

Submersible Pumps

4" High Capacity Pumps

Features & Ordering Information



J-CLASS

SandHandler

4" High Capacity

Features:

- 4 performance ranges - 35, 45, 60 and 90 gpm
 - Stainless steel discharge head and motor bracket
 - High flow impellers and stages are glass-filled Noryl® for maximum efficiency
 - Ceramic shaft sleeve and rubber discharge bearing eliminates sand wear
 - Intermediate bearing for increased shaft stability
 - Floating eye and hub seals for improved performance and efficiency
 - Stainless steel hex pump shaft, shell and shaft coupling
 - High capacity upthrust assembly for protection during start-up and operation (45, 60 and 90 gpm models)
 - Powered by Franklin corrosion-resistant 4" submersible motors
 - 2" NPT discharge
 - Check valve must be ordered separately. See page 78.
- Noryl® is a registered trademark of G.E.

Submersible Pumps

4" High Capacity Pumps Features & Ordering Information

Stainless Steel Units Ordering Information:

(See pgs. 2-3 for model number explanation)

1 - 10 HP 4" PUMP ENDS						
GPM	HP	STAGES	ORDERING INFO.		DIMENSIONS	WT.
			MODEL NO.	ORDER NO.	PUMP END ONLY	
35	1	6	35JS1S4-PE	92525807	15.00	9
	1.5	8	35JS15S4-PE	92525815	17.50	10
	2	10	35JS254-PE	92525823	20.00	11
	3	14	35JS3S4-PE	92525831	25.00	13
	5	22	35JS5S4-PE	92525849	35.00	17
	7.5	34	35JS7S4-PE	92525851	52.17	25
	10	42	35JS10S4-PE	92525853	62.23	31
45	1.5	6	45JS15S4-PE	92525856	21.00	15
	2	8	45JS2S4-PE	92525872	25.50	16
	3	11	45JS3S4-PE	92525898	32.25	19
	5	18	45JS5S4-PE	92525914	47.75	25
	7.5	26	45JS7S4-PE	92525922	65.25	33
	10	31	45JS10S4-PE	92525925	78.30	38
60	2	6	60JS2S4-PE	92525930	21.00	15
	3	8	60JS3S4-PE	92525948	25.50	17
	5	13	60JS5S4-PE	92525963	36.75	21
	7.5	17	60JS7S4-PE	92525971	45.25	25
	10	24	60JS10S4-PE	92525989	61.00	31
90	2	5	90JS2S4-PE	92526003	22.56	15
	3	7	90JS3S4-PE	92526011	28.56	17
	5	12	90JS5S4-PE	92526037	43.56	21
	7.5	19	90JS7S4-PE	92526045	64.50	27
	10	24	90JS10S4-PE	92526050	79.25	31

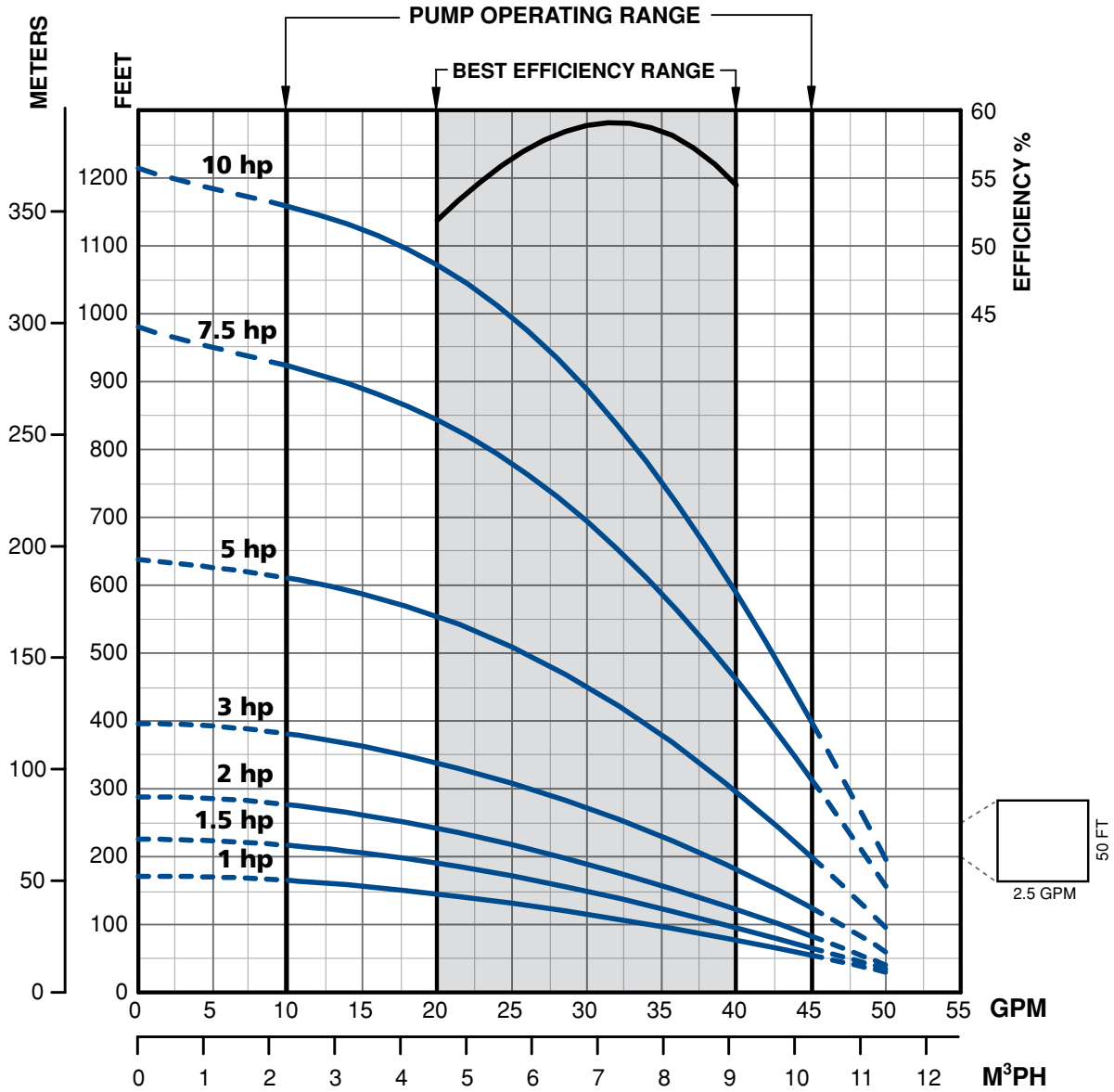
Note: All dimensions are in inches. Discharge is 2" NPT. Maximum diameter across cable guard is 3.90" on all models. All weights in pounds.

1 - 1.5 HP SINGLE-PHASE UNITS									
GPM	HP	STAGES	VOLTS	2-WIRE			3-WIRE		
				MODEL NO.	ORDER NO.	WT.	MODEL NO.	ORDER NO.	WT.
35	1	6	230	35JS1S4-2W230	92526128	33	35JS1S4-3W230	92526052	33
	1.5	8	230	35JS15S4-2W230	92526136	41	35JS15S4-3W230	92526060	39
45	1.5	6	230	45JS15S4-2W230	92526144	46	45JS15S4-3W230	92526086	44

Note: All listed above have 2" NPT discharge. Order check valve separately. Pump and motor will be individually cartoned and require assembly. All weights in pounds.

Submersible Pumps

4" High Capacity Pumps 35 gpm Performance



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

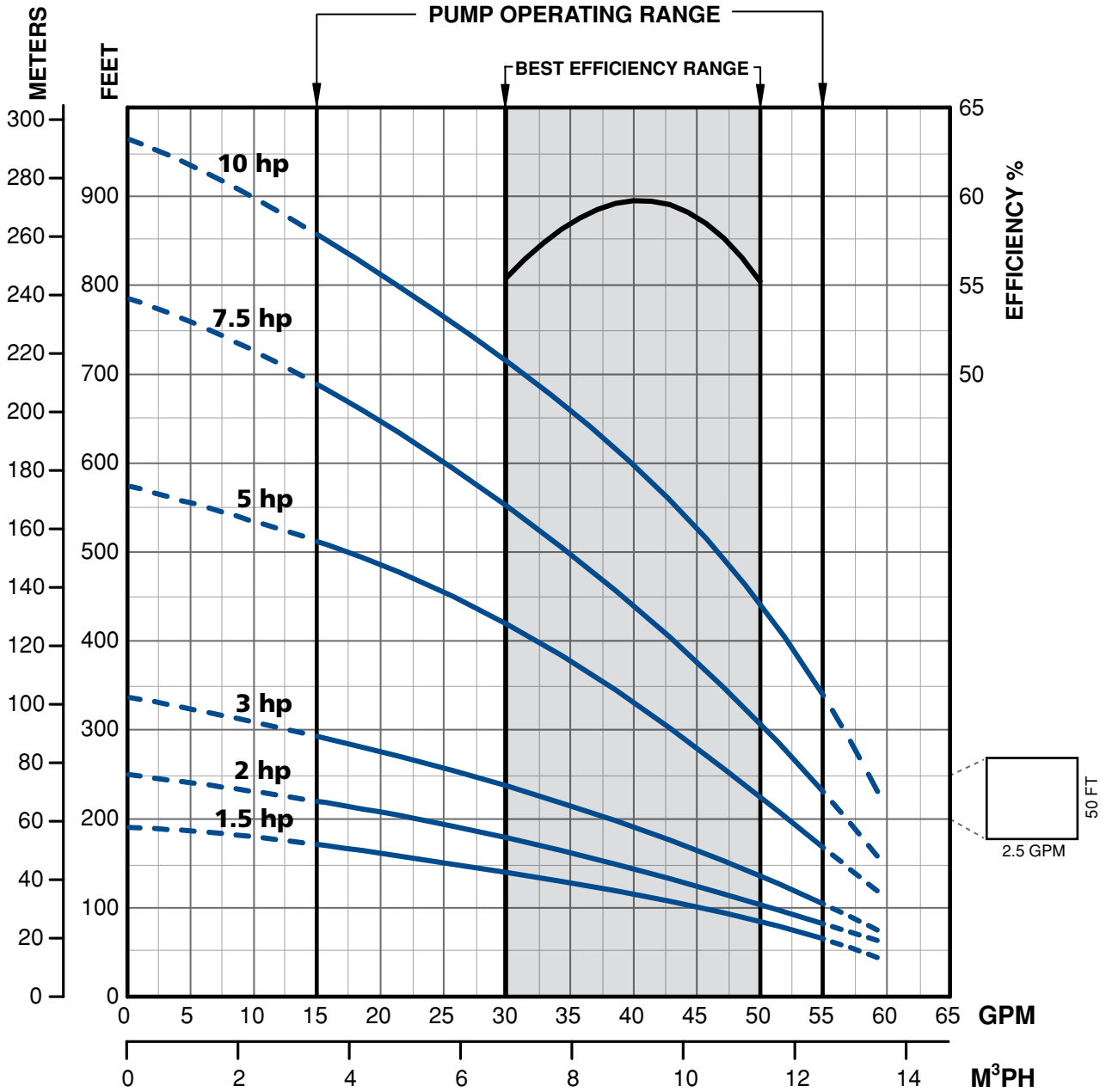
HP	PSI	20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600			
1.5	0			45	43	40	36	31	27	23	18									Shut-off 226 ft		
	10		45	42	39	35	31	27	23	16												
	20	45	42	38	34	30	26	22	15													
	30	41	38	34	30	26	21	14														
	40	37	33	29	25	20	12															
	50	32	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											
2	0			45	43	41	38	34	31	28	19									Shut-off 288 ft		
	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										
3	0				45	44	42	41	38	32	28	18								Shut-off 396 ft		
	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								
5	0									45	43	40	37	33	30	26	21	12		Shut-off 638 ft		
	10									45	44	42	39	35	32	28	24	18				
	20							45	45	44	43	42	39	35	32	28	24	18				
	30					45	44	44	43	42	41	37	34	30	27	22	14					
	40				45	44	44	43	42	40	39	36	32	29	25	19						
	50			45	44	43	42	41	40	39	38	34	31	27	22	15						
	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			
7.5	0								44	42	40	38	36	34	32	30	27	24	19	13	Shut-off 980 ft	
	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		
10	0				45	44	43	41	40	38	36	35	33	31	30	28	25	22	17	11	Shut-off 1215 ft	
	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	

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



Submersible Pumps

4" High Capacity Pumps 45 gpm Performance

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

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											54	51	47	43	39	35	30	25	20
	10										55	52	49	45	41	37	33	28	23	17
	20									55	54	51	47	44	39	35	30	26	20	
	30								55	54	53	49	46	42	37	33	28	23	17	
	40							55	54	52	51	48	44	40	35	31	26	21	15	
	50						55	53	52	51	49	46	42	38	33	29	24	18		
	60					54	53	52	51	49	48	44	40	36	31	26	21	15		
	70			55	54	53	52	50	49	48	46	42	38	34	29	24	18			
	80		55	54	53	52	50	49	47	46	44	40	36	32	27	21	16			
	90	55	54	53	51	50	49	47	46	44	43	38	34	29	24	19				
	100	54	52	51	50	48	47	45	44	42	41	36	32	27	22	16				
	110	52	51	50	48	47	45	44	42	40	39	34	30	25	19					
	120	51	49	48	47	45	43	42	40	39	37	32	27	22	17					
	130	49	48	46	45	43	42	40	38	37	35	30	25	20						
	140	48	46	45	43	41	40	38	36	34	33	28	23	17						
	150	46	44	43	41	39	38	38	34	32	30	26	20							
	160	40	39	37	35	33	31	30	28	26	24	18								
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

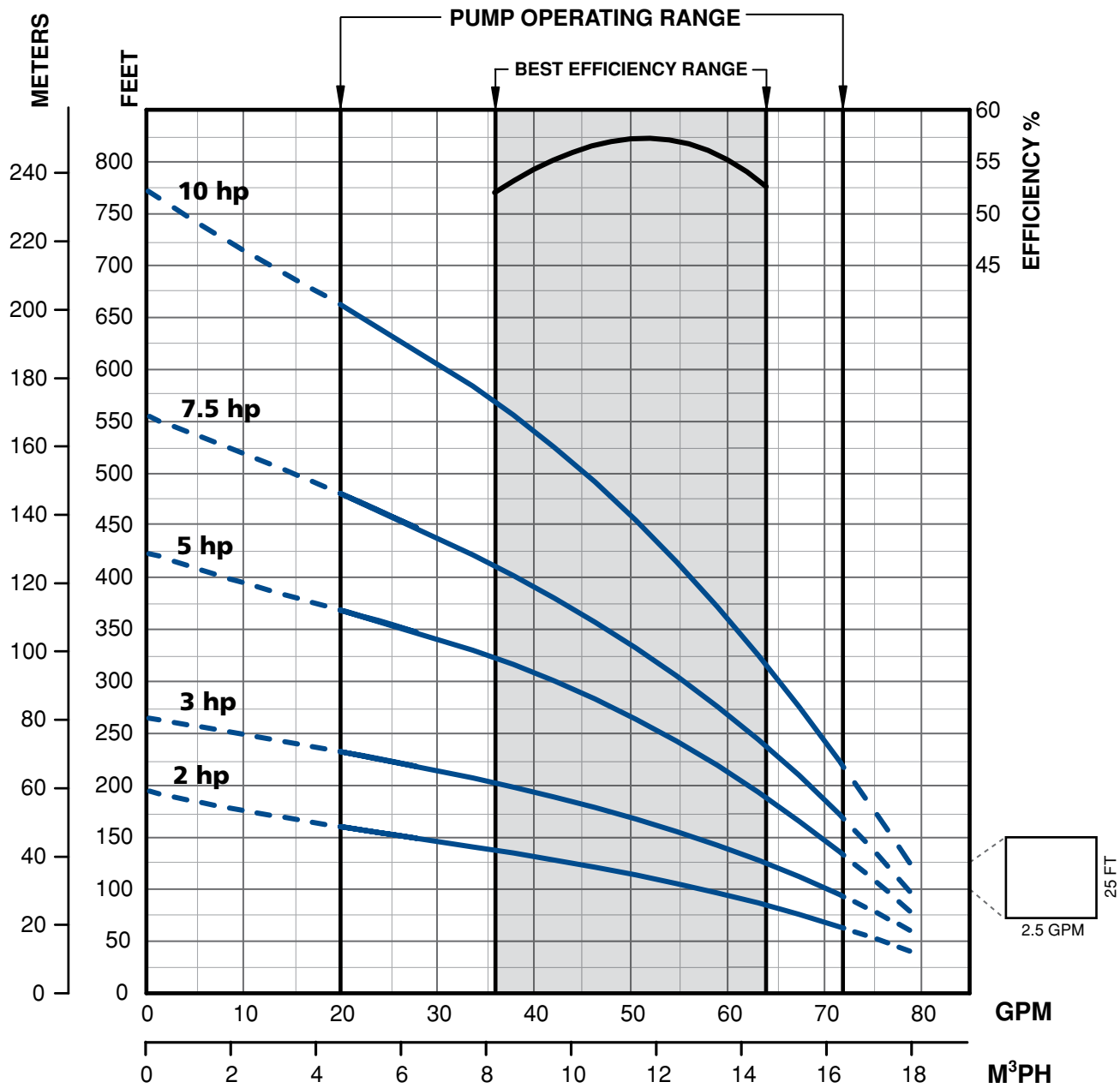
HP	PSI	20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	800	850
10	0												54	52	50	47	43	40	36	31	27	21	16	
	10											55	53	51	48	45	42	38	34	29	24	19		
	20											55	52	50	47	44	40	36	32	27	22	16		
	30											54	51	49	46	42	38	34	29	25	19			
	40										55	53	50	47	44	40	36	32	27	22	17			
	50										54	51	49	46	42	39	34	30	25	20				
	60									55	53	50	47	44	41	37	32	28	23	17				
	70								55	54	52	49	46	43	39	35	30	25	20	15				
	80						55	54	53	52	51	48	45	41	37	33	28	23	18					
	90					55	54	54	53	52	49	46	43	39	35	31	26	21	15					
	100					55	54	53	52	51	48	45	41	37	33	28	23	18						
	110				55	54	53	53	52	51	49	47	43	39	35	31	26	21	15					
	120			55	54	53	52	51	50	49	48	45	41	38	33	29	24	19						
	130		55	54	53	52	51	50	49	48	47	43	40	36	31	27	21	16						
	140	55	54	53	52	51	50	49	48	47	45	42	38	34	29	24	19							
	150	54	53	51	51	50	49	48	46	45	44	40	36	32	27	22	16							
	160	50	49	48	47	46	44	43	42	40	38	34	30	25	20									
Shut-off PSI		409	400	392	383	374	366	357	348	340	331	309	288	266	244	223	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.

Submersible Pumps

4" High Capacity Pumps 60 gpm Performance



Submersible Pumps

4" High Capacity Pumps

60 gpm Performance

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

Capacities in U.S. Gallons per Minute:

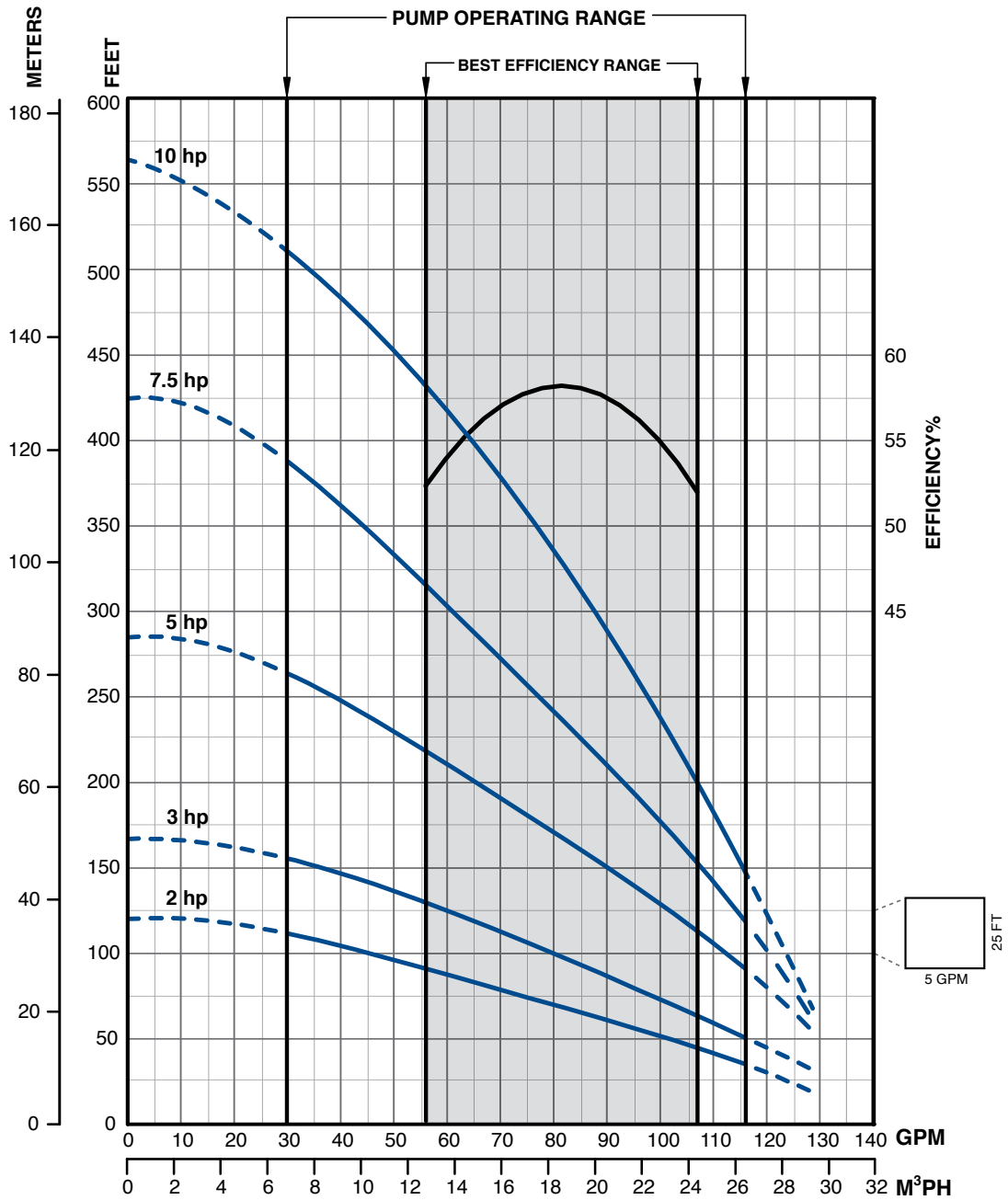
HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																		
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																		
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650
7.5	0									71	68	63	56	48	38	27				
	10							72	70	68	66	59	52	43	33	22				
	20						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	
	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



Submersible Pumps

4" High Capacity Pumps 90 gpm Performance

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								
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	240	280	320	360	400	440	480	500	550	600	
10	0					122	119	116	113	109	106	99	91	83	75	65	54	42	35	11		Shut-off 565 ft
	10				122	119	116	112	109	106	102	95	87	78	69	59	48	34	25			
	20			121	118	115	112	108	105	101	98	90	82	73	64	53	40	24	13			
	30		121	118	115	111	108	104	101	97	94	86	77	68	57	46	31	11				
	40	120	117	114	111	107	104	100	97	93	89	81	72	62	51	38	21					
	50	117	114	110	107	103	100	96	92	88	84	76	66	56	44	29	7					
	60	113	110	106	103	99	96	92	88	84	79	70	60	49	35	18						
	70	109	106	102	99	95	91	87	83	79	74	65	54	41	26	2						
	80	105	102	98	94	91	87	82	78	74	69	59	47	33	14							
Shut-off PSI		236	227	219	210	201	193	184	175	167	158	141	123	106	89	71	54	37	28	6		

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