

## 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	Motor	Model	Order	Motor	Control Box
5	1/2	8	115	5JS05P4-2W115	93740505	2445049004S	5JS05P4-3W115	93740530	2145049004S	2801044915
	1/2	8	230	5JS05P4-2W230	93740510	2445059004S	5JS05P4-3W230	93740535	2145059004S	2801054915
	3/4	12	230	5JS07P4-2W230	93740515	2445079004S	5JS07P4-3W230	93740540	2145079004S	2801074915
	1	15	230	5JS1P4-2W230	93740520	2445089003S	5JS1P4-3W230	93740545	2145089003S	2801084915
7	1.5	21	230	5JS15P4-2W230	93740525	2443099004S	5JS15P4-3W230	93740550	2243009203S	2823008110
	1/2	7	115	7JS05P4-2W115	93740705	2445049004S	7JS05P4-3W115	93740730	2145049004S	2801044915
	1/2	7	230	7JS05P4-2W230	93740710	2445059004S	7JS05P4-3W230	93740735	2145059004S	2801054915
	3/4	10	230	7JS07P4-2W230	93740715	2445079004S	7JS07P4-3W230	93740740	2145079004S	2801074915
10	1	13	230	7JS1P4-2W230	93740720	2445089003S	7JS1P4-3W230	93740745	2145089003S	2801084915
	1.5	18	230	7JS15P4-2W230	93740725	2443099004S	7JS15P4-3W230	93740750	2243009203S	2823008110
	1/2	6	115	10JS05P4-2W115	93741005	2445049004S	10JS05P4-3W115	93741030	2145049004S	2801044915
	1/2	6	230	10JS05P4-2W230	93741010	2445059004S	10JS05P4-3W230	93741035	2145059004S	2801054915
15	3/4	8	230	10JS07P4-2W230	93741015	2445079004S	10JS07P4-3W230	93741040	2145079004S	2801074915
	1	11	230	10JS1P4-2W230	93741020	2445089003S	10JS1P4-3W230	93741045	2145089003S	2801084915
	1.5	15	230	10JS15P4-2W230	93741025	2443099004S	10JS15P4-3W230	93741050	2243009203S	2823008110
	1/2	4	115	15JS05P4-2W115	93741505	2445049004S	15JS05P4-3W115	93741530	2145049004S	2801044915
20	1/2	4	230	15JS05P4-2W230	93741510	2445059004S	15JS05P4-3W230	93741535	2145059004S	2801054915
	3/4	6	230	15JS07P4-2W230	93741515	2445079004S	15JS07P4-3W230	93741540	2145079004S	2801074915
	1	9	230	15JS1P4-2W230	93741520	2445089003S	15JS1P4-3W230	93741545	2145089003S	2801084915
	1.5	11	230	15JS15P4-2W230	93741525	2443099004S	15JS15P4-3W230	93741550	2243009203S	2823008110
25	3/4	5	230	20JS07P4-2W230	93742015	2445079004S	20JS07P4-3W230	93742040	2145079004S	2801074915
	1	7	230	20JS1P4-2W230	93742020	2445089003S	20JS1P4-3W230	93742045	2145089003S	2801084915
	1.5	10	230	20JS15P4-2W230	93742025	2443099004S	20JS15P4-3W230	93742050	2243009203S	2823008110
25	1	6	230	25JS1P4-2W230	93742520	2445089003S	25JS1P4-3W230	93742545	2145089003S	2801084915
	1.5	8	230	25JS15P4-2W230	93742525	2443099004S	25JS15P4-3W230	93742550	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	Motor	Model	Order	Motor	Control Box
5	1/2	8	115	5JS05S4-2W115	93760505	2445049004S	5JS05S4-3W115	93760530	2145049004S	2801044915
	1/2	8	230	5JS05S4-2W230	93760510	2445059004S	5JS05S4-3W230	93760535	2145059004S	2801054915
	3/4	12	230	5JS07S4-2W230	93760515	2445079004S	5JS07S4-3W230	93760540	2145079004S	2801074915
	1	15	230	5JS1S4-2W230	93760520	2445089003S	5JS1S4-3W230	93760545	2145089003S	2801084915
7	1.5	21	230	5JS15S4-2W230	93760525	2443099004S	5JS15S4-3W230	93760550	2243009203S	2823008110
	1/2	7	115	7JS05S4-2W115	93760705	2445049004S	7JS05S4-3W115	93760730	2145049004S	2801044915
	1/2	7	230	7JS05S4-2W230	93760710	2445059004S	7JS05S4-3W230	93760735	2145059004S	2801054915
	3/4	10	230	7JS07S4-2W230	93760715	2445079004S	7JS07S4-3W230	93760740	2145079004S	2801074915
10	1	13	230	7JS1S4-2W230	93760720	2445089003S	7JS1S4-3W230	93760745	2145089003S	2801084915
	1.5	18	230	7JS15S4-2W230	93760725	2443099004S	7JS15S4-3W230	93760750	2243009203S	2823008110
	1/2	6	115	10JS05S4-2W115	93761005	2445049004S	10JS05S4-3W115	93761030	2145049004S	2801044915
	1/2	6	230	10JS05S4-2W230	93761010	2445059004S	10JS05S4-3W230	93761035	2145059004S	2801054915
15	3/4	8	230	10JS07S4-2W230	93761015	2445079004S	10JS07S4-3W230	93761040	2145079004S	2801074915
	1	11	230	10JS1S4-2W230	93761020	2445089003S	10JS1S4-3W230	93761045	2145089003S	2801084915
	1.5	15	230	10JS15S4-2W230	93761025	2443099004S	10JS15S4-3W230	93761050	2243009203S	2823008110
	1/2	4	115	15JS05S4-2W115	93761505	2445049004S	15JS05S4-3W115	93761530	2145049004S	2801044915
20	1/2	4	230	15JS05S4-2W230	93761510	2445059004S	15JS05S4-3W230	93761535	2145059004S	2801054915
	3/4	6	230	15JS07S4-2W230	93761515	2445079004S	15JS07S4-3W230	93761540	2145079004S	2801074915
	1	9	230	15JS1S4-2W230	93761520	2445089003S	15JS1S4-3W230	93761545	2145089003S	2801084915
	1.5	11	230	15JS15S4-2W230	93761525	2443099004S	15JS15S4-3W230	93761550	2243009203S	2823008110
25	3/4	5	230	20JS07S4-2W230	93762015	2445079004S	20JS07S4-3W230	93762040	2145079004S	2801074915
	1	7	230	20JS1S4-2W230	93762020	2445089003S	20JS1S4-3W230	93762045	2145089003S	2801084915
	1.5	10	230	20JS15S4-2W230	93762025	2443099004S	20JS15S4-3W230	93762050	2243009203S	2823008110
25	1	6	230	25JS1S4-2W230	93762520	2445089003S	25JS1S4-3W230	93762545	2145089003S	2801084915
	1.5	8	230	25JS15S4-2W230	93762525	2443099004S	25JS15S4-3W230	93762550	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
5	1/2	8	5JS05P4-PE	93750505
	3/4	12	5JS07P4-PE	93750510
	1	15	5JS1P4-PE	93750515
	1.5	21	5JS15P4-PE	93750520
7	1/2	7	7JS05P4-PE	93750705
	3/4	10	7JS07P4-PE	93750710
	1	13	7JS1P4-PE	93750715
	1.5	18	7JS15P4-PE	93750720
10	1/2	6	10JS05P4-PE	93751005
	3/4	8	10JS07P4-PE	93751010
	1	11	10JS1P4-PE	93751015
	1.5	15	10JS15P4-PE	93751020
15	1/2	4	15JS05P4-PE	93751505
	3/4	6	15JS07P4-PE	93751510
	1	9	15JS1P4-PE	93751515
	1.5	11	15JS15P4-PE	93751520
20	3/4	5	20JS07P4-PE	93752010
	1	7	20JS1P4-PE	93752015
	1.5	10	20JS15P4-PE	93752020
25	1	6	25JS1P4-PE	93752515
	1.5	8	25JS15P4-PE	93752520

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

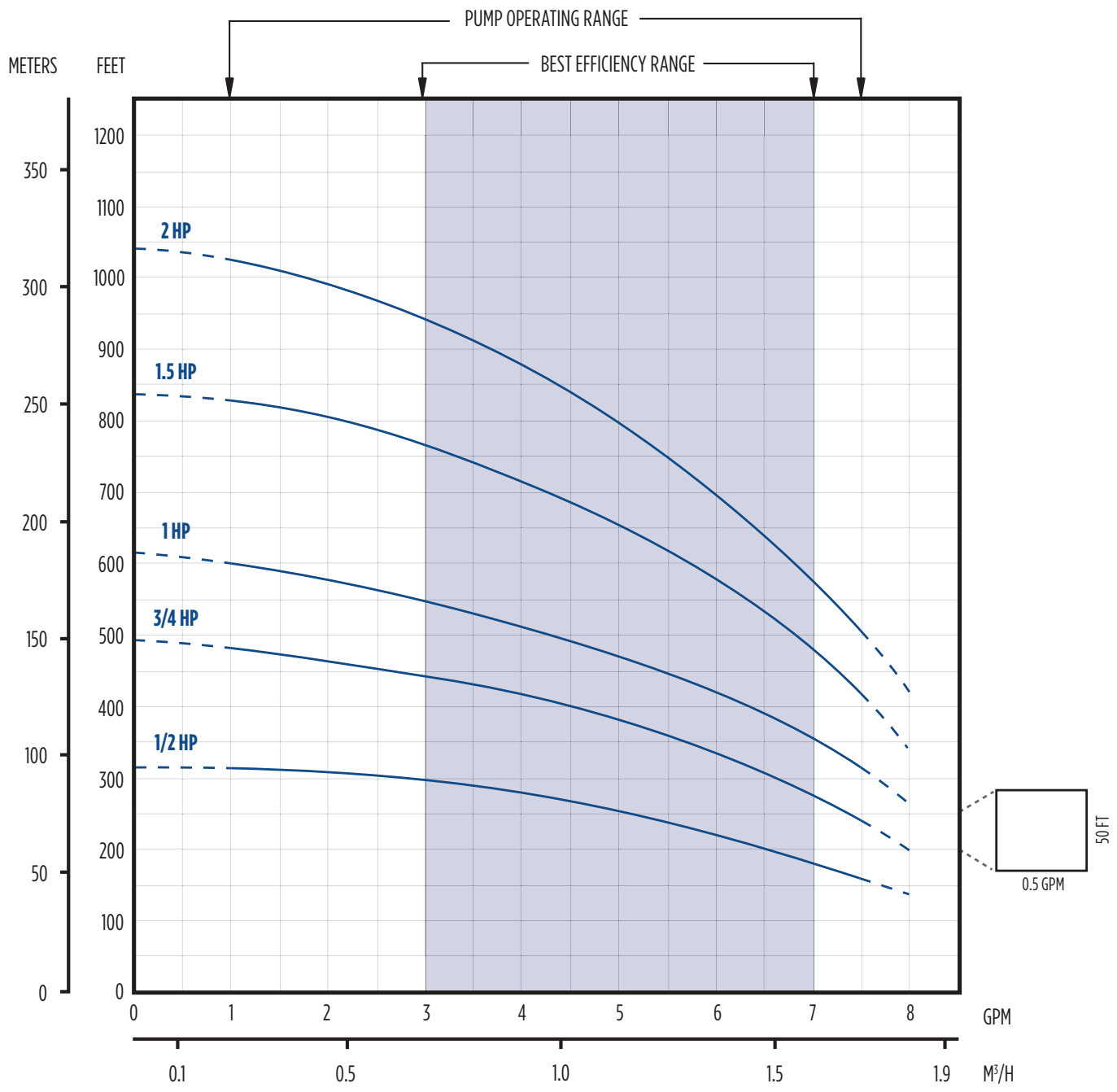
STAINLESS STEEL PUMP ENDS

GPM	HP	Stages	Model	Order
5	1/2	8	5JS05S4-PE	93770505
	3/4	12	5JS07S4-PE	93770510
	1	15	5JS1S4-PE	93770515
	1.5	21	5JS15S4-PE	93770520
	2	26	5JS2S4-PE	93770525
7	1/2	7	7JS05S4-PE	93770705
	3/4	10	7JS07S4-PE	93770710
	1	13	7JS1S4-PE	93770715
	1.5	18	7JS15S4-PE	93770720
	2	24	7JS2S4-PE	93770725
10	3	32	7JS3S4-PE	93770730
	1/2	6	10JS05S4-PE	93771005
	3/4	8	10JS07S4-PE	93771010
	1	11	10JS1S4-PE	93771015
	1.5	15	10JS15S4-PE	93771020
	2	18	10JS2S4-PE	93771025
	3	24	10JS3S4-PE	93771030
	5	39	10JS5S4-PE	93771035
	1/2	4	15JS05S4-PE	93771505
	3/4	6	15JS07S4-PE	93771510
15	1	9	15JS1S4-PE	93771515
	1.5	11	15JS15S4-PE	93771520
	2	14	15JS2S4-PE	93771525
	3	19	15JS3S4-PE	93771530
	5	31	15JS5S4-PE	93771535
	3/4	5	20JS07S4-PE	93772010
	1	7	20JS1S4-PE	93772015
	1.5	10	20JS15S4-PE	93772020
	2	12	20JS2S4-PE	93772025
	3	16	20JS3S4-PE	93772030
20	5	26	20JS5S4-PE	93772035
	7.5	39	20JS7S4-PE	93772040
	10	52	20JS10S4-PE	93772045
	1	6	25JS1S4-PE	93772515
	1.5	8	25JS15S4-PE	93772520
	2	10	25JS2S4-PE	93772525
	3	14	25JS3S4-PE	93772530
	5	23	25JS5S4-PE	93772535
	7.5	35	25JS7S4-PE	93772540
	10	44	25JS10S4-PE	93772545

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												315	
	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								5495	
	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						615	
	20												7	7	7	6	5	4	3							
	30												7	7	7	6	5	5	3	2						
	40										7	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			835	
	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	6	6	5	5	3			
	60															7	7	7	6	6	5	5	3			
	80															7	7	7	6	6	5	5	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		1040	
	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 graph displays the performance characteristics of 4" tri-seal pumps. The y-axis represents head in meters (0 to 1400) and feet (0 to 350). The x-axis represents flow in GPM (0 to 12) and M<sup>3</sup>/H (0 to 2.5). A shaded region indicates the 'BEST EFFICIENCY RANGE' between approximately 5.5 and 9 GPM. A larger 'PUMP OPERATING RANGE' is indicated by arrows from approximately 2.5 to 10.5 GPM. A vertical scale bar on the right indicates 50 FT.

Flow (GPM)	Flow (M <sup>3</sup> /H)	3 HP Head (ft)	2 HP Head (ft)	1.5 HP Head (ft)	1 HP Head (ft)	3/4 HP Head (ft)	1/2 HP Head (ft)
0	0	1300	1000	780	550	420	300
1	0.5	1250	980	750	530	410	290
2	1.0	1200	950	720	510	400	280
3	1.5	1150	920	700	490	390	270
4	2.0	1100	890	680	470	380	260
5	2.5	1050	860	660	450	370	250
6	3.0	1000	830	640	430	360	240
7	3.5	950	800	620	410	350	230
8	4.0	900	770	600	390	340	220
9	4.5	850	740	580	370	330	210
10	5.0	800	710	560	350	320	200
11	5.5	750	680	540	330	310	190
12	6.0	700	650	520	310	300	180

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	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	7	6	6	5	5							
	60	10	10	10	10	9	9	9	9	9	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	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	3				
	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	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

The chart displays the performance of 4" tri-seal pumps with a 10 GPM flow rate. The y-axis represents head in meters and feet, and the x-axis represents flow in GPM and M<sup>3</sup>/H. A shaded region indicates the best efficiency range, and a larger bracketed region indicates the pump operating range.

Flow (GPM)	Flow (M <sup>3</sup> /H)	5 HP Head (ft)	3 HP Head (ft)	2 HP Head (ft)	1.5 HP Head (ft)	1 HP Head (ft)	3/4 HP Head (ft)	1/2 HP Head (ft)
0	0	1700	1050	780	650	480	380	280
2	0.5	1600	1000	750	620	450	350	250
4	1.0	1450	920	700	580	420	320	220
6	1.5	1300	850	650	540	380	280	190
8	2.0	1150	780	600	500	340	240	150
10	2.5	1000	700	550	450	290	190	100
12	3.0	850	620	500	400	230	130	50
14	3.5	700	540	450	350	170	70	0

20



### 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	10	9	7	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	10	9	9	8	7						615	
	20								14	13	13	12	12	11	11	10	9	8	7	6	5						
	30								14	13	13	12	12	11	11	10	8	8	6	5	4						
	40						14	13	13	12	12	12	11	10	10	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	9	8	7				770	
	20											14	13	13	12	12	11	10	9	9	8	8	5				
	30											14	13	13	12	12	11	10	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	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				

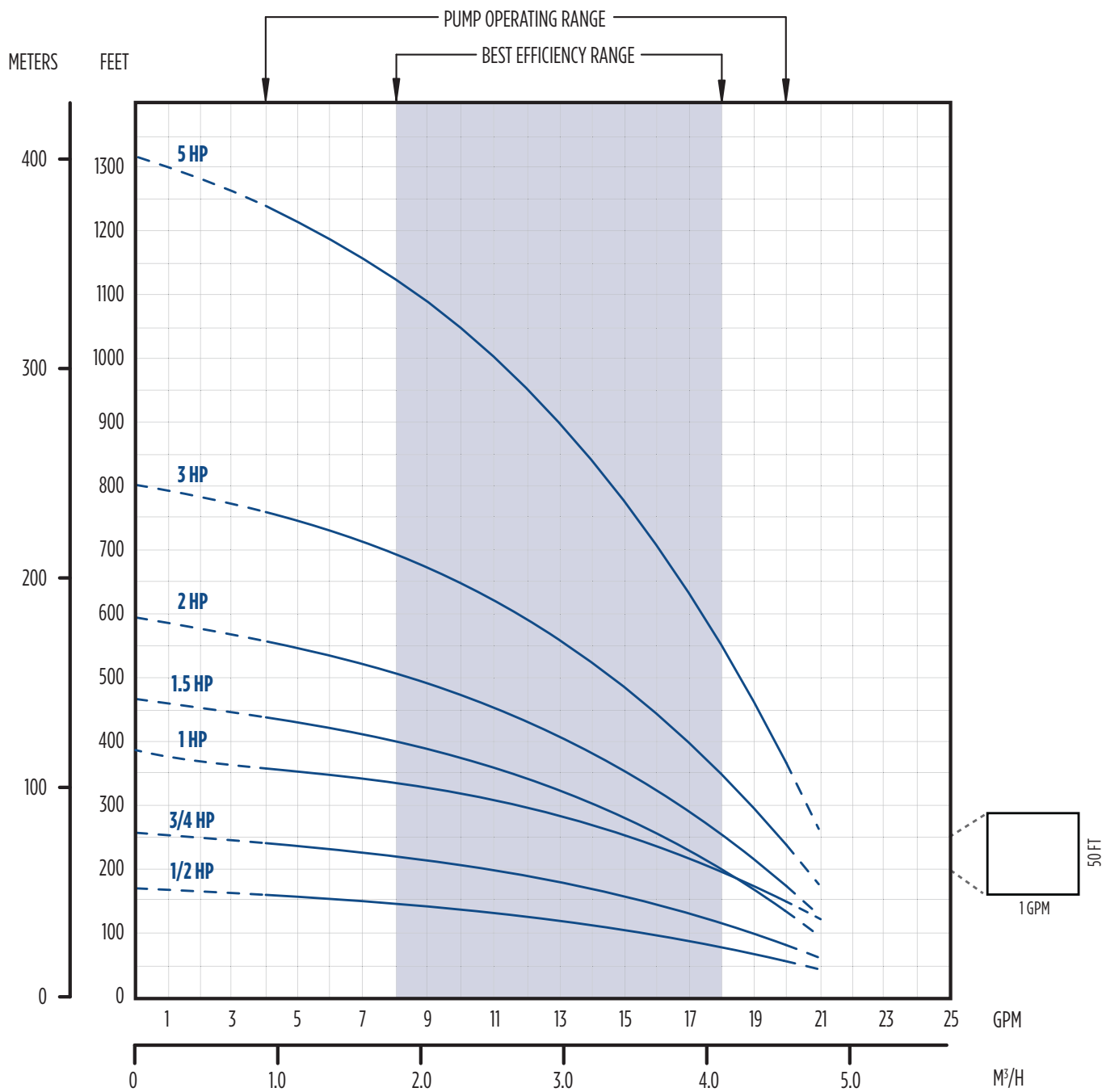
NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

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	11	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	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	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	20	19	18	17	16	15	15	12	8							802		
	20							20	20	20	19	19	18	17	16	15	14	13	10	5								
	30							20	20	20	19	19	18	18	16	15	14	13	13	9								
	40						20	20	20	19	19	18	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 flow rate of 20 GPM. The y-axis represents head in meters and feet, and the x-axis represents flow in GPM and M<sup>3</sup>/H. A shaded region indicates the best efficiency range, and a larger region indicates the pump operating range.

HP	Head (Feet)	Head (Meters)	Flow (GPM)	Flow (M <sup>3</sup> /H)
10 HP	1900	600	0	0
10 HP	1800	550	5	1.0
10 HP	1600	500	10	2.0
10 HP	1400	450	15	3.0
10 HP	1200	350	20	4.0
10 HP	1000	300	25	5.0
10 HP	800	250	30	6.0
7.5 HP	1450	450	0	0
7.5 HP	1400	400	5	1.0
7.5 HP	1200	350	10	2.0
7.5 HP	1000	300	15	3.0
7.5 HP	800	250	20	4.0
7.5 HP	600	200	25	5.0
7.5 HP	400	150	30	6.0
5 HP	1000	300	0	0
5 HP	950	290	5	1.0
5 HP	850	260	10	2.0
5 HP	750	230	15	3.0
5 HP	600	180	20	4.0
5 HP	450	140	25	5.0
5 HP	300	100	30	6.0
3 HP	600	200	0	0
3 HP	580	190	5	1.0
3 HP	500	160	10	2.0
3 HP	400	130	15	3.0
3 HP	300	100	20	4.0
3 HP	200	70	25	5.0
3 HP	150	50	30	6.0
2 HP	450	140	0	0
2 HP	430	135	5	1.0
2 HP	380	120	10	2.0
2 HP	300	100	15	3.0
2 HP	250	80	20	4.0
2 HP	200	65	25	5.0
2 HP	150	50	30	6.0
1.5 HP	400	130	0	0
1.5 HP	380	125	5	1.0
1.5 HP	350	115	10	2.0
1.5 HP	280	95	15	3.0
1.5 HP	250	85	20	4.0
1.5 HP	200	70	25	5.0
1.5 HP	150	55	30	6.0
1 HP	300	100	0	0
1 HP	280	95	5	1.0
1 HP	250	85	10	2.0
1 HP	200	70	15	3.0
1 HP	180	65	20	4.0
1 HP	150	55	25	5.0
1 HP	120	45	30	6.0
3/4 HP	200	70	0	0
3/4 HP	180	65	5	1.0
3/4 HP	150	55	10	2.0
3/4 HP	120	45	15	3.0
3/4 HP	100	35	20	4.0
3/4 HP	80	30	25	5.0
3/4 HP	60	25	30	6.0

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	17	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	10			
Shut-off PSI		416	408	399	390	382	373	364	356	347	339	321	313	295	269	252	235	217	209	165	122	79			

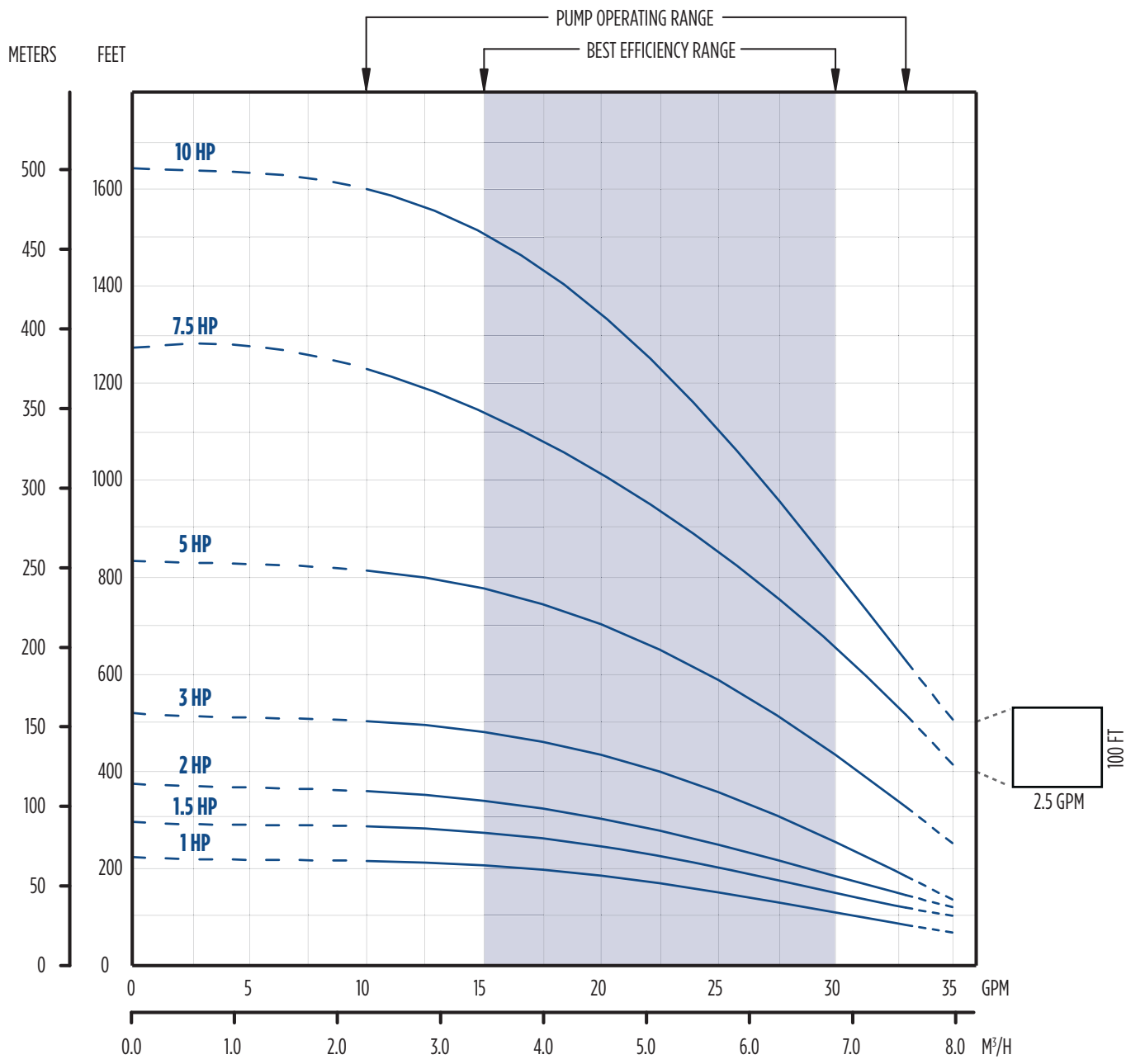
NOTES: Performance shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

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







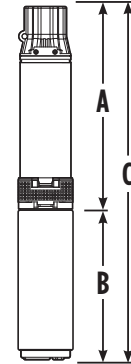
## 4" TRI-SEAL PUMPS - DIMENSIONS

### 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

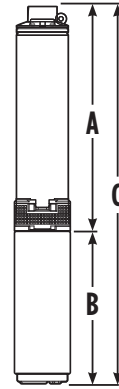


4" TRI-SEAL PUMPS - DIMENSIONS

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	-		
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	-		
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"