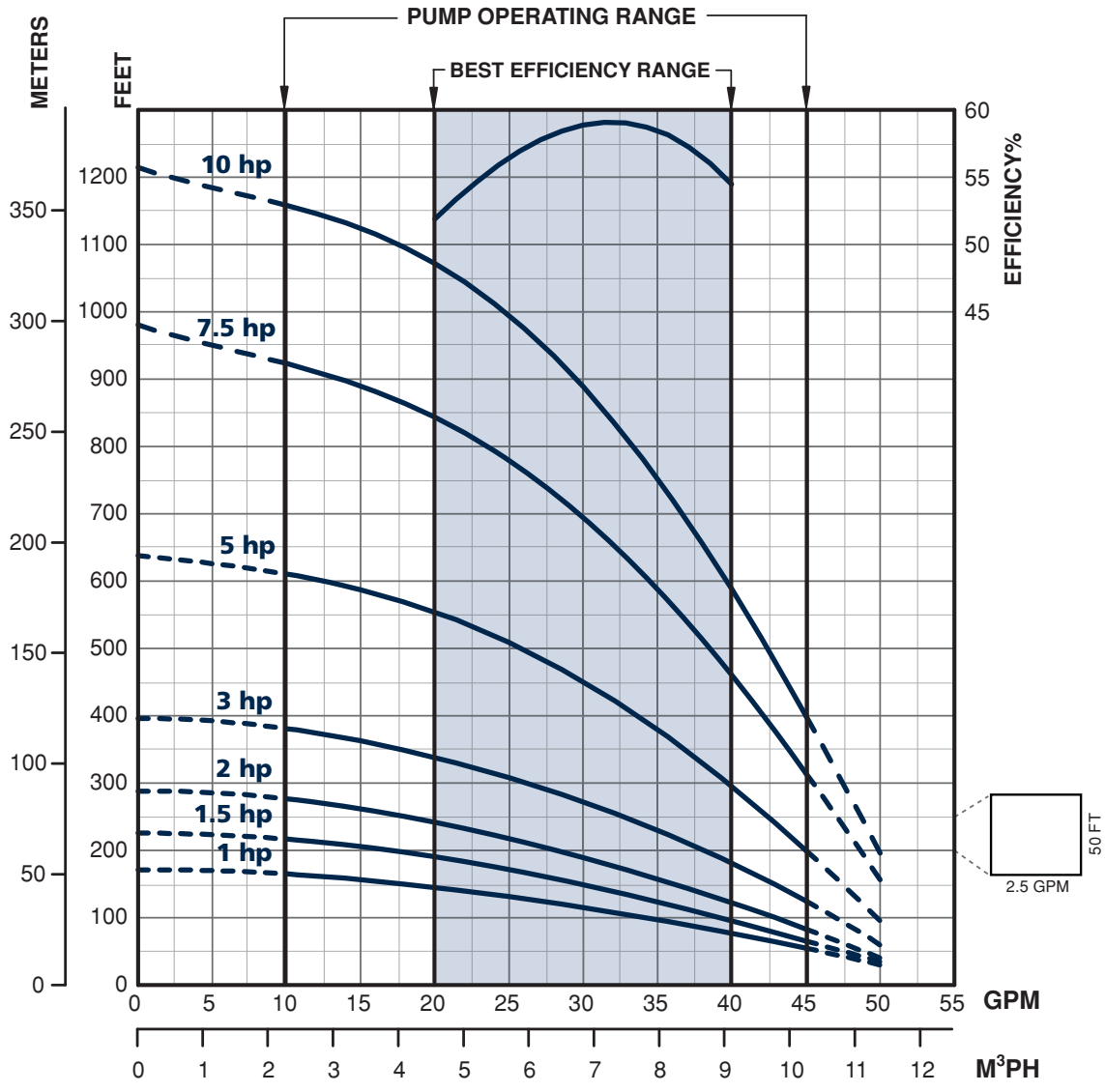


Submersible Pumps

4" High Capacity Pumps

35 GPM Performance Curves



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
1	0			44	40	34	28	22	13										
	10		43	39	33	27	21	11											
	20	43	38	32	26	20													
	30	37	31	26	19														
	40	30	25	18															
	50	24	16																
	60	14																	
	70																		
	80																		
Shut-off PSI		65	57	48	39	31	22	13	5										

Submersible Pumps

4" High Capacity Pumps

35 GPM Performance Charts

HP	PSI	20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	
1.5	0			45	43	40	36	31	27	23	18									
	10			45	42	39	35	31	27	23	16									
	20	45	42	38	34	30	26	22	15											
	30	41	38	34	30	26	21	14												
	40	37	33	29	25	20	12													
	50	32	29	24	19	10														
	60	28	24	18																
	70	23	17																	
	80	16																		
Shut-off PSI		89	81	72	63	55	46	37	29	20	11									

Shut-off 226 ft

2	0			45	43	40	37	34	31	28	19									
	10			45	43	40	37	34	31	27	24	11								
	20		45	43	40	37	33	30	27	24	20									
	30	44	42	39	36	33	30	26	23	19	12									
	40	42	39	36	32	29	26	22	18	11										
	50	39	35	32	29	25	22	17	10											
	60	35	31	28	25	21	16													
	70	31	28	24	21	15														
	80	27	24	20	14															
Shut-off PSI		116	107	99	90	81	73	64	55	47	38	16								

Shut-off 288 ft

3	0				45	44	42	41	38	32	28	18								
	10				45	44	42	40	38	36	29	23	12							
	20				45	44	42	40	38	35	33	27	19							
	30			45	43	42	40	37	35	32	30	24	13							
	40		44	43	41	39	37	34	32	29	27	20								
	50	44	43	41	39	37	34	32	29	27	24	14								
	60	43	41	39	36	34	31	29	26	24	21									
	70	40	38	36	33	31	28	26	23	20	15									
	80	38	35	33	30	28	25	23	19	15										
Shut-off PSI		163	154	145	137	128	120	111	102	94	85	63	42	20						

Shut-off 396 ft

5	0									45	43	40	37	33	30	26	21	12		
	10									45	44	42	39	35	32	28	24	18		
	20								45	45	44	43	40	37	34	30	26	21	13	
	30							45	45	44	43	42	39	35	32	28	24	18		
	40					45	44	44	43	42	41	37	34	30	27	22	14			
	50				45	44	44	43	42	40	39	36	32	29	25	19				
	60			45	44	43	42	41	40	39	38	34	31	27	22	15				
	70		45	44	43	42	41	40	39	37	36	32	29	25	19					
	80	45	44	43	42	41	40	38	37	36	34	31	27	23	15					
Shut-off PSI		268	259	250	242	233	224	216	207	198	190	168	146	125	103	81	60	38	16	

Shut-off 638 ft

HP	PSI	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	
7.5	0								44	42	40	38	36	34	32	30	27	24	19	13	
	10							45	43	41	39	38	36	33	31	29	26	22	17	10	
	20							44	42	40	39	37	35	32	30	27	24	20	14		
	30						45	43	41	40	38	36	34	31	29	26	22	17	11		
	40					44	42	41	39	37	35	33	30	27	24	20	14				
	50				45	43	42	40	38	36	34	32	29	25	22	18	11				
	60			45	44	43	41	39	37	35	33	30	28	24	20	15					
	70		45	45	44	43	42	40	38	36	34	32	29	26	23	18	12				
	80	45	45	44	43	43	41	39	37	35	33	31	28	25	21	15					
Shut-off PSI		373	364	355	347	338	316	295	274	251	230	208	186	165	143	121	100	78	56	35	

Shut-off 980 ft

HP	PSI	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	
10	0				45	44	43	41	40	38	36	35	33	31	30	28	25	22	17	11		
	10				45	43	42	41	39	37	36	34	32	31	29	26	24	20	15			
	20				45	44	43	41	40	38	37	35	33	32	30	28	25	22	18	12		
	30				45	43	42	41	39	38	36	34	32	31	29	27	24	20	15			
	40		45	44	43	41	40	38	37	35	33	32	30	28	25	22	18	12				
	50		45	44	42	41	39	38	36	34	33	31	29	27	24	20	16					
	60		45	44	43	42	40	39	37	35	34	32	30	28	26	23	18	13				
	70		45	44	42	41	39	38	36	34	33	31	29	27	24	21	16					
	80	45	44	43	42	40	38	37	35	34	32	30	28	26	23	19	13					
Shut-off PSI		439	418	396	374	353	331	309	288	266	245	223	201	180	158	136	115	93	71	50	28	

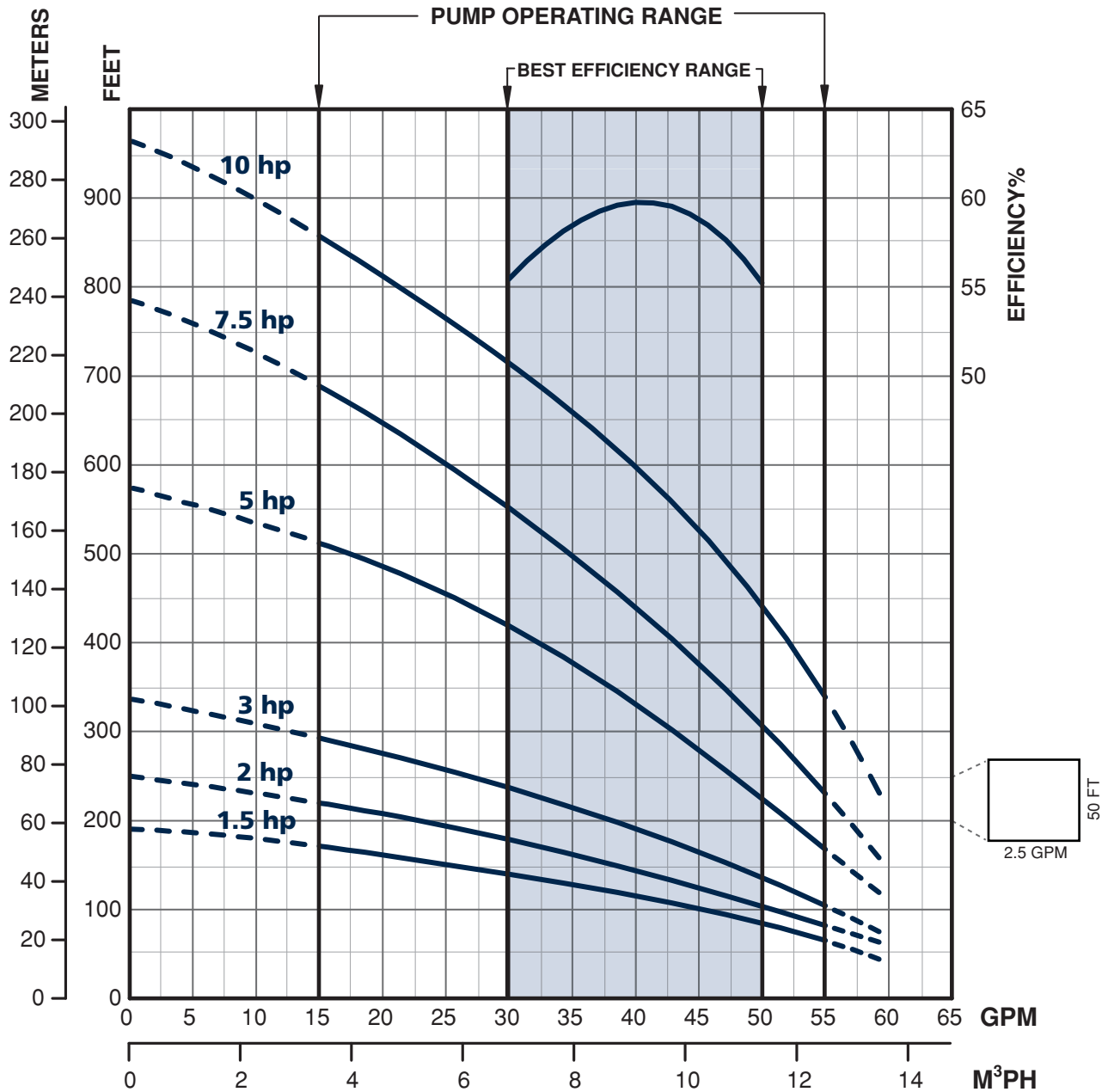
Shut-off 1215 ft

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

4" High Capacity Pumps

45 GPM Performance Curves



Submersible Pumps

4" High Capacity Pumps

45 GPM Performance Charts

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
1.5	0				52	46	38	30	21											
	10			55	51	45	37	26	20											
	20	54	50	43	35	27	18													
	30	49	42	34	26	16														
	40	41	33	24	15															
	50	32	23																	
	60	22																		
Shut-off PSI		74	65	56	48	39	30	22	13											
2	0				55	51	46	41	36	30	23									
	10			55	50	45	40	35	29	22										
	20		54	49	44	39	34	28	21											
	30	53	49	44	38	33	27	19												
	40	48	43	38	32	26	18													
	50	42	37	31	24	17														
	60	36	30	23	16															
Shut-off PSI		99	91	82	74	65	56	48	39	30	22									
3	0						53	49	46	42	38	27								
	10				55	52	49	45	41	37	33	21								
	20			55	52	48	45	41	37	32	26									
	30		54	51	48	44	40	36	32	27	22									
	40	54	51	47	44	40	35	31	26	21	15									
	50	50	47	43	39	35	30	25	20											
	60	46	42	38	34	30	25	19												
	70	42	38	33	29	24	18													
	80	37	33	28	23	17														
	90	32	27	22	16															
	100	27	21	16																
Shut-off PSI		137	129	120	111	103	94	85	77	68	60	38								
5	0									54	52	48	43	38	32	26	17			
	10									55	54	52	50	46	41	36	30	22		
	20									55	53	52	50	48	43	38	33	26	18	
	30									55	53	51	50	48	46	41	36	30	23	
	40					55	53	51	49	47	46	44	39	33	27	19				
	50			54	53	51	49	47	45	43	42	36	31	23						
	60		54	52	51	49	47	45	43	41	39	34	27	19						
	70	54	52	50	48	47	45	43	41	39	37	31	24	15						
	80	52	50	48	46	44	43	41	39	36	34	28	20							
	90	50	48	46	44	42	40	38	36	34	31	25	16							
	100	48	46	44	42	40	38	36	34	31	28	21								
	110	45	44	42	40	38	35	33	31	28	25	17								
	120	43	41	39	37	35	33	30	28	25	21									
	130	41	39	37	35	32	30	27	24	21	17									
	140	39	37	34	32	29	27	24	20	17										
	150	36	34	32	29	26	23	20	16											
	160	28	25	22	18															
Shut-off PSI		240	232	223	214	206	197	188	180	171	162	141	119	97	76	54	32			

- Notes:**
1. Performance shown does not include friction loss in the drop pipe.
 2. All performance data is based on rated motor nameplate voltage.
 3. Performances for former XP models are the same as 45 gpm models.

Continued on next page...

Submersible Pumps

4" High Capacity Pumps

45 GPM Performance Charts

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
7.5	0																			
	10																			
	20																			
	30																			
	40																			
	50																			
	60																			
	70																			
	80																			
	90																			
	100																			
	110																			
	120																			
	130																			
	140																			
	150																			
	160																			
Shut-off PSI		331	323	314	305	297	288	279	271	262	254	232	210	189	167	145	124	102	80	59

Shut-off 786 ft

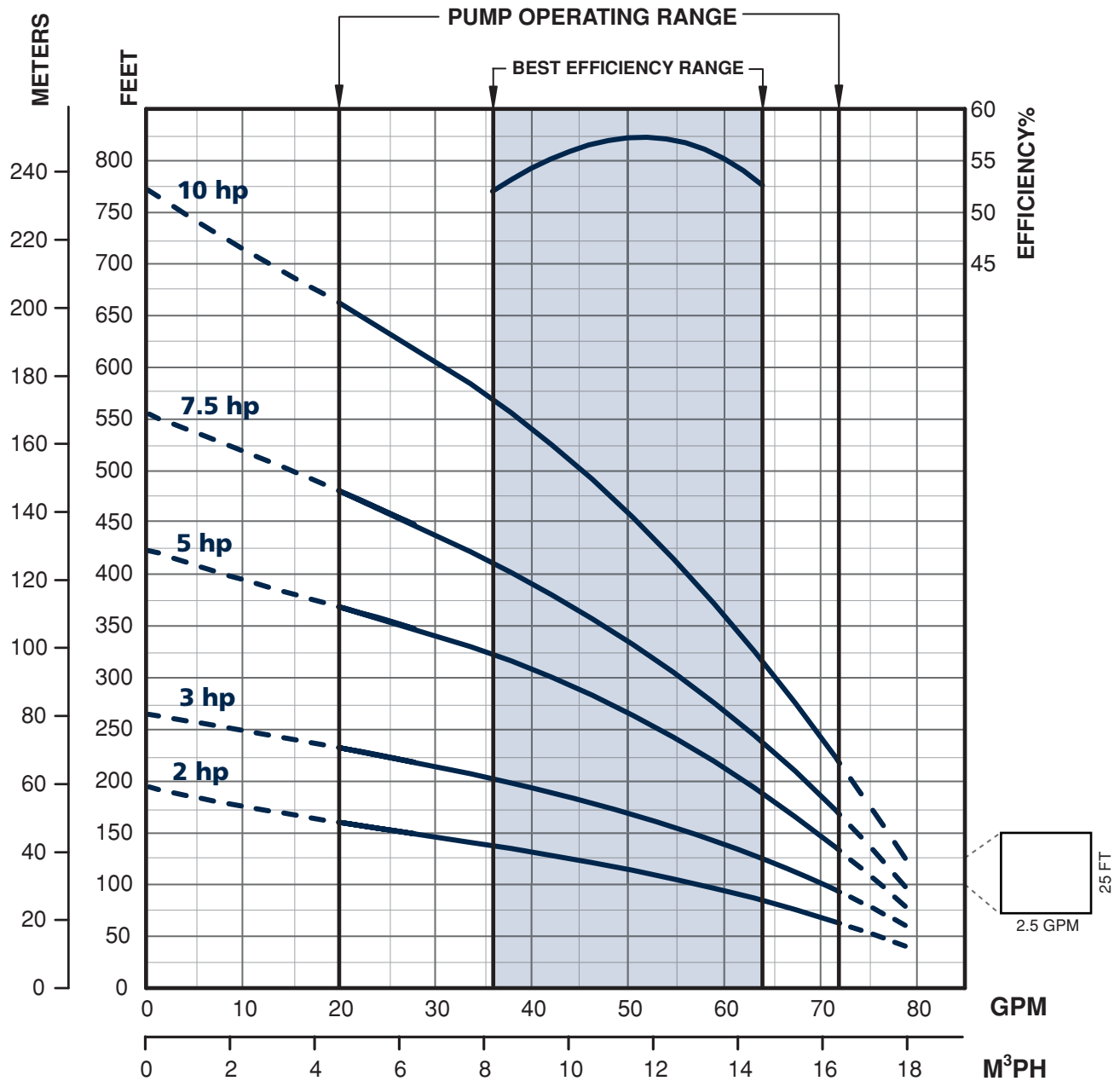
HP	PSI	20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	800	850
		10	0																					
10																								
20																								
30																								
40																								
50																								
60																								
70																								
80																								
90																								
100																								
110																								
120																								
130																								
140																								
150																								
160																								
Shut-off PSI		410	402	393	385	376	367	359	350	341	333	311	289	268	246	224	201	179	158	136	115	93	71	50

Shut-off 965 ft

- Notes:**
1. Performance shown does not include friction loss in the drop pipe.
 2. All performance data is based on rated motor nameplate voltage.
 3. Performances for former XP models are the same as 45 gpm models.

4" High Capacity Pumps

60 GPM Performance Curves



Submersible Pumps

4" High Capacity Pumps

60 GPM Performance Charts

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	
2	0				66	57	47	35	21										Shut-off 195 ft
	10			65	56	45	33	18											
	20	71	63	54	43	30													
	30	62	52	41	28														
	40	51	40	26															
	50	38	24																
	60	22																	
Shut-off PSI		76	67	58	50	41	32	24	15										
3	0					70	66	60	53	46	37								Shut-off 265 ft
	10				69	65	59	62	44	35	25								
	20		73	69	64	56	51	43	34	24									
	30	72	68	63	57	50	42	32	22										
	40	67	62	56	49	40	31	20											
	50	61	55	48	39	29													
	60	54	46	37	28														
Shut-off PSI		106	97	89	80	71	63	54	45	37	28								
5	0							71	68	65	62	54	42	27					Shut-off 425 ft
	10						70	68	65	62	59	49	36						
	20					70	67	64	61	58	54	43	28						
	30			72	69	67	64	61	57	54	50	37	20						
	40		72	69	68	63	60	57	53	49	44	29							
	50	71	69	66	63	60	56	53	48	43	38	21							
	60	68	65	62	59	56	52	48	43	37	31								
	70	65	62	59	55	51	47	42	36	30	23								
	80	61	58	55	51	46	41	35	28	21									
	90	58	54	50	45	40	34	27	20										
	100	54	49	45	39	33	26												
Shut-off PSI		175	167	158	149	141	132	123	115	106	97	76	54	32					

- Notes:**
1. Performance shown does not include friction loss in the drop pipe.
 2. All performance data is based on rated motor nameplate voltage.
 3. Performances for former XP models are the same as 60 gpm models.

Submersible Pumps

4" High Capacity Pumps

60 GPM Performance Charts

Capacities in U.S. Gallons per Minute

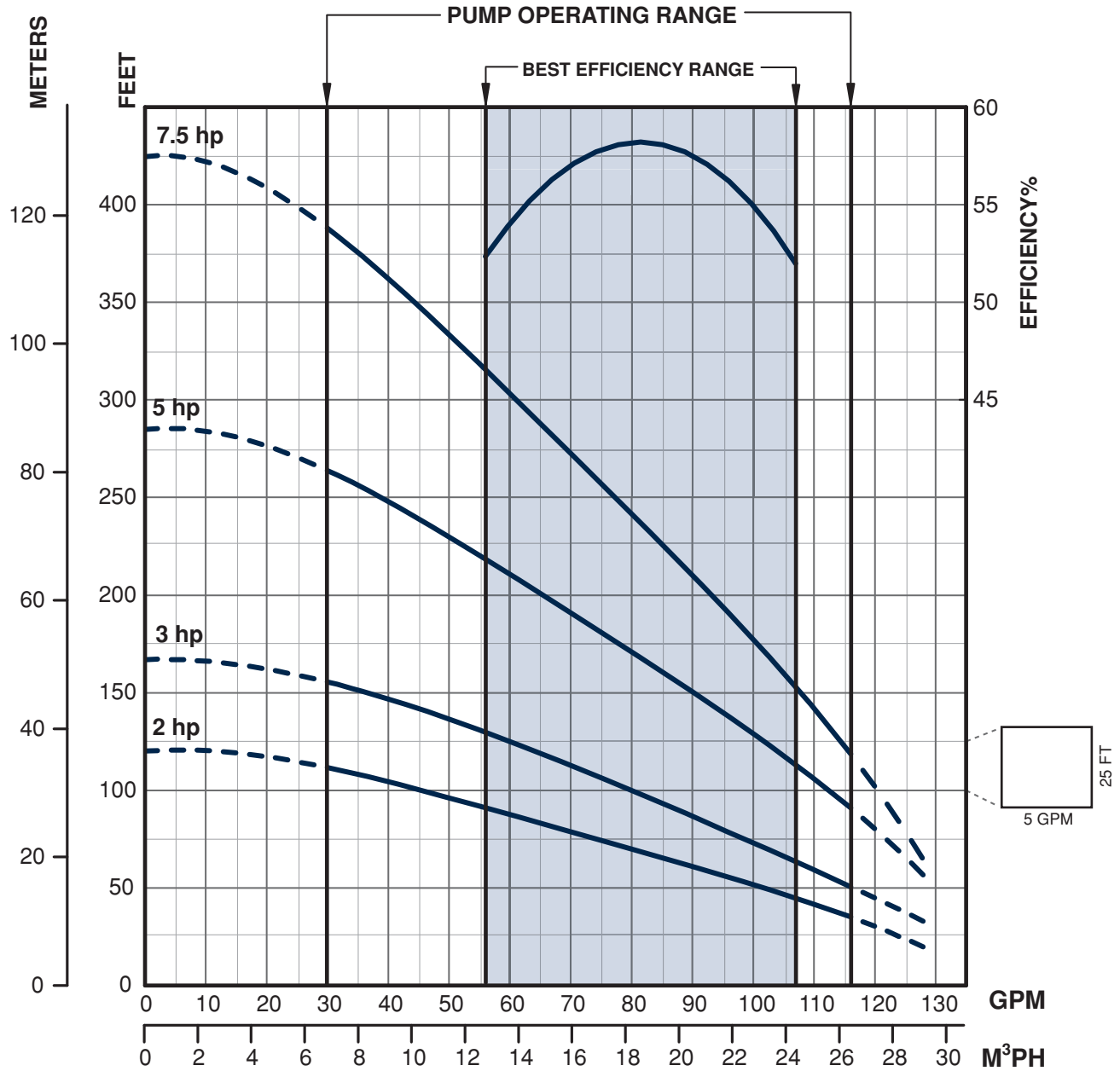
HP	PSI	Depth to Pumping Water Level, or Lift, in Feet. Shaded Areas Indicate Most Efficient Performance																				
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600		650	
7.5	0																				Shut-off 555 ft	
	10							72	70	68	66	59	52	43	33	22						
	20						72	70	68	65	63	56	48	39	28							
	30					72	70	67	65	63	60	53	44	34	23							
	40				71	69	67	65	62	60	57	49	40	29								
	50			71	69	67	64	62	59	56	53	45	35	24								
	60		71	69	66	64	61	59	56	53	49	40	30									
	70	70	68	66	64	61	58	55	52	48	45	36	25									
	80	68	66	63	61	58	55	52	48	45	41	31										
	90	65	63	60	57	54	51	48	44	41	37	26										
	100	62	60	57	54	51	47	44	40	36	32	20										
	110	59	57	53	50	47	43	39	35	31	26											
	120	56	53	50	46	43	39	35	30	26	21											
	130	52	49	46	42	38	34	30	25	20												
	140	49	45	41	37	33	29	24	19													
	150	45	41	37	33	28	24															
	160	31	26	21																		
Shut-off PSI		232	223	214	206	197	188	180	171	162	154	132	110	89	67	45						
10	0												69	65	61	57	51	45	39	31	22	Shut-off 772 ft
	10											71	67	63	59	54	49	42	35	27		
	20								72	71	69	66	61	57	52	46	39	31	23			
	30							72	71	69	68	64	59	55	49	43	36	28				
	40						72	70	69	67	66	62	57	52	46	40	32	24				
	50					72	70	69	67	66	64	60	55	50	43	36	28					
	60				72	70	68	67	65	64	62	58	53	47	40	33	24					
	70			71	70	68	67	65	64	62	60	55	50	44	37	29	20					
	80		71	70	68	66	65	63	62	60	58	53	47	41	33	25						
	90	71	69	68	66	65	63	61	60	58	56	51	44	37	29	21						
	100	69	68	66	64	63	61	59	57	56	53	48	41	34	26							
	110	67	66	64	62	61	59	57	55	53	51	45	38	30	22							
	120	65	64	62	61	59	57	55	53	51	48	42	34	26								
	130	64	62	60	58	57	55	52	51	48	45	39	31	22								
	140	62	60	58	56	54	52	50	48	45	42	35	27									
	150	60	58	56	54	52	50	47	45	42	39	31	23									
	160	53	51	48	46	43	41	38	35	31	28											
Shut-off PSI		326	317	308	300	291	282	274	265	256	248	226	204	183	161	139	118	96	74	53		

- Notes:**
1. Performance shown does not include friction loss in the drop pipe.
 2. All performance data is based on rated motor nameplate voltage.
 3. Performances for former XP models are the same as 60 gpm models.

Submersible Pumps

4" High Capacity Pumps

90 GPM Performance Curves



Submersible Pumps

4" High Capacity Pumps

90 GPM Performance Charts

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	
2	0		113	92	67	48													Shut-off 120 ft
	10	110	88	64	45														
	20	84	61	40															
	30	58	35																
	40																		
	50																		
	60																		
Shut-off PSI		43	35	26	17	9													
3	0			110	96	79	64	49											Shut-off 167 ft
	10		108	93	76	61	46												
	20	106	90	74	59	43													
	30	88	71	57	39														
	40	69	55	35															
	50	53	30																
	60																		
Shut-off PSI		64	55	46	38	29	20	12											
5	0					113	106	96	85	74	64	41							Shut-off 285 ft
	10				112	104	94	83	72	63	55								
	20			111	103	92	81	71	62	53	44								
	30		110	101	91	80	69	60	52	42									
	40	100	100	89	78	68	59	51	40										
	50	98	87	76	66	58	49	38											
	60	85	75	65	56	48	35												
	70	73	63	55	46	33													
	80	62	54	45	30														
	90	53	43																
	100	41																	
Shut-off PSI		115	106	97	89	80	71	63	54	45	37	15							
7.5	0						116	112	107	101	94	76	60	46					Shut-off 425 ft
	10					115	111	108	100	93	86	68	54	38					
	20				115	110	105	99	92	85	77	61	47						
	30			114	109	104	98	91	83	76	70	55	40						
	40		113	109	103	96	90	82	75	69	62	49							
	50	113	108	102	95	88	81	74	68	61	56	41							
	60	107	101	94	87	80	73	67	61	55	50	31							
	70	100	93	86	79	72	66	60	54	49	42								
	80	92	85	78	71	65	59	53	48	41	33								
	90	84	77	70	64	58	53	47	40	31									
	100	76	69	63	57	52	46	39											
	110	68	62	56	51	45	38												
	120	61	55	50	44	36													
	130	55	49	43	35														
	140	48	42	33															
	150	41	32																
160																			
Shut-off PSI		175	167	158	149	141	132	123	115	106	97	76	54	32					

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