

4" TRI-SEAL PUMPS

The Tri-Seal 4" submersible pump features the Tri-Seal floating stage system. This stage system further improves efficiency and protects against wear when pumping abrasives. For details on how to become a registered dealer and receive a 5-year warranty, contact your local distributor.

FEATURES

- 300 Series stainless steel hub floats with the impeller maintaining a positive seal
- Phenolic washer provides downthrust protection
- Scalloped impellers provide high efficiency performance and abrasion resistance
- Advanced thermoplastic diffuser and disc - proven abrasion-resistant material
- Floating stage design allows impeller to float independently
- Removable, spring-loaded check valve
- Maximum water temperature: 120 °F/49 °C
- Ceramic shaft sleeve and rubber discharge bearing protect shaft and eliminate sand wear
- Powered by Franklin Electric corrosion-resistant super stainless 4" submersible motors with lightning protection
- Patented impeller hub seal system seals radially and axially to prevent fluid recirculation, providing high performance in the harshest conditions

Tri-Seal™ Floating Stage System

U.S. Patent No. 7,290,984



UL 778
 CSA 108
 NSF/ANSI 372
 NSF/ANSI 61 (Pump end only)

4" TRI-SEAL PUMPS - ORDERING INFORMATION

THERMOPLASTIC ORDERING INFORMATION

GPM	HP	Stages	Volts	2-Wire			3-Wire			
				Model	Order No.	Motor	Model	Order No.	Motor	Control Box
5	1/2	8	115	5FA05P4-2W115	93780505	2445049004S	5FA05P4-3W115	93780530	2145049004S	2801044915
	1/2	8	230	5FA05P4-2W230	93780510	2445059004S	5FA05P4-3W230	93780535	2145059004S	2801054915
	3/4	12	230	5FA07P4-2W230	93780515	2445079004S	5FA07P4-3W230	93780540	2145079004S	2801074915
	1	15	230	5FA1P4-2W230	93780520	2445089003S	5FA1P4-3W230	93780545	2145089003S	2801084915
7	1.5	21	230	5FA15P4-2W230	93780525	2443099004S	5FA15P4-3W230	93780550	2243009203S	2823008110
	1/2	7	115	7FA05P4-2W115	93780705	2445049004S	7FA05P4-3W115	93780730	2145049004S	2801044915
	1/2	7	230	7FA05P4-2W230	93780710	2445059004S	7FA05P4-3W230	93780735	2145059004S	2801054915
	3/4	10	230	7FA07P4-2W230	93780715	2445079004S	7FA07P4-3W230	93780740	2145079004S	2801074915
10	1	13	230	7FA1P4-2W230	93780720	2445089003S	7FA1P4-3W230	93780745	2145089003S	2801084915
	1.5	18	230	7FA15P4-2W230	93780725	2443099004S	7FA15P4-3W230	93780750	2243009203S	2823008110
	1/2	6	115	10FA05P4-2W115	93781005	2445049004S	10FA05P4-3W115	93781030	2145049004S	2801044915
	1/2	6	230	10FA05P4-2W230	93781010	2445059004S	10FA05P4-3W230	93781035	2145059004S	2801054915
15	3/4	8	230	10FA07P4-2W230	93781015	2445079004S	10FA07P4-3W230	93781040	2145079004S	2801074915
	1	11	230	10FA1P4-2W230	93781020	2445089003S	10FA1P4-3W230	93781045	2145089003S	2801084915
	1.5	15	230	10FA15P4-2W230	93781025	2443099004S	10FA15P4-3W230	93781050	2243009203S	2823008110
	1/2	4	115	15FA05P4-2W115	93781505	2445049004S	15FA05P4-3W115	93781530	2145049004S	2801044915
20	1/2	4	230	15FA05P4-2W230	93781510	2445059004S	15FA05P4-3W230	93781535	2145059004S	2801054915
	3/4	6	230	15FA07P4-2W230	93781515	2445079004S	15FA07P4-3W230	93781540	2145079004S	2801074915
	1	9	230	15FA1P4-2W230	93781520	2445089003S	15FA1P4-3W230	93781545	2145089003S	2801084915
	1.5	11	230	15FA15P4-2W230	93781525	2443099004S	15FA15P4-3W230	93781550	2243009203S	2823008110
25	3/4	5	230	20FA07P4-2W230	93782015	2445079004S	20FA07P4-3W230	93782040	2145079004S	2801074915
	1	7	230	20FA1P4-2W230	93782020	2445089003S	20FA1P4-3W230	93782045	2145089003S	2801084915
	1.5	10	230	20FA15P4-2W230	93782025	2443099004S	20FA15P4-3W230	93782050	2243009203S	2823008110
25	1	6	230	25FA1P4-2W230	93782520	2445089003S	25FA1P4-3W230	93782545	2145089003S	2801084915
	1.5	8	230	25FA15P4-2W230	93782525	2443099004S	25FA15P4-3W230	93782550	2243009203S	2823008110

NOTES: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

STAINLESS STEEL ORDERING INFORMATION

GPM	HP	Stages	Volts	2-Wire			3-Wire			
				Model	Order No.	Motor	Model	Order No.	Motor	Control Box
5	1/2	8	115	5FA05S4-2W115	93810505	2445049004S	5FA05S4-3W115	93810530	2145049004S	2801044915
	1/2	8	230	5FA05S4-2W230	93810510	2445059004S	5FA05S4-3W230	93810535	2145059004S	2801054915
	3/4	12	230	5FA07S4-2W230	93810515	2445079004S	5FA07S4-3W230	93810540	2145079004S	2801074915
	1	15	230	5FA1S4-2W230	93810520	2445089003S	5FA1S4-3W230	93810545	2145089003S	2801084915
7	1.5	21	230	5FA15S4-2W230	93810525	2443099004S	5FA15S4-3W230	93810550	2243009203S	2823008110
	1/2	7	115	7FA05S4-2W115	93810705	2445049004S	7FA05S4-3W115	93810730	2145049004S	2801044915
	1/2	7	230	7FA05S4-2W230	93810710	2445059004S	7FA05S4-3W230	93810735	2145059004S	2801054915
	3/4	10	230	7FA07S4-2W230	93810715	2445079004S	7FA07S4-3W230	93810740	2145079004S	2801074915
10	1	13	230	7FA1S4-2W230	93810720	2445089003S	7FA1S4-3W230	93810745	2145089003S	2801084915
	1.5	18	230	7FA15S4-2W230	93810725	2443099004S	7FA15S4-3W230	93810750	2243009203S	2823008110
	1/2	6	115	10FA05S4-2W115	93811005	2445049004S	10FA05S4-3W115	93811030	2145049004S	2801044915
	1/2	6	230	10FA05S4-2W230	93811010	2445059004S	10FA05S4-3W230	93811035	2145059004S	2801054915
15	3/4	8	230	10FA07S4-2W230	93811015	2445079004S	10FA07S4-3W230	93811040	2145079004S	2801074915
	1	11	230	10FA1S4-2W230	93811020	2445089003S	10FA1S4-3W230	93811045	2145089003S	2801084915
	1.5	15	230	10FA15S4-2W230	93811025	2443099004S	10FA15S4-3W230	93811050	2243009203S	2823008110
	1/2	4	115	15FA05S4-2W115	93811505	2445049004S	15FA05S4-3W115	93811530	2145049004S	2801044915
20	1/2	4	230	15FA05S4-2W230	93811510	2445059004S	15FA05S4-3W230	93811535	2145059004S	2801054915
	3/4	6	230	15FA07S4-2W230	93811515	2445079004S	15FA07S4-3W230	93811540	2145079004S	2801074915
	1	9	230	15FA1S4-2W230	93811520	2445089003S	15FA1S4-3W230	93811545	2145089003S	2801084915
	1.5	11	230	15FA15S4-2W230	93811525	2443099004S	15FA15S4-3W230	93811550	2243009203S	2823008110
25	3/4	5	230	20FA07S4-2W230	93812015	2445079004S	20FA07S4-3W230	93812040	2145079004S	2801074915
	1	7	230	20FA1S4-2W230	93812020	2445089003S	20FA1S4-3W230	93812045	2145089003S	2801084915
	1.5	10	230	20FA15S4-2W230	93812025	2443099004S	20FA15S4-3W230	93812050	2243009203S	2823008110
25	1	6	230	25FA1S4-2W230	93812520	2445089003S	25FA1S4-3W230	93812545	2145089003S	2801084915
	1.5	8	230	25FA15S4-2W230	93812525	2443099004S	25FA15S4-3W230	93812550	2243009203S	2823008110

NOTES: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

4" TRI-SEAL PUMPS - ORDERING INFORMATION

THERMOPLASTIC PUMP ENDS

GPM	HP	Stages	Model	Order No.
5	1/2	8	5FA05P4-PE	93790505
	3/4	12	5FA07P4-PE	93790510
	1	15	5FA1P4-PE	93790515
	1.5	21	5FA15P4-PE	93790520
7	1/2	7	7FA05P4-PE	93790705
	3/4	10	7FA07P4-PE	93790710
	1	13	7FA1P4-PE	93790715
	1.5	18	7FA15P4-PE	93790720
10	1/2	6	10FA05P4-PE	93791005
	3/4	8	10FA07P4-PE	93791010
	1	11	10FA1P4-PE	93791015
	1.5	15	10FA15P4-PE	93791020
15	1/2	4	15FA05P4-PE	93791505
	3/4	6	15FA07P4-PE	93791510
	1	9	15FA1P4-PE	93791515
	1.5	11	15FA15P4-PE	93791520
20	3/4	5	20FA07P4-PE	93792010
	1	7	20FA1P4-PE	93792015
	1.5	10	20FA15P4-PE	93792020
25	1	6	25FA1P4-PE	93792515
	1.5	8	25FA15P4-PE	93792520

NOTES: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

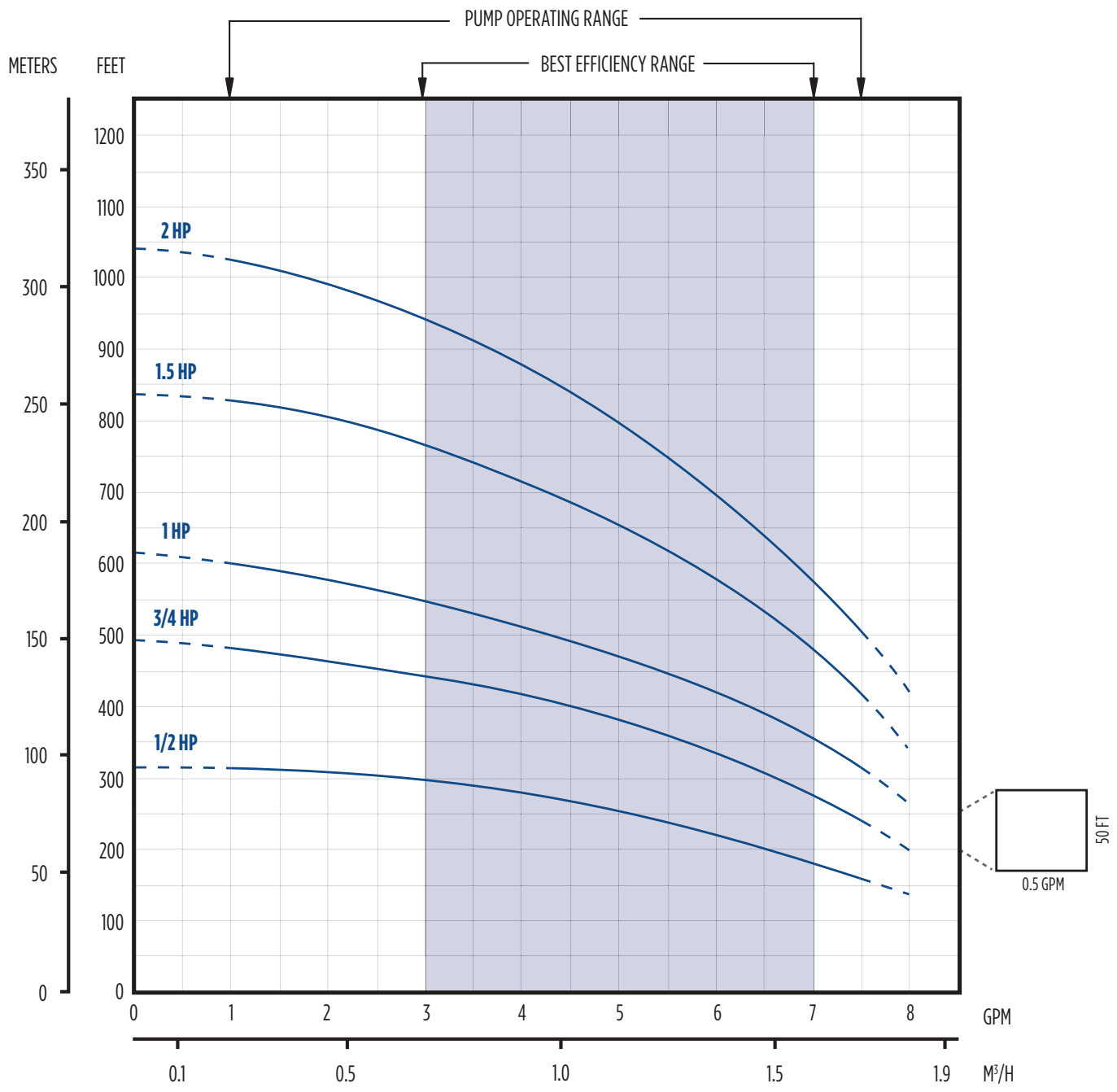
STAINLESS STEEL PUMP ENDS

GPM	HP	Stages	Model	Order No.
5	1/2	8	5FA05S4-PE	93820505
	3/4	12	5FA07S4-PE	93820510
	1	15	5FA1S4-PE	93820515
	1.5	21	5FA15S4-PE	93820520
7	2	26	5FA2S4-PE	93820525
	1/2	7	7FA05S4-PE	93820705
	3/4	10	7FA07S4-PE	93820710
	1	13	7FA1S4-PE	93820715
7	1.5	18	7FA15S4-PE	93820720
	2	24	7FA2S4-PE	93820725
	3	32	7FA3S4-PE	93820730
	1/2	6	10FA05S4-PE	93821005
10	3/4	8	10FA07S4-PE	93821010
	1	11	10FA1S4-PE	93821015
	1.5	15	10FA15S4-PE	93821020
	2	18	10FA2S4-PE	93821025
	3	24	10FA3S4-PE	93821030
	5	39	10FA5S4-PE	93821035
	1/2	4	15FA05S4-PE	93821505
	3/4	6	15FA07S4-PE	93821510
	1	9	15FA1S4-PE	93821515
	1.5	11	15FA15S4-PE	93821520
15	2	14	15FA2S4-PE	93821525
	3	19	15FA3S4-PE	93821530
	5	31	15FA5S4-PE	93821535
	3/4	5	20FA07S4-PE	93822010
	1	7	20FA1S4-PE	93822015
	1.5	10	20FA15S4-PE	93822020
	2	12	20FA2S4-PE	93822025
	3	16	20FA3S4-PE	93822030
	5	26	20FA5S4-PE	93822035
	7.5	39	20FA7S4-PE	93822040
20	10	52	20FA10S4-PE	93822045
	1	6	25FA1S4-PE	93822515
	1.5	8	25FA15S4-PE	93822520
	2	10	25FA2S4-PE	93822525
	3	14	25FA3S4-PE	93822530
	5	23	25FA5S4-PE	93822535
	7.5	35	25FA7S4-PE	93822540
	10	44	25FA10S4-PE	93822545

NOTES: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

4" TRI-SEAL PUMPS - 5 GPM

PERFORMANCE



4" TRI-SEAL PUMPS - 5 GPM

PERFORMANCE

HP	PSI	Depth To Pumping Water Level (LI) in Feet. Shaded Areas Indicate Most Efficient Performance																				Shut-Off (ft)			
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700		800	900	1000
1/2	0							7	7	6	6	5	4												
	20					8	7	6	6	5	5	3	2												
	30				7	7	6	6	5	5	4	2													
	40			7	7	6	6	5	5	4	3														
	50		7	6	6	6	5	5	4	2															
	60	7	7	6	6	5	4	4	2																
	80	6	6	5	4	3																			
Shut-off PSI		127	119	110	101	93	84	75	67	58	49	32	23												
3/4	0										7	7	7	6	5	4	3								
	20									7	7	7	6	6	5	4	3								
	30								7	7	7	6	6	6	5	3									
	40						7	7	7	6	6	6	5	4	2										
	50					7	7	7	6	6	6	5	5	4											
	60				7	7	7	6	6	6	5	5	4	3											
	80		7	7	7	6	6	6	5	5	4	3	3												
Shut-off PSI		205	196	188	179	171	162	153	145	136	127	110	101	84	58	41	23								
1	0												8	7	6	6	5	4	4						
	20												7	7	7	6	5	4	3						
	30											7	7	7	6	5	5	3	2						
	40										7	7	7	7	6	5	4	3							
	50										7	7	7	7	6	6	4	3							
	60										7	7	7	7	6	6	5	4							
	80							7	7	7	6	6	5	5	4										
Shut-off PSI		257	248	240	231	222	214	205	197	188	179	162	153	136	110	93	75	58	49						
1.5	0															7	7	7	6	5	4	2			
	20															7	7	7	6	6	6	5	3		
	30															7	7	7	6	6	6	4	3		
	40															7	7	7	6	6	6	5	4	2	
	50														7	7	7	7	6	6	5	5	3		
	60														7	7	7	6	6	5	5	5	3		
	80														7	7	7	6	6	5	5	4	4	2	
Shut-off PSI		352	344	335	326	318	309	300	292	283	274	257	249	231	205	188	171	153	145	101	58	15			
2	0																7	7	7	6	5	4	3		
	20																7	7	7	7	6	5	4	2	
	30																7	7	7	7	6	6	5	3	
	40																7	7	7	6	6	6	5	3	
	50																7	7	7	7	6	6	5	4	3
	60																7	7	7	6	6	6	5	4	3
	80																7	7	7	6	6	6	5	3	
Shut-off PSI		441	432	424	415	406	398	389	381	372	363	346	337	320	294	277	259	242	233	190	147	104	60		

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

4" TRI-SEAL PUMPS - 7 GPM

PERFORMANCE

The chart displays the performance of 4" Tri-Seal pumps at a flow rate of 7 GPM. The y-axis represents head in meters and feet, and the x-axis represents flow in GPM and M³/H. A shaded region indicates the best efficiency range, and a larger bracketed region indicates the pump operating range.

HP	Flow (GPM)	Head (Feet)	Head (Meters)		
3 HP	0	1350	390		
	5	1100	310		
	10	750	215		
	11	600	175		
	2 HP	0	1000	290	
		5	850	245	
		10	550	160	
		11	400	115	
		1.5 HP	0	780	225
			5	650	190
			10	450	130
			11	350	100
1 HP			0	550	160
			5	450	130
			10	300	90
			11	220	65
	3/4 HP		0	420	125
			5	350	105
			10	220	65
			11	160	45
		1/2 HP	0	300	90
			5	250	75
			10	150	45
			11	100	30

18

4" TRI-SEAL PUMPS - 7 GPM

PERFORMANCE

HP	PSI	Depth to Pumping Water Level, or Lift, in Feet. Shaded Areas Indicate Most Efficient Performance																				Shut-Off (ft)				
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700		800	900	1000	
1/2	0				10	10	9	9	8	7	6	5	4													300
	20		10	9	9	8	8	7	6	5	4															
	30	10	9	9	8	7	7	6	5	4	3															
	40	9	9	8	8	7	6	5	4	3																
	50	9	8	7	7	6	5	4	3																	
	60	8	7	6	6	5	4	3																		
80	6	5	4	3																						
Shut-off PSI		121	112	103	95	86	77	69	60	52	43	26	17													
3/4	0					10	10	9	9	9	8	7	6	4											422	
	20			10	10	10	9	9	8	8	7	6	6	4												
	30		10	10	10	9	9	8	8	7	7	6	5	3												
	40	10	10	10	9	9	8	8	7	7	6	5	4													
	50	10	9	9	9	8	8	7	7	6	6	4	3													
	60	9	9	9	8	8	7	7	6	6	5	3														
80	8	8	8	7	6	6	5	5	4	3																
Shut-off PSI		174	165	156	148	139	130	122	113	104	96	78	70	52	26											
1	0					10	10	10	9	9	9	8	8	7	6	5	3	3							544	
	20					10	10	10	9	9	9	8	8	7	6	5	3									
	30			10	10	10	10	9	9	9	8	8	7	6	5	4										
	40		10	10	10	10	9	9	9	8	8	7	7	6	4	3										
	50	10	10	10	10	9	9	9	8	8	8	7	6	5	3											
	60	10	10	9	9	9	9	8	8	8	7	6	6	5	3											
80	9	9	9	8	8	8	7	7	7	6	5	5	3													
Shut-off PSI		226	218	209	200	192	183	174	166	157	148	131	123	105	79	62	45	27	18							
1.5	0								10	10	10	10	9	9	8	8	7	7	7	5	2				765	
	20						10	10	10	10	9	9	9	8	8	7	7	6	6	4						
	30				10	10	10	10	10	9	9	9	9	8	8	7	7	6	6	3						
	40			10	10	10	10	9	9	9	9	9	8	8	7	7	6	6	5	3						
	50		10	10	10	10	9	9	9	9	9	8	8	8	8	7	6	6	5	5						
	60	10	10	10	10	9	9	9	9	9	8	8	8	8	7	7	6	6	5	4						
80	10	10	9	9	9	9	9	8	8	8	8	7	7	6	5	5	4	3								
Shut-off PSI		322	313	305	296	287	279	270	261	253	244	227	218	201	175	158	140	123	114	71	28					
2	0									10	10	10	10	10	9	9	9	8	8	8	7	6	5	3	995	
	20								10	10	10	10	10	9	9	9	8	8	7	7	6	6	4			
	30								10	10	10	10	10	9	9	9	8	8	8	7	7	6	5	4		
	40					10	10	10	10	10	9	9	9	9	8	8	7	7	7	6	5	4				
	50				10	10	10	10	10	10	9	9	9	9	8	8	8	7	7	7	6	5	3			
	60			10	10	10	10	10	10	9	9	9	9	8	8	8	7	7	7	7	6	4				
80	10	10	10	10	10	9	9	9	9	9	9	8	8	7	7	7	6	6	5	3						
Shut-off PSI		421	412	404	395	386	378	369	360	352	343	326	317	300	274	257	239	222	213	170	127	84	40			

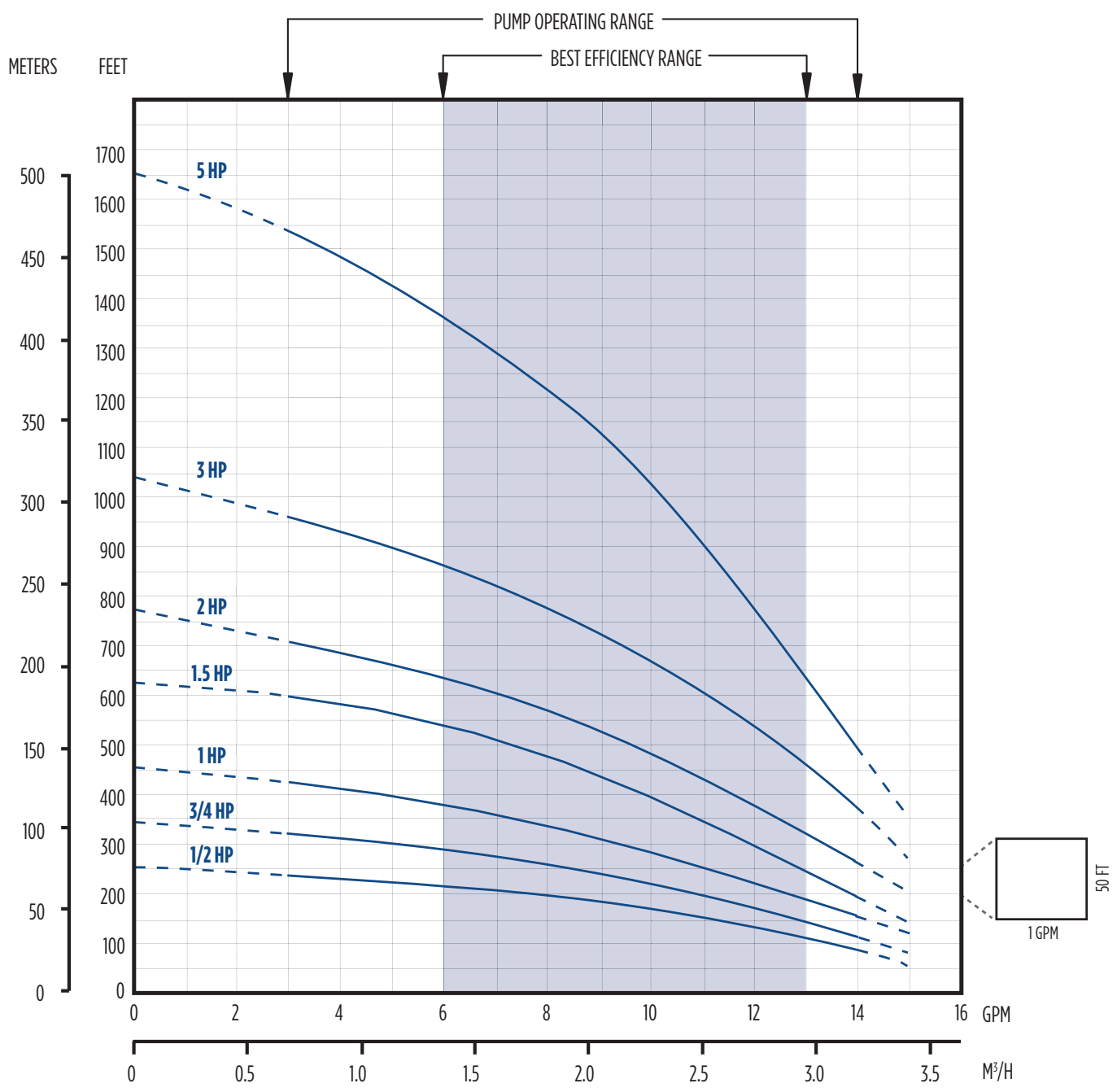
NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

HP	PSI	Depth to Pumping Water Level, or Lift, in Feet. Shaded Areas Indicate Most Efficient Performance														Shut-Off (ft)								
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400									
3	0			10	9	9	8	7	7	6	5	4	2											1310
	20		10	9	9	8	8	7	6	6	5	3												
	30		10	9	9	8	8	7	6	6	4	3												
	40		10	9	9	8	7	7	6	5	4													
	50	10	10	9	8	8	7	7	6	5	4													
	60	10	10	9	8	8	7	7	6	5	3													
80	10	9	8	8	7	7	6	5	4	2														
Shut-off PSI		523	480	437	394	350	307	264	221	177	134	91	48											

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

4" TRI-SEAL PUMPS - 10 GPM

PERFORMANCE



4" TRI-SEAL PUMPS - 10 GPM

PERFORMANCE

HP	PSI	Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance.																				Shut-Off (ft)					
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700		800	900	1000		
1/2	0				14	13	12	11	10	9	7															244	
	20	14	13	13	12	11	10	8	6	3																	
	30	13	13	12	11	10	8	6	3																		
	40	13	12	11	10	8	6	3																			
	50	12	11	9	8	5	3																				
	60	11	10	7	4																						
80	8	6	4																								
Shut-off PSI		97	88	80	71	62	54	45	36	28	19																
3/4	0				14	13	13	12	11	10	7	8	4												338		
	20		14	14	13	12	12	11	10	9	8	6	4														
	30	14	14	13	12	12	11	10	9	8	7	3															
	40	14	13	12	12	11	10	9	8	7	6																
	50	13	12	11	11	10	9	8	7	5	3																
	60	12	11	11	10	9	8	6	5																		
80	11	10	9	8	6	5																					
Shut-off PSI		137	129	120	111	103	94	85	77	68	59	42	34	16													
1	0				14	13	13	12	11	11	9	9	7	3	4										444		
	20				14	13	13	12	11	11	9	9	7	3													
	30				14	13	13	12	11	11	10	9	8	6													
	40			14	13	13	12	11	11	10	9	8	7	5													
	50		14	13	12	12	11	11	10	9	8	7	6														
	60	13	12	12	11	11	10	10	9	8	8	5	4														
80	12	12	11	10	10	9	8	7	6	5																	
Shut-off PSI		183	174	157	148	140	131	123	114	105	97	79	71	53	27	10											
1.5	0						14	13	13	12	12	11	11	9	8	7	6	5							615		
	20						14	13	13	12	12	11	11	10	8	8	6	5	4								
	30						14	13	13	12	12	11	11	10	8	8	6	5	4								
	40				14	13	13	12	12	12	11	10	10	9	8	7	6	4									
	50				14	13	13	12	12	12	11	10	10	9	8	6	5	3									
	60		14	13	13	13	12	12	11	11	11	10	9	9	7	6	4										
80	13	13	13	12	12	11	11	11	10	10	9	9	8	6	3												
Shut-off PSI		257	248	240	231	222	214	205	197	188	179	162	153	136	110	93	75	41	32								
2	0										14	13	13	12	11	10	10	9	6						770		
	20										14	13	13	12	11	10	9	9	8	5							
	30										14	13	13	12	12	11	10	9	8	8	4						
	40										14	13	13	12	12	11	10	9	9	8	7	3					
	50							14	13	13	12	12	11	11	10	9	8	7	6								
	60					14	13	13	12	12	12	11	11	10	9	8	7	6	5								
80			14	13	13	13	12	12	12	11	11	10	9	8	8	6	4	4									
Shut-off PSI		324	316	307	298	290	281	272	264	255	246	229	220	203	177	160	143	125	117	73							
3	0														14	13	13	12	12	11	9	7	5		1034		
	20														14	13	13	12	12	12	10	8	6	3			
	30														14	14	13	13	12	12	11	10	8	5			
	40													14	14	13	13	12	12	11	11	9	7	4			
	50												14	14	14	13	12	12	11	11	11	9	7	4			
	60											14	14	14	13	12	12	11	11	10	9	6	3				
80									14	14	13	13	13	12	12	11	11	10	10	8	5						
Shut-off PSI		438	430	421	413	404	395	387	378	369	361	343	335	317	291	274	257	240	231	188	144	101	58				

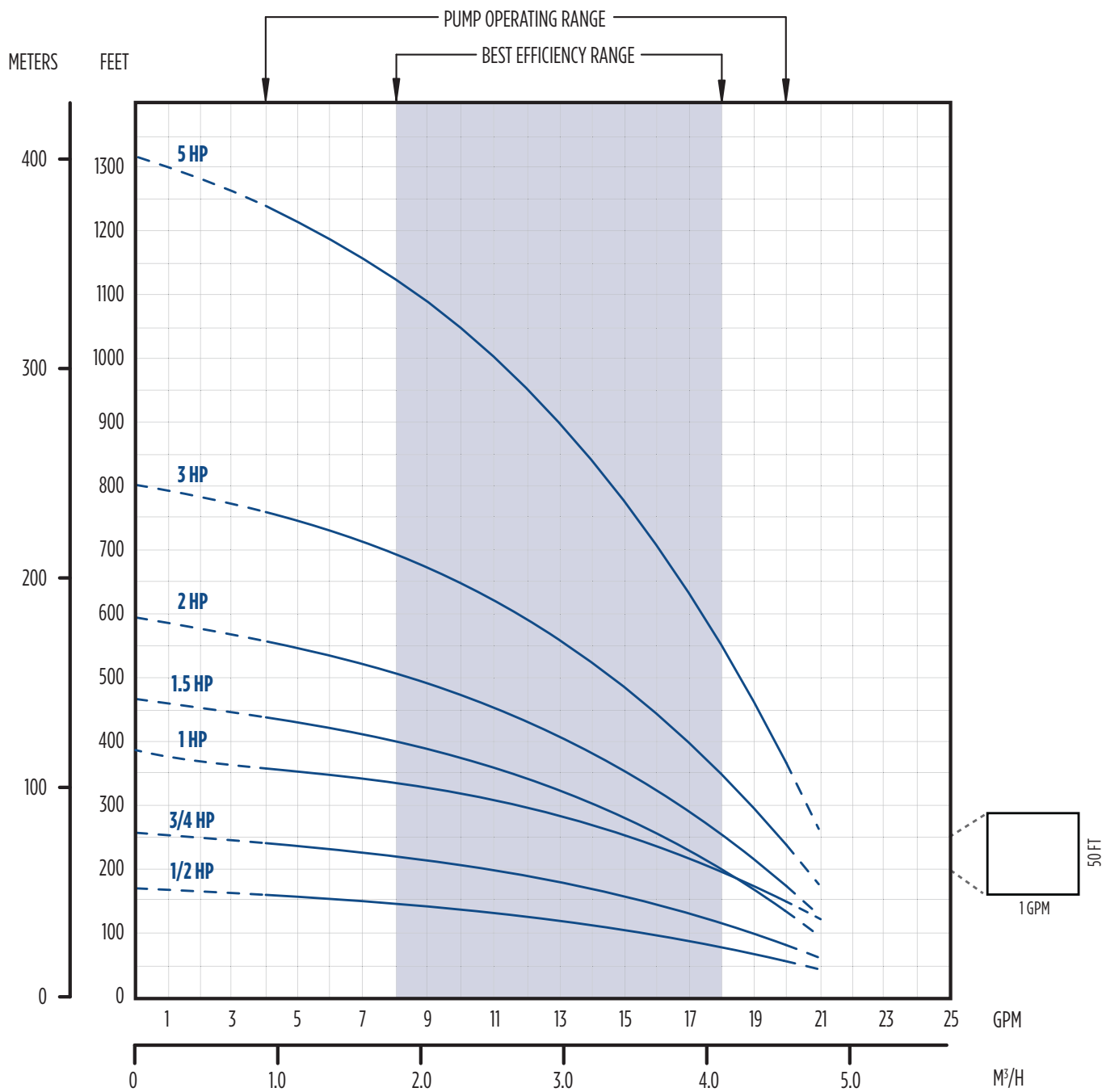
NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

HP	PSI	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	
5	0				14	13	13	12	11	11	10	9	8	6	5	1310
	20				14	13	12	12	11	10	9	8	7	6	4	
	30				14	13	12	12	11	10	9	8	7	5	4	
	40				14	13	12	11	11	10	9	8	7	5	3	
	50				14	13	13	12	11	10	9	9	7	6	3	
	60				14	13	13	12	11	10	9	8	7	6	4	
80			14	14	13	12	11	10	10	9	8	7	5	3		
Shut-off PSI		670	626	583	540	497	453	410	367	324	280	237	194	151	107	

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

4" TRI-SEAL PUMPS - 15 GPM

PERFORMANCE



4" TRI-SEAL PUMPS - 15 GPM

PERFORMANCE

HP	PSI	Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance.																								Shut-Off (ft)		
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700	800	900	1000	1100		1200	
1/2	0			20	18	16	13	9	4																		170	
	20	19	17	15	12	8																						
	30	17	14	11	7																							
	40	14	11	6																								
	50	10	5																									
	60	4																										
	80																											
Shut-off PSI		65	56	48	39	30	22	13	4																			
3/4	0				20	19	18	16	15	13	11																257	
	20		20	19	17	16	14	12	10	7																		
	30	20	18	17	16	14	12	10	6																			
	40	18	17	15	14	12	9	6																				
	50	17	15	13	11	9	5																					
	60	15	13	11	8	4																						
	80	10	7																									
Shut-off PSI		103	94	85	77	68	59	51	42	33	25																	

HP	PSI	Depth to Pumping Water Level, or Lift, in Feet Shaded Areas Indicate Most Efficient Performance																								Shut-Off (ft)	
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200			
1	0									19	19	18	16	12	6												392
	10								19	19	18	17	14	9	2												
	20					20	19	18	18	17	16	12	6														
	30				20	19	18	17	17	15	14	10	3														
	40			20	19	18	17	16	15	14	12	10	3														
	50		20	19	18	17	16	15	14	12	10	7															
	60	20	19	18	17	16	15	14	12	10	7																
	70	19	18	17	16	15	13	11	9	7	4																
	80	18	17	16	15	13	11	9	6	4	1																
	90	17	16	14	13	11	9	6	3																		
	100	15	14	13	11	8	6	3																			
	110	14	12	10	8	5	2																				
	120	12	10	7	5	2																					
	130	9	7	4	1																						
	140	7	4	1																							
	150	3																									
Shut-off psi		153	144	135	127	118	109	101	92	83	62	40	18														

HP	PSI	Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance.																								Shut-Off (ft)	
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700	800	900	1000	1100		1200
1.5	0					20	20	19	19	18	17	16	14	11	8	4											467
	20				20	20	19	18	18	17	16	15	14	12	7												
	30			20	20	19	18	18	17	16	15	14	13	10	5												
	40		20	19	19	18	18	17	16	15	15	13	11	9													
	50	20	19	19	18	17	17	16	15	14	13	11	10	7													
	60	19	19	18	17	17	16	15	14	13	12	10	8	4													
	80	18	17	16	16	15	14	13	12	11	9	6															
Shut-off PSI		193	185	176	167	159	150	141	133	124	115	98	89	72	46	29	11										
2	0								20	20	19	18	17	15	13	12	10	8								594	
	20						20	20	19	19	18	17	17	15	13	11	9	7	5								
	30					20	20	19	19	18	18	16	16	14	12	10	8	5									
	40			20	20	20	19	19	18	18	17	16	15	14	11	9	6										
	50		20	20	19	19	19	18	17	17	16	15	14	13	10	7	4										
	60	20	20	19	19	18	18	17	17	16	16	14	13	12	9	6											
	80	19	19	18	18	17	17	16	15	15	14	12	11	9	5												
Shut-off PSI		249	240	231	223	214	205	197	188	179	171	153	145	127	101	84	67	49	41								
3	0									20	20	19	18	17	16	15	15	12	8							802	
	20								20	20	19	19	18	17	16	15	14	13	10	5							
	30								20	20	20	19	19	18	16	15	14	13	13	9							
	40						20	20	20	20	19	19	18	17	16	15	14	13	12	8							
	50					20	20	20	19	19	19	18	18	17	15	14	13	12	11	7							
	60				20	20	20	19	19	19	18	17	17	16	15	14	12	11	10	5							
	80	20	20	20	20	19	19	19	18	18	17	16	16	15	13	12	11	9	8								
Shut-off PSI		339	330	321	313	304	295	287	278	269	261	243	235	217	191	174	157	139	131	87	44						

HP	PSI	Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance.																		Shut-Off (ft)
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400					
5	0				20	19	17	16	15	13	11	9	6							1316
	20			20	19	18	17	15	14	12	10	7	4							
	30			20	19	18	17	15	14	12	9	7								
	40			20	19	18	16	15	13	11	9	6								
	50		20	19	18	17	16	14	13	11	8	5								
	60		20	19	18	17	16	14	12	10	8	4								
Shut-off PSI		527	483	440	397	353	310	267	224	180	137	94	50							

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

4" TRI-SEAL PUMPS - 20 GPM

PERFORMANCE

The chart displays the performance of 4" tri-seal pumps with a 20 GPM flow rate. The y-axis represents head in meters and feet, and the x-axis represents flow in GPM and M³/H. A shaded region indicates the best efficiency range, and a larger region indicates the pump operating range.

HP	Flow (GPM)	Head (Feet)	Head (Meters)
10 HP	0	1900	600
	5	1850	580
	10	1750	540
	15	1600	490
	20	1400	430
	25	1100	340
7.5 HP	0	1450	440
	5	1400	430
	10	1300	400
	15	1150	350
	20	950	290
	25	700	210
5 HP	0	1000	300
	5	950	290
	10	850	260
	15	750	230
	20	600	180
	25	400	120
3 HP	0	600	180
	5	550	170
	10	480	150
	15	400	120
	20	300	90
	25	200	60
2 HP	0	450	135
	5	420	128
	10	380	116
	15	320	98
	20	250	76
	25	180	54
1.5 HP	0	400	120
	5	380	116
	10	350	107
	15	300	91
	20	240	73
	25	180	54
1 HP	0	300	90
	5	280	85
	10	250	76
	15	210	64
	20	160	49
	25	120	36
3/4 HP	0	200	60
	5	190	58
	10	180	54
	15	160	49
	20	140	43
	25	110	34

24

4" TRI-SEAL PUMPS - 20 GPM

PERFORMANCE

HP	PSI	Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance.																				Shut-Off (ft)			
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700		800	900	1000
3/4	0				24	22	21	18	14																
	20		23	21	19	17	12																		
	30	23	21	19	17	11																			
	40	21	19	17	10																				
	50	19	16	10																					
	60	14																							
Shut-off PSI		74	65	56	48	39	30	22	13																
1	0					26	25	23	20	18	11														
	20			27	26	24	22	20	18	15	8														
	30		27	26	24	22	19	17	14	7															
	40	27	25	23	21	19	17	13																	
	50	25	23	21	19	16	12																		
	60	23	21	18	16	11																			
70	20	18	15	10																					
80	18	15	9																						
Shut-off PSI		100	91	83	74	66	57	48	40	31	22	5													
1.5	0							27	26	24	22	20	17	6											
	20						27	25	24	23	21	18	16	10											
	30					26	25	24	22	21	20	16	13												
	40				26	25	23	22	21	19	18	13	8												
	50		27	26	25	23	22	21	19	17	15	7													
	60	27	26	24	23	22	20	19	17	15	11														
70	26	24	23	21	20	19	17	14	11	5															
80	24	23	21	20	18	16	14	10																	
Shut-off PSI		156	147	138	130	121	112	104	95	86	78	60	52	34	8										
2	0									24	23	20	16	12											
	20									24	21	20	17	12											
	30								24	23	22	20	19	16											
	40						24	23	22	21	19	17	14												
	50					24	23	22	20	19	16	14	10												
	60				24	23	22	20	19	18	14	12													
70			24	23	21	20	19	18	16	14															
80			24	23	21	20	19	18	16	14															
Shut-off PSI		187	179	170	161	153	144	135	127	118	110	92	84	66	40	23									
3	0												24	22	20	18	16	14							
	20												24	23	20	17	15	12	10						
	30												24	23	21	18	16	13	10						
	40												24	23	22	20	17	14	11						
	50												24	24	22	21	19	16	13						
	60												24	24	23	21	20	18	14	10					
70												24	23	22	20	18	15	10							
80												24	23	22	20	18	17	15	10						
Shut-off PSI		251	242	234	225	216	208	199	190	182	173	156	147	130	104	87	69	52	43						
5	0																		24	23	20	16			
	20																		24	21	18	13			
	30																		24	23	20	17	11		
	40																		24	23	20	16	10		
	50																		24	22	22	17	15		
	60																		24	23	22	21	18	14	
70																		24	23	22	21	18	14		
80																		24	23	22	21	20	16		
Shut-off PSI		416	408	399	390	382	373	364	356	347	339	321	313	295	269	252	235	217	209	165	122	79			

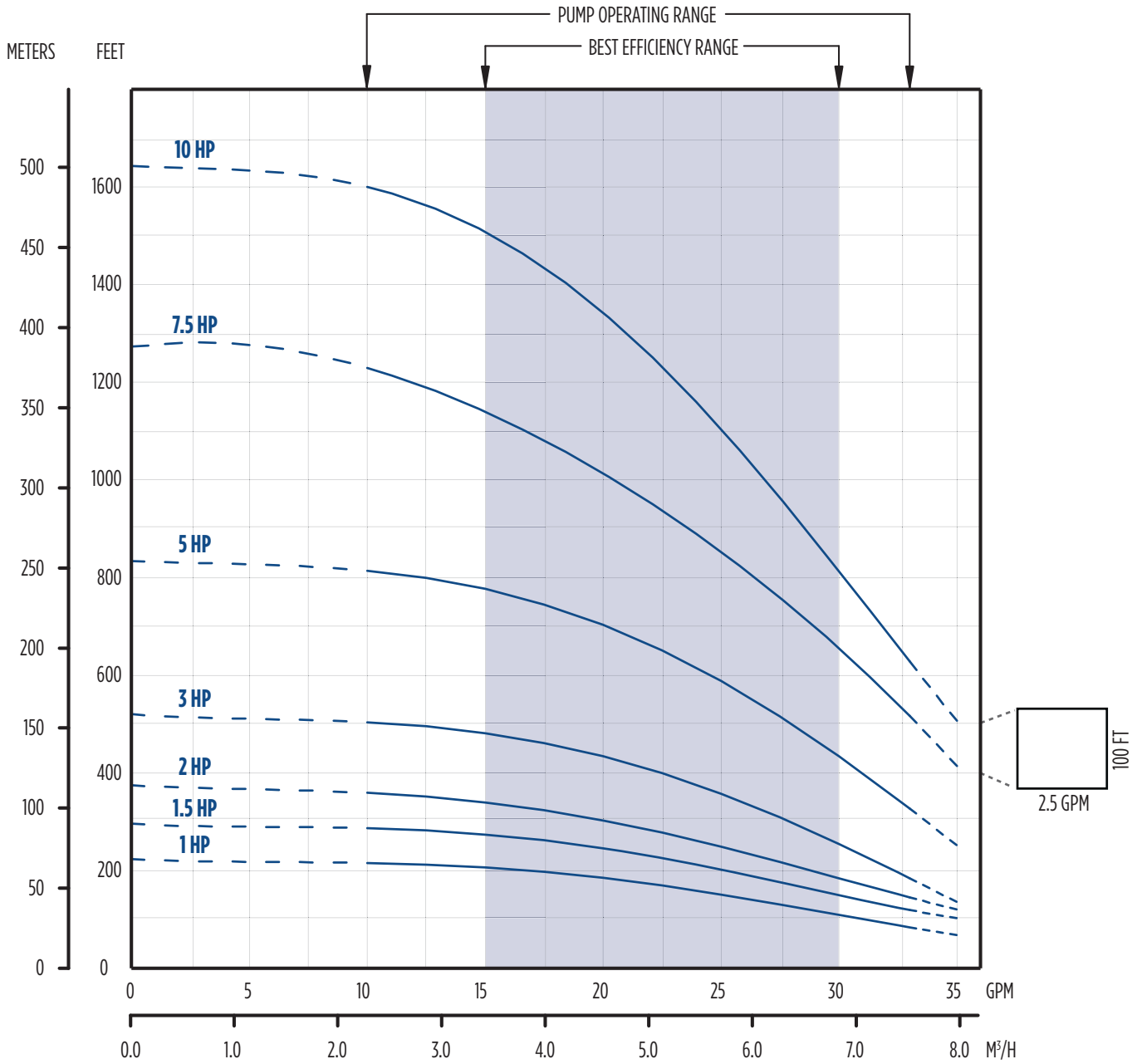
NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

HP	PSI	440	480	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	Shut-Off (ft)	
7.5	0				27	26	24	22	20	18	15	11	5							
	20				27	25	23	22	19	17	14	9								
	30				26	25	23	21	19	16	13	7								
	40				26	24	23	21	18	16	12	6								
	50				27	26	24	22	20	18	15	11								
	60		27	27	25	24	22	20	17	14	9									
80	27	26	26	24	23	21	19	16	12	6										
Shut-off PSI		440	423	414	371	327	284	241	197	154	111	68	24							
10	0							26	25	23	22	21	20	18	16	13	9			
	20							27	25	24	23	22	20	19	17	15	12	7		
	30							27	25	24	23	21	20	19	17	14	11	6		
	40							26	25	23	22	21	20	18	16	14	10			
	50						27	26	24	23	22	21	20	18	16	13	8			
	60						27	26	24	23	22	21	19	18	15	12	7			
80						26	25	24	22	21	20	19	17	14	10	5				
Shut-off PSI		662	644	636	592	549	506	462	419	376	333	289	246	203	159	116	73			

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

4" TRI-SEAL PUMPS - 25 GPM

PERFORMANCE



4" TRI-SEAL PUMPS - 25 GPM

PERFORMANCE

HP	PSI	Depth to Pumping Water Level (Lift) in Feet. Shaded Areas Indicate Most Efficient Performance.																				Shut-Off (ft)				
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700		800	900	1000	
1	0			35	33	31	28	26	24	21	17															222
	20		32	30	28	25	22	18	15																	
	30	32	29	27	25	22	19																			
	40	29	27	25	22	19																				
	50	26	24	21	16																					
	60	24	21	17																						
Shut-off PSI		87	79	70	61	53	44	35	27	18	10															
1.5	0						33	31	29	27	25	21	19												297	
	20				32	30	28	26	24	22	19															
	30			32	30	28	26	24	22	19	16															
	40	33	32	29	27	25	23	21	19	15																
	50	32	29	27	25	23	21	18																		
	60	29	27	25	23	20	18																			
80	24	22	20	17																						
Shut-off PSI		120	111	103	94	85	77	68	59	51	42	25	16													
2	0							33	32	30	28	25	24	20											375	
	20				34	33	31	29	28	26	25	21	20													
	30			34	33	31	29	28	26	24	23	19	17													
	40		34	33	31	29	28	26	24	23	21	17														
	50	33	32	30	29	27	26	24	22	20	18															
	60	32	30	28	27	26	24	22	20	18																
80	28	26	25	23	21	20	17																			
Shut-off PSI		154	145	136	128	119	110	102	93	84	76	58	50	32												
3	0								33	32	30	29	28	24	22	19	15								519	
	20						33	32	32	31	30	28	27	25	22	19										
	30					33	32	32	31	30	29	28	26	25	22	18										
	40				33	32	31	31	30	29	28	27	24	23	21	15										
	50			33	32	31	31	30	29	28	26	25	23	22	19											
	60		33	32	31	31	30	29	28	26	25	23	22	19												
80	32	31	30	29	28	27	26	25	24	23	20	19	15													
Shut-off PSI		216	207	199	190	181	173	164	155	147	138	121	112	95	69	52	34	17								
5	0													33	32	31	30	28	28	24	20				833	
	20													33	32	30	30	28	27	26	22	17				
	30													33	33	31	30	28	27	26	25	21	15			
	40											33	32	32	31	29	28	27	25	24	20					
	50										33	33	32	31	31	30	28	27	25	24	23	19				
	60								33	33	32	31	31	30	28	26	25	23	23	22	18					
80					33	33	32	31	31	30	29	28	26	25	23	21	20									
Shut-off PSI		352	343	326	317	309	300	291	283	274	257	248	231	205	187	170	153	144	101	58						

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

HP	PSI	300	360	400	440	480	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	Shut-Off (ft)	
7.5	0					33	33	31	29	26	23	20	17	12							1281
	20				33	32	32	31	28	25	22	19	15								
	30			33	33	32	32	30	27	24	21	18	14								
	40			33	32	32	31	29	27	24	21	17	12								
	50		33	33	32	31	31	29	26	23	20	17									
	60		33	32	32	31	31	28	25	22	19	16									
80	33	32	32	31	30	30	27	24	21	18	13										
Shut-off PSI		425	399	382	364	347	338	295	252	208	165	122	78	35							
10	0								33	32	30	29	27	25	23	21	19	15	10		1642
	20								33	31	30	28	26	24	22	20	17	13			
	30								32	31	29	27	26	24	22	19	17	12			
	40							33	32	30	29	27	25	23	21	19	16	10			
	50						33	33	32	30	28	27	25	23	21	18	15				
	60						33	33	31	30	28	26	24	22	20	18	14				
80					33	32	32	31	29	27	25	23	21	19	16	11					
Shut-off PSI		581	555	538	520	503	494	451	408	365	321	278	235	191	148	105	61	18			

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

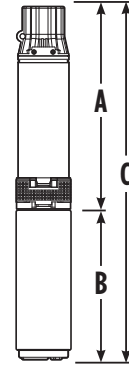
4" TRI-SEAL PUMPS - DIMENSIONS

THERMOPLASTIC

GPM	HP	Stages	2-Wire					3-Wire				
			Dimensions (in)			Wt. (lbs)		Dimensions (in)			Wt. (lbs)	
			A	B	C	PE	PMA	A	B	C	PE	PMA
5	1/2	8	14.12	9.51	23.63	8	26	14.12	9.51	23.63	8	26
	3/4	12	17.41	10.64	28.05	9	30	17.41	10.64	28.05	9	30
	1	15	19.87	11.73	31.60	10	34	19.87	11.73	31.60	10	34
7	1.5	21	24.81	15.10	39.91	12	43	24.81	13.60	38.41	12	40
	1/2	7	13.30	9.51	22.81	7	25	13.30	9.51	22.81	7	26
	3/4	10	15.76	10.64	26.40	8	29	15.76	10.64	26.40	8	29
10	1	13	18.23	11.73	29.96	10	34	18.23	11.73	29.96	10	34
	1.5	18	22.34	15.10	37.44	11	42	22.34	13.60	35.94	11	39
	1/2	6	12.97	9.51	22.48	7	25	12.97	9.51	22.48	7	26
15	3/4	8	14.69	10.64	25.33	8	29	14.69	10.64	25.33	8	29
	1	11	17.44	11.73	29.17	9	33	17.44	11.73	29.17	9	33
	1.5	15	21.06	15.10	36.16	10	41	21.06	13.60	34.66	10	38
20	1/2	4	11.45	9.51	20.96	6	24	11.45	9.51	20.96	6	25
	3/4	6	12.97	10.64	23.61	7	28	12.97	10.64	23.61	7	28
	1	8	14.69	11.73	26.42	8	32	14.69	11.73	26.42	8	32
25	1.5	11	17.44	15.10	32.54	9	40	17.44	13.60	31.04	9	37
	3/4	5	13.65	10.64	24.29	6	28	13.65	10.64	24.29	6	28
	1	7	16.10	11.73	26.42	8	32	16.10	11.73	27.83	7	31
25	1.5	10	19.77	15.10	34.87	8	39	19.77	13.60	33.37	8	36
	1	6	14.88	11.73	26.61	7	31	14.88	11.73	26.61	7	31
		8	17.32	15.10	32.42	8	39	17.32	15.10	30.92	8	36

NOTES: PE = Pump end only; PMA = Pump and motor assembly; Maximum diameter with cable guard is 3.90"

Thermoplastic

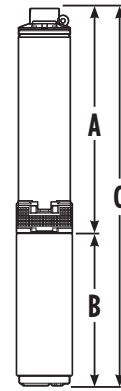


4" TRI-SEAL PUMPS - DIMENSIONS

STAINLESS STEEL

GPM	HP	Stages	2-Wire						3-Wire					
			Dimensions (in)			Wt. (lbs)			Dimensions (in)			Wt. (lbs)		
			A	B	C	PE	PMA	A	B	C	PE	PMA		
5	1/2	8	13.57	9.51	23.08	10	28	13.57	9.51	23.08	10	29		
	3/4	12	16.86	10.64	27.50	12	33	16.86	10.64	27.50	12	33		
	1	15	19.33	11.73	31.06	14	38	19.33	11.73	31.06	14	38		
	1.5	21	24.26	15.10	39.36	17	48	24.26	13.60	37.86	17	45		
	2	26	-	-	-	-	-	30.46	15.10	45.56	20	-		
7	1/2	7	12.75	9.51	22.26	9	27	12.75	9.51	22.26	9	28		
	3/4	10	15.22	10.64	25.86	11	32	15.22	10.64	25.86	11	32		
	1	13	17.68	11.73	29.41	13	37	17.68	11.73	29.41	13	37		
	1.5	18	21.80	15.10	36.90	15	46	21.80	13.60	35.40	15	43		
	2	24	-	-	-	-	-	26.73	15.10	41.83	19	-		
	3	32	-	-	-	-	-	35.39	19.04	54.43	23	-		
10	1/2	6	12.39	9.51	21.90	7	25	12.39	9.51	21.90	9	28		
	3/4	8	14.14	10.64	24.78	10	31	14.14	10.64	24.78	10	31		
	1	11	16.85	11.73	28.58	11	35	16.85	11.73	28.58	11	35		
	1.5	15	20.48	15.10	35.58	14	45	20.48	13.60	34.08	14	42		
	2	18	-	-	-	-	-	25.26	15.10	40.36	15	-		
	3	19	-	-	-	-	-	26.17	19.04	45.21	16	-		
	5	31	-	-	-	-	-	37.00	29.19	66.19	23	-		
15	1/2	4	10.64	9.51	20.15	7	25	10.64	9.51	20.15	7	26		
	3/4	6	12.39	10.64	23.03	9	30	12.39	10.64	23.03	9	30		
	1	8	14.14	11.73	25.87	10	34	14.14	11.73	25.87	10	34		
	1.5	11	16.85	15.10	31.95	11	42	16.85	13.60	30.45	11	39		
	2	14	-	-	-	-	-	19.57	15.10	34.67	13	-		
	3	19	-	-	-	-	-	26.17	19.04	45.21	16	-		
	5	31	-	-	-	-	-	37.00	29.19	66.19	23	-		
20	3/4	5	13.10	10.64	23.74	8	29	13.10	10.64	23.74	8	29		
	1	7	15.55	11.73	27.28	9	33	15.55	11.73	27.28	9	33		
	1.5	10	19.22	15.10	34.32	11	42	19.22	13.60	32.82	11	39		
	2	12	-	-	-	-	-	21.66	15.10	36.76	12	-		
	3	16	-	-	-	-	-	26.55	19.04	45.59	14	-		
	5	26	-	-	-	-	-	40.86	29.19	70.05	20	-		
	7.5	39	-	-	-	-	-	60.77	29.60	90.37	27	-		
	10	52	-	-	-	-	-	76.66	32.60	109.26	35	-		
25	1	6	14.33	11.73	26.06	9	33	14.33	11.73	26.06	9	33		
	1.5	8	16.77	15.10	31.87	10	41	16.77	13.60	30.37	10	38		
	2	10	-	-	-	-	-	19.22	15.10	34.32	11	-		
	3	14	-	-	-	-	-	24.11	19.04	43.15	13	-		
	5	23	-	-	-	-	-	37.19	28.19	66.38	18	-		
	7.5	35	-	-	-	-	-	55.88	29.60	85.48	25	-		
	10	44	-	-	-	-	-	66.88	32.60	99.48	30	-		

Stainless Steel



NOTES: PE = Pump end only; PMA = Pump and motor assembly; Maximum diameter with cable guard is 3.90"