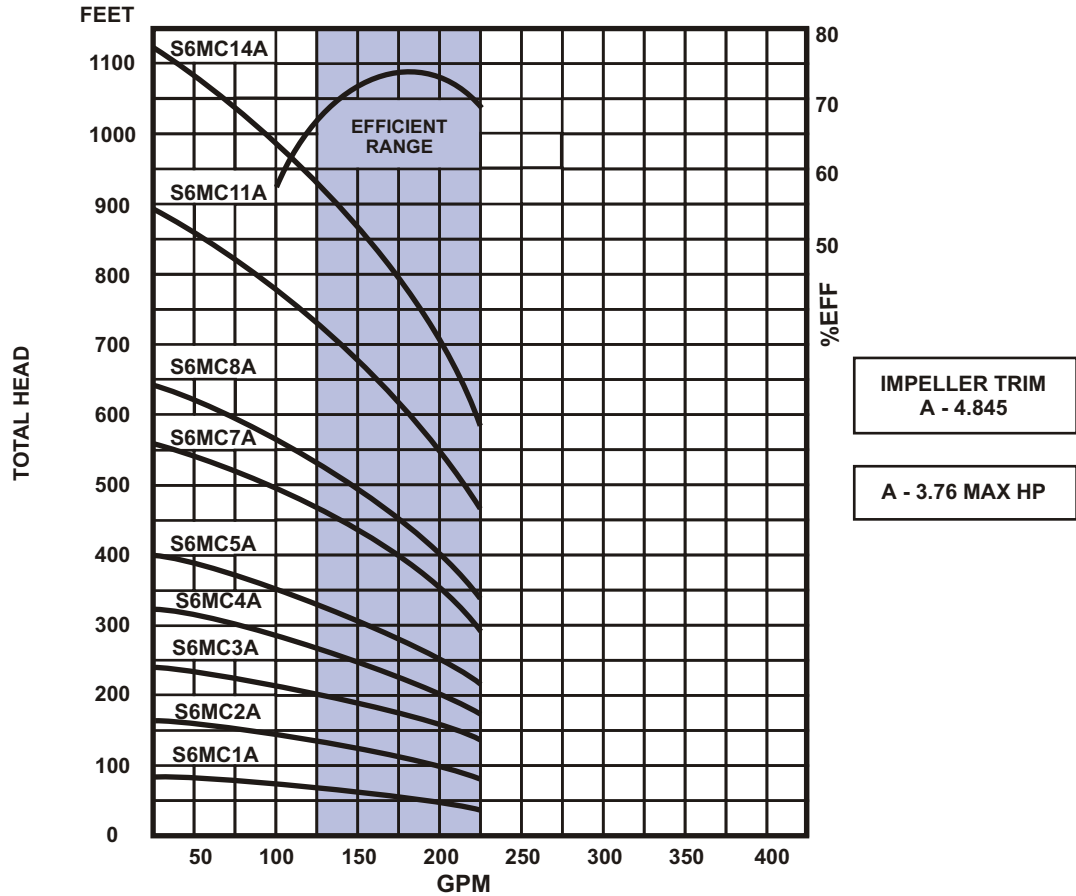
NOTES: DISCHARGE PIPE SIZE IS 3" OR 4" - MUST SPECIFY
CHECK VALVE NOT INCLUDED



6" SUBMERSIBLE CURVE

S6MC SERIES

175 GPM



GPM - WEIGHT AND LENGTH DATA

MODEL	HP	NO. OF STAGES	PHASE	LENGTH - INCHES		SHIPPING WEIGHT	
				PUMP	MOTOR	PUMP	MOTOR
S6MC1A	5	1	1	17.25	28.2	46	64
			3	17.25	22.2	46	49
S6MC2A	7 ½	2	1	21.25	28.0	60	123
			3	21.25	24.2	60	108
S6MC3A	10	3	1	25.25	30.6	74	141
			3	25.25	25.4	74	116
S6MC4A	15	4	1	29.25	33.1	88	154
			3	29.25	28.0	88	129
S6MC5A	20	5	3	33.25	30.6	102	145
S6MC7A	25	7	3	41.25	33.1	130	156
S6MC8A	30	8	3	45.25	35.7	144	174
S6MC11A	40	11	3	57.25	40.8	186	202
S6MC14A	50	14	3	69.25	55.3	228	300

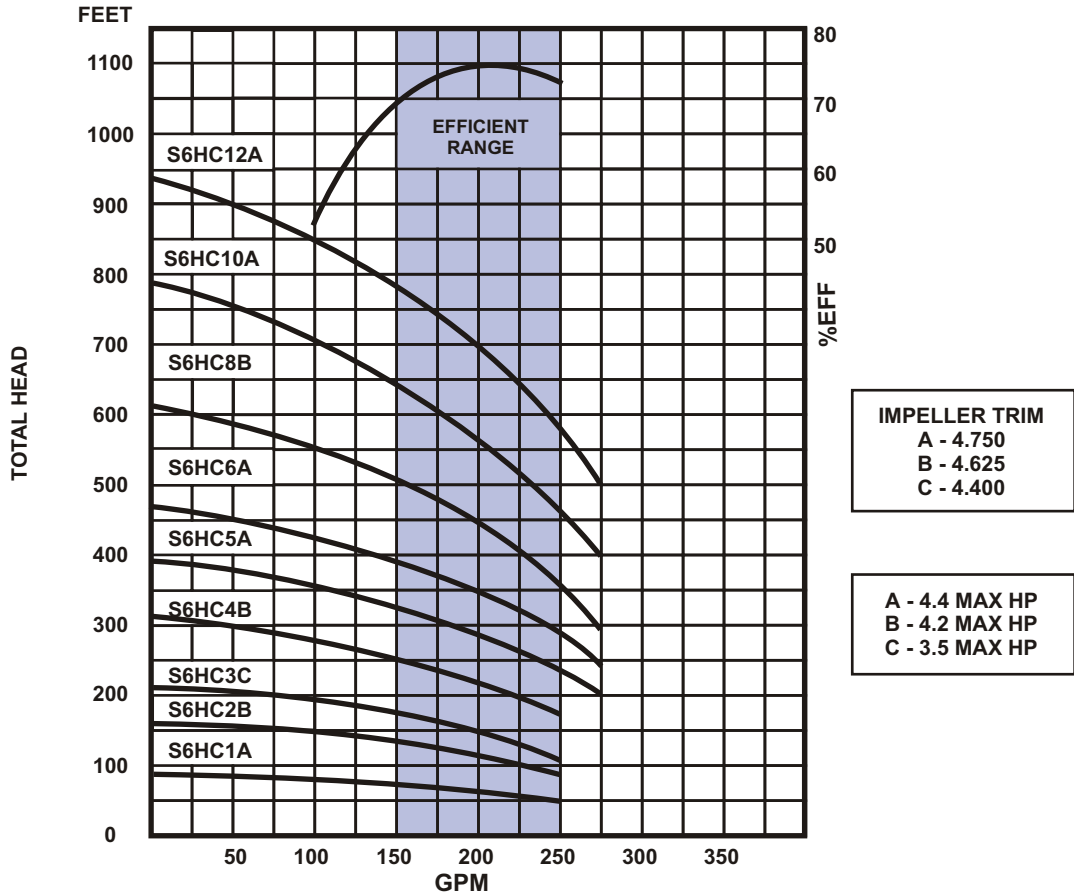
NOTES: DISCHARGE PIPE SIZE IS 3" OR 4" - MUST SPECIFY
CHECK VALVE NOT INCLUDED



6" SUBMERSIBLE CURVE

S6HC SERIES

220 GPM



GPM - WEIGHT AND LENGTH DATA

MODEL	HP	NO. OF STAGES	PHASE	LENGTH - INCHES		SHIPPING WEIGHT	
				PUMP	MOTOR	PUMP	MOTOR
S6HC1A	5	1	1	17.25	28.2	46	64
			3	17.25	22.2	46	49
S6HC2B	7 ½	2	1	21.25	28.0	60	123
			3	21.25	24.2	60	108
S6HC3C	10	3	1	25.25	30.6	74	141
			3	25.25	25.4	74	116
S6HC4B	15	4	1	29.25	33.1	88	154
			3	29.25	28.0	88	129
S6HC5A	20	5	3	33.25	30.6	102	145
S6HC6A	25	6	3	37.25	33.1	116	156
S6HC8B	30	8	3	45.25	35.7	144	174
S6HC10A	40	10	3	53.25	40.8	172	202
S6HC12A	50	12	3	61.25	55.3	200	300

NOTES: DISCHARGE PIPE SIZE IS 3" OR 4" - MUST SPECIFY
 CHECK VALVE NOT INCLUDED



6" SUBMERSIBLE TURBINE

SE6XHC SERIES

400 GPM

CAPACITIES IN U.S. GALLONS PER MINUTE

TOTAL

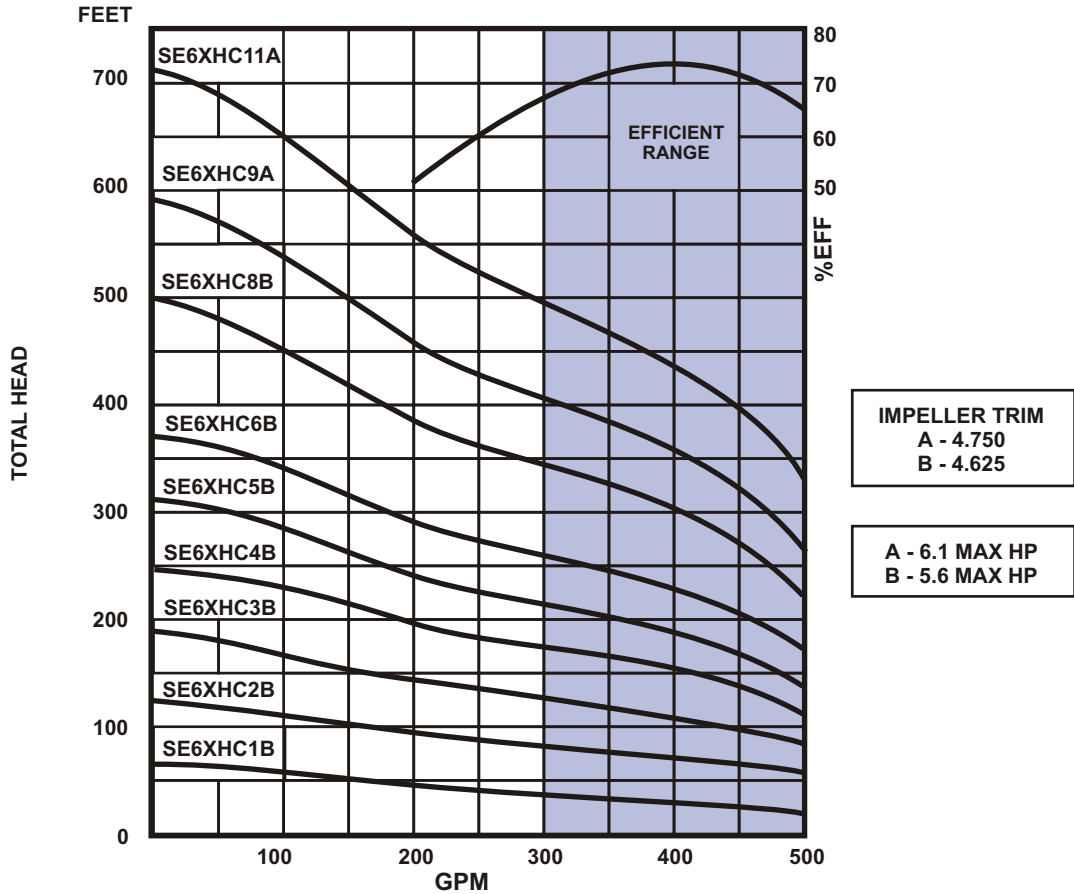
MODEL	HP	STG	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT IN FEET																				SHUT OFF							
				20	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	750	FT	PSI				
SE6XHC1B B = 4.625	5	1	0	533	377	58																					62'	27			
			20																												
			40																												
			60																												
SE6XHC2B B = 4.625	10	2	0	567	533	483	377	176																				125'	54		
			20	457	280	141																									
			40	100																											
			60																												
SE6XHC3B B = 4.625	15	3	0			533	503	454	322	176	78																	187'	81		
			20		491	437	310	192	93																						
			40	412	247	164	86																								
			60	141	62																										
SE6XHC4B B = 4.625	20	4	0			550	533	512	472	413	261	176	103															249'	108		
			20		528	504	470	425	286	188	144																				
			40	494	455	405	274	197	123																						
			60	382	240	179	120																								
SE6XHC5B B = 4.625	25	5	0				547	533	512	484	440	377	237	176	117													312'	135		
			20		536	529	511	488	447	392	250	185	127																		
			40	524	503	478	443	401	265	192	134																				
			60	468	433	456	425	381	255	197	149																				
SE6XHC6B B = 4.625	30	6	0				556	545	531	512	488	454	413	322	226	176	78											374'	162		
			20			541	530	516	492	460	421	347	234	184	135																
			40		526	509	490	464	427	367	241	190	141																		
			60	506	487	456	425	381	255	197	149																				
SE6XHC8B B = 4.625	40	8	0					559	548	538	527	512	494	472	445	413	261	176	103									499'	216		
			20				548	539	529	515	497	477	449	419	375	274	182	108													
			40			536	528	517	499	480	453	423	382	283	223	186															
			60	525	513	499	484	457	429	391	296	230	192	155																	
SE6XHC9A A = 4.75	50	9	0																								591'	256			
			20							530	520	510	500	480	460	440	330	200	130	50											
			40						530	510	500	480	460	440	400	330	200	130	50												
			60					520	500	480	460	440	400	350	270	220	150	70													
SE6XHC11A A = 4.75	60	11	0																								723'	313			
			20									552	545	530	520	510	490	460	400	300	200	150	90								
			40								540	530	510	500	490	480	460	400	300	200	150	90									
			60						530	520	510	490	480	460	440	400	300	200	150	90											



6" SUBMERSIBLE CURVE

SE6XHC SERIES

400 GPM



GPM - WEIGHT AND LENGTH DATA

MODEL	HP	NO. OF STAGES	PHASE	LENGTH - INCHES		SHIPPING WEIGHT	
				PUMP	MOTOR	PUMP	MOTOR
SE6XHC1B	5	1	1	14.8	28.2	60	64
			3	14.8	22.2	60	49
SE6XHC2B	10	2	1	21	30.6	85	141
			3	21	25.4	85	116
SE6XHC3B	15	3	1	27.2	33.1	110	154
			3	27.2	28.0	110	129
SE6XHC4B	20	4	3	33.4	30.6	135	145
SE6XHC5B	25	5	3	39.6	33.1	160	156
SE6XHC6B	30	6	3	45.7	35.7	185	174
SE6XHC8B	40	8	3	58.1	40.8	235	202
SE6XHC9A	50	9	3	64.3	55.3	260	300
SE6XHC11A	60	11	3	76.7	61.3	310	330

NOTES: DISCHARGE PIPE SIZE IS 4".
CHECK VALVE NOT INCLUDED



8" SUBMERSIBLE TURBINE

S8LC SERIES

600 GPM

CAPACITIES IN U.S. GALLONS PER MINUTE

TOTAL

MODEL	HP	STG	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT IN FEET																				SHUT OFF								
				20	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	750	FT	PSI					
S8LC1D D = 5.250	10	1	0	748	637	491	302																			99'	43					
			20	443	217																											
			40																													
			60																													
S8LC1A A = 5.688	15	1	0	845	753	638	487	262																		116'	50					
			20	595	463	165																										
			40																													
			60																													
S8LC2D D = 5.250	20	2	0		748	694	637	570	471	358	195															198'	85					
			20	678	618	547	467	377	224																							
			40	519	439	343	209																									
			60	308	165																											
S8LC2B B = 5.538	25	2	0		813	765	716	659	572	473	352															220'	95					
			20	750	699	640	568	490	374	204																						
			40	617	541	461	363	227																								
			60	436	328	181																										
S8LC3D D = 5.250	30	3	0			765	712	676	626	570	505	438	358	256												298'	129					
			20	737	701	665	581	515	449	371	275																					
			40	652	609	562	510	457	380	290																						
			60	547	494	441	377	306	187																							
S8LC3A A = 5.688	40	3	0			845	815	784	746	700	650	590	527	459	374	260										348'	151					
			20		805	774	744	707	659	600	538	471	390	284	149																	
			40	764	732	694	655	607	546	479	401	299	165																			
			60	683	641	593	543	490	417	317	187																					
S8LC4A A = 5.688	50	4	0				845	822	793	765	735	700	663	621	575	527	423	262								464'	201					
			20		893	815	792	769	741	705	669	628	582	535	485	432	278															
			40	807	784	761	738	710	674	633	588	541	491	438	370	290																
			60	754	729	701	672	640	595	549	499	447	382	305	205																	
S8LC5B B = 5.538	60	5	0					813	789	765	740	716	688	659	627	591	514	432	322	173						551'	239					
			20			807	788	768	744	720	692	664	632	597	559	520	438	332														
			40	801	781	762	742	723	696	667	636	602	564	525	485	443	339															
			60	756	737	717	695	672	642	608	570	531	492	450	403	348																
*S8LC6B B = 5.538	75	6	0						831	811	791	772	752	732	709	686	635	574	510	442	356	244				690'	299					
			20					814	795	775	755	735	713	689	666	639	579	515	448	363	254											
			40				809	793	777	757	738	716	692	669	642	614	583	519	452	368	261											
			60	804	788	772	757	741	720	696	673	647	618	588	556	524	457	376	271													

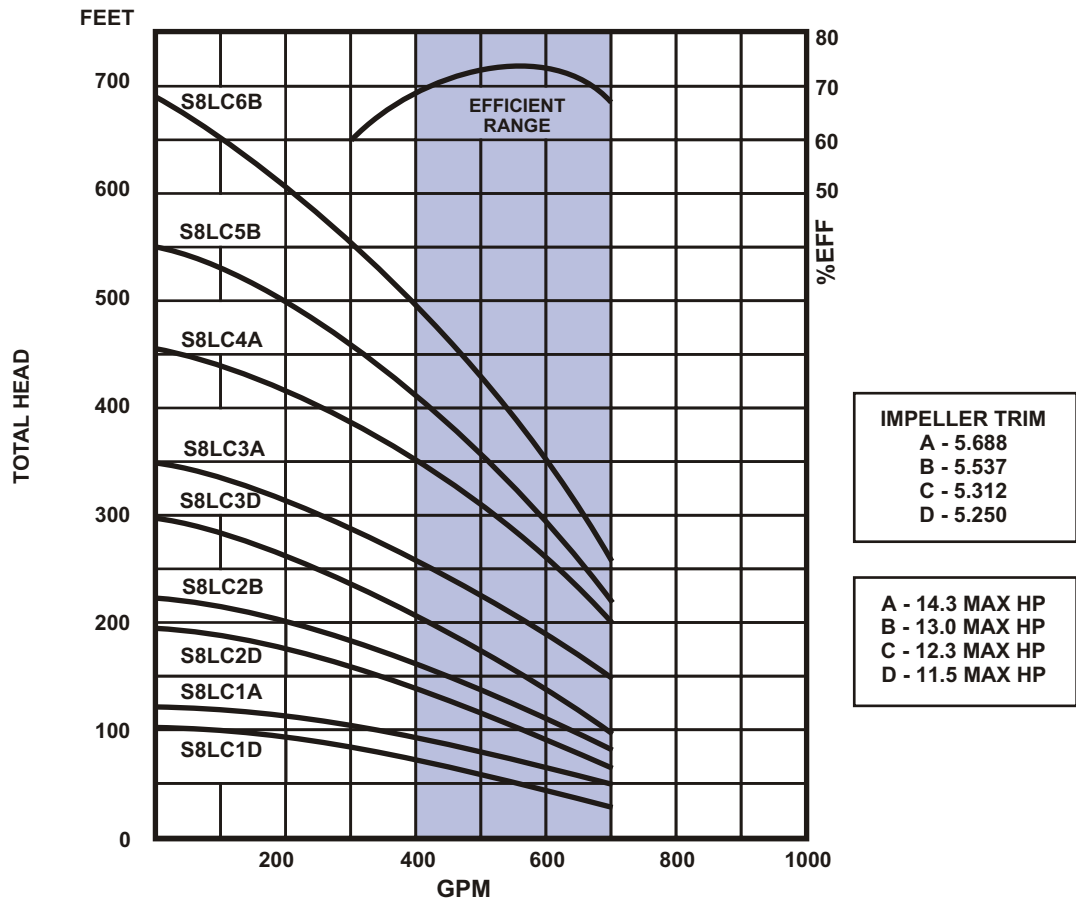
*8" MOTOR REQUIRED



8" SUBMERSIBLE CURVE

S8LC SERIES

600 GPM



GPM - WEIGHT AND LENGTH DATA

MODEL	HP	NO. OF STAGES	PHASE	LENGTH - INCHES		SHIPPING WEIGHT	
				PUMP	MOTOR	PUMP	MOTOR
S8LC1D	10	1	1	27.75	30.6	115	141
			3	27.75	25.4	115	116
S8LC1A	15	1	1	27.75	33.1	115	154
			3	27.75	28.0	115	129
S8LC2D	20	2	3	34.50	30.6	150	145
S8LC2B	25	2	3	34.50	33.1	150	156
S8LC3D	30	3	3	41.25	35.7	185	174
S8LC3A	40	3	3	41.25	40.8	185	202
S8LC4A	50	4	3	48.00	55.3	220	300
S8LC5B	60	5	3	54.75	61.3	225	330
S8LC6B	75*	6	3	61.5	48.0	290	445

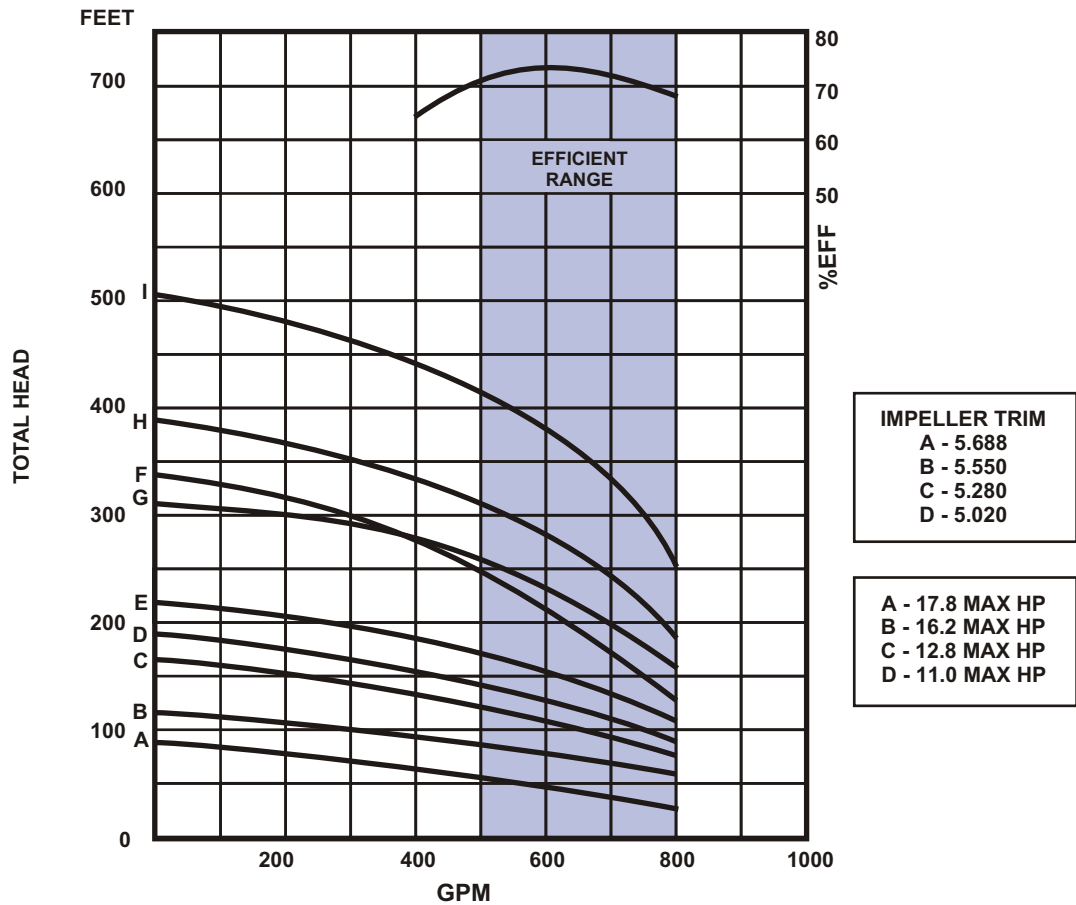
NOTES: *8" MOTOR REQUIRED. DISCHARGE PIPE SIZE IS 5" OR 6" - MUST SPECIFY.
 CHECK VALVE NOT INCLUDED



8" SUBMERSIBLE CURVE

S8HC SERIES

700 GPM



GPM - WEIGHT AND LENGTH DATA

CURVE	MODEL	HP	NO. OF STAGES	PHASE	LENGTH - INCHES		SHIPPING WEIGHT	
					PUMP	MOTOR	PUMP	MOTOR
A	S8HC1D	10	1	1	27.75	30.6	115	141
				3	27.75	25.4	115	116
B	S8HC1A	15	1	1	27.75	33.1	115	154
				3	27.75	28.0	115	129
C	S8HC2D	20	2	3	34.50	30.6	150	145
D	S8HC2C	25	2	3	34.50	33.1	150	156
E	S8HC2A	30	2	3	34.50	35.7	150	174
F	S8HC4D	40	4	3	48.00	40.8	220	202
G	S8HC3A	50	3	3	41.25	55.3	185	300
H	S8HC4B	60	4	3	54.75	61.3	225	330
I	S8HC5A	75*	5	3	61.50	48.0	290	445

NOTES: *8" MOTOR REQUIRED. DISCHARGE PIPE SIZE IS 5" OR 6" - MUST SPECIFY.
 CHECK VALVE NOT INCLUDED



8" SUBMERSIBLE TURBINE

SJ8XHC SERIES

1100 GPM

CAPACITIES IN U.S. GALLONS PER MINUTE

TOTAL

MODEL	HP	STG	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT IN FEET																				SHUT OFF						
				20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	FT	PSI			
SJ8HC1E J8HC 5.70	15	1	0	1100	1020	625	125																				85'	36		
			20	500																										
			40																											
			60																											
SJ8XHC1D D = 5.60	20	1	0		1300	940	524	100																			106'	46		
			20	822	391																									
			40																											
			60																											
SJ8XHC1C C = 6.00	25	1	0			1200	838	411																			121'	52		
			20	1096	718	280																								
			40	136																										
			60																											
SJ8XHC1A A = 6.625	30	1	0			1591	1352	1014	601																		148'	64		
			20		1258	897	463																							
			40	761	303																									
			60																											
SJ8XHC2D D = 5.60	40	2	0				1233	1050	846	635	407															200'	86			
			20		1190	989	785	567	339																					
			40	917	714	487	259																							
			60	419																										
SJ8XHC2C C = 6.00	50	2	0				1363	1199	1029	838	631	411														240'	103			
			20			1319	1148	974	780	565	346																			
			40	1259	1088	906	707	488																						
			60	848	642	422																								
SJ8XHC2A A = 6.625	60	2	0					1591	1482	1352	1193	1014	818	601	372											296'	128			
			20				1564	1445	1307	1144	955	761	532	303																
			40	1619	1526	1401	1250	1080	887	681	452																			
			60	1359	1201	1023	828	612	383																					
*SJ8XHC3B B = 6.375	75	3	0						1506	1436	1346	1244	1132	1023	895	765	622	476	330								391'	169		
			20				1487	1411	1317	1210	1099	986	857	724	578	432														
			40			1462	1378	1283	1171	1061	941	812	673	527	381															
			60	1439	1350	1249	1138	1028	902	772	629	483	337																	
*SJ8XHC4B B = 6.375	100	4	0											1473	1416	1346	1271	1188	1105	1023	928	831	731	622	348	521'	226			
			20						1507	1456	1329	1246	1163	1080	995	899	802	698	589	480										
			40				1491	1437	1370	1300	1217	1133	1051	961	865	767	660	551	441											
			60			1476	1420	1349	1276	1192	1109	1027	932	836	736	627	518	409												

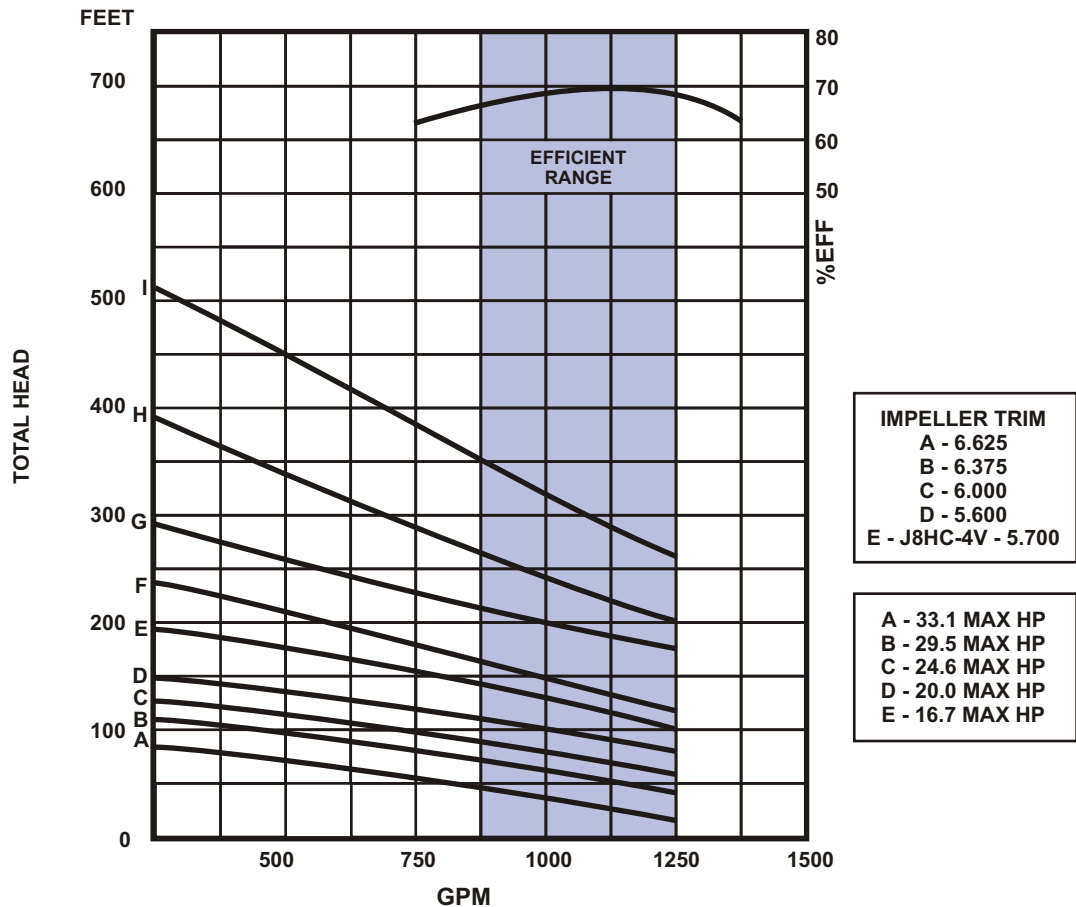
NOTE: OVERALL DIMENSIONS ARE 8.13" - A 10" WELL IS REQUIRED
*8" MOTOR REQUIRED



8" SUBMERSIBLE CURVE

SJ8XHC SERIES

1100 GPM



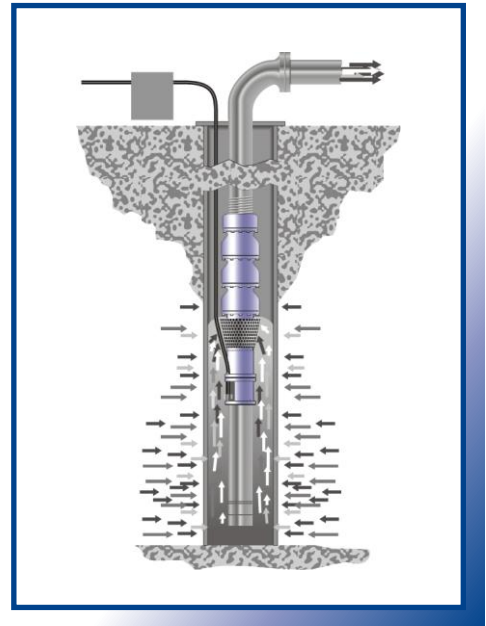
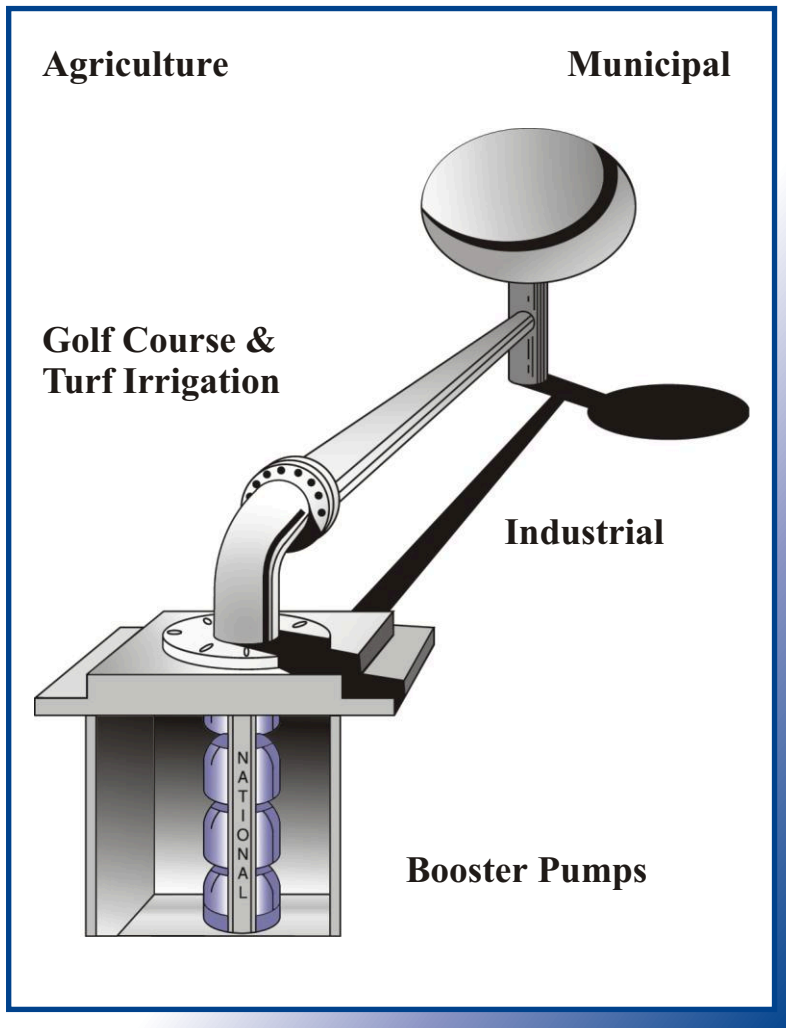
GPM - WEIGHT AND LENGTH DATA

CURVE	MODEL	HP	NO. OF STAGES	PHASE	LENGTH - INCHES		SHIPPING WEIGHT	
					PUMP	MOTOR	PUMP	MOTOR
A	SJ8XHC1E	15	1	1	24.0	33.1	85	154
				3	24.0	28.0	85	129
B	SJ8XHC1D	20	1	3	24.0	30.6	85	145
C	SJ8XHC1C	25	1	3	24.0	33.1	85	156
D	SJ8XHC1A	30	1	3	24.0	35.7	85	174
E	SJ8XHC2D	40	2	3	32.8	40.8	130	202
F	SJ8XHC2C	50	2	3	32.8	55.3	130	300
G	SJ8XHC2A	60	2	3	32.8	61.3	160	330
H	SJ8XHC3B	75*	3	3	41.7	48.0	175	445
I	SJ8XHC4B	100*	4	3	50.6	55.5	220	530

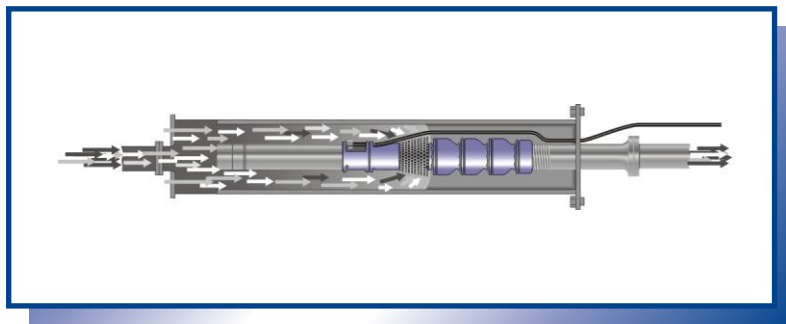
NOTES: *8" MOTOR REQUIRED. DISCHARGE PIPE SIZE IS 6"
 CHECK VALVE NOT INCLUDED

Betta FLO

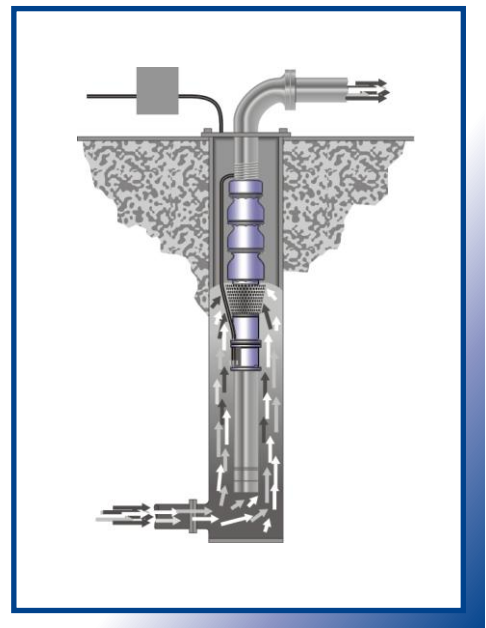
6" & LARGER SUBMERSIBLE PUMP PRODUCT



Vertical Deep Well Submersible Pump



Horizontal In-Line Booster Pump



Vertical Booster Pump

SUBMERSIBLE PUMPS 6" AND LARGER

Ideal for commercial, industrial, agricultural and municipal applications, National's submersible pumps are designed to provide trouble-free operation over a long working life. They are capable of producing capacities to 12,500 GPM, with heads up to 1,440 feet. All 6" pumps are threaded construction; 7" - 24" pumps are flanged construction. Cast iron enameled bowls combined with precision balanced bronze impellers give the highest efficiency and performance possible. Motor brackets are designed to accept all NEMA flanged motors. Special material construction is available upon request.

SUBMERSIBLE PUMPS ARE USED IN MANY VARYING APPLICATIONS.

Vertical Deep Well Pumps can be used where shaft elongation problems are created by very deep settings or when the well is not straight.

Vertical Booster Pumps can be installed in open sumps for many applications where flooding can be a threat to surface mounted motors, where space is at a minimum and where appearance prohibits surface installations.

Horizontal In-Line Booster Pumps work efficiently to provide constant added pumping pressure that may be required in the line. They may be installed at any angle.

We look forward to developing a strong relationship of trust with you through high professional standards and reliable customer service. We would like the opportunity to assist you in achieving your goals and objectives. Before you design your next pumping system, talk with a National Pump expert and take advantage of the knowledge and experience we have to offer.



National Keeps You Pumping Around the World

At National Pump, pump and pump systems technology is our business. From principals and engineers to sales and service personnel, our key staff members have more than two centuries of combined industry experience. We want to help you achieve your goals and objectives, and we're big enough to meet your needs, yet small enough to provide the one-to-one service you deserve.

At every stage of our work, from research and development to design, production and testing, we use up-to-the-minute technologies and the most modern equipment available to ensure that every National Pump meets the highest possible standards of efficiency and reliability. Using conventional or special materials, we manufacture pumps for specific needs and conditions.

From the plains of Texas to the deserts of Saudi Arabia, from gold mines to golf courses to municipal water systems, our pumps are hard at work around the world serving commercial, industrial, municipal, residential, mining and irrigation needs. Each National Pump produced is an individual pumping system designed to do a specific pumping job. Precisely matched discharge heads, impellers, bowls and column/tubeline assemblies deliver consistent pumping capacity.

We offer a full range of vertical turbine and submersible pumps, water or oil lubricated, of threaded or flanged construction, with capacities to 12,500 GPM and heads up to 1,440 feet. All pump models are in stock as standard materials, and they can be customized at the service center level. We also manufacture custom pumps, using special alloys and coatings to suit your specific needs. We have multiple patterns in order to meet special alloy requirements in a timely manner.

Even more important is the service we provide. We will be happy to provide pre-design information to help you develop the most efficient pumping system for your customer's needs. Whatever your application, we know that having equipment down causes unacceptable delays — so each of our offices is a complete service / warehouse / assembly / finishing center.

They're strategically located throughout the United States and staffed by experienced managers who are all field engineers, ready to help solve your problems on the phone or on site. No matter what brand of pump you have, when you need service, you get it now-not a two month delay while parts are ordered, or a several-day wait for a visit from service personnel.

Before you design your next pumping system, talk with a National Pump expert and take advantage of the knowledge and experience we have to offer. We're convinced you won't find better quality or service anywhere!



N^{PC} NATIONAL PUMP COMPANY LLC
Delivering Pumps and Pump Systems
Reliability, Dependability
and Services Since 1969

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