

Submersible Pumps

6" High Capacity Pump - Features



FPS4400

6" High Capacity Pumps

Ideal for farm, home, irrigation, industry, municipal and commercial applications, equipped with the power, performance, and reliability you expect from Franklin Electric.

Flow ratings of 50, 75, 100, and 125 gpm with TDH up to 1200 ft.

Horsepower ranges from 1-1/2 to 40 hp.

Features:

- Heavy-duty stainless steel discharge head and motor bracket.
- Stainless steel shaft, shell, intake screen, and cable guard provides corrosion resistance and longer pump life.
- Glass-filled Noryl® impeller stage assemblies provide exceptional strength and durability.
- Ceramic shaft sleeve and rubber discharge bearing minimizes bearing wear and shaft misalignment.
- 3" NPT heavy-duty stainless steel discharge head.
- Modular motor bracket enabling 4" or 6" motor mount for 5-10 hp units.
- One year unconditional warranty against failure from sand locking in abrasive well conditions.

Noryl® is a registered trademark of G.E.

Submersible Pumps

6" High Capacity Pumps - Ordering Information

Stainless Steel Ordering Information

6" Pump Ends							
GPM	HP	Stages	Motor Fit	Ordering Info.		Dimensions	Wt.
				Model No.	Order No.	Pump End Only	
50	1.5	3	4"	50FA1S6-PE	94825003	13.51	30
	2	4	4"	50FA2S6-PE	94825004	15.13	31
	3	5	4"	50FA3S6-PE	94825005	16.76	32
	5	8	4" & 6"	50FA5S6-PE	94825008	21.63	36
	7.5	11	4" & 6"	50FA7S6-PE	94825011	26.51	40
	10	15	4" & 6"	50FA10S6-PE	94825015	32.94	46
	15	22	4" & 6"	50FA15S6-PE	94825022	47.64	54
75	3	3	4"	75FA3S6-PE	94827503	13.51	30
	5	5	4" & 6"	75FA5S6-PE	94827505	16.76	32
	7.5	7	4" & 6"	75FA7S6-PE	94827507	20.01	35
	10	9	4" & 6"	75FA10S6-PE	94827509	23.26	38
	15	13	6"	75FA15S6-PE	94827513	29.76	43
	20	17	6"	75FA20S6-PE	94827517	36.19	48
	25	23	6"	75FA25S6-PE	94827523	46.00	54
100	5	3	4" & 6"	100FA5S6-PE	94820003	14.62	30
	7.5	5	4" & 6"	100FA7S6-PE	94820005	18.51	32
	10	6	4" & 6"	100FA10S6-PE	94820006	20.49	34
	15	9	6"	100FA15S6-PE	94820009	26.31	38
	20	13	6"	100FA20S6-PE	94820013	34.07	43
	25	16	6"	100FA25S6-PE	94820016	39.94	47
125	5	2	4" & 6"	125FA5S6-PE	94822502	12.94	29
	7.5	3	4" & 6"	125FA7S6-PE	94822503	15.05	30
	10	4	4" & 6"	125FA10S6-PE	94822504	17.13	31
	15	7	6"	125FA15S6-PE	94822507	23.37	35
	20	9	6"	125FA20S6-PE	94822509	27.54	38
	25	11	6"	125FA25S6-PE	94822511	31.70	40
	30	13	6"	125FA30S6-PE	94822513	35.87	43
	40	18	6"	125FA40S6-PE	94822518	46.27	48

Notes: All dimensions are in inches. Discharge is 3" NPT.

Maximum diameter across cable guard is 5.5" on all models. Weight in pounds.

Submersible Pumps

6" High Capacity Pumps - 50 GPM

Capacities in U.S. Gallons per Minute

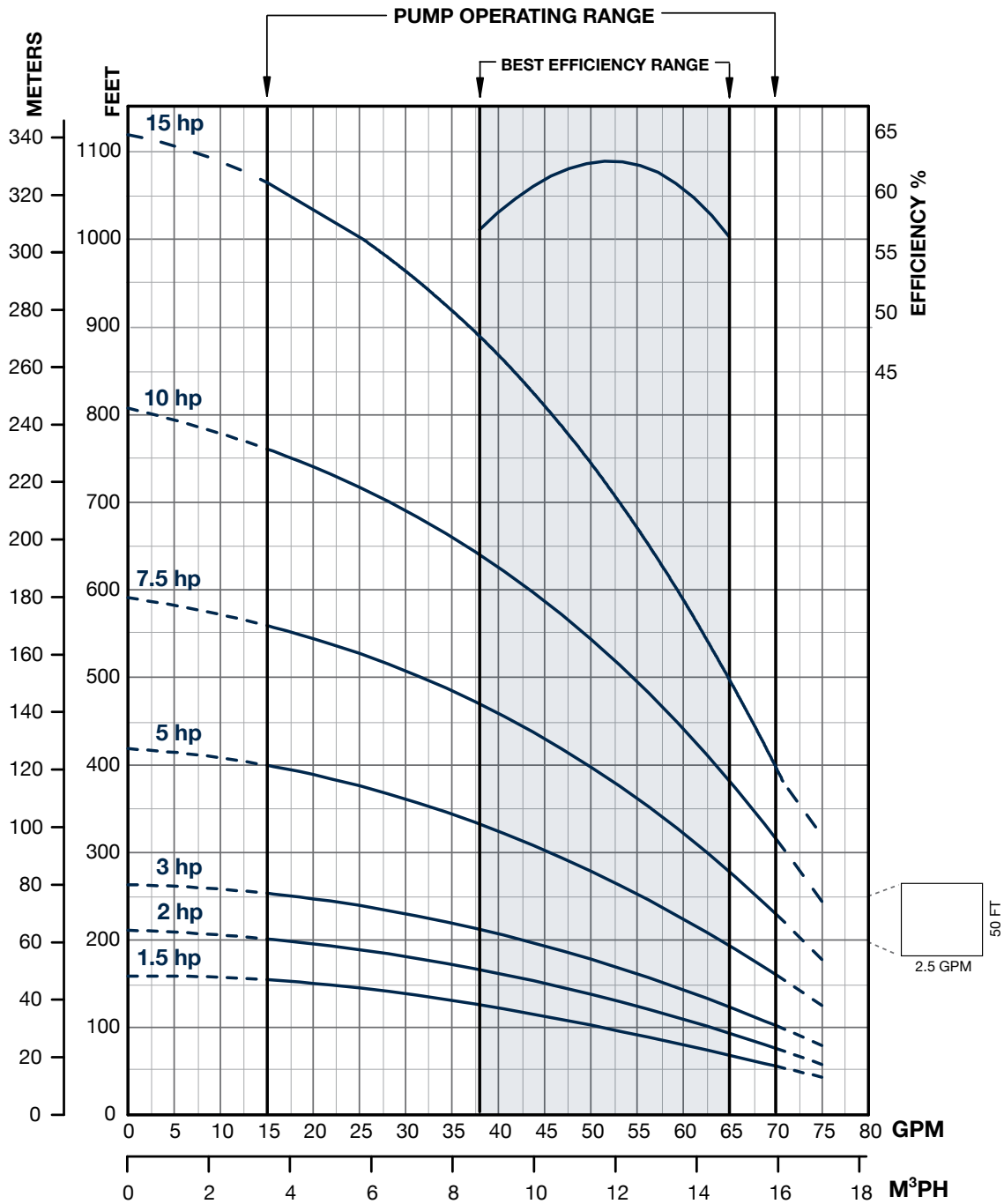
HP	PSI	Depth to Pumping Water Level, or Lift, in Feet. Shaded Areas Indicate Most Efficient Performance																					
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550					
1.5	0			68	61	51	41	30											Shut-off 158 ft				
	20	66	58	47	38	25																	
	30	56	46	37	21																		
	40	44	35	16																			
	50	33																					
Shut-off PSI		60	51	43	34	25	17	8															
2	0				69	63	57	49	41	31	16								Shut-off 211 ft				
	20		67	62	54	46	38	27															
	30	67	60	53	45	37	25																
	40	59	52	44	35	23																	
	50	51	42	34	20																		
	60	41	32	17																			
Shut-off PSI		83	74	65	57	48	39	31	22	13	5												
3	0					70	66	61	55	49	42	17							Shut-off 263 ft				
	20			69	65	60	53	47	40	33	21												
	30		68	64	59	52	46	39	31	18													
	40	68	63	58	51	45	38	30	15														
	50	63	57	50	44	37	28																
Shut-off PSI		105	97	88	79	71	62	53	45	36	27	6											
5	0								70	67	64	55	45	34					Shut-off 418 ft				
	20						69	66	63	60	56	46	35	16									
	30					69	66	63	59	56	51	41	28										
	40				68	66	62	59	55	51	47	36	18										
	50		70	68	65	62	58	54	50	46	42	29											
	60	70	67	65	61	58	54	50	45	41	37	20											
Shut-off PSI		173	164	155	147	138	129	121	112	103	95	73	51	30									
7.5	0											68	63	57	49	42	32	18	Shut-off 591 ft				
	20									70	68	63	57	50	42	33	19						
	30								70	68	66	60	54	47	38	27							
	40							70	68	66	64	58	51	43	34	21							
	50						69	67	65	63	61	54	47	39	28								
Shut-off PSI		247	239	230	221	213	204	195	187	178	169	148	126	104	83	61	39	18					
HP	PSI	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750					
10	0									68	64	59	54	49	43	37	28	18	Shut-off 808 ft				
	20								68	64	60	55	50	44	37	29	19						
	30							70	66	62	57	52	47	41	34	25							
	40							68	64	60	55	50	44	38	30	20							
	50						70	66	62	58	53	47	41	34	26								
	60					70	68	65	60	56	50	45	38	31	21								
Shut-off PSI		306	298	289	281	272	263	242	220	198	177	155	133	112	90	68	47	25					
HP	PSI	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	800	
15	0								80	78	76	74	72	70	68	65	62	59	56	53	49	46	Shut-off 1129 ft
	20						79	78	77	76	74	72	70	68	65	62	59	56	53	50	46	42	
	40			80	79	78	77	76	75	74	72	70	68	65	63	60	57	53	50	46	43	38	
	60	80	78	77	76	76	75	74	73	72	70	68	66	63	60	57	54	50	47	43	39	34	
	80	77	76	75	75	74	73	72	71	71	68	66	63	60	57	54	50	47	43	39	34	29	
	100	75	74	73	73	72	71	70	69	68	66	63	60	57	54	51	47	43	39	35	29	22	
	120	73	72	72	71	70	69	68	67	66	64	61	58	54	51	47	44	40	35	30	23	14	
	140	71	71	70	69	68	67	66	65	64	61	58	55	51	48	44	40	36	30	23	14	3	
	160	67	66	65	64	62	62	61	59	58	55	52	48	45	41	36	31	24	16	5			
Shut-off PSI									411	402	380	359	337	315	294	272	250	229	207	186	164	142	

Discharge 3" NPT.

- Notes:** 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

6" High Capacity Pumps - 50 GPM



Submersible Pumps

6" High Capacity Pumps - 75 GPM

Capacities in U.S. Gallons per Minute

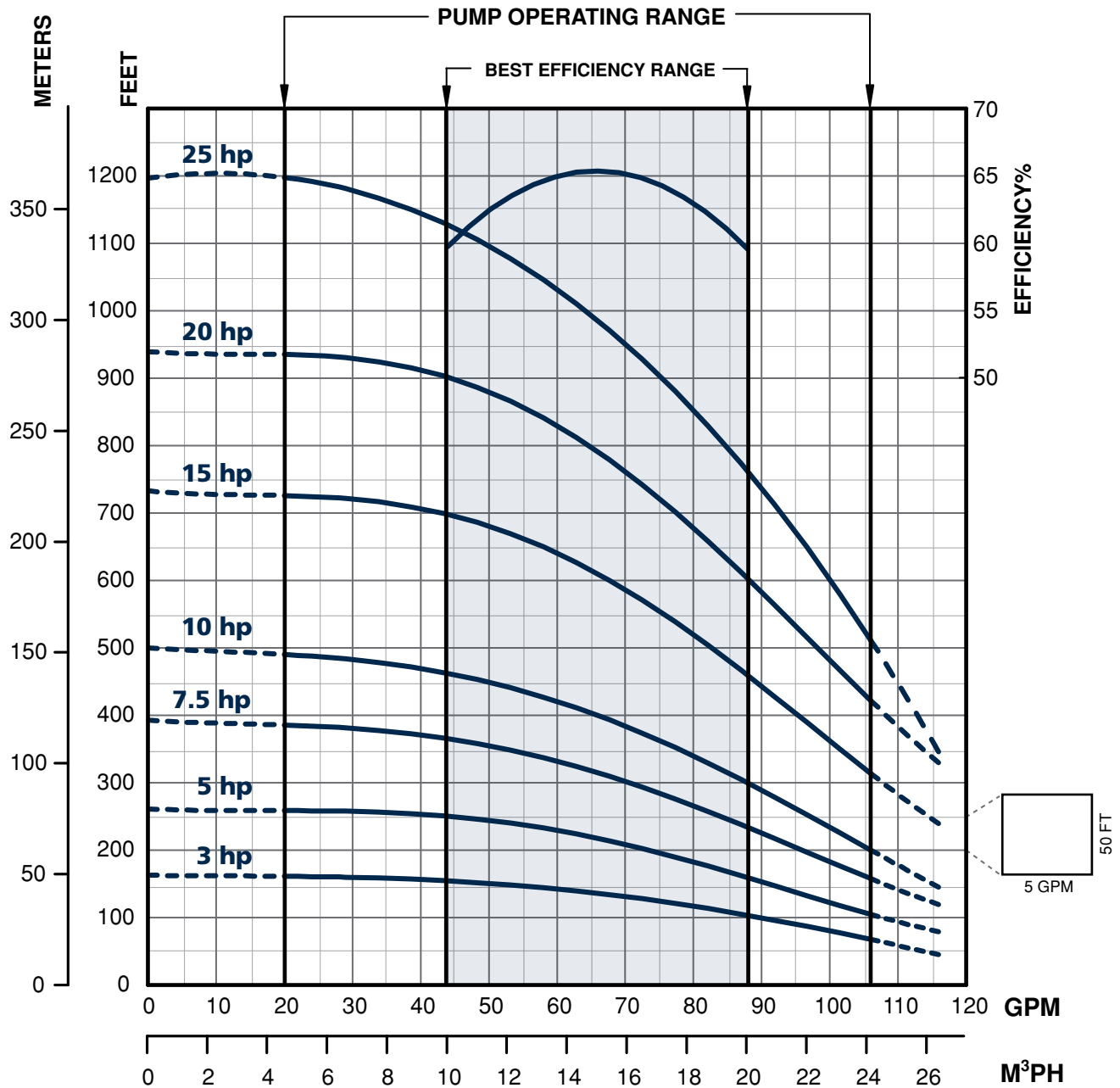
HP	PSI	Depth to Pumping Water Level, or Lift, in Feet. Shaded Areas Indicate Most Efficient Performance																				
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550				
3	0			108	101	89	77	64	26										Shut-off 162 ft			
	20	106	98	85	73	57																
	30	96	83	72	53																	
	40	81	70	47																		
	50	68	40																			
Shut-off PSI		61	53	44	35	27	18	9	1													
5	0				116	106	102	96	88	79	73	41							Shut-off 259 ft			
	20		112	105	100	93	85	77	71	64	47											
	30	110	104	99	92	84	76	70	63	43												
	40	103	98	91	82	75	69	61	37													
	50	97	89	81	74	68	58	31														
	60	88	80	73	67	56	24															
Shut-off PSI		103	95	86	77	69	60	51	43	34	25	4										
7.5	0					116	109	105	101	97	83	70	54						Shut-off 387 ft			
	20				114	108	104	100	96	90	85	71	56									
	30			112	107	103	99	95	89	84	78	65	40									
	40		111	106	103	99	94	88	83	77	72	57										
	50	111	106	102	98	93	88	82	76	71	66	43										
	60	105	102	97	92	87	81	76	71	65	59											
Shut-off PSI		159	150	142	133	124	116	107	98	90	81	59	38	16								
10	0							112	109	106	98	88	77	66	50				Shut-off 493 ft			
	20					116	111	108	105	102	99	89	78	67	52							
	30				115	111	107	104	101	98	94	84	73	61	39							
	40			114	110	107	104	101	98	94	89	78	68	54	18							
	50		114	109	106	104	100	97	93	89	84	74	63	42								
	60	113	109	106	103	100	96	92	88	84	79	69	55	22								
Shut-off PSI		205	196	187	179	170	161	153	144	135	127	105	84	62	40	19						
HP	PSI	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	
15	0						114	107	102	97	89	81	74	68	60	41						Shut-off 727 ft
	20					115	107	103	97	90	82	75	69	61	43							
	30				114	110	105	100	94	86	78	72	66	55	28							
	40			113	110	107	103	98	90	82	75	69	62	45								
	50		113	109	107	105	101	95	87	79	73	66	56	31								
	60	112	109	107	105	103	98	91	83	76	70	63	47									
Shut-off PSI		263	254	245	237	228	206	185	163	142	120	98	77	55	33	12						
20	0								113	107	103	100	94	88	82	76	71	66	58	43		Shut-off 936 ft
	20							113	107	104	100	95	89	82	76	72	67	59	44			
	30						110	106	102	98	92	86	79	74	69	64	54	33				
	40					114	108	104	100	95	89	83	77	72	67	60	46					
	50					110	106	102	98	93	86	80	74	70	64	55	35					
	60				115	108	104	101	96	90	83	77	72	67	61	47						
Shut-off PSI		353	345	336	327	319	297	275	254	232	210	189	167	145	124	102	80	59	37	15		
HP	PSI	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	
25	0			116	112	109	107	104	101	97	93	89	84	79	75	70	65	59	50	38	19	Shut-off 1202 ft
	20		116	112	109	107	104	101	98	93	89	84	80	75	70	65	59	51	39	21		
	30		114	111	108	106	103	100	96	91	87	82	78	73	68	63	56	46	31			
	40		112	109	107	104	101	98	94	89	85	80	75	71	66	60	51	40	23			
	50	114	111	108	106	103	100	96	92	87	83	78	73	69	63	56	47	33				
	60	113	110	107	105	102	98	94	90	85	80	76	71	66	60	52	41	24				
Shut-off PSI		412	391	369	347	326	304	283	261	239	218	196	174	153	131	109	88	66	44	23	1	

Discharge 3" NPT.

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

6" High Capacity Pumps - 75 GPM



Submersible Pumps

6" High Capacity Pumps - 100 GPM

Capacities in U.S. Gallons per Minute

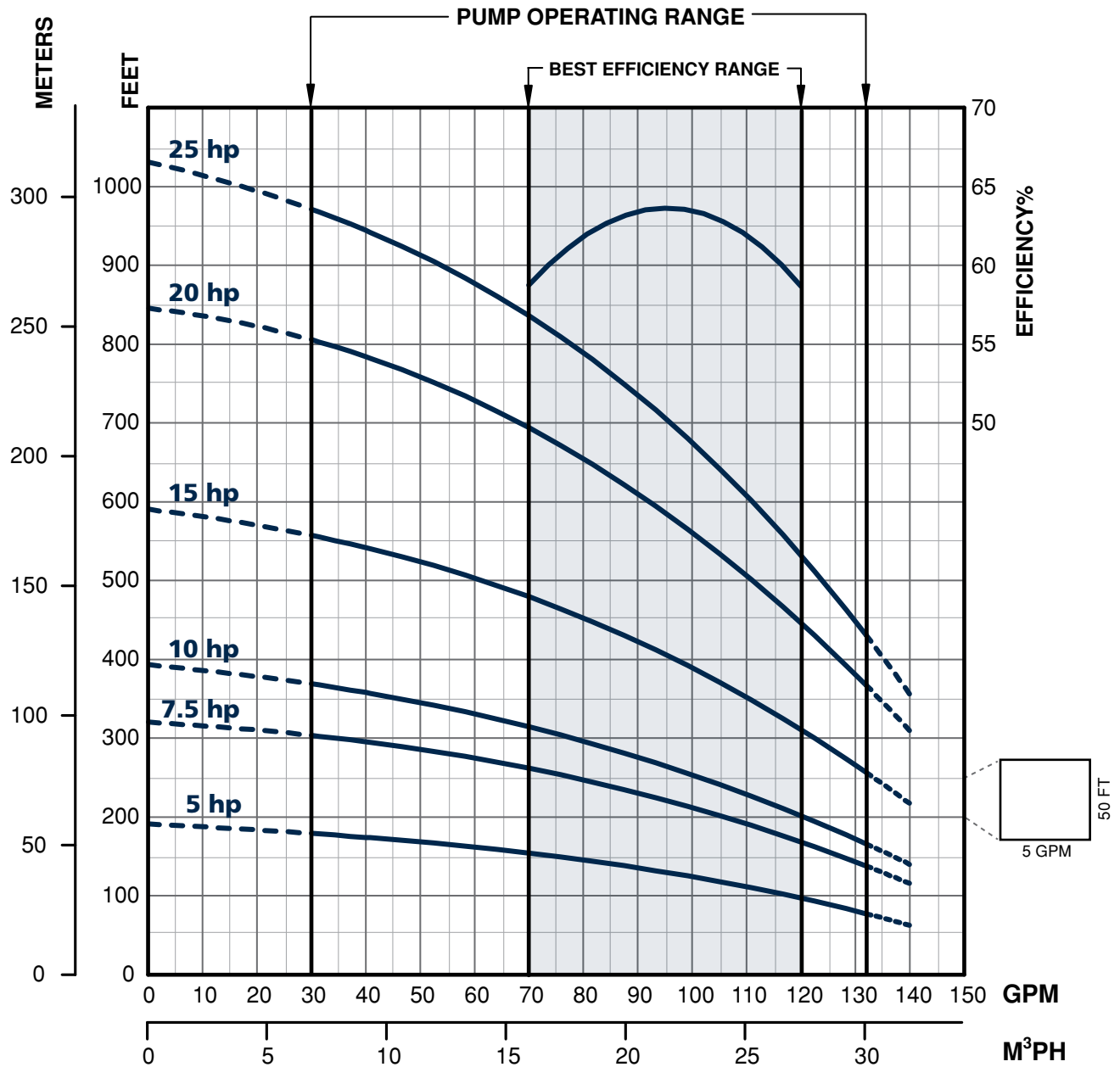
HP	PSI	Depth to Pumping Water Level, or Lift, in Feet. Shaded Areas Indicate Most Efficient Performance																	
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	
5	0				130	119	104	85	62										Shut-off 191 ft
	20		127	115	98	78	54												
	30	125	112	95	75	49													
	40	110	92	71	44														
	50	89	68	38															
	60	64	32																
	70																		
Shut-off PSI		74	65	57	48	39	31	22	13										
7.5	0							131	123	115	107	79	32						Shut-off 320 ft
	20					129	121	113	104	93	82	37							
	30				127	120	111	102	92	79	64								
	40			126	118	110	101	90	77	62	42								
	50		125	117	109	99	88	75	59	38									
	60	124	116	107	97	86	73	56	34										
	70	115	106	96	84	71	53	30											
Shut-off PSI		130	121	113	104	95	87	78	69	61	52	30	9						
10	0									127	121	102	79	45					Shut-off 1393 ft
	20						132	125	118	111	104	81	48						
	30					131	124	117	110	102	94	67	28						
	40				130	123	116	109	101	92	83	51							
	50			129	122	115	108	100	91	81	70	31							
	60		128	121	114	107	99	90	79	68	54								
	70	127	120	113	105	97	88	78	66	52	35								
Shut-off PSI		161	153	144	135	127	118	110	101	92	84	62	40	19					
15	0											123	111	98	82	61	32		Shut-off 590 ft
	20											123	112	99	83	62	34		
	30										129	118	107	93	74	51			
	40								132	128	124	113	101	85	64	37			
	50							132	128	124	119	108	94	76	53				
	60					131	127	123	119	114	102	86	66	39					
	70					130	126	122	118	113	109	95	78	55					
Shut-off PSI		247	238	229	221	212	204	195	186	178	169	147	126	104	82	61	39	17	
20	0					127	119	111	103	94	82	69	52						Shut-off 846 ft
	20				127	120	112	104	94	83	70	53	31						
	30			131	124	116	108	99	89	78	63	44							
	40			128	120	112	104	95	84	71	55	33							
	50		132	124	117	109	100	90	79	64	45								
	60		128	121	113	105	96	85	72	56	35								
	70	132	125	117	109	101	91	80	65	47									
Shut-off PSI		280	258	236	215	193	172	150	128	107	85	63	42						
25	0					130	124	118	111	104	96	87	78	67	53	37			Shut-off 1030 ft
	20					130	124	118	112	105	97	88	79	68	55	39			
	30					128	122	116	109	101	93	84	74	62	48	30			
	40				130	125	119	112	105	97	89	79	68	56	40				
	50				128	122	116	109	102	94	85	75	63	49	31				
	60			131	125	119	113	106	98	90	80	69	57	41					
	70			128	123	117	110	102	94	85	75	64	50	33					
Shut-off PSI		359	338	316	294	273	251	229	208	186	164	143	121	99					

Discharge 3" NPT.

- Notes:** 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

6" High Capacity Pumps - 100 GPM



Submersible Pumps

6" High Capacity Pumps - 125 GPM

Capacities in U.S. Gallons per Minute

HP	PSI	Depth to Pumping Water Level, or Lift, in Feet. Shaded Areas Indicate Most Efficient Performance																		
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650
5	0				140	106	62													
	20		131	94																
	30	126	88																	
	40	82																		
Shut-off PSI		48	39	30	22	13	4													
7.5	0						141	122	99	64										
	20				135	116	90	48												
	30		150	133	112	85														
	40	147	130	109	79															
	50	127	105	73																
	60	101	67																	
	70	60																		
Shut-off PSI		77	69	60	51	43	34	25	17	8										
10	0								143	129	114	45								
	20						139	125	109	88	54									
	30				149	137	122	106	84	47										
	40			148	135	120	103	79												
	50		146	132	118	100	74													
	60	144	130	115	97	69														
	70	128	112	93	63															
Shut-off PSI		105	97	88	79	71	62	53	45	36	27	6								
15	0												134	112	81					
	20											135	114	84						
	30										145	126	101	65						
	40									144	137	116	87							
	50						149	143	136	128	104	68								
	60					148	142	134	126	117	89	44								
	70					147	141	133	125	116	106	72								
Shut-off PSI			185	176	168	159	150	142	133	124	116	94	72	51	29					
20	0												143	129	113	91	59			
	20											144	130	114	93	62				
	30											138	123	105	81	41				
	40										145	131	115	95	65					
	50										139	124	107	83	45					
	60										146	132	117	97	68					
	70						150	145	140	125	108	85	49							
Shut-off PSI		252	243	234	226	217	208	200	191	182	174	152	130	109	87	65	44	22		
25	0													143	133	119	99	71		
	20													144	134	120	101	74		
	30													149	140	128	112	90	57	
	40													145	135	121	103	76		
	50												150	140	129	114	92	60		
	60												146	135	123	104	78	42		
	70												141	130	115	94	63			
Shut-off PSI				292	283	275	266	257	249	240	231	210	188	166	145	123	101	80	58	37
30	0																			
	20						144	135	126	114	100	81	56							
	30				149	140	131	121	108	92	70	43								
	40				145	136	126	115	101	83	58									
	50				149	141	132	122	109	93	72	45								
	60				145	136	127	116	102	84	60									
	70				141	132	122	110	95	74	47									
Shut-off PSI		270	248	226	205	183	161	140	118	96	75	53	31							
40	0										150	144	138	132	125	117	107	95	80	
	20									150	145	139	132	126	118	1108	96	82	62	
	30									148	142	136	129	122	114	103	90	73	52	
	40									145	139	133	126	118	109	97	83	64	40	
	50								148	142	136	130	123	114	104	91	75	53		
	60								145	139	133	127	119	110	98	84	66	42		
	70								149	143	137	130	123	115	105	92	76	55		
Shut-off PSI		409	387	365	344	322	300	279	257	235	214	192	170							

Discharge 3" NPT.

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

6" High Capacity Pumps - 125 GPM

