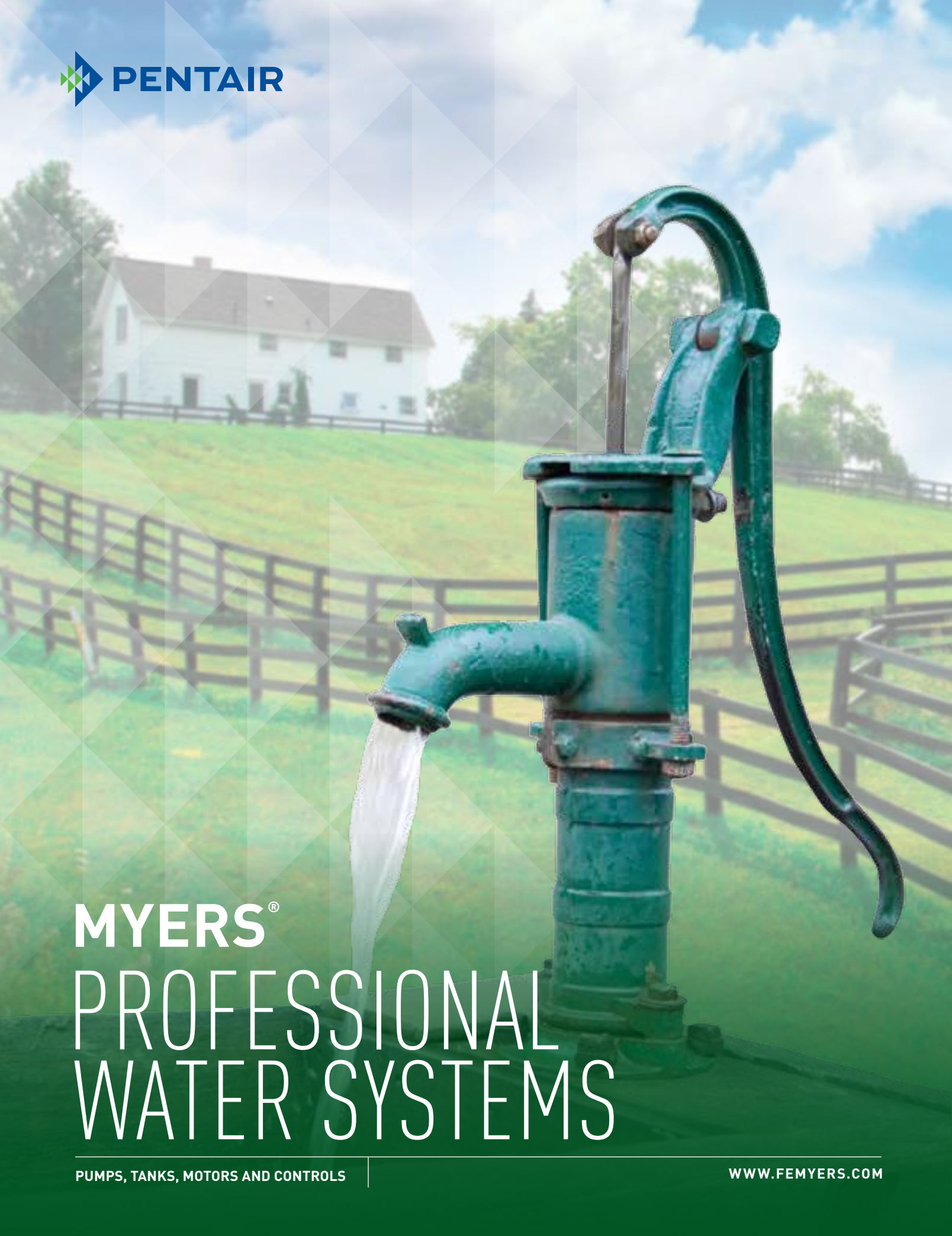




MYERS[®] PROFESSIONAL WATER SYSTEMS

PUMPS, TANKS, MOTORS AND CONTROLS

WWW.FEMYERS.COM

Performance Proven Line-Up

Performance Proven Myers® 4" Submersibles Now Feature the Pentek® XE Series Motors.

- Engineered for extra efficiency and durability.
- 2-wire permanent split capacitor design draws up to 22% fewer amps, patented toroidal capacitor reduces vibration and noise.
- Pumps supplied with the XE Series Motor are factory tested and comply with CSA CUS safety certifications.
- 3-wire motors, when operated with a Pentek SMC-CR control box, draw 22% fewer amps, due to superior motor and controls technology.

UP
TO **22%** LOWER
AMP
DRAW



FINALLY, A MOTOR AS TOUGH AS OUR PUMPS

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Predator Plus

The Predator Plus Series 4" submersible pumps have a proven track record for reliability and performance, and are the preferred brand by many industry professionals. Stainless steel construction and self-lubricating impellers provide reliable performance under the most demanding conditions. The Predator Plus also features the Pentek® XE Series, high-thrust motor for increased efficiency and extended service life.

APPLICATIONS

■ **Water systems...**residential, industrial, commercial, multiple housing and farm clean water use.

SPECIFICATIONS

Shell – 300 Series Stainless Steel
Discharge – 300 Series Stainless Steel
Discharge Bearing – Nitrile rubber
Impellers – Engineered composite
Diffusers – Engineered composite
Suction Caps – Engineered composite
Shaft and Coupling – 300 Series Stainless Steel
Intake – 300 Series Stainless Steel
Intake Screen – 300 Series Stainless Steel
Cable Guard – 300 Series Stainless Steel
Internal Check Valve – Spring loaded
Fasteners – 304 Stainless Steel

FEATURES

Nothing Better – Top-of-the-line 4" submersible pump is unequalled in the marketplace.

Stainless Steel – Shell, discharge bowl, shaft and coupling, wear ring and suction screen – all lead-free.

Gritty Performance – Self-lubricating impellers resist abrasion from grit and sand – Teflon® impregnated staging proven to outlast the competition.

Supreme Power – Features the high-thrust Pentek XE motor for the ultimate in power, efficient performance and longer life. Thermal overload and lightning protected.

On the Job – Field serviceable, threaded pump assembly.

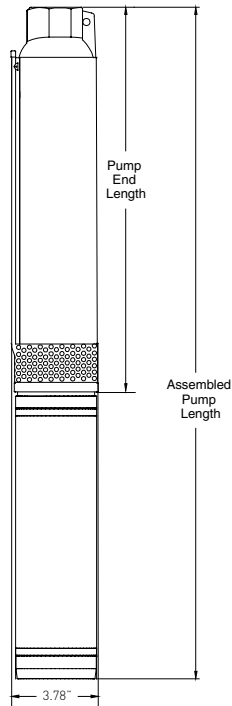
An Eye for Safety – Built-in eyelet for safety line connection.

POWERED BY
PENTEK®



Predator Plus

OUTLINE DIMENSIONS



CABLE SELECTION

THREE WIRE CABLE, 60 Hz (Service Entrance to Motor – Maximum Length in Feet)

Motor Rating		Wire Size, AWG										
HP	Volt	14	12	10	8	6	4	3	2	1	0	00
CSIR Control Boxes												
1/2	115	87	138	221	349	544	867	1090	1376	1734	2188	2761
1/2	230	348	553	883	1398	2175	3467	4359	5505	6935	8753	–
3/4	230	264	420	670	1061	1651	2632	3309	4178	5264	6644	8383
1	230	226	359	573	908	1413	2252	2831	3575	4504	5685	7173
CSCR Control Boxes												
1/2	230	447	711	1135	1797	2796	4458	5604	7078	8916	11254	–
3/4	230	348	553	883	1398	2175	3467	4359	5505	6935	8753	11044
1	230	304	484	772	1223	1903	3034	3814	4817	6068	7659	9663
1 1/2	230	197	314	501	793	1234	1968	2474	3124	3936	4968	6268
2	230	180	286	456	722	1123	1790	2251	2843	3581	4520	5703
3	230	133	211	337	534	830	1324	1664	2102	2648	3342	4217
5	230	–	–	206	326	507	809	1017	1284	1618	2042	2577

TWO WIRE CABLE, 60 Hz (Service Entrance to Motor – Maximum Length in Feet)

Motor Rating		Wire Size, AWG										
HP	Volt	14	12	10	8	6	4	3	2	1	0	00
1/2	115	115	183	293	463	721	1150	1445	1825	2299	2902	3662
1/2	230	466	742	1183	1874	2915	4648	5843	7379	9295	11733	–
3/4	230	342	545	869	1376	2141	3413	4291	5419	6826	8617	10871
1	230	241	383	611	968	1506	2400	3018	3811	4801	6060	7646
1 1/2	230	199	317	505	801	1246	1986	2496	3153	3972	5013	6325

Predator Plus

ORDERING INFORMATION												
GPM	Motor Type	HP	Stg.	PH	Volt	Assembled Pump			Pump End		Pentek® Motor	Control Box
						Catalog Number	Length Inches*	Weight Pounds*	Catalog Number	Length Inches*	Catalog Number	Catalog Number
5	2-Wire	1/2	11	1	115	2ST51-5PLUS-P4	22-1/2	36	ST5-5PLUS	13	P42B0005A1	
		1/2	11	1	230	2ST52-5PLUS-P4	22-1/2	36	ST5-5PLUS	13	P42B0005A2	
		3/4	15	1		2ST72-5PLUS-P4	26-1/2	40	ST72-5PLUS	16	P42B0007A2	
		1	19	1		2ST102-5PLUS-P4	30-1/2	45	ST10-5PLUS	18-1/2	P42B0010A2	
		1-1/2	26	1		2ST152-5PLUS-P4	39	54	ST15-5PLUS	23-1/2	P42B0015A2	
	3-Wire	1/2	11	1	115	3ST51-5PLUS-P4	22-1/2	33	ST5-5PLUS	13	P43B0005A1	—
		1/2	11	1	230	3ST52-5PLUS-P4	22-1/2	33	ST5-5PLUS	13	P43B0005A2	SMC-CR0521
		3/4	15	1		3ST72-5PLUS-P4	26-1/2	37	ST72-5PLUS	16	P43B0007A2	SMC-CR0721
		1	19	1		3ST102-5PLUS-P4	30-1/2	43	ST10-5PLUS	18-1/2	P43B0010A2	SMC-CR1021
		1-1/2	26	1		3ST152-5PLUS-P4	39	52	ST15-5PLUS	23-1/2	P43B0015A2	SMC-CR1521
8	2-Wire	1/2	9	1	115	2ST51-8PLUS-P4	22	35	ST5-8PLUS	12-1/2	P42B0005A1	
		1/2	9	1	230	2ST52-8PLUS-P4	22	35	ST5-8PLUS	12-1/2	P42B0005A2	
		3/4	12	1		2ST72-8PLUS-P4	26	39	ST7-8PLUS	15	P42B0007A2	
		1	15	1		2ST102-8PLUS-P4	29-1/2	42	ST10-8PLUS	17-1/2	P42B0010A2	
		1-1/2	20	1		2ST152-8PLUS-P4	37	49	ST15-8PLUS	21-1/2	P42B0015A2	
	3-Wire	1/2	9	1	115	3ST51-8PLUS-P4	22	33	ST5-8PLUS	12-1/2	P43B0005A1	—
		1/2	9	1	230	3ST52-8PLUS-P4	22	33	ST5-8PLUS	12-1/2	P43B0005A2	SMC-CR0521
		3/4	12	1		3ST72-8PLUS-P4	26	36	ST7-8PLUS	15	P43B0007A2	SMC-CR0721
		1	15	1		3ST102-8PLUS-P4	29-1/2	42	ST10-8PLUS	17-1/2	P43B0010A2	SMC-CR1021
		1-1/2	20	1		3ST152-8PLUS-P4	35	50	ST15-8PLUS	21-1/2	P43B0015A2	SMC-CR1521
		2	24	1					ST20-8PLUS	31	P43B0020A2	SMC-CR2021
		3	33	1					ST30-8PLUS	38	P43B0030A2	SMC-CR3021
12	2-Wire	1/2	7	1	115	2ST51-12PLUS-P4	21	34	ST5-12PLUS	11-1/2	P42B0005A1	
		1/2	7	1	230	2ST52-12PLUS-P4	21	34	ST5-12PLUS	11-1/2	P42B0005A2	
		3/4	9	1		2ST72-12PLUS-P4	24	38	ST7-12PLUS	13-1/2	P42B0007A2	
		1	11	1		2ST102-12PLUS-P4	27	44	ST10-12PLUS	15	P42B0010A2	
		1-1/2	16	1		2ST152-12PLUS-P4	34-1/2	51	ST15-12PLUS	19-1/2	P42B0015A2	
	3-Wire	1/2	7	1	115	3ST51-12PLUS-P4	21	33	ST5-12PLUS	11-1/2	P43B0005A1	—
		1/2	7	1	230	3ST52-12PLUS-P4	21	33	ST5-12PLUS	11-1/2	P43B0005A2	SMC-CR0521
		3/4	9	1		3ST72-12PLUS-P4	24	36	ST7-12PLUS	13-1/2	P43B0007A2	SMC-CR0721
		1	11	1		3ST102-12PLUS-P4	27	41	ST10-12PLUS	15	P43B0010A2	SMC-CR1021
		1-1/2	16	1		3ST152-12PLUS-P4	33	48	ST15-12PLUS	19-1/2	P43B0015A2	SMC-CR1521
		2	19	1					ST20-12PLUS	28	P43B0020A2	SMC-CR2021
		3	25	1					ST30-12PLUS	33	P43B0030A2	SMC-CR3021
		5	37	1					ST50-12PLUS	41-1/2	P43B0050A2	SMC-CR5021

*Length and weight are approximate.

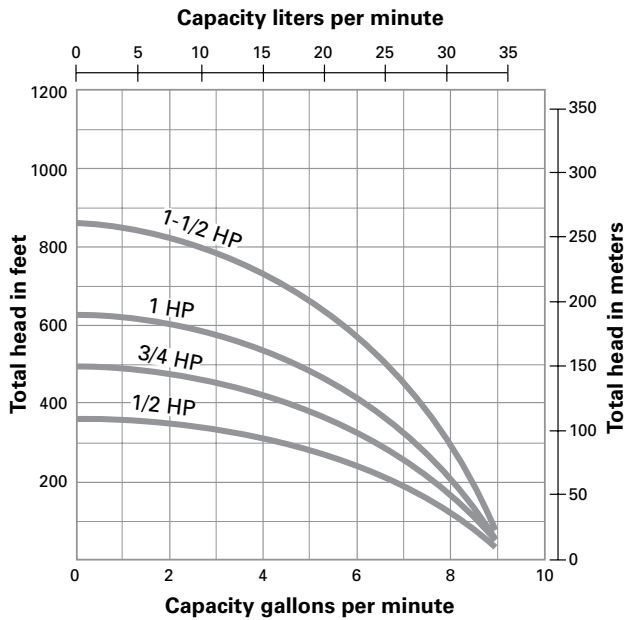
Predator Plus

ORDERING INFORMATION												
GPM	Motor Type	HP	Stg.	PH	Volt	Assembled Pump			Pump End		Pentek® Motor	Control Box
						Catalog Number	Length Inches*	Weight Pounds*	Catalog Number	Length Inches*	Catalog Number	Catalog Number
20	2-Wire	1/2	4	1	115	2ST51-20PLUS-P4	19	32	ST5-20PLUS	9-1/2	P42B0005A1	
		1/2	4	1		2ST52-20PLUS-P4	19	32	ST5-20PLUS	9-1/2	P42B0005A2	
		3/4	6	1		2ST72-20PLUS-P4	22-1/2	37	ST7-20PLUS	11-1/2	P42B0007A2	
		1	8	1		2ST102-20PLUS-P4	25-1/2	41	ST10-20PLUS	14	P42B0010A2	
		1-1/2	11	1		2ST152-20PLUS-P4	32	48	ST15-20PLUS	17	P42B0015A2	
	3-Wire	1/2	4	1	115	3ST51-20PLUS-P4	19	31	ST5-20PLUS	9-1/2	P43B0005A1	—
		1/2	4	1		3ST52-20PLUS-P4	19	31	ST5-20PLUS	9-1/2	P43B0005A2	SMC-CR0521
		3/4	6	1		3ST72-20PLUS-P4	22-1/2	34	ST7-20PLUS	11-1/2	P43B0007A2	SMC-CR0721
		1	8	1		3ST102-20PLUS-P4	25-1/2	39	ST10-20PLUS	14	P43B0010A2	SMC-CR1021
		1-1/2	11	1		3ST152-20PLUS-P4	30-1/2	46	ST15-20PLUS	17	P43B0015A2	SMC-CR1521
		2	14	1					ST20-20PLUS	25	P43B0020A2	SMC-CR2021
		3	18	1					ST30-20PLUS	29	P43B0030A2	SMC-CR3021
		5	29	1					ST50-20PLUS	42	P43B0050A2	SMC-CR5021

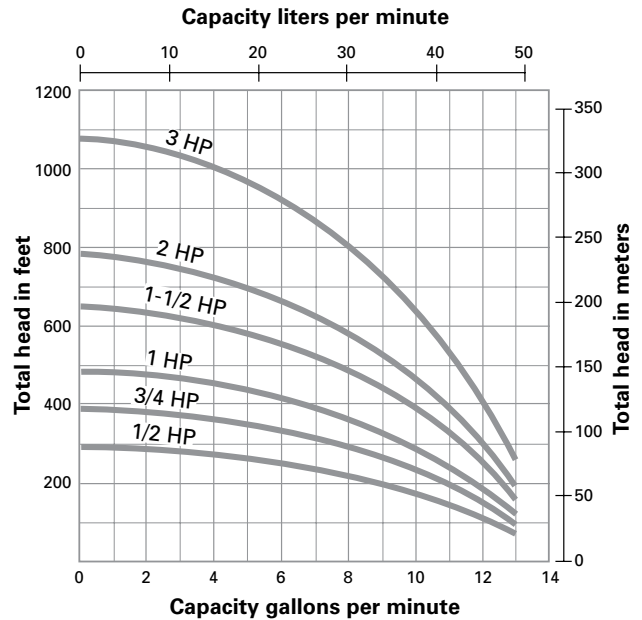
*Length and weight are approximate.

Predator Plus

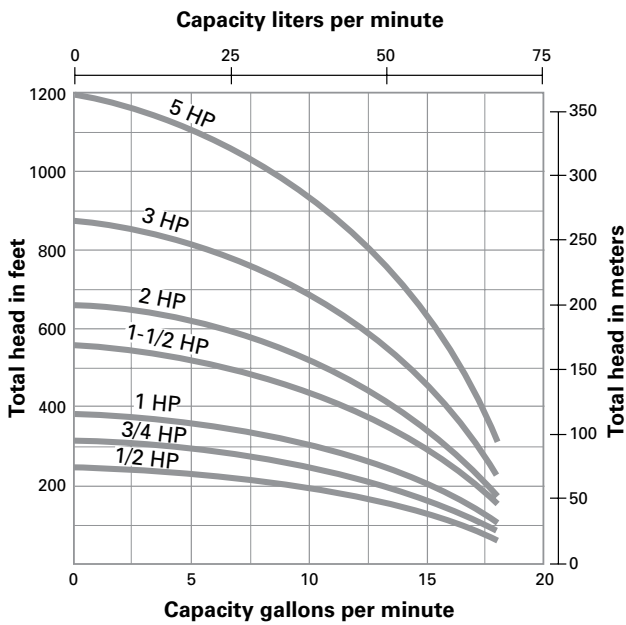
PUMP PERFORMANCE – 5 GPM



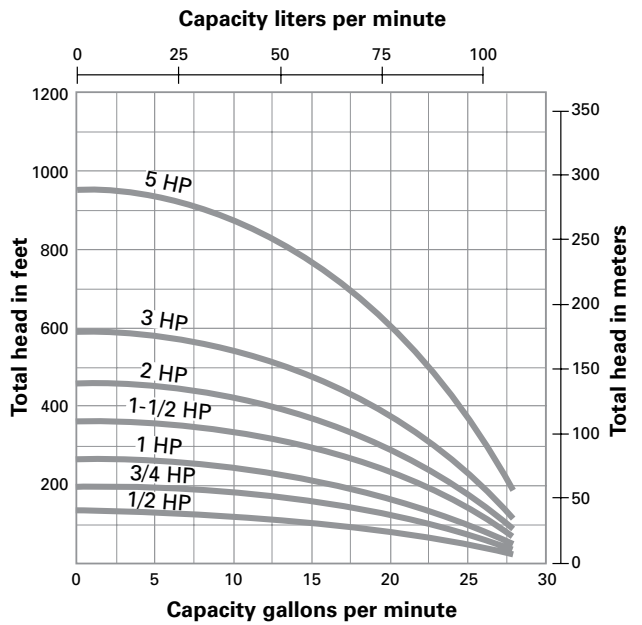
PUMP PERFORMANCE – 8 GPM



PUMP PERFORMANCE – 12 GPM



PUMP PERFORMANCE – 20 GPM



Predator Plus

PUMP PERFORMANCE																											
HP	2-Wire Cat. No.	3-Wire Cat. No.	Tank Pres.	Pumping Depth in Feet																							
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750			
5 GALLONS PER MINUTE																											
1/2	2ST51-5PLUS-P4* 2ST52-5PLUS-P4	3ST51-5PLUS-P4* 3ST52-5PLUS-P4	20/40 30/50 40/60				7.3 6.9	7.4 6.9 6.5	7.0 6.5 6.3	6.6 6.2 5.6	6.2 5.7 5.2	5.8 5.2 4.6	5.3 4.6 3.9	3.7													
3/4	2ST72-5PLUS-P4	3ST72-5PLUS-P4	20/40 30/50 40/60						7.3 7.1	7.4 7.2 6.7	7.2 6.8 6.5	6.8 6.6 6.2	6.1 5.7 5.3	5.3 4.8 4.3	4.2 3.5												
1	2ST102-5PLUS-P4	3ST102-5PLUS-P4	20/40 30/50 40/60									7.4 7.2	7.1 6.8 6.6	6.5 6.3 6.0	5.9 5.6 5.3	5.3 4.9 4.6	4.4 3.9 3.4	3.3 2.5									
1-1/2	2ST152-5PLUS-P4	3ST152-5PLUS-P4	20/40 30/50 40/60											7.3 7.4 7.3	6.9 7.0 6.8	6.5 6.6 6.5	6.0 6.2 6.0	5.5 5.7 5.5	5.0 5.2 5.0	4.4 4.7 4.4	3.6 4.0 3.6	2.4 3.0 2.4					
8 GALLONS PER MINUTE																											
1/2	2ST51-8PLUS-P4* 2ST52-8PLUS-P4	3ST51-8PLUS-P4* 3ST52-8PLUS-P4	20/40 30/50 40/60			10.8 10.1	11.0 10.1 9.3	10.3 9.3 8.3	9.5 8.3 7.1	8.5 7.2 5.7	7.5 5.8	6.0															
3/4	2ST72-8PLUS-P4	3ST72-8PLUS-P4	20/40 30/50 40/60					10.6 10.0	10.7 10.0 9.5	10.2 9.5 8.8	9.6 8.8 8.0	9.0 8.0 7.1	6.8 5.5														
1	2ST102-8PLUS-P4	3ST102-8PLUS-P4	20/40 30/50 40/60							10.9 10.5 10.0	11.0 10.5 10.0	10.6 10.0 9.5	9.3 8.7 8.1	7.9 7.0 6.2	5.8 4.7												
1-1/2	2ST152-8PLUS-P4	3ST152-8PLUS-P4	20/40 30/50 40/60										11.1 10.7 10.5	10.4 10.0 9.6	9.5 9.0 8.5	8.4 7.7 7.3	7.2 6.3 5.7	5.5 4.6									
2		ST20-8PLUS	20/40 30/50 40/60											11.0 10.8	10.8 10.5 10.1	10.0 9.7 9.3	9.2 8.9 8.4	8.3 7.9 7.3	7.2 6.7 6.0	6.0 5.4							
3		ST30-8PLUS	20/40 30/50 40/60														11.0 10.9	10.8 10.4	10.3 9.8	9.8 9.5 9.2	9.1 8.9 8.5	8.5 8.2 7.8	7.7 7.5 7.0				
12 GALLONS PER MINUTE																											
1/2	2ST51-12PLUS-P4* 2ST52-12PLUS-P4	3ST51-12PLUS-P4* 3ST52-12PLUS-P4	20/40 30/50 40/60	14.5	14.5 13.0	15.0 13.0 11.5	13.5 11.5 9.8	12.0 9.8	10.3 7.2	8.0																	
3/4	2ST72-12PLUS-P4	3ST72-12PLUS-P4	20/40 30/50 40/60		15.5	15.5 14.5	15.7 14.5 13.4	14.7 13.4 12.2	13.7 12.2 10.9	12.6 10.9 9.4	11.2 9.4 7.5	9.8 7.5	8.0														
1	2ST102-12PLUS-P4	3ST102-12PLUS-P4	20/40 30/50 40/60				15.3 14.5	14.5 13.5	14.7 13.5 12.6	13.7 12.6 11.6	12.7 11.6 10.5	11.9 10.5 9.2	8.7														
1-1/2	2ST152-12PLUS-P4	3ST152-12PLUS-P4	20/40 30/50 40/60							15.4 14.9	15.6 14.9 14.3	14.2 13.4 12.8	12.6 11.7 11.0	10.8 9.7 8.8	8.5												
2		ST20-12PLUS	20/40 30/50 40/60									15.0 14.5	14.5 13.8 13.3	13.1 12.5 11.9	11.7 10.9 10.2	10.0 9.0 8.3	8.0										
3		ST30-12PLUS	20/40 30/50 40/60											15.2 14.9	14.8 14.3 13.9	13.8 13.3 12.9	12.7 12.2 11.7	11.6 11.0 10.5	10.5 9.7 9.1	9.0							

All pumps wired for 230 volt operation.

Values based on 1" minimum diameter pipe.

*These 1/2 HP pumps are available with 115 Volt motors.

Predator Plus

PUMP PERFORMANCE																									
HP	2-Wire Cat. No.	3-Wire Cat. No.	Tank Pres.	Pumping Depth in Feet																					
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	
20 GALLONS PER MINUTE																									
3/4	2ST72-20PLUS-P4	3ST72-20PLUS-P4	20/40 30/50 40/60	23.5 21.5 19.5	22.0 19.5 16.0	20.0 16.0	17.0																		
1	2ST102-20PLUS-P4	3ST102-20PLUS-P4	20/40 30/50 40/60	24.0 23.0 23.0	24.5 23.0 21.5	23.0 21.5 20.0	22.0 20.0 17.5	20.5 17.5 14.5	18.0 14.5	15.5															
1-1/2	2ST152-20PLUS-P4	3ST152-20PLUS-P4	20/40 30/50 40/60			24.5 23.5 22.5	23.5 22.5 21.5	22.5 21.5 20.0	21.5 20.0 18.5	20.5 18.5 16.5	19.0 16.5 14.5	17.0 14.5 12.5													
2		ST20-20PLUS	20/40 30/50 40/60						23.6 23.0 23.0	23.0 22.2 22.2	22.4 21.3 20.4	21.5 20.5 19.3	19.0 17.0 15.5	15.0											
3		ST30-20PLUS	20/40 30/50 40/60							24.0	23.6 23.1 22.5	22.4 21.0 21.0	21.5 18.8 18.8	20.8 18.5 15.8	18.5 15.5 15.8	15.4									
5		ST50-20PLUS	20/40 30/50 40/60												24.4 24.0	24.0 23.3 22.4	23.2 22.8 21.4	22.3 22.0 20.2	21.5 20.8 18.8	20.0 19.5 17.0	18.7 17.7 15.0	17.0 16.0 15.0	15.0		

All pumps wired for 230 volt operation.

Values based on 1" minimum diameter pipe.

*These 1/2 HP pumps are available with 115 Volt motors.

The Rustler

The Rustler 4" submersible pump is one of the most popular models in the Myers® line. They have an exceptional history of durability and trouble-free operation. Stainless steel design and self-lubricating impellers offer the best service for extreme conditions. The Rustler also includes the Pentek® XE Series, high-thrust motor for efficient performance and years of extended service.

APPLICATIONS

■ **Water systems...** residential, industrial, commercial, multiple housing and farm clean water use

SPECIFICATIONS

Shell – 300 Series Stainless Steel

Discharge – High-density composite resin

Discharge Bearing – Nylatron®

Impellers – Engineered composite

Diffusers – Engineered composite

Suction Caps – Engineered composite

Shaft and Coupling – 300 Series Stainless Steel

Intake Screen – High-density composite resin

Cable Guard – PVC

Check Valve – Acetal

Fasteners – 300 Series Stainless Steel

FEATURES

Leading Performer – Premium 4" submersible pump series field proven and preferred by industry pros.

True Grit – Self-lubricating impellers resist abrasion from grit and sand – outlasts the competition.

Awesome Power – Features the high-thrust Pentek XE motor for the ultimate in power, efficient performance and longer life. Thermal overload and lightning protected.

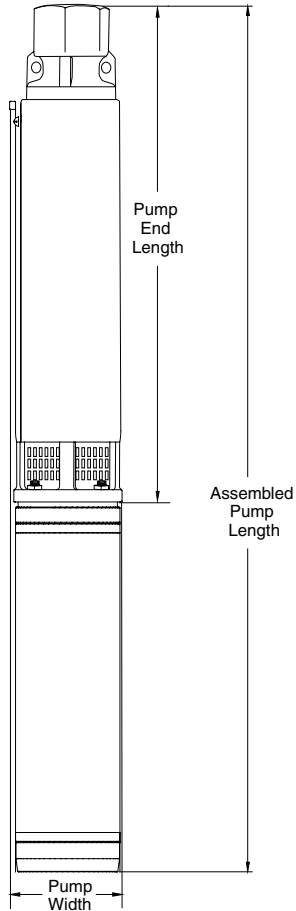
Built-in Safety – Built-in eyelet for safety line connection.

POWERED BY
PENTEK®



The Rustler

OUTLINE DIMENSIONS



CABLE SELECTION

THREE WIRE CABLE, 60 Hz (Service Entrance to Motor – Maximum Length in Feet)

Motor Rating		AWG Copper Wire Size										
Volts	HP	14	12	10	8	6	4	3	2	1	0	00
115	1/2	87	138	221	349	544	867	1090	1376	1734	2188	2761
230	1/2	348	553	883	1398	2175	3467	4359	5505	6935	8753	11044
	3/4	264	420	670	1061	1651	2632	3309	4178	5264	6644	8383
	1	226	359	573	908	1413	2252	2831	3575	4504	5685	7173
	1-1/2	197	314	501	793	1234	1968	2474	3124	3936	4968	6268

TWO WIRE CABLE, 60 Hz (Service Entrance to Motor – Maximum Length in Feet)

Motor Rating		AWG Copper Wire Size										
Volts	HP	14	12	10	8	6	4	3	2	1	0	00
115	1/2	115	183	293	463	721	1150	1445	1825	2299	2902	3662
230	1/2	466	742	1183	1874	2915	4648	5843	7379	9295	11733	14803
	3/4	342	545	869	1376	2141	3413	4291	5419	6826	8617	10871
	1	241	383	611	968	1506	2400	3018	3811	4801	6060	7646
	1-1/2	199	317	505	801	1246	1986	2496	3153	3972	5013	6325

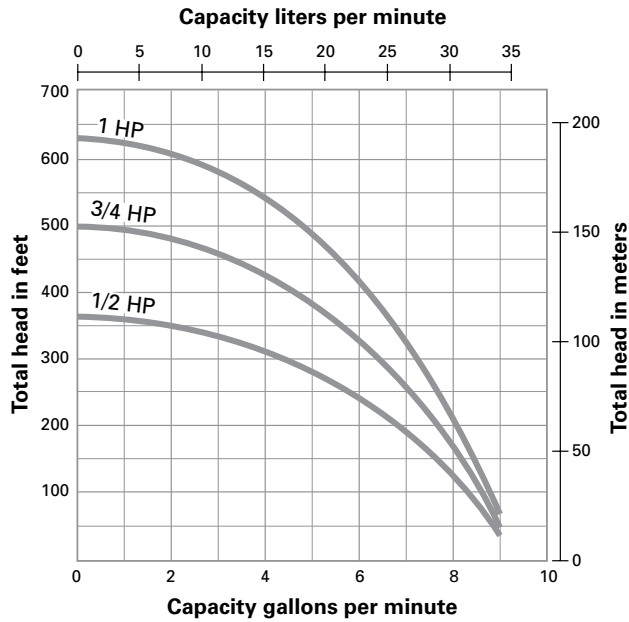
The Rustler

ORDERING INFORMATION												
GPM	Motor Type	HP	Stg.	PH	Volt	Assembled Pump			Pump End		Pentek® Motor	Control Box
						Catalog Number	Length Inches*	Weight Pounds*	Catalog Number	Length Inches*	Catalog Number	Catalog Number
5	2-Wire	1/2	11	1	115	2NFL51-5-P4	24-3/4	33	N55R	15-1/4	P42B0005A1	
		1/2	11	1	230	2NFL52-5-P4	24-3/4	33	N55R	15-1/4	P42B0005A2	
		3/4	15	1		2NFL72-5-P4	28-3/4	35	N75R	18	P42B0007A2	
		1	19	1		2NFL102-5-P4	32-1/2	42	N105R	20-3/4	P42B0010A2	
	3-Wire	1/2	11	1	115	3NFL51-5-P4	24-3/4	30	N55R	15-1/4	P43B0005A1	SMC-IR0511
		1/2	11	1	230	3NFL52-5-P4	24-3/4	30	N55R	15-1/4	P43B0005A2	SMC-CR0521
		3/4	15	1		3NFL72-5-P4	28-3/4	34	N75R	18	P43B0007A2	SMC-CR0721
		1	19	1		3NFL102-5-P4	32-1/2	39	N105R	20-3/4	P43B0010A2	SMC-CR1021
8	2-Wire	1/2	9	1	115	2NFL51-8-P4	24-1/2	31	N58R	15	P42B0005A1	
		1/2	9	1	230	2NFL52-8-P4	24-1/2	31	N58R	15	P42B0005A2	
		3/4	12	1		2NFL72-8-P4	27-3/4	35	N78R	17	P42B0007A2	
		1	15	1		2NFL102-8-P4	31-1/2	40	N108R	19-3/4	P42B0010A2	
		1-1/2	20	1		2NFL152-8-P4	38-3/4	49	N158R	23-1/2	P42B0015A2	
	3-Wire	1/2	9	1	115	3NFL51-8-P4	24-1/2	29	N158R	15	P43B0005A1	SMC-IR0511
		1/2	9	1	230	3NFL52-8-P4	24-1/2	29	N58R	15	P43B0005A2	SMC-CR0521
		3/4	12	1		3NFL72-8-P4	27-3/4	33	N78R	17	P43B0007A2	SMC-CR0721
		1	15	1		3NFL102-8-P4	31-1/2	37	N108R	19-3/4	P43B0010A2	SMC-CR1021
		1-1/2	20	1		3NFL152-8-P4	37	39	N158R	23-1/2	P43B0015A2	SMC-CR1521
12	2-Wire	1/2	7	1	115	2NFL51-12-P4	23-1/4	29	N512R	13-3/4	P42B0005A1	
		1/2	7	1	230	2NFL52-12-P4	23-1/4	29	N512R	13-3/4	P42B0005A2	
		3/4	9	1		2NFL72-12-P4	26-1/4	34	N712R	15-1/2	P42B0007A2	
		1	11	1		2NFL102-12-P4	29	38	N1012R	17-1/4	P42B0010A2	
		1-1/2	16	1		2NFL152-12-P4	36-3/4	45	N1512R	21-1/2	P42B0015A2	
	3-Wire	1/2	7	1	115	3NFL51-12-P4	23-1/4	28	N512R	13-3/4	P43B0005A1	SMC-IR0511
		1/2	7	1	230	3NFL52-13-P4	23-1/4	28	N512R	13-3/4	P43B0005A2	SMC-CR0521
		3/4	9	1		3NFL72-12-P4	26-1/4	33	N712R	15-1/2	P43B0007A2	SMC-CR0721
		1	11	1		3NFL102-12-P4	29	36	N1012R	17-1/2	P43B0010A2	SMC-CR1021
		1-1/2	16	1		3NFL152-12-P4	35	43	N1512R	21-1/2	P43B0015A2	SMC-CR1521
20	2-Wire	3/4	6	1	230	2NFL72-20-P4	25-1/2	31	N720R	13-3/4	P42B0007A2	
		1	8	1		2NFL102-20-P4	27-1/2	36	N1020R	15-3/4	P42B0010A2	
		1-1/2	11	1		2NFL152-20-P4	34-1/4	43	N1520R	19	P42B0015A2	
	3-Wire	3/4	6	1		3NFL72-20-P4	25-1/2	31	N720R	13-3/4	P43B0007A2	SMC-CR0721
		1	8	1		3NFL102-20-P4	27-1/2	35	N1020R	15-3/4	P43B0010A2	SMC-CR1021
		1-1/2	11	1		3NFL152-20-P4	32-1/2	41	N1520R	19	P43B0015A2	SMC-CR1521

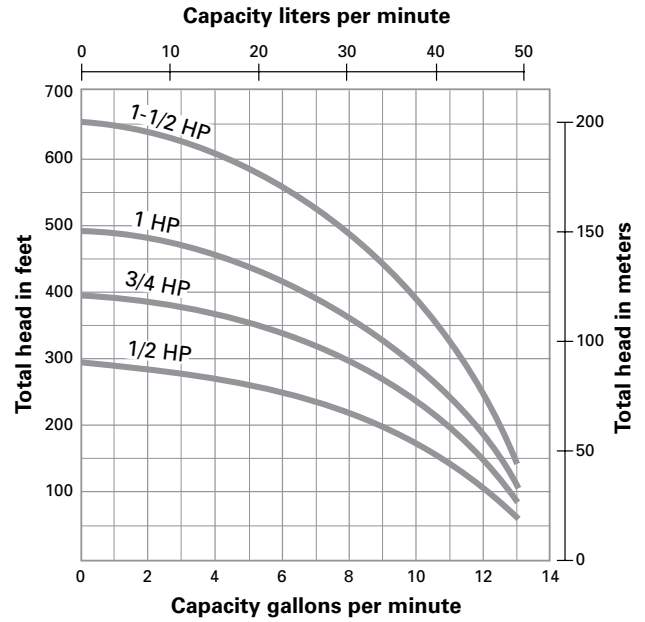
*Length and weight are approximate.

The Rustler

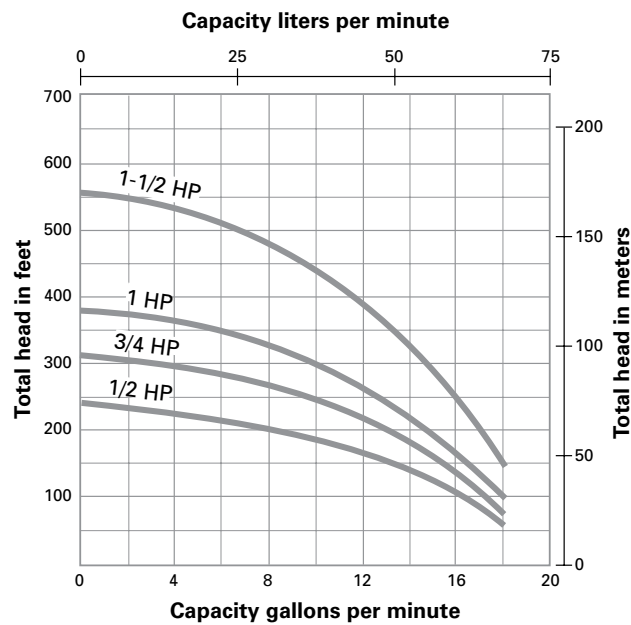
PUMP PERFORMANCE – 5 GPM



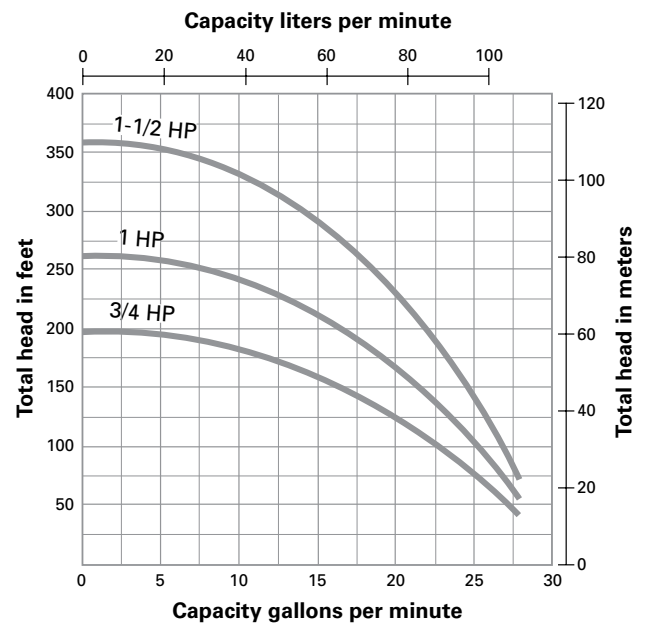
PUMP PERFORMANCE – 8 GPM



PUMP PERFORMANCE – 12 GPM



PUMP PERFORMANCE – 20 GPM



The Rustler

PUMP PERFORMANCE																		
HP	2-Wire Cat. No.	3-Wire Cat. No.	Tank Pres.	Pumping Depth in Feet														
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450
5 GALLONS PER MINUTE																		
1/2	2NFL51-5-P4* 2NFL52-5-P4	3NFL51-5-P4* 3NFL52-5-P4	20/40 30/50 40/60					6.5	6.5 6.3	6.6 6.2 5.6	6.2 5.7 5.2	5.8 5.2 4.6	5.3 4.6 3.9	3.7				
3/4	2NFL72-5-P4	3NFL72-5-P4	20/40 30/50 40/60								6.7	6.5	6.6 6.2	6.1 5.7 5.3	5.3 4.8 4.3	4.2 3.5		
1	2NFL102-5-P4	3NFL102-5-P4	20/40 30/50 40/60											6.6	6.5 6.3 6.0	5.9 5.6 5.3	5.3 4.9 4.6	4.4 3.9 3.4
8 GALLONS PER MINUTE																		
1/2	2NFL51-8-P4* 2NFL52-8-P4	3NFL51-8-P4* 3NFL52-8-P4	20/40 30/50 40/60		10.8	10.8 10.1	11.0 10.1 9.3	10.3 9.3 8.3	9.5 8.3 7.1	8.5 7.2 5.7	7.5 5.8	6.0						
3/4	2NFL72-8-P4	3NFL72-8-P4	20/40 30/50 40/60				11.1	11.1 10.6	11.2 10.6 10.0	10.7 10.0 9.5	10.2 9.5 8.8	9.6 8.8 8.0	9.0 8.0 7.1	6.8 5.5				
1	2NFL102-8-P4	3NFL102-8-P4	20/40 30/50 40/60							10.9	10.9 10.5	11.0 10.5 10.0	10.6 10.0 9.5	9.3 8.7 8.1	7.9 7.0 6.2	5.8 4.7		
1-1/2	2NFL152-8-P4	3NFL152-8-P4	20/40 30/50 40/60											11.1 10.7 10.5	10.4 10.0 9.6	9.5 9.0 8.5	8.4 7.7 7.3	7.2 6.3 5.7
12 GALLONS PER MINUTE																		
1/2	2NFL51-12-P4* 2NFL52-12-P4	3NFL51-12-P4* 3NFL52-12-P4	20/40 30/50 40/60	14.5	14.5 13.0	15.0 13.0 11.5	13.5 11.5 9.8	12.0 9.8	10.3 7.2	8.0								
3/4	2NFL72-12-P4	3NFL72-12-P4	20/40 30/50 40/60		15.5	15.5 14.5	15.7 14.5 13.4	14.7 13.4 12.2	13.7 12.2 10.9	12.6 10.9 9.4	11.2 9.4 7.5	9.8 7.5	8.0					
1	2NFL102-12-P4	3NFL102-12-P4	20/40 30/50 40/60				15.3	15.3 14.5	15.5 14.5 13.5	14.7 13.5 12.6	13.7 12.6 11.6	12.7 11.6 10.5	11.9 10.5 9.2	8.7				
1-1/2	2NFL152-12-P4	3NFL152-12-P4	20/40 30/50 40/60								15.4	15.4 14.9	15.6 14.9 14.3	14.2 13.4 12.8	12.6 11.7 11.0	10.8 9.7 8.8	8.5	
20 GALLONS PER MINUTE																		
3/4	2NFL72-20-P4	3NFL72-20-P4	20/40 30/50 40/60	23.5 21.5 19.5	22.0 19.5 16.0	20.0 16.0	17.0											
1	2NFL102-20-P4	3NFL102-20-P4	20/40 30/50 40/60	24.0 23.0	24.5 23.0 21.5	23.0 21.5 20.0	22.0 20.0 17.5	20.5 17.5 14.5	18.0 14.5	15.5								
1-1/2	2NFL152-20-P4	3NFL152-20-P4	20/40 30/50 40/60		24.5 23.5	24.5 23.5 22.5	24.5 23.5 21.5	23.5 22.5 21.5	22.5 21.5 20.0	21.5 20.0 18.5	20.5 18.5 16.5	19.0 16.5 14.5	17.0 14.5 12.5					

All pumps wired for 230 volt operation.

Values based on 1" minimum diameter pipe.

*These 1/2 HP pumps are available with 115 Volt motors.

S Series

The S Series 4" submersibles have been a successful entry in the Myers® well pump line for many years and have a history of tremendous reliability. The all stainless steel construction is ideal for extreme water conditions and easily resists harmful corrosion. The S Series subs are also available with high-performance Pentek® motors for the very best in efficiency and trouble-free operation.

APPLICATIONS

■ **Water systems...** residential, industrial, commercial, multiple housing and farm clean water use

SPECIFICATIONS

Straps – 300 Series Stainless Steel

Discharge – 300 Series Stainless Steel

Discharge Bearing – Rubber

Impellers – 300 Series Stainless Steel

Diffusers – 300 Series Stainless Steel

Suction Caps – 300 Series Stainless Steel

Shaft and Coupling – 300 Series Stainless Steel

Intake – 300 Series Stainless Steel

Intake Screen – 300 Series Stainless Steel

Cable Guard – 300 Series Stainless Steel

Check Valve – 300 Series Stainless Steel

Fasteners – 300 Series Stainless Steel

FEATURES

Smooth and Quiet – Precision-crafted, 4" submersible well pumps for quieter operation.

Stainless Steel Everywhere – Shell, impellers, discharge bowl, shaft and coupling, wear ring and suction screen.

Tough in Any Situation – Stainless steel impellers stand tough against sand and grit – nothing but the best.

All Powerful – Features application-matched Pentek motors for just the right mix of performance and efficiency.

No Slip-ups – Built-in hook assembly keeps pump safe from slip.

POWERED BY
PENTEK®



S Series

ORDERING INFORMATION										
GPM	Motor Type	HP	Volt	Assembled Pump			Pump End		Pentek® Motor	Control Box
				Catalog Number	Length Inches*	Weight Pounds*	Catalog Number	Length Inches*	Catalog Number	Catalog Number
5	2-Wire	1/2	230	2S52-5-P4	26-3/8	29	S5-5	16-7/8	P42B0005A2	
		3/4		2S72-5-P4	31-1/2	33	S7-5	21	P42B0007A2	
		1		2S102-5-P4	36-1/4	38	S10-5	24-1/4	P42B0010A2	
		1-1/2		2S152-5-P4	45-1/8	48	S15-5	29-5/8	P42B0015A2	
	3-Wire	1/2	230	3S52-5-P4	22-3/8	29	S5-5	16-7/8	P43B0005A2	SMC-CR0521
		3/4		3S72-5-P4	31-1/2	33	S7-5	21	P43B0007A2	SMC-CR0721
		1		3S102-5-P4	36-1/4	38	S10-5	24-1/4	P43B0010A2	SMC-CR1021
		1-1/2		3S152-5-P4	43-1/8	48	S15-5	29-5/8	P43B0015A2	SMC-CR1521
		2					S20-5	40-3/4	P43B0020A2	SMC-CR2021
		3					S30-5	50-1/8	P43B0030A2	SMC-CR3021
10	2-Wire	1/2	115	2S51-10-P4	23	25	S5-10	13-1/2	P42B0005A1	
		1/2		2S52-10-P4	23	25	S5-10	13-1/2	P42B0005A2	
		3/4		2S72-10-P4	26-1/2	29	S7-10	16	P42B0007A2	
		1		2S102-10-P4	30-1/2	33	S10-10	18-1/2	P42B0010A2	
		1-1/2		2S152-10-P4	39	43	S15-10	23-1/2	P42B0015A2	
	3-Wire	1/2	230	3S51-10-P4	23	25	S5-10	13-1/2	P43B0005A1	SMC-CR0511
		1/2		3S52-10-P4	23	25	S5-10	13-1/2	P43B0005A2	SMC-CR0521
		3/4		3S72-10-P4	26-1/2	29	S7-10	16	P43B0007A2	SMC-CR0721
		1		3S102-10-P4	30-1/2	33	S10-10	18-1/2	P43B0010A2	SMC-CR1021
		1-1/2		3S152-10-P4	37	43	S15-10	23-1/2	P43B0015A2	SMC-CR1521
		2					S20-10	30-3/8	P43B0020A2	SMC-CR2021
		3					S30-10	36-1/4	P43B0030A2	SMC-CR3021
		5					S50-10	48-1/8	P43B0050A2	SMC-CR5021
16	2-Wire	1/2	115	2S51-16-P4	21-3/4	23	S5-16	12-1/2	P42B0005A1	
		1/2		2S52-16-P4	21-3/4	23	S5-16	12-1/4	P42B0005A2	
		3/4		2S72-16-P4	23-1/4	27	S7-16	12-3/4	P42B0007A2	
		1		2S102-16-P4	28-3/8	31	S10-16	16-3/8	P42B0010A2	
		1-1/2		2S152-16-P4	33-1/8	42	S15-16	17-5/8	P42B0015A2	
	3-Wire	1/2	230	3S51-16-P4	21-3/4	23	S5-16	12-1/4	P43B0005A1	SMC-CR0511
		1/2		3S52-16-P4	21-3/4	23	S5-16	12-1/4	P43B0005A2	SMC-CR0521
		3/4		3S72-16-P4	23-1/4	27	S7-16	13-3/4	P43B0007A2	SMC-CR0721
		1		3S102-16-P4	28-3/8	31	S10-16	16-3/8	P43B0010A2	SMC-CR1021
		1-1/2		3S152-16-P4	31-1/8	42	S15-16	17-5/8	P43B0015A2	SMC-CR1521
		2					S20-16	21	P43B0020A2	SMC-CR2021
		3					S30-16	26	P43B0030A2	SMC-CR3021
		5					S50-16	39-7/8	P43B0050A2	SMC-CR5021

*Length and weight are approximate.

DISCHARGE SIZES:

- The 5, 10 and 16 gallon SST pumps have 1-1/4" discharge
- The 25, 40 and 75 gallon SST pumps have 2" discharge

S Series

ORDERING INFORMATION										
GPM	Motor Type	HP	Volt	Assembled Pump			Pump End		Pentek® Motor	Control Box
				Catalog Number	Length Inches*	Weight Pounds*	Catalog Number	Length Inches*	Catalog Number	Catalog Number
25	2-Wire	1/2	230	2S52-25-P4	18-7/8	25	S5-25	8-5/8	P42B0005A2	
		3/4		2S72-25-P4	20-3/4	27	S7-25	10-1/4	P42B0007A2	
		1		2S102-25-P4	23-7/8	31	S10-25	11-7/8	P42B0010A2	
		1-1/2		2S152-25-P4	29	39	S15-25	13-1/2	P42B0015A2	
	3-Wire	1/2	230	3S52-25-P4	18-1/8	25	S5-25	8-5/8	P43B0005A2	SMC-CR0521
		3/4		3S72-25-P4	20-3/4	27	S7-25	10-1/4	P43B0007A2	SMC-CR0721
		1		3S102-25-P4	23-7/8	31	S10-25	11-7/8	P43B0010A2	SMC-CR1021
		1-1/2		3S152-25-P4	27	39	S15-25	13-1/2	P43B0015A2	SMC-CR1521
		2					S20-25	15-1/4	P43B0020A2	SMC-CR2021
		3					S30-25	18-1/2	P43B0030A2	SMC-CR3021
		5					S50-25	27-5/8	P43B0050A2	SMC-CR5021
		7-1/2					S75-25	42-3/4	P43B0075A3	
40	2-Wire	1	230	2S102-40-P4	24-7/8	32	S10-40	12-7/8	P42B0010A2	
		1-1/2		2S152-40-P4	31-3/4	42	S15-40	16-1/4	P42B0015A2	
	3-Wire	1	230	3S102-40-P4	24-7/8	32	S10-40	12-7/8	P43B0010A2	SMC-CR1021
		1-1/2		3S152-40-P4	29-3/4	42	S15-40	16-1/4	P43B0015A2	SMC-CR1521
		2					S20-40	19-1/2	P43B0020A2	SMC-CR2021
		3					S30-40	22-7/8	P43B0030A2	SMC-CR3021
		5					S50-40	32-3/4	P43B0050A2	SMC-CR5021
		7-1/2					S75-40	49-3/8	P43B0075A3	
		10					S100-40	57-5/8	P43B0100A4	
75	3-Wire	2					S20-75	19-1/4	P43B0020A2	SMC-CR2021
		3					S30-75	28-7/8	P43B0030A2	SMC-CR3021
		5					S50-75	43-1/4	P43B0050A2	SMC-CR5021
		7-1/2					S75-75	62-1/2	P43B0075A3	
		10					S100-75	86-1/2	P43B0100A4	

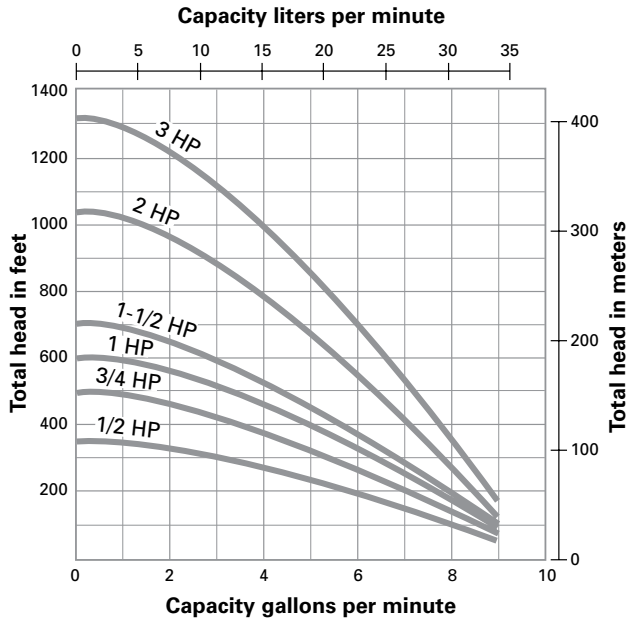
*Length and weight are approximate.

DISCHARGE SIZES:

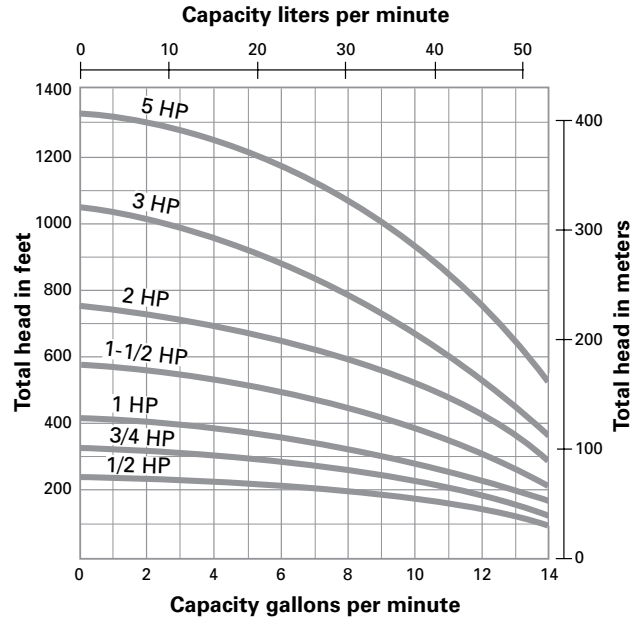
- The 5, 10 and 16 gallon SST pumps have 1-1/4" discharge
- The 25, 40 and 75 gallon SST pumps have 2" discharge

S Series

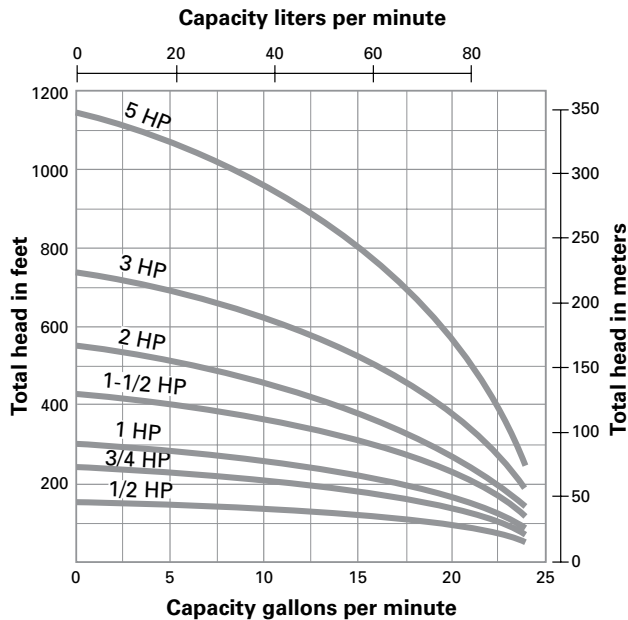
PUMP PERFORMANCE – 5 GPM



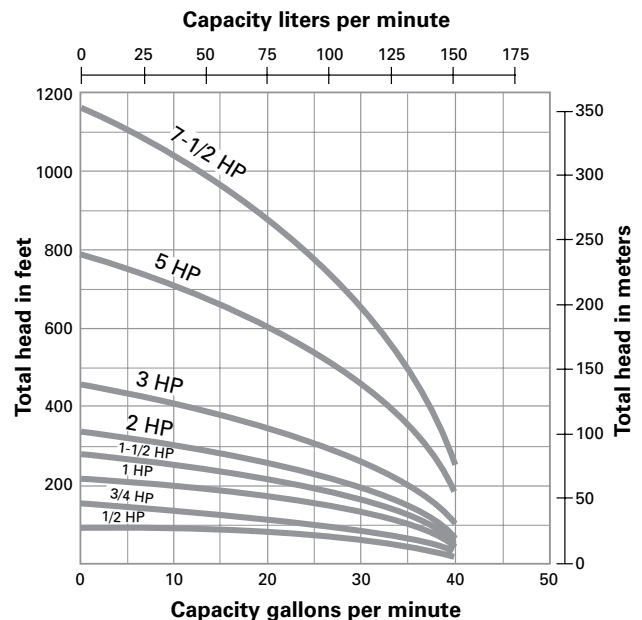
PUMP PERFORMANCE – 10 GPM



PUMP PERFORMANCE – 16 GPM

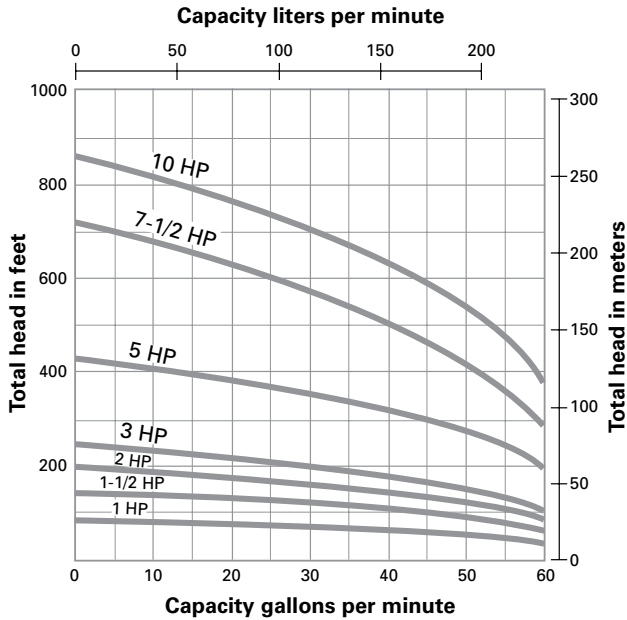


PUMP PERFORMANCE – 25 GPM

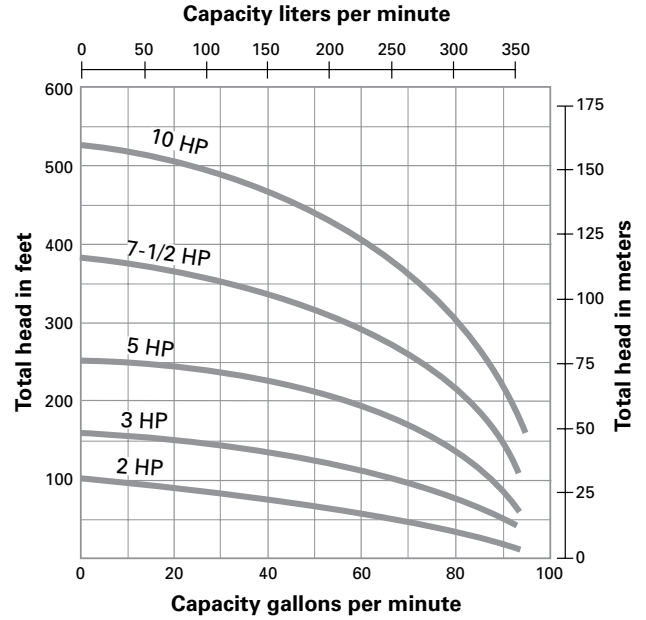


S Series

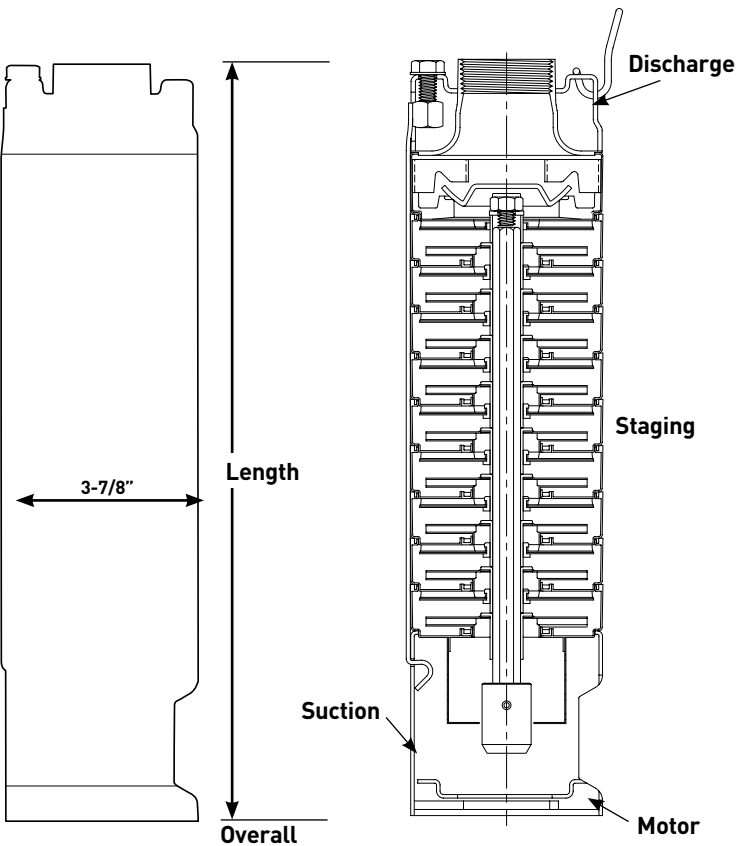
PUMP PERFORMANCE – 40 GPM



PUMP PERFORMANCE – 75 GPM



OUTLINE DIMENSIONS



DISCHARGE	
GPM	NPT
5	1-1/4
10	1-1/4
16	1-1/4
25	2
40	2
75	2

Dimensions (in inches) are for estimating purposes only.

S Series

PUMP PERFORMANCE																																
HP	2-Wire Cat. No.	3-Wire Cat. No.	Tank Pres.	Pump End Only	Pumping Depth in Feet																											
					0	20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950		
5 GALLONS PER MINUTE																																
1/2	2S52-5-P4	3S525-P4	30	S5-5					6.5	6.0	5.8	5.3	4.8	4.5	3.8	3.0																
3/4	2S72-5-P4	3S72-5-P4		S7-5								6.5	6.3	6.0	5.8	4.8	4.0	3.0														
1	2S102-5-P4	3S102-5-P4		S10-5											6.5	5.8	5.3	4.5	3.8	3.0												
1-1/2	2S152-5-P4	3S152-5-P4		S15-5												6.3	5.8	5.3	4.5	4.0	3.3											
1/2	2S52-5-P4	3S525-P4	40	S5-5				6.5	6.0	5.8	5.3	4.8	4.5	3.8	3.0																	
3/4	2S72-5-P4	3S72-5-P4		S7-5							6.5	6.3	6.0	5.8	5.3	4.5	3.5															
1	2S102-5-P4	3S102-5-P4		S10-5										6.5	6.2	5.5	4.9	4.3	3.3													
1-1/2	2S152-5-P4	3S152-5-P4		S15-5												6.5	6.0	5.5	5.0	4.4	3.6	3.0										
10 GALLONS PER MINUTE																																
1/2	2S52-10-P4	3S52-10-P4	30	S5-10			13.0	12.0	11.0	9.5	8.0	6.5																				
3/4	2S72-10-P4	3S72-10-P4		S7-10			13.2	12.3	11.5	11.0	10.7	9.5	8.5	6.7																		
1	2S102-10-P4	3S102-10-P4		S10-10							13.3	12.6	12.0	11.4	10.3	8.0	6.0															
1-1/2	2S152-10-P4	3S152-10-P4		S15-10									12.6	12.1	11.5	10.5	8.8	7.0														
1/2	2S52-10-P4	3S52-10-P4	40	S5-10		13.0	12.1	11.1	9.5	8.0	6.0																					
3/4	2S72-10-P4	3S72-10-P4		S7-10			13.0	12.0	11.2	10.6	9.5	8.5	7.0																			
1	2S102-10-P4	3S102-10-P4		S10-10							12.7	12.0	11.1	10.3	9.3	7.2																
1-1/2	2S152-10-P4	3S152-10-P4		S15-10										13.0	12.2	11.2	9.8	8.3	6.2													
16 GALLONS PER MINUTE																																
1/2	2S52-16-P4	3S52-16-P4	30	S5-16	20.5	18.5	16.5	12.0																								
3/4	2S72-16-P4	3S72-16-P4		S7-16				20.0	18.0	15.0	11.5																					
1	2S102-16-P4	3S102-16-P4		S10-16					20.5	18.5	17.0	15.5	13.5	11.0																		
1-1/2	2S152-16-P4	3S152-16-P4		S15-16									20.0	18.8	17.0	14.0																
1/2	2S52-16-P4	3S52-16-P4	40	S5-16	18.5	16.0	12.0																									
3/4	2S72-16-P4	3S72-16-P4		S7-16			20.0	18.0	15.5	12.0																						
1	2S102-16-P4	3S102-16-P4		S10-16				20.5	19.0	17.0	16.0	14.0	11.0																			
1-1/2	2S152-16-P4	3S152-16-P4		S15-16								20.0	19.0	17.5	16.3	12.0																

S Series

PUMP PERFORMANCE																												
HP	2-Wire Cat. No.	3-Wire Cat. No.	Tank Pres.	Pump End Only	Pumping Depth in Feet																							
					0	20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	800	850
25 GALLONS PER MINUTE																												
1/2	2S52-25-P4	3S52-25-P4	30	S5-25	15.0																							
3/4	2S72-25-P4	3S72-25-P4		S7-25	28.0	24.0	17.0																					
1	2S102-25-P4	3S102-25-P4		S10-25		33.0	30.0	27.0	22.5	17.0																		
1-1/2	2S152-25-P4	3S152-25-P4		S15-25				32.0	30.0	28.0	23.0	20.0	14.5															
1/2	2S52-25-P4	3S52-25-P4	40	S5-25																								
3/4	2S72-25-P4	3S72-25-P4		S7-25	24.0	18.0																						
1	2S102-25-P4	3S102-25-P4		S10-25		30.5	27.5	23.0	16.0																			
1-1/2	2S152-25-P4	3S152-25-P4		S15-25				30.5	28.0	24.5	19.5	14.0																
40 GALLONS PER MINUTE																												
1	2S102-40-P4	3S102-40-P4	30	S10-40	30.0																							
1-1/2	2S152-40-P4	3S152-40-P4		S15-40		48.0	36.0	17.0																				
1	2S102-40-P4	3S102-40-P4	40	S10-40																								
1-1/2	2S152-40-P4	3S152-40-P4		S15-40	47.0	35.0	16.0																					

The Ranger

The Ranger Series 4" high-flow submersible pumps are perfect for applications requiring a large volume of water. Stainless steel components and high-density composite resin impellers provide exceptional resistance to corrosion in harsh water conditions. The high-torque motor and superior pump hydraulics are carefully matched to handle virtually any job.

APPLICATIONS

■ **Water systems...** irrigation, industrial, commercial, multiple housing and farm clean water use

SPECIFICATIONS

Shell – 300 Series Stainless Steel

Discharge – 300 Series Stainless Steel

Discharge Bearing – Buna-N

Impellers – Engineered Composite

Diffusers – Engineered Composite

Suction Caps – Engineered Composite

Shaft and Coupling – 300 Series Stainless Steel

Intake – 300 Series Stainless Steel

Intake Screen – 300 Series Stainless Steel

Cable Guard – 300 Series Stainless Steel

Fasteners – 300 Series Stainless Steel

FEATURES

Turn Up the Volume – High-flow capacities to 100 GPM make the Ranger 4" sub the easy choice for the really big jobs.

More Stainless Steel – Shell, discharge and suction bowl, shaft and coupling, lead guard and suction screen.

Staged for Toughness – Specially designed, high-density thermo-plastic impellers resist the corrosive wear from harsh water conditions.

High-powered Performance – Features a high-torque, heavy-duty motor for the most demanding applications.

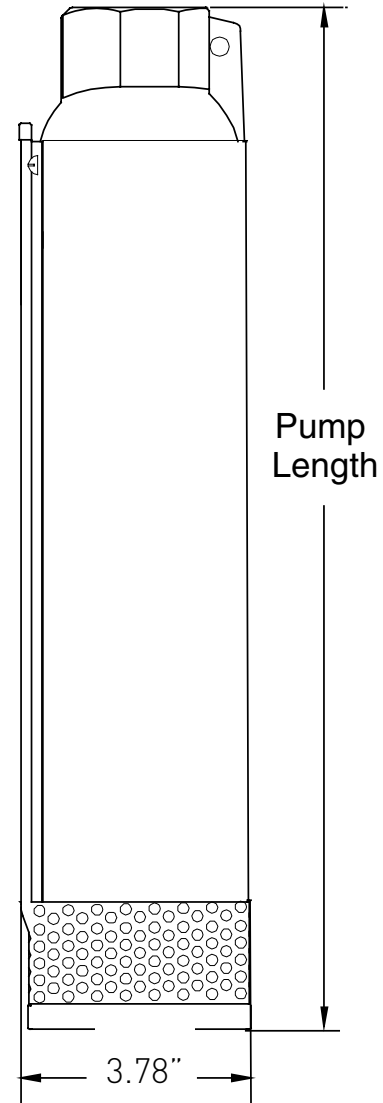


The Ranger

ORDERING INFORMATION - PUMP

GPM	HP	Stages	Assembled Pump		
			Catalog Number	Length Inches*	Weight Pounds*
25	1	7	SS10-25	18	12
	1-1/2	9	SS15-25	21	14
	2	11	SS20-25	24	15
	3	15	SS30-25	30	19
	5	25	SS50-25	48	27
	7-1/2	37	SS75-25	67	55
35	1	4	SS10-35	15	10
	1-1/2	6	SS15-35	18	12
	2	8	SS20-35	22	14
	3	11	SS30-35	28	17
	5	18	SS50-35	43	24
	7-1/2	28	SS75-35	62	52
	10	37	SS100-35	75	63
50	1-1/2	6	SS15-50	21	14
	2	7	SS20-50	23	15
	3	10	SS30-50	31	19
	5	16	SS50-50	48	27
	7-1/2	25	SS75-50	70	59
	10	32	SS100-50	84	68
80	2	6	SS20-80	29	16
	3	9	SS30-80	39	20
	5	14	SS50-80	59	45
	7-1/2	22	SS75-80	66	59
	10	27	SS100-80	100	69

OUTLINE DIMENSIONS



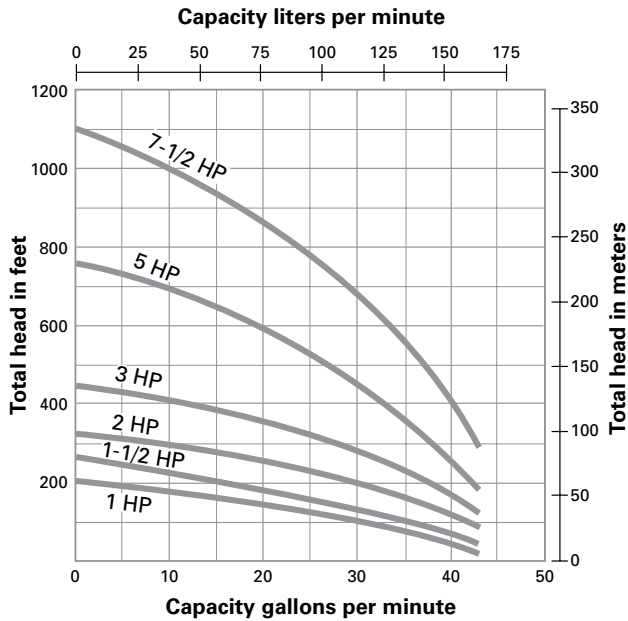
MOTOR / CONTROL BOX

HP	No. of Wires	Volts	PH	Pentek® Motor			Pentek Control Box Catalog Number
				Catalog Number	Length Inches*	Weight Pounds*	
1	2	230	1	P42B0010A2	12	22	
	3	230	1	P43B0010A2	12	22	SMC-CR1021
		460	3	P43B0010A4	12	23	
1-1/2	2	230	1	P42B0015A2	15	30	
	3	230	1	P43B0015A2	14	27	SMC-CR1521
		230	3	P43B0015A3	13	23	
		460	3	P43B0015A4	12	23	
		230	1	P43B0020A2	15	29	SMC-CR2021
2	3	230	3	P43B0020A3	14	27	
		460	3	P43B0020A4	14	27	
		230	1	P43B0030A2	24	49	SMC-CR3021
3	3	230	3	P43B0030A3	21	40	
		460	3	P43B0030A4	15	32	
		230	1	P43B0050A2	30	66	SMC-CR5021
5	3	230	3	P43B0050A3	24	50	
		460	3	P43B0050A4	22	55	
		230	3	P43B0075A3	30	66	
7-1/2	3	460	3	P43B0075A4	28	70	
10	3	460	3	P43B0100A4	31	78	

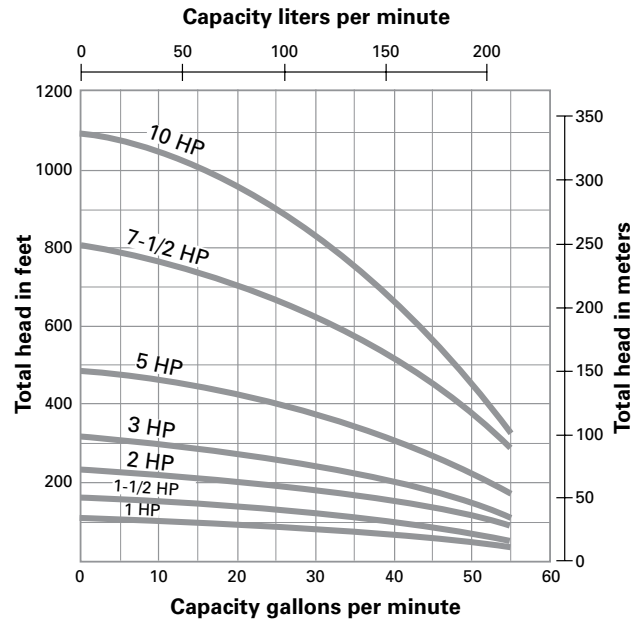
*Length and weight are approximate.

The Ranger

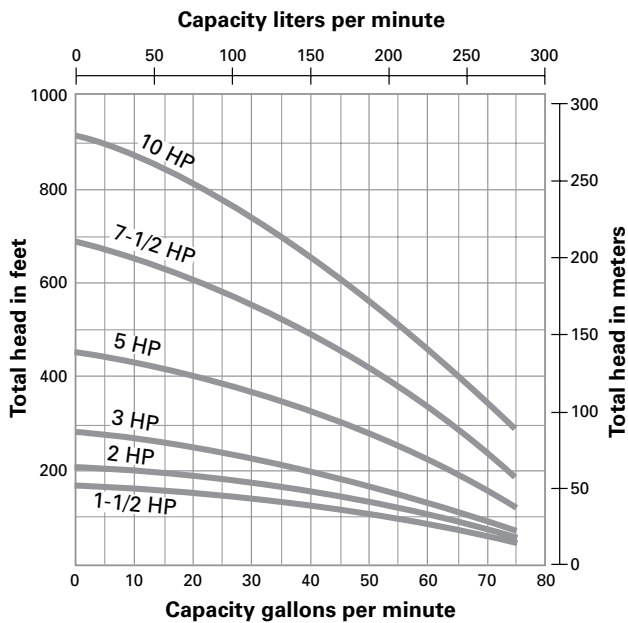
PUMP PERFORMANCE – 25 GPM



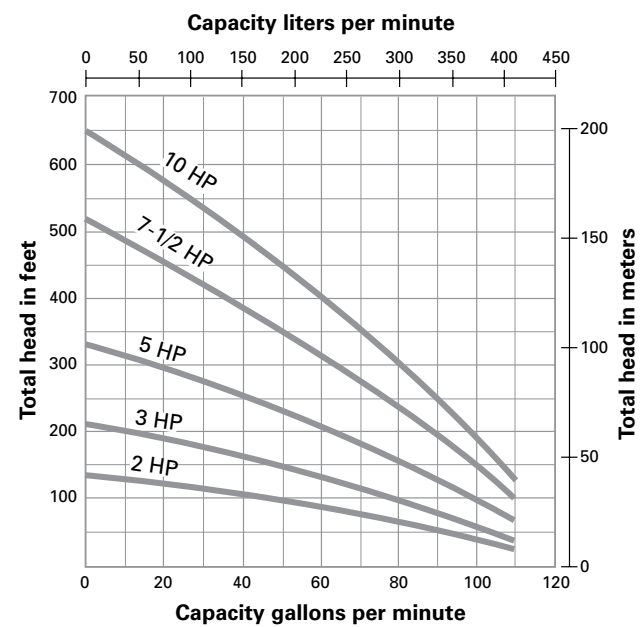
PUMP PERFORMANCE – 35 GPM



PUMP PERFORMANCE – 50 GPM



PUMP PERFORMANCE – 80 GPM



The Ranger

PUMP PERFORMANCE																											
HP	Catalog Number	Tank Pressure	Pumping Depth in Feet																								
			0	20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	800	850	
25 GALLONS PER MINUTE																											
1	SS10-25	20/40 30/50	35 30	31 28	27 22	22 17	18 12	11																			
1-1/2	SS15-25	20/40 30/50	36	33	33 30	30 27	27 23	23 20	20 15	15																	
2	SS20-25	20/40 30/50				36	36 33	33 31	31 27	28 24	25 20	21 16	17														
3	SS30-25	20/40 30/50							36	34	32	33 30	30 28	25 22	18 15												
5	SS50-25	20/40 30/50												37 36	34 33	31 30	28 27	25 24	22 21	18 16	13						
7-1/2	SS75-25	20/40 30/50															37	36	34 34	32 32	30 29	28 27	26 24	23 22	19 18	16 15	
35 GALLONS PER MINUTE																											
1	SS10-35	20/40 30/50	37 25	25																							
1-1/2	SS15-35	20/40 30/50	49 42	43 34	35 26	28 15																					
2	SS20-35	20/40 30/50		50 46	46 40	41 33	35 26	27 16																			
3	SS30-35	20/40 30/50				49	49 45	46 42	42 37	38 33	33 26	27 21	15														
5	SS50-35	20/40 30/50								49	49 47	47 45	45 43	39 36	32 28	23 18											
7-1/2	SS75-35	20/40 30/50													50 49	47 46	44 43	40 38	36 34	32 30	27 24	16					
10	SS100-35	20/40 30/50														51 49	49 48	48 47	46 45	43 42	40 39	38 37	35 34	32 30	29 27	25 23	
50 GALLONS PER MINUTE																											
1-1/2	SS15-50	20/40 30/50	65 55	56 45	46 34	37 20																					
2	SS20-50	20/40 30/50		63 55	56 47	47 40	40 29	30																			
3	SS30-50	20/40 30/50		64	64 60	60 55	55 49	50 44	44 35	36 29																	
5	SS50-50	20/40 30/50					66	67 64	64 60	61 57	57 54	54 50	51 46	41 36	30 23												
7-1/2	SS75-50	20/40 30/50									67	67 65	65 63	60 58	55 53	49 46	43 40	35 32									
10	SS100-50	20/40 30/50												68 67	65 63	61 59	58 56	53 51	48 46	44 42	39 37	33 30					
80 GALLONS PER MINUTE																											
2	SS20-80	20/40 30/50	75 58	56 40	40																						
3	SS30-80	20/40 30/50	93 81	81 71	72 60	60 48	50 37																				
5	SS50-80	20/40 30/50		94	94 88	87 80	80 72	72 62	63 58	57 50	49 40	40															
7-1/2	SS75-80	20/40 30/50				100	96 90	96 87	91 87	87 82	82 78	77 72	72 67	60 52	45 39												
10	SS100-80	20/40 30/50							97 95	95 93	93 90	89 86	84 81	72 70	68 65	58 55											

PENTEK® XE Series 4" Submersible Motors

Built with the latest design, manufacturing and testing technology, the Pentek XE Series 4" submersible high-thrust motors feature laser-welded 304L stainless steel construction, higher thrust capacities and higher efficiencies. The Pentek XE Series submersible motors incorporate "encapsulated, epoxy stator design," and professional-grade Class F insulation provides longer life in harsh environments. Each motor is 100% factory pressure and run tested to support our quality standards.

APPLICATIONS

■ **Water systems...** for residential, industrial, commercial, multiple housing and farm clean water use.

SPECIFICATIONS

End Bell – 304 Stainless Steel

Shell – 304 Stainless Steel

Motor Shaft – 17-4 Precipitation Hardened Stainless Steel

Insulation – Class F, 311°F (155°C)

Max. Water Temp – 86°F (30°C)

Fasteners – 304 Stainless Steel

Sand Boot – Nitrile

Cable – Field-serviceable, Controlled Compression Design, UL and CSA Approved

Cable Length – 48"

Diaphragm – EPDM

Thrust Bearings – Kingsbury-type, pivot shoe, carbon graphite mating ring

Thrust Load Capacity – 700 lbs.

FEATURES

700# Rated Kingsbury Thrust Bearing Design – Large high-performance bearings are standard on all HPs allowing for higher thrust loads, providing many years of trouble-free service under severe-duty operation.

2-Wire Permanent Split Capacitor – Design insures quiet operation and improved operating efficiency.

3-Wire Motors – Operate with Pentek SMC and other single-phase motor controls.

All Stainless Steel Exterior

Professional-Grade Class F-Compliant Motor Insulation – Allows for longer service life.

UL, CSA Approved and 100% Factory Pressure and Run Tested

Equipped with Surge Arrestor

Automatic Thermal Protection on 1/2 – 1 HP Models



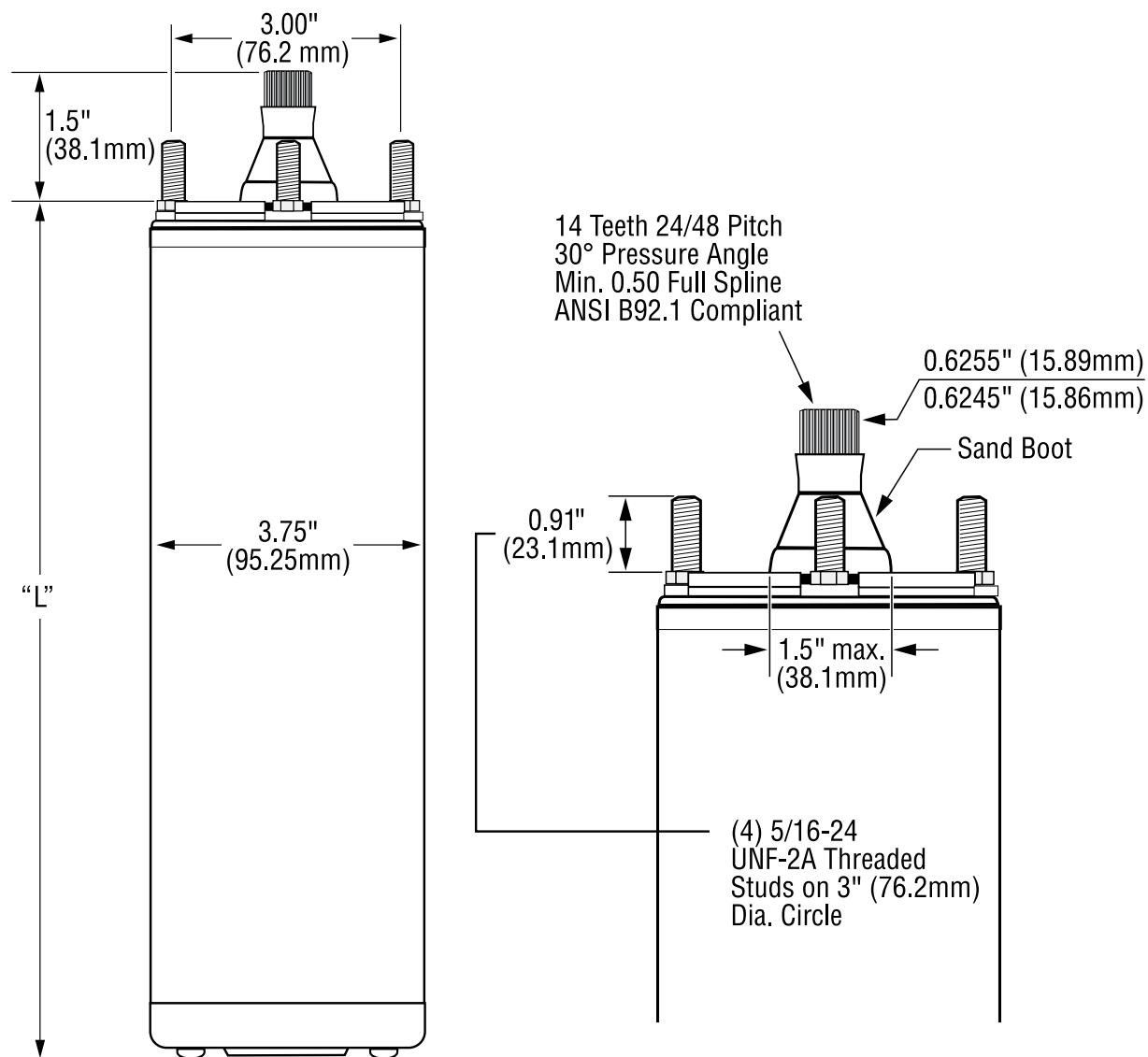
PENTEK® XE Series 4" Submersible Motors

ORDERING INFORMATION																	
Rating					Catalog Number	Full Load Amps	Max. Load (SF Load) Amps	Locked Rotor Amps	Winding		Thrust Rating	Length		Weight			
HP	kW	Volts	Hz	Service Factor					Main Resistance	Start Resistance		In.	mm	Lb.	Kg		
PSC 2 Wire																	
1/2	0.37	115	60	1.6	P42B0005A1	7.4	9.5	36.4	1.3-1.8		700	11.0	279	19.2	8.7		
		230		1.6	P42B0005A2	3.7	4.7	19.5	4.5-5.2			11.0	279	19.2	8.7		
3/4	0.55	230		1.5	P42B0007A2	5.0	6.4	24.8	3.0-4.8			12.4	314	22.7	10.3		
1	0.75	230		1.4	P42B0010A2	7.9	9.1	21.7	4.2-5.2			13.3	337	24.5	11.1		
1-1/2	1.1	230		1.3	P42B0015A2	9.2	11.0	42.0	1.9-2.3					14.9	378	28.9	13.1
CSIR 3 Wire																	
1/2	0.37	115	60	1.6	P43B0005A1	11.0	12.6	49.6	0.9-1.6	5.7-7.0	700	10.0	253	18.9	8.6		
		230		1.6	P43B0005A2	5.5	6.3	22.3	4.2-4.9	17.4-18.7		9.7	246	18.1	8.2		
3/4	0.55	230		1.5	P43B0007A2	7.2	8.3	32.0	2.6-3.6	11.8-13.0		10.8	275	21.4	9.7		
1	0.75	230		1.4	P43B0010A2	8.4	9.7	41.2	2.2-3.2	11.3-12.3		11.7	297	23.1	10.5		
CSCR 3 Wire																	
1/2	0.37	230		60	1.6	P43B0005A2	4.1	4.9	22.3	4.2-4.9		17.4-18.7	700	9.7	246	18.1	8.2
3/4	0.55		1.5		P43B0007A2	5.1	6.3	32.0	2.6-3.6	11.8-13.0	10.8	275		21.4	9.7		
1	0.75		1.4		P43B0010A2	6.1	7.2	41.2	2.2-3.2	11.3-12.3	11.7	297		23.1	10.5		
1-1/2	1.1		1.3		P43B0015A2	9.7	11.1	47.8	1.6-2.3	7.9-8.7	13.6	345		27.4	12.4		
2	1.5		1.25		P43B0020A2	9.9	12.2	49.4	1.6-2.2	10.8-12.0	900	15.1	383	31.0	14.1		
3	2.2		1.15		P43B0030A2	14.3	16.5	76.4	1.1-1.4	2.0-2.5		18.3	466	40.0	18.1		
5	3.7		1.15		P43B0050A2	24	27	101.0	0.62-0.76	1.36-1.66		27.7	703	70.0	31.8		
3 Phase																	
Rating					Catalog Number	Full Load Amps	Max. Load (SF Load) Amps	Line to Line Resistance Ohms	Locked Rotor Amps	Thrust Rating	Length		Weight				
HP	kW	Volts	Hz	Service Factor							In.	mm	Lb.	Kg			
1/2	0.37	200	60	1.6	P43B0005A8	2.9	3.4	4.1-5.2	22	700	10.0	254	18.9	8.6			
		230			P43B0005A3	2.4	2.9	5.72-7.2	17.3		10.0	254	18.9	8.6			
		460			P43B0005A4	1.3	1.5	23.6-26.1	9		10.0	254	18.9	8.6			
3/4	0.55	200	60	1.5	P43B0007A8	3.8	4.5	2.6-3.0	32.0		10.8	274	21.4	9.7			
		230			P43B0007A3	3.3	3.9	3.3-4.3	27		10.8	274	21.4	9.7			
		460			P43B0007A4	1.7	2.0	14.4-16.2	14		10.8	274	21.4	9.7			
1	0.75	200	60	1.4	P43B0010A8	4.6	5.5	3.4-3.9	29.0		11.7	297	23.1	10.5			
		230			P43B0010A3	4.0	4.7	4.1-5.1	26.1		11.7	297	23.1	10.5			
		460			P43B0010A4	2.2	2.5	17.8-18.8	13.0		11.7	297	23.1	10.5			
1-1/2	1.1	200	60	1.3	P43B0015A8	6.3	7.2	1.9-2.5	40.0		11.7	297	23.1	10.5			
		230			P43B0015A3	5.2	6.1	2.8-3.4	32.4		11.7	297	23.1	10.5			
		460			P43B0015A4	2.8	3.2	12.3-13.1	16.3		11.7	297	23.1	10.5			
		575			P43B0015A5	2	2.4	19.8-20.6	11.5		11.7	297	23.1	10.5			
		200			P43B0020A8	7.5	8.8	1.4-2.0	51.0	900	13.8	351	27.4	12.4			
2	1.5	230	60	1.25	P43B0020A3	6.5	7.6	1.8-2.4	44.0		13.8	351	27.4	12.4			
		460			P43B0020A4	3.3	3.8	8.00-8.67	23.0		13.8	351	27.4	12.4			
		575			P43B0020A5	2.7	3.3	9.4-9.7	21.4		15.3	389	32	14.5			
3	2.2	200	60	1.15	P43B0030A8	10.9	12.0	0.9-1.3	71.0		15.3	389	32	14.5			
		230			P43B0030A3	9.2	10.1	1.3-1.7	58.9		15.3	389	32	14.5			
		460			P43B0030A4	4.8	5.3	5.9-6.5	30.0		15.3	389	32	14.5			
		575			P43B0030A5	3.7	4.1	9.4-9.7	21.4		15.3	389	32	14.5			
		200			P43B0050A8	18.3	20.2	0.4-0.8	113.0	1500	21.7	551	55	24.9			
5	3.7	230	60	1.15	P43B0050A3	15.7	17.5	0.85-1.25	93.0		21.7	551	55	24.9			
		460			P43B0050A4	7.6	8.5	3.58-4.00	48.0		21.7	551	55	24.9			
		575			P43B0050A5	7.0	7.6	3.6-4.2	55.0		27.7	703	70	31.8			
7-1/2	5.6	200	60	1.15	P43B0075A8	27.0	30.0	0.5-0.6	165.0		27.7	703	70	31.8			
		230			P43B0075A3	24.0	26.4	0.55-0.85	140.0		27.7	703	70	31.8			
		460			P43B0075A4	12.2	13.5	1.9-2.3	87.0		27.7	703	70	31.8			
		575			P43B0075A5	9.1	10.0	3.6-4.2	55.0		27.7	703	70	31.8			
		10			7.5	460	60	1.15	P43B0100A4		15.6	17.2	1.8-2.2	110.0	30.7	780	78

NOTE: Amp ratings on 3-wire motors reflect use with CSIR controls. A CSCR control is recommended for lower values.

PENTEK® XE Series 4" Submersible Motors

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

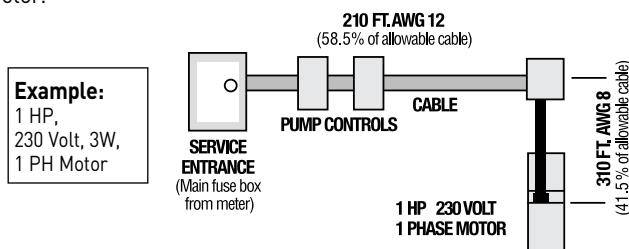
LEAD LENGTH

Catalog Number	# of Wire	Type	Length	Gauge
XE SERIES REPLACEMENT MOTOR LEADS				
P18-1485K	2 Wire	XLPE	48"	14 Ga
P18-1486K	3 Wire	XLPE	48"	14 Ga
P18-1651K	2 Wire	XLPE	100"	14 Ga
P18-1652K	3 Wire	XLPE	100"	14 Ga

Cable Selection

Two different cable sizes can be used.

The example below is for reference. Depending on the installation, any number of combinations may be used, as long as the total percentage length of the two cables used does not exceed 100%. This is to ensure that adequate voltage will be supplied to the motor.



In a replacement installation, the well already has 210 feet of buried #12 cable between the service entrance and the well head. The question is: What size cable is required in the well with a 1 HP, 230 Volt, 1 PH, 3W motor setting at 310 feet?

1. According to the table, #12 cable is large enough for the 1 HP motor so the percent of the maximum allowable cable used by the 210-foot run is $210 \div 359 = 58.5\%$, since 359 feet is the total allowable.
2. With 58.5% of the total allowable cable already used between the service entrance and the well head, only 41.5% is left for the well. Therefore, the 310 feet needed in the well can only utilize 41.5% of the total feet allowed in the table.
3. From the table, 41.5% of the 573 feet for #10 cable equals only 238 feet, so a larger size is needed. For #8, 41.5% of 908 feet = 377 feet. As a result, #8 can be used for the 310 feet in the well.

CAUTION

Use of wire size smaller than listed will void warranty.

MOTOR LEAD LENGTHS – PENTEK® 2-WIRE MOTORS

60 Hz Motor Rating		60C and 75C Insulation – AWG Copper Wire Size												
Volts	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
115	1/2	115	183	293	463	721	1150	1445	1825	2299	2902	3662	4623	5824
230	1/2	466	742	1183	1874	2915	4648	5843	7379	9295	11733			
	3/4	342	545	869	1376	2141	3413	4291	5419	6826	8617	10871		
	1	241	383	611	968	1506	2400	3018	3811	4801	6060	7646	9652	
	1-1/2	199	317	505	801	1246	1986	2496	3153	3972	5013	6325	7985	

MOTOR LEAD LENGTHS – PENTEK 3-WIRE PSC MOTORS

60 Hz Motor Rating		60C and 75C Insulation – AWG Copper Wire Size												
Volts	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
115	1/2	87	138	221	349	544	867	1090	1376	1734	2188	2761	3485	4391
230	1/2	348	553	883	1398	2175	3467	4359	5505	6935	8753			
	3/4	264	420	670	1061	1651	2632	3309	4178	5264	6644	8383		
	1	226	359	573	908	1413	2252	2831	3575	4504	5685	7173		

CSCR Control Boxes

60 Hz Motor Rating		60C and 75C Insulation – AWG Copper Wire Size												
Volts	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
230	1/2	447	711	1135	1797	2796	4458	5604	7078	8916	11254			
	3/4	348	553	883	1398	2175	3467	4359	5505	6935	8753	11044		
	1	304	484	772	1223	1903	3034	3814	4817	6068	7659	9663		
	1-1/2	197	314	501	793	1234	1968	2474	3124	3936	4968	6268		
	2	180	286	456	722	1123	1790	2251	2843	3581	4520	5703		
	3	133	211	337	534	830	1324	1664	2102	2648	3342	4217	5323	
	5			206	326	507	809	1017	1284	1618	2042	2577	3253	

All lengths in feet.

NOTE: Based on service factor amps, 30C ambient and 5% voltage drop.

(1) This table is based on copper wire. If aluminum wire is used it must be two sizes larger.

Example: When the table calls for #12 copper wire you would use #10 aluminum wire.

(2) Cables #14 to #0000 are AWG sizes.

Cable Selection

MOTOR LEAD LENGTHS – PENTEK® 3-PHASE MOTORS														
60 Hz Motor Rating		60C AND 75C Insulation – AWG Copper Wire Size												
Volts	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
200	0.5	657	1045	1667	2641	4109								
	3/4	423	674	1074	1702	2648								
	1	346	551	879	1392	2166	3454	4342						
	1.5	265	421	672	1064	1655	2638	3317						
	2	217	344	549	870	1354	2158	2714	3427	4317	5449			
	3	159	253	403	638	993	1583	1990	2513	3166	3996			
	5	94	150	239	379	590	940	1182	1493	1881	2374	2995	3781	4764
230	7.5	64	101	161	255	397	633	796	1005	1266	1598	2017	2546	3207
	0.5	756	1202	1917	3037	4725	7532	9469						
	0.75	562	894	1426	2258	3513	5601	7041	8892					
	1	466	742	1183	1874	2915	4648	5843	7379					
	1.5	359	571	912	1444	2246	3581	4502	5685	7162	9040			
	2	288	459	732	1159	1803	2874	3613	4563	5748	7256	9155		
	3	217	345	551	872	1357	2163	2719	3434	4326	5460	6889	8696	10956
460	5			318	503	783	1248	1569	1982	2496	3151	3976	5019	6323
	7.5				334	519	827	1040	1314	1655	2089	2635	3327	4192
	0.5	2922	4648	7414										
	0.75	2191	3486	5560	8806									
	1	1753	2789	4448	7045									
	1.5	1370	2179	3475	5504									
	2	1153	1835	2926	4635	7212								
575	3	827	1315	2098	3323	5171								
	5	516	820	1308	2072	3224	5140							
	7.5	325	516	824	1305	2030	3236	4068	5138	6472				
	10	255	405	647	1024	1593	2540	3193	4033	5080				
	1.5	2283	3631	5792										
	2	1660	2641	4212	6671									
	3	1336	2126	3390	5370									
575	5	721	1147	1829	2897	4507								
	7.5	548	871	1390	2202	3426								

All lengths in feet.

NOTE: Based on service factor amps, 30C ambient and 5% voltage drop.

(1) This table is based on copper wire. If aluminum wire is used it must be two sizes larger.

Example: When the table calls for #12 copper wire you would use #10 aluminum wire.

(2) The portion of the total cable that is between the service entrance and a 3-phase motor starter should not exceed 25% of the total maximum length to assure reliable starter operation.

(3) Cables #14 to #0000 are AWG sizes.

Submersible Motor Controls

Pentek® offers a full range of 1/2 - 15 HP models that are interchangeable with existing motor controls for Capacitor Start/Induction Run (CSIR) and Capacitor Start/Capacitor Run (CSCR) applications. Pentek is the professional choice in harsh and high temperature installations.

APPLICATIONS

■ **Water systems...** for residential, commercial, multiple housing and farm uses, where a submersible 3-wire motor is used.

FEATURES

Enclosure:

Rugged NEMA 3R enclosure – Suitable for indoor/outdoor use.

NEW HardBond™ Finish – 5-times more corrosion-resistant.

Multiple-size Electrical Knockouts

Internals:

High-load Voltage Relay

Heavy-duty Contacts

External Access to Overload

Reset CSCR

Heavy-duty Terminal Connectors –

Suitable for up to #4 AWG wire.

Industry Standard Wiring Connections –

Easy-to-read wiring diagrams.

Agency Approvals – UL 778 and CUL Recognized (60 Hz)

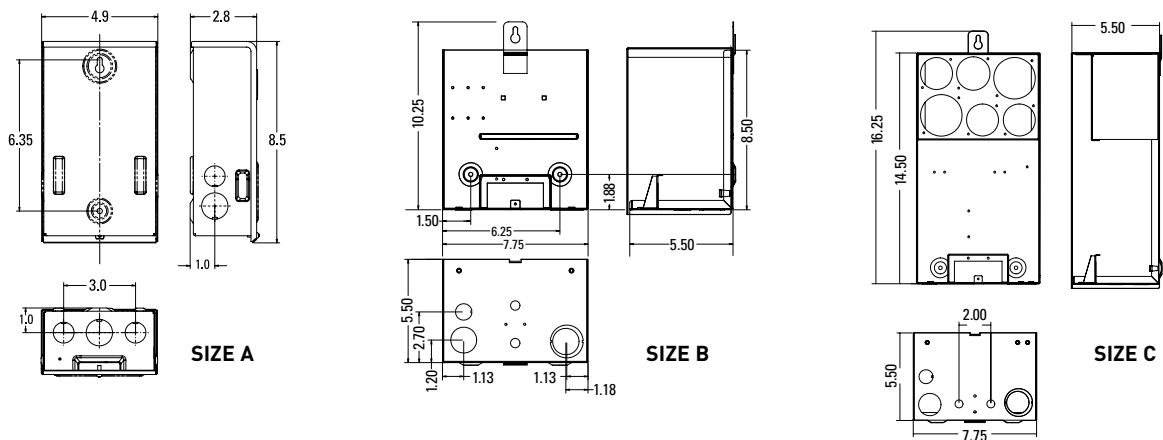


Submersible Motor Controls

ORDERING INFORMATION								
HP	kW	PH	Volts	60 Hz Catalog Number	50 Hz Catalog Number	Weight		Enclosure Size
						Lbs	Kg	
CSIR – Capacitor Start/Induction Run								
1/2	0.37	1	115	SMC-IR0511 [-6pk]*		4	1.8	A
1/2	0.37	1	230	SMC-IR0521 [-6pk]*		4	1.8	A
3/4	0.55	1	230	SMC-IR0721 [-6pk]*		4	1.8	A
1	0.75	1	230	SMC-IR1021 [-6pk]*		4	1.8	A
CSCR – Capacitor Start/Capacitor Run								
1/2	0.37	1	230	SMC-CR0521 [-6pk]*	SMC5-CR0521	5	2.3	A
3/4	0.55	1	230	SMC-CR0721 [-6pk]*	SMC5-CR0721	5	2.3	A
1	0.75	1	230	SMC-CR1021 [-6pk]*	SMC5-CR1021	5	2.3	A
1-1/2	1.1	1	230	SMC-CR1521	SMC5-CR1521	7	3.2	B
2	1.5	1	230	SMC-CR2021	SMC5-CR2021	7	3.2	B
3	2.2	1	230	SMC-CR3021	SMC5-CR3021	7	3.2	B
5	3.7	1	230	SMC-CR5021	SMC5-CR5021	8	3.6	B
7-1/2	5.5	1	230	SMC-CR7521		12	5.4	C
10	7.5	1	230	SMC-CR10021		14	6.4	C
CSCR PLUS – Capacitor Start/Capacitor Run PLUS Magnetic Contactor								
2	1.5	1	230	SMC-CRP2021	SMC5-CRP2021	7	3.2	B
3	2.2	1	230	SMC-CRP3021	SMC5-CRP3021	8	3.6	B
5	3.7	1	230	SMC-CRP5021	SMC5-CRP5021	12	5.4	C
7-1/2	5.5	1	230	SMC-CRP7521		14	6.4	C
10	7.5	1	230	SMC-CRP10021		15	6.8	C
15	11	1	230	SMC-CRP15021		17	7.7	C

*Submersible Motor Controls are available in single and six packs. Include the suffix “-6pk” after the catalog number if 6 packs are required.

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

Single-Phase Pump Protection

Pentek® offers a full range of 1/3 - 15 HP single-phase protectors for residential, commercial, multiple housing and farm water systems applications where a 4" submersible, 2- and 3-wire motor is used and for aboveground pressure-boost applications.

APPLICATIONS

Pentek offers 5 models for your application needs based on HP and Motor Type: SPP-111P, SPP-111-3RLP, SPP-231P, SPP-233P and SPP-235P.

FEATURES

Protects Pumps – From dry well, overcurrent (jammed impeller), flow restriction (dead head), overvoltage, undervoltage, rapid cycling.



ORDERING INFORMATION

	115 VOLT MODELS		230 VOLT MODELS		
Catalog Number	SPP-111P	SPP-111-3RLP	SPP-231P	SPP-233P	SPP-235P
Enclosure Type	Insider	NEMA 3R	Insider	NEMA 3R	NEMA 3R
1-Phase Line Voltage	115VAC	115VAC	230VAC	230VAC	230VAC
Load Range	1/3 - 1/2 HP	1/3 - 1 HP	1/2 - 1 HP	1/2 - 3 HP	5 - 15 HP
Frequency	50 - 60Hz	50 - 60Hz	50 - 60Hz	50 - 60Hz	50 - 60Hz
Operating Points					
Overload [% of Cal. Point]	125%	125%	125%	125%	125%
Overvoltage Reset Point	132VAC	132VAC	265VAC	265VAC	265VAC
Undervoltage Reset Point	95VAC	95VAC	190VAC	190VAC	190VAC
Trip Delay (Overload)	10 sec.	10 sec.	10 sec.	5 sec.	5 sec.
Trip Delay (Dry Well)	2 sec.	2 sec.	2 sec.	2 sec.	2 sec.
Optional Trip Delay	4 sec.	4 sec.	4 sec.	4 sec.	4 sec.
Restart Delay Time					
Over/Under Voltage Delay	5 Sec.	5 Sec.	5 Sec.	5 Sec.	5 Sec.
All Other Faults (Dry Well REC. Timer)	2 - 225 min.	2 - 225 min.	2 - 225 min.	2 - 225 min.	2 - 225 min.
Output Contact Rating (SPST)	1 HP	1 HP	1 HP (17 amps max.)	3 HP (17 amps max.)	480VA @ 240VAC
Power Consumption (max.)	5 amps	5 amps	5 amps	5 amps	5 amps
Weight w/o Enclosure	10 oz.		10 oz.	14 oz.	14 oz.
Weight w/Enclosure		1.6 lbs.		1.6 lbs.	1.6 lbs.
Enclosure Size	2.2" x 2.8"	6" x 6" x 4"	2.2" x 2.8"	6" x 6" x 4"	6" x 6" x 4"

SPP-111P and SPP-231P Single-Phase Pump Protection

For 1/3 - 1 HP applications, the SPP-111P and SPP-231P Insider fits within 1/3 - 1 HP 115V and 230V CSIR control boxes. It's a "current monitor" designed to protect single-phase pumps. A simple adjustment allows the Insider to be calibrated to your specific pumping applications, reducing the possibility of false or nuisance tripping. Its unique microprocessor constantly monitors the incoming power for fluctuations in voltage and current. If loss of suction or other abnormality is detected, the Insider deactivates its output relay and directly disconnects the pump motor. Then it begins its user-selectable "Restart Delay/Dry Well Recovery" timer. When the timer counts zero or power is removed and reapplied, the SPP-231P Insider reactivates its output relay and turns the pump back on.

The Pentek® Informer Remote Handheld Diagnostic Tool (sold separately) communicates directly with ALL Pentek Pump Protectors and instantly displays 16 parameters including calibration points, running points and last fault.

APPLICATIONS

■ **Water systems...** for residential, commercial, multiple housing, farm and turf irrigation uses, where a 4" submersible 3-wire motor is used.



FEATURES

Restart Delay – Can be set up to 225 minutes or placed in manual reset mode.

Calibration – Can be calibrated to specific pump/motor combinations and various conditions.

Infrared Communication – Coupled with the Pentek Informer makes diagnostics simple.

Fits in Existing 3-wire Motor Control Boxes

ORDERING INFORMATION

HP	Phase	Volts	Frequency	Catalog Number	WEIGHT		Carton Size
					LBS.	KG	
1/3 - 1/2	1	115	50 - 60Hz	SPP-111P	1	0.45	4.4" x 4.4" x 6.8"
1/3 - 1	1	230	50 - 60Hz	SPP-231P	1	0.45	4.4" x 4.4" x 6.8"

SPP-111-3RLP, SPP-233P and SPP-235P Pump Protection

For 1/2 - 15 HP applications the SPP-111-3RLP, SPP-233P and SPP-235P single-phase protectors include a unique microcontroller-based voltage and current-sensing circuit that constantly monitors the incoming power for fluctuations including over-current and undercurrent. When an abnormality, such as loss of suction, is detected, the control deactivates its output relay and directly disconnects the pump motor. The SPP then begins its user-selectable restart delay (dry-well recovery) timer. When the timer counts to zero or power is removed and reapplied, the SPP reactivates its output relay and turns the pump back on. An infrared LED communicates directly with a handheld diagnostic tool called the Informer (sold separately – see page 60). The Informer displays 15 parameters including calibration point, trip point, running points, and last fault. The SPPs are all mounted in a NEMA 3R enclosure.

APPLICATIONS

- **Water systems...** for residential, commercial, multiple housing and farm uses, where a 4" 2 or 3-wire submersible motor or above-ground motor is used.

FEATURES

Protects Pumps – from dry well overvoltage, flow restriction (dead head), undervoltage, overcurrent (jammed impeller).



SPP-233P



ORDERING INFORMATION

HP	Phase	Volts	Frequency	Catalog Number	WEIGHT		Carton Size
					LBS.	KG	
1/2 - 1	1	115	50 - 60Hz	SPP-111-3RLP	1.6	0.7	7.25" x 7" x 5.25"
1/2 - 1-1/2	1	230	50 - 60Hz	SPP-233P-1.5	1.6	0.7	7.25" x 7" x 5.25"
1/2 - 3	1	230	50 - 60Hz	SPP-233P	1.6	0.7	7.25" x 7" x 5.25"
5 and 7-1/2	1	230	50 - 60Hz	SPP-235P-75*	2	0.9	7.25" x 7" x 5.25"
10	1	230	50 - 60Hz	SPP-235P-100*	2	0.9	7.25" x 7" x 5.25"
15	1	230	50 - 60Hz	SPP-235P-150*	2	0.9	7.25" x 7" x 5.25"

*Current transformer included.

The Informer Pump Protection

APPLICATIONS

- **The Pentek® Informer...** a remote handheld diagnostic tool designed for use with Pentek single-phase submersible pump protectors (SPP-111P, 231P, 233P and 235P) equipped with infrared LED transmitters.

SPECIFICATIONS

- **Displayed Parameters** – Diagnostic information received and displayed in real-time: Voltage, Current, Power, Dry Well.
- **Overload Trip Points**
- **Calibration Voltage**
- **Last Fault**
- **Highest/Lowest Voltage** – Since Last Calibration

FEATURES

Infrared Receiver – The Pentek Informer uses an infrared receiver to access data sent from the SPP, allowing remote troubleshooting of the system.

Infrared LED – Each Pentek SPP is equipped with an infrared LED that transmits information from the device. The Informer must be aimed at the SPP as shown in the figure to the left. As soon as power is applied, the Informer begins receiving both past and present information and displays it on the LCD.

Status Light – The green COMM STATUS light indicates when the Informer is receiving data from the SPP. If communication is lost, the Informer will hold the last values it received.



ORDERING INFORMATION

Catalog Number	WEIGHT		Carton Size
	LBS.	KG	
SPP-Informer	1	0.45	4.375" x 3.375" x 6.75"

PENTEK INTELLIDRIVE™

The Pentek Intellidrive Water Pressure Control Center is an “Intelligent Variable Frequency Drive” that directs changes in submersible pump motor speed, responding to fluctuations in household demand. It maintains constant water pressure, regardless of how many people or appliances are using water at the same time.

Homeowners with water pressure problems experience weak showers, unclear dishes, dry lawns and more.



APPLICATIONS

- Residential water systems, landscape irrigation, water transfer.

SPECIFICATIONS

Enclosure Dimensions:

Width: 9.72" Height: 19" Depth: 6.93"

Carton Dimensions: 10.4" width, 22.3" height, 9.4" depth

Shipping Weight: 22 pounds

Ambient Temperature Range: -20°C (-4°F) to 50°C (122°F)

Ambient Humidity Range: 95% non-condensing

Includes:

Variable Frequency Drive

Transducer: 1/4" thread size, 18 NPT type

Transducer Cable: 10' length standard

FEATURES

3 Models Meet all Your Needs

1-HP, 2-HP & 5-HP Capabilities

2-Wire, 3-Wire & 3-Phase in same unit

3-Phase Output (60 Hz/80 Hz)**

Pump and Motor Last Longer

“Soft Start/Coast to Stop” minimizes mechanical stress.

Constant pressure eliminates frequent on/off “pressure cycling”.

Advanced Control System

Needed for installation, system monitoring and troubleshooting.

Easy touchpad operation.

Ground Detection

Detects and displays when there is a grounding problem.

Shuts down system until problem is corrected.

60Hz operation is recommended as the industry standard. Intermittent 80Hz operation is an acceptable option.

** Ongoing 80Hz operation may reduce the life of the pump and motor.

ORDERING INFORMATION

Model Number	Motor Type	Hp Range	Input Voltage	Maximum Output Amps	Enclosure Type
PID10	2-WIRE* 1-PHASE	0.5–1 HP	190V – 265V	9.5A	NEMA 3R outdoor
	3-WIRE* 1-PHASE			7.5A	
	3-PHASE			5A	
PID20	2-WIRE* 1-PHASE	0.5–1.5 HP		11A	
	3-WIRE* 1-PHASE	0.5–2 HP		13.5A	
	3-PHASE			8.5A	
PID50	2-WIRE* 1-PHASE	0.5–1.5 HP		11A	
	3-WIRE* 1-PHASE	0.5 – 2 HP		13.5A	
	3-PHASE	0.5 – 5 HP		18A	

PENTEK INTELLIDRIVE™

Keyhole Mount

For fast and easy installation

LCD Information Center

Displays installation, status and fault information in easy-to-understand language instead of codes

Ground Detection

Message Center shows if there is a grounding problem

Multiple Accessory Inputs

Additional inputs allow use of multiple drive accessories at the same time

Best-In-Class EMI/RFI Filter

Superior noise and interference protection, including AM radio signals

Spacious Wiring Area

For fast and easy installation

Programmable Input/Output Relays

Provide application flexibility

Easy-Access Conduit Openings

Align with appropriate terminals for straight-in accessibility. Fits 1/2", 3/4" or 1-1/4"



Electronic Pressure Transducer

More accurate and reliable than mechanical pressure switch, with piezo resistive technology designed to resist water hammer

Temperature- Sensitive Intelligent Fan

Operates when needed for quiet operation

SD Card Slot

For easy software updates when provided by manufacturer

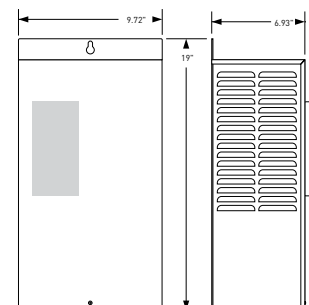
Spring Terminals

For secure connections and easy installation without special tools

Removable Terminal Blocks

For easy wiring of motor and power supply – field replaceable

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

PENTEK INTELLIKIT™

The Pentek Intellidrive Constant Pressure Controller automatically adjusts motor speeds to meet changes in water demand. Instantaneous feedback from an electronic pressure transducer instructs the drive to change the submersible well pump motor speed to maintain constant pressure throughout the system.

- Pre-Specified and Packaged Constant Pressure Systems for Residential Well Water
- Maintain constant water pressure for submersible well pump systems, similar to municipal water systems

KIT CONTAINS:

- Pentek® Submersible Motor
- Myers® Submersible Pump
- Pentek Intellidrive Variable Frequency Drive



- 1 Pentek Submersible Motor**
 - Built with the latest design, manufacturing and testing technology
 - Encapsulated stainless steel design and professional-grade insulation provide longer life in harsh environments
 - 100% factory pressure- and run-tested
- 2 Myers Submersible Pump**
 - Submersible pumps deliver efficient and dependable performance even in rough, aggressive water
 - One of the few manufacturers of both pumps and pressurized water storage tanks, now sold in over 100 countries
- 3 Pentek Intellidrive Variable Frequency Drive**
 - Maintains constant pressure output regardless of fluctuating demand
 - Extends life of pump and motor
 - Utilizes a smaller pressure tank for a space-saving solution

PENTEK INTELLIKIT™

ORDERING INFORMATION

60Hz NEMA 3 Kits

Order Number	Flow Series	HP	Shut-Off Head	At Rated Flow	at Max Runout		Pump	Drive	Motor
			TDH (ft)	TDH (ft)	Flow (GPM)	TDH (ft)			
M5PIK10-60	5	1HP	610	495	8	200	ST10-5PLUS	PID10	P43B0010A3-C
M5PIK15-60	5	1.5HP	865	670	8	295	ST15-5PLUS	PID20	P43B0015A3-C
M8PIK10-60	8	1HP	495	375	11	240	ST10-8PLUS	PID10	P43B0010A3-C
M8PIK15-60	8	1.5HP	650	495	11	315	ST15-8 PLUS	PID20	P43B0015A3-C
M8PIK20-60	8	2HP	795	590	11	390	ST20-8 PLUS	PID20	P43B0020A3-C
M12PIK10-60	12	1HP	390	275	15	205	ST10-12PLUS	PID10	P43B0010A3-C
M12PIK15-60	12	1.5HP	575	385	15	300	ST15-12 PLUS	PID20	P43B0015A3-C
M12PIK20-60	12	2HP	630	450	15	330	ST20-12 PLUS	PID20	P43B0020A3-C
M12PIK30-60	12	3HP	890	610	15	460	ST30-12 PLUS	PID50	P43B0030A3-C
M20PIK10-60	20	1HP	280	175	25	100	ST10-20PLUS	PID10	P43B0010A3-C
M20PIK15-60	20	1.5HP	375	245	25	150	ST15-20 PLUS	PID20	P43B0015A3-C
M20PIK20-60	20	2.0HP	470	298	25	190	ST20-20 PLUS	PID20	P43B0020A3-C
M20PIK30-60	20	3.0HP	600	390	25	220	ST30-20 PLUS	PID50	P43B0030A3-C
M25PIK15-60	25	1.5 HP	270	170	25	105	ST15-25 PLUS	PID20	P43B0015A3-C
M25PIK20-60	25	2.0HP	310	210	35	170	SS20-25	PID20	P43B0020A3-C
M25PIK30-60	25	3.0HP	445	310	35	220	SS30-25	PID50	P43B0030A3-C
M35PIK15-60	35	1.5HP	175	105	50	75	SS15-35	PID20	P43B0015A3-C
M35PIK20-60	35	2.0HP	210	190	50	115	SS20-35	PID20	P43B0020A3-C
M35PIK30-60	35	3.0HP	305	205	50	150	SS30-35	PID50	P43B0030A3-C
M50PIK15-60	50	1.5HP	170	100	65	80	SS15-50	PID20	P43B0015A3-C
M50PIK20-60	50	2.0HP	205	125	65	90	SS20-50	PID20	P43B0020A3-C
M50PIK30-60	50	3.0HP	295	175	65	110	SS30-50	PID50	P43B0030A3-C

80Hz NEMA 3 Kits

M8PIK15-80	8	1.5HP	650	495	11	315	ST7-8 PLUS	PID20	P43B0015A3-C
M8PIK20-80	8	2HP	795	590	11	390	ST10-8 PLUS	PID20	P43B0020A3-C
M8PIK30-80	8	3HP	1090	800	11	530	ST15-8 PLUS	PID50	P43B0030A3-C
M12PIK15-80	12	1.5HP	575	385	15	300	ST7-12 PLUS	PID20	P43B0015A3-C
M12PIK20-80	12	2HP	630	450	15	330	ST10-12 PLUS	PID20	P43B0020A3-C
M12PIK30-80	12	3HP	890	610	15	460	ST15-12 PLUS	PID50	P43B0030A3-C
M20PIK15-80	20	1.5HP	375	245	25	150	ST7-20 PLUS	PID20	P43B0015A3-C
M20PIK20-80	20	2.0HP	470	298	25	190	ST10-20 PLUS	PID20	P43B0020A3-C
M20PIK30-80	20	3.0HP	600	390	25	220	ST15-20 PLUS	PID50	P43B0030A3-C
M25PIK20-80	25	2.0 HP	318	226	25	185	ST10-25 PLUS	PID20	P43B0020A3-C
M25PIK30-80	25	3.0 HP	435	316	25	220	ST15-25 PLUS	PID50	P43B0030A3-C
M35PIK20-80	35	2.0HP	210	190	50	115	SS10-35	PID20	P43B0020A3-C
M35PIK30-80	35	3.0HP	305	205	50	150	SS15-35	PID50	P43B0030A3-C
M50PIK30-80	50	3.0HP	295	175	65	110	SS15-50	PID50	P43B0030A3-C
M80PIK30-80	80	3.0HP	205	100	100	55	SS20-80	PID50	P43B0030A3-C

Note:

80Hz Kits utilize an undersized liquid end running at higher speed to match pump performance of the curve equivalent to the driving motor. Maximum life expectancy of the liquid end is obtained using 60Hz solutions.

PENTEK® Pump Controllers

PPC3 and PPC5

Pentek Pump Controllers provide innovative pumping solutions for maximizing pump functionality, optimizing pump system design and reducing operating energy costs.

Pentek PPCs can be used on all centrifugal motor-driven pumps including close-coupled motor drive, frame mount, submersible and line shaft turbine pumps, in a wide range of applications.

APPLICATIONS

- Turf irrigation, water transfer, light commercial water systems and agricultural.

SPECIFICATIONS

HP Ratings – PPC3: 1 - 30; PPC5: 1/2 - 200

Voltage – PPC3: 230, 460;
PPC5: 230, 460, 575

Frequency – 50/60 Hz

Floating Choke – PPC5 only

Harmonic Signature – PPC3:
Good; PPC5: Best

Number of Relays – PPC3: 1;
PPC5: 3 (ext. to 6 available)

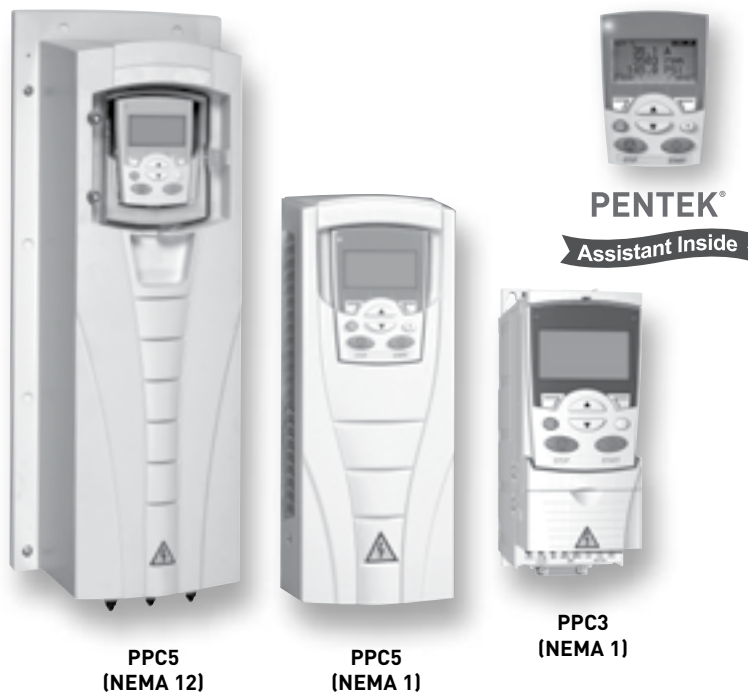
Digital Inputs – PPC3: 5; PPC5: 6

Multiple Pump Capable – PPC5 only

Mod. Bus – PPC5 only

Enclosure Type – PPC3: NEMA 1;
PPC5: NEMA 1, 12

NOTE: The output current (or amps) of the PPC must be greater than or equal to the maximum rated motor current.



FEATURES

PPC Controller:

Variable Speed Control – Meets requirements of process control with constant pressure at variable flow conditions or constant flow at variable pressure conditions.

Reduced Energy Costs – Calculate energy savings online using BEC2 software at www.bec2.net.

Pump Protection – From loss of prime, dead head and blocked suction.

Motor Protection – From ground fault, short circuit, phase loss and imbalance, overload, undervoltage and overvoltage.

System Protection (PPC5 only) – From harmonics, featuring an input choke that exceeds the performance of a fixed 5% impedance line reactor.

Phase Conversion – The PPC5 will convert 1-phase power into 3-phase power, allowing the use of a 3-phase motor; the PPC3 is available in both 1- and 3-phase models.

Pentek Assistant:

Auto-Restart Functionality – Re-starts pump after power loss.

Easily Configured for Constant Flow Applications – By adjusting 2 additional menu parameters.

Multiple System Setpoints or Operating Condition – Includes two independent process control setpoints to allow operation under a second process.

Time Function – Supports 4 daily and weekly Start/Stop/Boost times.

PENTEK® Pump Controllers

ORDERING INFORMATION

PPC3 200-240 Volt – 1-Phase IN, 3-Phase Out

Output Amps	Enclosure Size	Mounting	Model Number NEMA 1
4.7	R1	WALL	PPC3-1-4A7-1
6.7	R1	WALL	PPC3-1-6A7-1
7.5	R2	WALL	PPC3-1-7A5-1
9.8	R2	WALL	PPC3-1-9A8-1

PPC3 200-240 Volt – 3-Phase IN, 3-Phase Out

4.7	R1	WALL	PPC3-2-4A7-1
6.7	R1	WALL	PPC3-2-6A7-1
7.5	R1	WALL	PPC3-2-7A5-1
9.8	R2	WALL	PPC3-2-9A8-1
17.6	R2	WALL	PPC3-2-17A6-1
24.4	R3	WALL	PPC3-2-24A4-1
31.0	R4	WALL	PPC3-2-31A0-1
46.2	R4	WALL	PPC3-2-46A2-1

PPC3 380-480 Volt – 3-Phase IN, 3-Phase Out

2.4	R1	WALL	PPC3-4-2A4-1
3.3	R1	WALL	PPC3-4-3A3-1
4.1	R1	WALL	PPC3-4-4A1-1
5.6	R1	WALL	PPC3-4-5A6-1
8.8	R1	WALL	PPC3-4-8A8-1
12.5	R3	WALL	PPC3-4-12A5-1
15.6	R3	WALL	PPC3-4-15A6-1
23.1	R3	WALL	PPC3-4-23A1-1
31.0	R4	WALL	PPC3-4-31A0-1
38.0	R4	WALL	PPC3-4-38A0-1
44.0	R4	WALL	PPC3-4-44A0-1

ORDERING INFORMATION

PPC5 208-240 Volt – 3-Phase IN, 3-Phase Out*

Output Amps	Enclosure Size	Mounting	Model Number NEMA 1	Model Number NEMA 12
4.6	R1	WALL	PPC5-2-4A6-1	PPC5-2-4A6-12
6.6	R1	WALL	PPC5-2-6A6-1	PPC5-2-6A6-12
7.5	R1	WALL	PPC5-2-7A5-1	PPC5-2-7A5-12
11.8	R1	WALL	PPC5-2-11A-1	PPC5-2-11A-12
16.7	R1	WALL	PPC5-2-16A-1	PPC5-2-16A-12
24.2	R2	WALL	PPC5-2-24A-1	PPC5-2-24A-12
30.8	R2	WALL	PPC5-2-30A-1	PPC5-2-30A-12
46.2	R3	WALL	PPC5-2-46A-1	PPC5-2-46A-12
59.4	R3	WALL	PPC5-2-59A-1	PPC5-2-59A-12
74.8	R4	WALL	PPC5-2-74A-1	PPC5-2-74A-12
88	R4	WALL	PPC5-2-88A-1	PPC5-2-88A-12
114	R4	WALL	PPC5-2-114A-1	PPC5-2-114A-12
143	R6	WALL	PPC5-2-143A-1	—
178	R6	WALL	PPC5-2-178A-1	—
221	R6	WALL	PPC5-2-221A-1	—
248	R6	WALL	PPC5-2-248A-1	—

PPC5 400-480 Volt – 3-Phase IN, 3-Phase Out

3.3	R1	WALL	PPC5-4-3A3-1	PPC5-4-3A3-12
4.1	R1	WALL	PPC5-4-4A1-1	PPC5-4-4A1-12
6.9	R1	WALL	PPC5-4-6A9-1	PPC5-4-6A9-12
8.8	R1	WALL	PPC5-4-8A8-1	PPC5-4-8A8-12
11.9	R1	WALL	PPC5-4-11A-1	PPC5-4-11A-12
15.4	R2	WALL	PPC5-4-15A-1	PPC5-4-15A-12
23	R2	WALL	PPC5-4-23A-1	PPC5-4-23A-12
31	R3	WALL	PPC5-4-31A-1	PPC5-4-31A-12
38	R3	WALL	PPC5-4-38A-1	PPC5-4-38A-12
44	R4	WALL	PPC5-4-44A-1	PPC5-4-44A-12
59	R4	WALL	PPC5-4-59A-1	PPC5-4-59A-12
72	R4	WALL	PPC5-4-72A-1	PPC5-4-72A-12
77	R5	WALL	PPC5-4-77A-1	PPC5-4-77A-12
96	R5	WALL	PPC5-4-96A-1	PPC5-4-96A-12
124	R6	Wall	PPC5-4-124A-1	—
157	R6	Wall	PPC5-4-157A-1	—
180	R6	Wall	PPC5-4-180A-1	—
196	R7	Floor	PPC5-4-196A-1	—
245	R7	Floor	PPC5-4-245A-1	—

PPC5 500-600 Volt – 3-Phase IN, 3-Phase Out

2.7	R1	WALL	PPC5-5-2A7-1	PPC5-5-2A7-12
3.9	R1	WALL	PPC5-5-3A9-1	PPC5-5-3A9-12
6.1	R1	WALL	PPC5-5-6A1-1	PPC5-5-6A1-12
9	R1	WALL	PPC5-5-9A0-1	PPC5-5-9A0-12
11	R1	WALL	PPC5-5-11A-1	PPC5-5-11A-12
17	R2	WALL	PPC5-5-17A-1	PPC5-5-17A-12
22	R2	WALL	PPC5-5-22A-1	PPC5-5-22A-12
27	R3	WALL	PPC5-5-27A-1	PPC5-5-27A-12
32	R3	WALL	PPC5-5-32A-1	PPC5-5-32A-12
41	R4	WALL	PPC5-5-41A-1	PPC5-5-41A-12
52	R4	WALL	PPC5-5-52A-1	PPC5-5-52A-12
62	R4	WALL	PPC5-5-62A-1	PPC5-5-62A-12
77	R5	WALL	PPC5-5-77A-1	PPC5-5-77A-12
99	R6	WALL	PPC5-5-99A-1	PPC5-5-99A-12

NOTE: The output current (or amps) of the PPC must be greater than or equal to the maximum rated motor current.

*Specifications are based on a 3-phase supply voltage, 208 volt or 230 volt. For operation on 1-phase input power, de-rate the drive output current by 50%. Drive output is always 3-phase voltage.

6" Hitachi® Submersible Motor

Hitachi Motors are designed for long service life and years of dependable operation. Innovative design and robust characteristics make this the perfect motor for your pumping applications. Combined with exceptional insulation and a patented epoxy fill resin, these motors exceed NEMA requirements for high water temperature by 18°F (-7.7°C). Designed with internal lubrication and cooling blend of water, antifreeze, and an antirust mixture, Hitachi submersible motors are unique in providing the industry with innovative and robust design features that will extend the serviceable life of your installation.

APPLICATIONS

- High-thrust water well applications.

SPECIFICATIONS

Motor Sleeve – Stainless steel construction

Castings – Baked epoxy-coated gray iron

Fasteners – Stainless steel

Shaft – NEMA splined stainless steel

Flange – NEMA standard type

Rotor – Double epoxy-coated

Thrust Bearings – Kingsbury-type 420 stainless steel

Mechanical Seal – Nitrile rubber (NBR), grease packed

Diaphragm – Nitrile rubber

Sand Cap – Polyurethane

Sand Slinger – Stainless steel

Lead Wire (or Cable) – Double-insulated, heat and water-resistant, 167°F/75°C, 600V

FEATURES

Higher Efficiencies and Lower Current Consumption – For reduced energy costs.

Corrosion-Resistant Design – For long life.

High-Capacity Kingsbury-type Bearings – For dependable performance.

Low-Profile NEMA Design – For ease of installation.

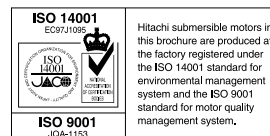
Replaceable Plug-in Motor Lead – For ease of maintenance.

Dual Voltage Type – For application versatility (5 HP – 30 HP 3-Phase Motors).

VFD-Compatible

Hitachi Control Box

- Type 1 NEMA Enclosure
- In-Panel Circuit Breaker
- Magnetic Contactor
- Terminal Blocks for External Controls
- UL Recognized



6" Hitachi® Submersible Motor

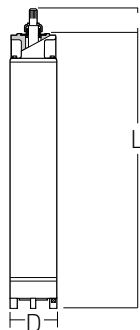
ORDERING INFORMATION															
Hp	Kw	Volts	Ph	Service Factor	Catalog Number	Rated Input Amps	Service Factor Input Amps	Winding Resistance (ohms)	Thrust Capacity	Length (L)		Diameter (D)		Weight	
										In.	mm	In.	mm	Lbs.	Kg
6" DIAMETER 60 HZ															
5	3.7	200	3	1.15	6HIT2-5-8	17.5	19.5		3,500	22.95"	582.9	5.5"	139.7	95	43.0
5	3.7	230	1	1.15	6HIT2-5-1	24	27.5	R-Y, B-Y, R-B, 2.172, 0.512, 2.627	3,500	26.97"	685.0	5.5"	139.7	110	49.9
5	3.7	230	3	1.15	6HIT2-5-2	15	17	0.806	3,500	22.95"	582.9	5.5"	139.7	95	43.0
5	3.7	460	3	1.15	6HIT2-5-4	7.5	8.5	3.05	3,500	22.95"	582.9	5.5"	139.7	95	43.0
7.5	5.5	200	3	1.15	6HIT2-7-8	25.4	28.5		3,500	24.80"	629.9	5.5"	139.7	99	43.0
7.5	5.5	230	1	1.15	6HIT2-7-1	36	41	R-Y, B-Y, R-B, 1.401, 0.400, 1.774	3,500	29.92"	760.0	5.5"	139.7	128	58.1
7.5	5.5	230	3	1.15	6HIT2-7-2	22	26	0.651	3,500	24.80"	629.9	5.5"	139.7	99	43.0
7.5	5.5	460	3	1.15	6HIT2-7-4	11	13	2.43	3,500	24.80"	629.9	5.5"	139.7	99	43.0
10	7.5	200	3	1.15	6HIT2-10-8	33.3	37.2		3,500	26.97"	685.0	5.5"	139.7	110	49.9
10	7.5	230	1	1.15	6HIT2-10-1	50	58	R-Y, B-Y, R-B, 1.052, 0.316, 1.310	3,500	29.92"	760.0	5.5"	139.7	128	58.1
10	7.5	230	3	1.15	6HIT2-10-2	29	33	0.448	3,500	26.97"	685.0	5.5"	139.7	110	49.9
10	7.5	460	3	1.15	6HIT2-10-4	14.5	16.5	1.619	3,500	26.97"	685.0	5.5"	139.7	110	49.9
15	11	200	3	1.15	6HIT2-15-8	47.4	53.5		3,500	29.92"	760.0	5.5"	139.7	128	58.1
15	11	230	1	1.15	6HIT2-15-1	72	85	R-Y, B-Y, R-B, 0.678, 0.230, 0.850	3,500	33.46"	849.9	5.5"	139.7	148	67.1
15	11	230	3	1.15	6HIT2-15-2	42	46	0.312	3,500	29.92"	760.0	5.5"	139.7	128	58.1
15	11	460	3	1.15	6HIT2-15-4	21	23	1.074	3,500	29.92"	760.0	5.5"	139.7	128	58.1
20	15	200	3	1.15	6HIT2-20-8	61.2	69.5		3,500	31.5"	800.1	5.5"	139.7	137	62.1
20	15	230	3	1.15	6HIT2-20-2	54	60	0.258	3,500	31.5"	800.1	5.5"	139.7	137	62.1
20	15	460	3	1.15	6HIT2-20-4	27	30	0.861	3,500	31.5"	800.1	5.5"	139.7	137	62.1
25	18.5	200	3	1.15	6HIT2-25-8	77.3	87.5		3,500	36.22"	920.0	5.5"	139.7	161	73.0
25	18.5	230	3	1.15	6HIT2-25-2	68	76	0.21	3,500	36.22"	920.0	5.5"	139.7	161	73.0
25	18.5	460	3	1.15	6HIT2-25-4	34	38	0.666	3,500	36.22"	920.0	5.5"	139.7	161	73.0
30	22	200	3	1.15	6HIT2-30-8	91.8	104		3,500	38.19"	970.0	5.5"	139.7	176	79.8
30	22	230	3	1.15	6HIT2-30-2	82	94	0.166	3,500	39.19"	970.0	5.5"	139.7	176	79.8
30	22	460	3	1.15	6HIT2-30-4	41	47	0.554	3,500	38.19"	970.0	5.5"	139.7	176	79.8
40	30	460	3	1.15	6HIT2-40-4	56	61	0.358	5,000	40.55"	1,030.0	5.5"	139.7	187	84.8
8" DIAMETER 60 HZ															
50	37	460	3	1.15	86HIT2-50-4*	65	73	0.331	5,000	45.28"	1,150.0	7.52"	191.0	353	160.1
60	45	460	3	1.15	86HIT2-60-4*	80	90	0.278	5,000	48.03"	1,220.0	7.52"	191.0	408	185.1

NOTE: 6" motors are 3450 rpm, 60 Hz, 1.15 SF.

See pages 105-108 for Cable Selection Guides.

*8" motor with 6" pump connection

OUTLINE DIMENSIONS



Shaft Extension
2.87" (72.9 mm)

For lengths, refer to Ordering
Information tables.

Dimensions are for
estimating purposes only.

Single phase motors require a control box.

ORDERING INFORMATION

HP	KW	VOLTS	PH	CATALOG NUMBER
Hitachi Control Box				
5	3.7	230	1	HIT-5CBD
7.5	5.5	230	1	HIT-7.5CBD
10	7.5	230	1	HIT-10CBD
15	11	230	1	HIT-15CBD

6" PENTEK® Submersible Motor

Pentek® motors are designed for long service life and years of dependable operation. Innovative design and robust characteristics make this the perfect motor for your pumping applications.

Combining internal lubrication, a cooling blend of water, glycol, and propylene, and superior materials, Pentek submersible motors provide the industry with innovative and advanced design features that will extend the serviceable life of your installation.

APPLICATIONS

High-thrust water well applications.

SPECIFICATIONS

Motor sleeve, fasteners – 304 stainless steel

Castings – cast iron - epoxy electrodisposition coating

Shaft – NEMA splined, 431 stainless steel

Thrust bearings – Kingsbury-type disc - carbon (resin impregnated) pad - 420 stainless steel

Mechanical seal – silicon carbide

Diaphragm, sand slinger – nitrile rubber

FEATURES

Exceptional insulation / temperature rating – exceeds NEMA requirements for high water temperature by 18°F (10°C).

Higher efficiencies and lower current consumption – for reduced energy costs

High-capacity Kingsbury-type bearings – for dependable performance

Superior materials / corrosion-resistant design – for extended life

Sand slinger protection / silicon-carbide mechanical seal / pressure-equalizing diaphragm – advanced design features for superior performance, reliability, and quality

VFD-compatible



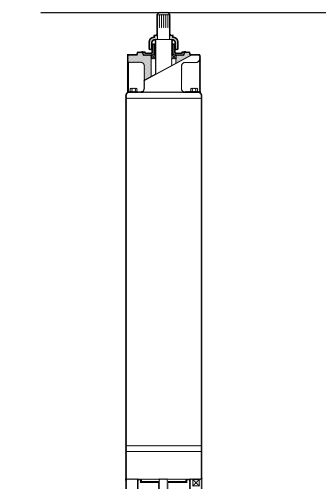
6" PENTEK® Submersible Motor

ORDERING INFORMATION

MOTOR TYPE	PHASE	NOTE	PENTEK MODEL #	HP	KW	HZ	VOLTS	SERVICE FACTOR 1.00			SERVICE FACTOR 1.15			LOCKED ROTOR AMPS	THRUST LOAD	KVA CODE	INSULATION CLASS	WINDING RESISTANCE (OHM)	RPM	LENGTH		WEIGHT		
								AMPS	EFF. %	P.F. %	AMPS	EFF. %	P.F. %							IN	MM	LBS	KG	
6"	Three	Motors are 60 Hz only	6PM2-5-2	5	4	60	230	15.2	75	83	16.4	77	85	102.1	1763	K	F	0.7873	3460	22.7	577	90	41	
			6PM2-7-2	7-1/2	6			21.2	79	85	23.2	79	86	146.4		J		0.5389	3460	24.9	632	102	46	
			6PM2-10-2	10	8			30.8	77	81	33.0	78	83	187.6	3485	J		0.3964	3440	29.2	741.5	116	53	
			6PM2-15-2	15	11			43.2	78	84	47.0	78	86	281.8		J		0.2782	3450	31.8	807.5	121	55	
			6MP2-20-2	20	15			57.4	79	85	63.0	79	87	394.5		J		0.2101	3450	35.1	892.5	147	67	
			6PM2-25-2	25	19			69	81	86	76.0	80	88	480.2		J		0.1605	3450	38.0	964.5	165	75	
			6PM2-30-2	30	22			76.6	84	88	85.0	84	89	614.2		K		0.1445	3500	41.8	1,060.5	190	86	
		Motors are dual rated 50 Hz & 60 Hz	6PM2-5-4	5	4	50	380	8.9	75	87				45.6	1763	K		2.9674	2820	22.7	577	90	41	
						60	460	10.6	75	83	8.2	77	85	51.1		J			3460					
			6PM2-7-4	7-1/2	6	50	380	12.5	79	87				66.8				1.9828	2820	24.9	632	102	46	
						60	460	15.4	79	85	11.6	79	86	73.2					3460					
			6PM2-10-4	10	8	50	380	17.8	78	85				85.6				1.4648	2800	29.2	741.5	116	53	
						60	460	15.4	77	81	16.5	78	83	93.8					3440					
			6PM2-15-4	15	11	50	380	25.6	77	87				127				0.9916	2810	31.8	807.5	131	55	
						60	460	21.6	78	84	23.5	78	86	140.9					3450					
			6PM2-20-4	20	15	50	380	34	78	89				170.2	3485			0.7192	2810	35.1	892.5	147	67	
						60	460	28.5	79	85	31.5	79	87	197.3					3450					
			6MP2-25-4	25	19	50	380	41	79	89				219				0.5640	2820	38.0	964.5	165	75	
						60	460	34.5	81	86	38.0	80	88	240.1					3450					
			6PM2-30-4	30	22	50	380	46	83	90				276.8				0.5036	2880	41.8	1060.5	190	86	
						60	460	38	84	88	42.5	84	89	307.1					3500					
			6PM2-40-4	40	30	50	380	62.5	83	90				393.1	6182			0.3958	2860	47.1	1197	209	95	
						60	460	52.7	84	88	58.0	84	89	439.7					3490					
			6PM2-50-4	50	37	50	380	77.6	83	90				449.8				.3295	2840	49.9	1267	292	132	
						60	460	64.3	85	87	70.8	85	89	500.5					3480					

See pages 109-110 for Cable Selection Guides.

OUTLINE DIMENSIONS



Nominal diameter 6"/152.4 mm
 Effective diameter 5.43"/138 mm
 Shaft extension length 2.87" / 73 mm

For lengths, refer to Ordering Information tables.
 Dimensions are for estimating purposes only.

MPN Series Shallow Well

MPN Series Shallow Well Jet Pumps are corrosion- and abrasion-resistant and are ideal for wells with pumping levels of 25' or less.

Self-priming after the pump housing is initially filled with water.

Capacities to 18 GPM at 30 PSI.
Available in 1/2, 3/4 and 1 HP models.
Supplied with the industry standard 30-50 pressure switch setting.

APPLICATIONS

■ **Water systems...** booster pump, marine, mist sprayers – poultry, fountains and water features

SPECIFICATIONS

Body and Seal Plate – Fiberglass-reinforced thermoplastic

Impeller – Engineered composite

Base – 10-gauge steel

Nozzle, Venturi, Diffuser – Engineered composite



FEATURES

Quality Construction – Fiberglass-reinforced thermoplastic body provides total corrosion resistance and high resistance to abrasion

Built-in Jet – Shallow-well jet has corrosion-resistant engineered composite nozzle and venturi

Impeller – Precision-molded for perfect balance... ultra-smooth for highest performance and efficiency

Precision Molded Diffuser – Engineered composite diffuser allows pump to prime faster, handle more air

Heavy-duty Motor – Stainless steel shaft and dual heavy-duty ball bearings

Heavy-duty Ball Bearings – Shielded, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation

Dual Voltage Capability – 1/2, 3/4 and 1 HP models have dual voltage motors and are shipped at the 230 Volt setting

Professional Quality – Pre-set 30-50 PSI Allows for cut-in pressure adjustments

New Nozzle Clean-out – Easy plug removal and access for ease of service

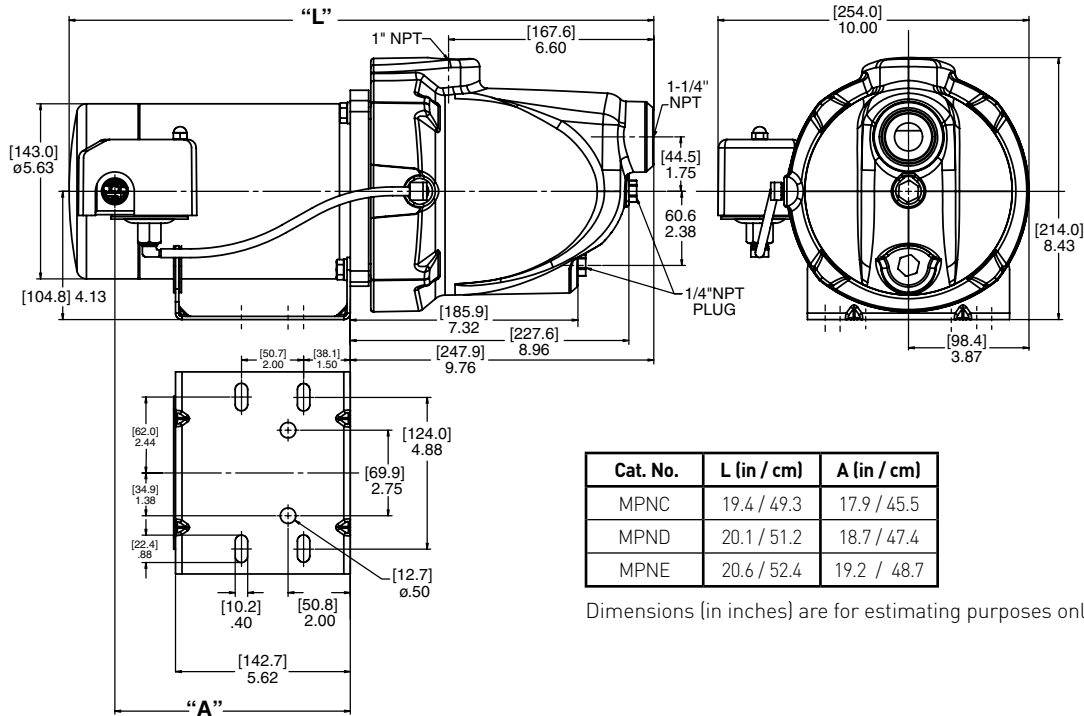
New Drain Plug – Bottom-mounted for easy draining and winterization

ORDERING INFORMATION

Catalog Number	HP	Description	Pipe Tapping Sizes		Motor Voltage	Approx. Wt. Lbs. / Kg.
			Suct.	Disch.		
MPNC	1/2	Base Mounted Pump	1-1/4"	1"	115/230	21 / 9.5
MPND	3/4	Base Mounted Pump	1-1/4"	1"	115/230	24 / 11
MPNE	1	Base Mounted Pump	1-1/4"	1"	115/230	26 / 12

MPN Series Shallow Well

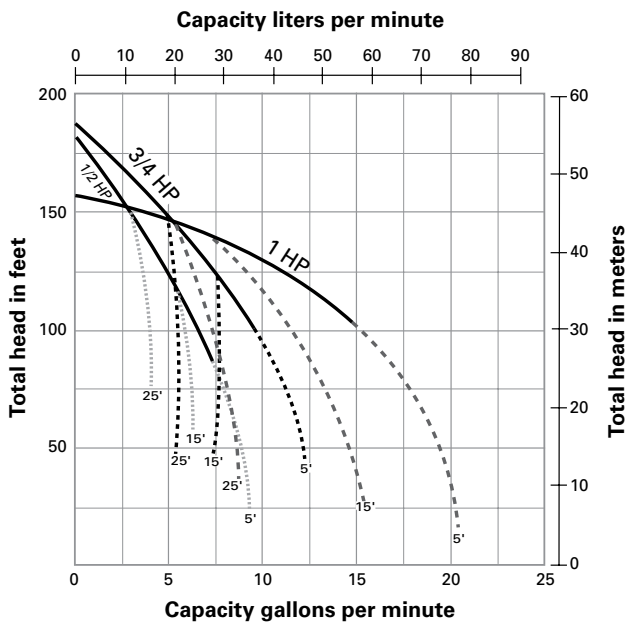
OUTLINE DIMENSIONS



Cat. No.	L (in / cm)	A (in / cm)
MPNC	19.4 / 49.3	17.9 / 45.5
MPND	20.1 / 51.2	18.7 / 47.4
MPNE	20.6 / 52.4	19.2 / 48.7

Dimensions (in inches) are for estimating purposes only.

PUMP PERFORMANCE



Capacity in Gallons / Liters Per Minute

Catalog Number	HP	Total Suction Lift Ft / M	Discharge Pressure PSI / Bar			Shut-Off PSI / Bar
			30 / 2.1	40 / 2.8	50 / 3.5	
MPNC	1/2	5 / 1.5	8.5 / 32.2	7.4 / 28.0	5.2 / 19.7	77 / 5.30
		10 / 3.0	7.1 / 26.9	6.4 / 24.2	5.1 / 19.3	
		15 / 4.6	6.5 / 24.6	6.1 / 23.1	4.5 / 17.0	
		20 / 6.1	5.4 / 20.4	5.1 / 19.3	4.1 / 15.5	
		25 / 7.6	4.1 / 15.5	4.0 / 15.1	3.4 / 12.9	
MPND	3/4	5 / 1.5	12.1 / 45.8	10.7 / 40.5	8.5 / 32.2	78 / 5.37
		10 / 3.0	10.7 / 40.5	10.2 / 38.6	8.4 / 31.8	
		15 / 4.6	9.0 / 34.1	8.5 / 32.2	8.1 / 30.7	
		20 / 6.1	7.6 / 28.8	7.3 / 27.6	7.1 / 26.9	
		25 / 7.6	5.3 / 20.1	5.7 / 21.6	5.1 / 19.3	
MPNE	1	5 / 1.5	18.0 / 68.1	16.8 / 63.6	13.5 / 51.1	67 / 4.62
		10 / 3.0	17.1 / 64.7	16.1 / 60.9	13.4 / 50.7	
		15 / 4.6	14.9 / 56.4	14.4 / 54.5	13.0 / 49.2	
		20 / 6.1	12.6 / 47.7	12.2 / 46.2	12.0 / 45.4	
		25 / 7.6	8.8 / 33.3	8.5 / 32.2	8.1 / 30.7	

Pumps will operate at all depths shown, with pressure switch set at 30-50 PSI. Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Quick Draw Shallow Well

Myers® Quick Draw Jet Pumps prime quickly, deliver strong performance, and feature a moisture and insect proof motor for optimum reliable service. These pumps feature a large capacity top suction case and internal priming plate for quick and reliable priming. The motor provides dependable long life to all critical bearings with electrical connections enclosed and protected from potential moisture and insect problems. The 1/2, 3/4 and 1 HP pumps are quick to deliver water for home, farm, commercial and industrial water systems. For more details, contact your local distributor or the Myers sales office at 888-987-8677.

APPLICATIONS

- **Water systems...** home, farm, commercial and industrial

SPECIFICATIONS

- Improved shallow well design
- Cast iron construction
- Corrosion resistant impellers
- 1/2, 3/4 and 1 HP models
- Maximum pressures to 65 PSI
- Flows to 27 GPM



FEATURES

Quick and Easy Priming:

- Faster priming
- Large capacity, top suction case
- Internal priming plate
- Separate priming plug on case

Long Life Motor:

- 115/230 volt with dual voltage selector switch
- Prevents moisture, insect or dirt damage to critical electrical components
- Provides clean, dry environment to electrical components for maximum motor life
- Permanently lubricated double-ball bearings
- Strong capacitor starting torque
- Non-overloading, continuous duty rating
- Internal thermal overload protection

Strong Pump Performance:

- Maximum pressures to 65 psi
- Flow capabilities to 26 gpm
- 1-1/4" suction, 1" discharge on all models

Heavy Duty Pump Case and Motor Bracket:

- High tensile strength cast iron

Easy Serviceability:

- Convenient back pullout design
- Nozzle clean-out and priming fitting

Mechanical Shaft Seal:

- Precision lapped and polished carbon/ceramic faces, buna elastomers, and stainless steel components

Direct Mount Pressure Switch:

- Pre-set at 30/50 psi setting

Corrosion Resistant Design:

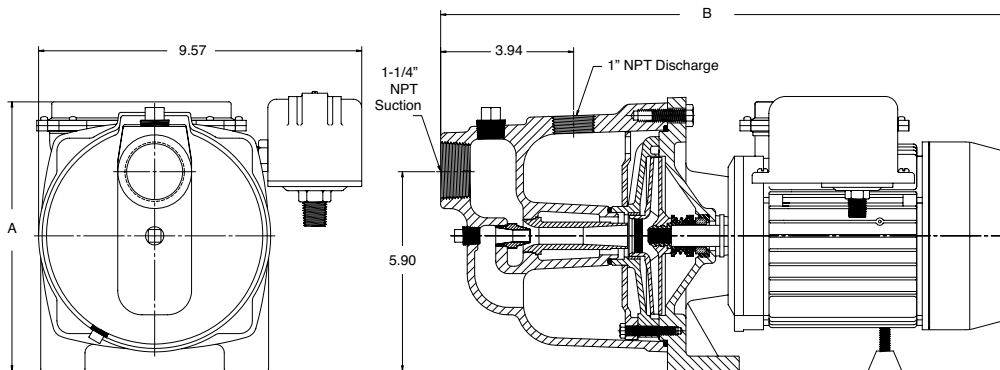
- Engineered reinforced thermoplastic impeller
- Thermoset diffuser with stainless steel wear ring

Quick Draw Shallow Well

ORDERING INFORMATION

Pump Catalog No.	HP	Discharge Pressure (Lbs.)	Capacity in U.S. Gallons						Shut-Off Pressure
			Suction Lift						
			0'	5'	10'	15'	20'	25'	
QD50S	1/2	20	12.5	11.5	10.5	9	7.5	6	65 psi
		30	11	10	9.5	8	6.5	5	
		40	9	8	7.5	6	4.5	3	
		50	6.5	5.5	5	4	3	2	
QD75S	3/4	20	20	18	16.5	15	13	10	65 psi
		30	19	17	15.5	14	12	9	
		40	16	14.5	12	11	9	8	
		50	9.5	8.5	7.5	6.5	4.5	3.5	
QD100S	1	20	26.5	24	22	19	16	13	62 psi
		30	25	23	21	18	15	11	
		40	20	18.5	16	13	10.5	7	
		50	12.5	11	9.5	7	5		

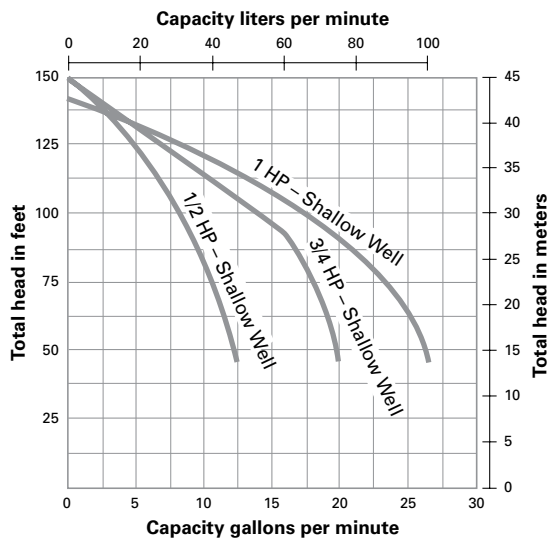
OUTLINE DIMENSIONS



Cat. No.	A	B
QD50S	7.97	16.89
QD75S	8.50	17.86
QD100S	8.50	17.86

Dimensions (in inches) are for estimating purposes only.

PUMP PERFORMANCE



MPL Series Convertible

Durability and corrosion resistance are built into every MPL Series Pump, due to the rugged fiberglass reinforced thermoplastic pump construction. The engineered composite components are lightweight yet extremely resistant to sand and abrasive wear. The non-corrosive design and exceptional strength assure years of trouble-free operation.

APPLICATIONS

■ **Water systems and sprinkling...**
for homes, farms and cottages

SPECIFICATIONS

Pump Body and Seal Plate – Dura-Glas®

Impeller – Engineered composite

Nozzle – Engineered composite

Venturi – Engineered composite

O-Ring – Buna-N

Clamp – Stainless Steel

Shaft – Stainless Steel

Diffuser – Engineered composite with brass wear ring

Shallow Well Jet – Sold separately

Pressure Switch Pre-Set – 30-50 PSI

Suction Ports – Suction-over-drive



FEATURES

Superior Rustproof Construction – Pump body is Dura-Glas® fiberglass reinforced thermoplastic – lightweight, rustproof and exceptionally strong. All components in contact with water are resistant to the corrosive and abrasive forces found in the most aggressive water conditions.

Precision Diffuser – Multi-port, reinforced engineered composite design primes faster and handles more air

Precision Molded Impeller – Precision molded impeller gives perfect balance and ultra-smoothness for highest performance and efficiency

Pressure Regulator and Gauge – Performance-proven, simple, built-in pressure regulator is adjustable for best performance on all deep well installations. Pressure gauge included.

Shaft Seal – Stainless steel heat sink provides maximum cooling of the mechanical shaft seal

Heavy-duty Motor – Dustproof canopy completely encloses electrical components and provides dust, dirt and insect protection. Ventilating air cannot contaminate vital switching components. Permanently lubricated, heavy-duty ball bearings ensure smooth, quiet operation and extended motor life.

Easy Serviceability – MPL pumps are disassembled by removing the stainless steel clamp. Piping does not have to be disturbed. Seal replacement takes only a few minutes. "Control room" motor design makes all components easily accessible.

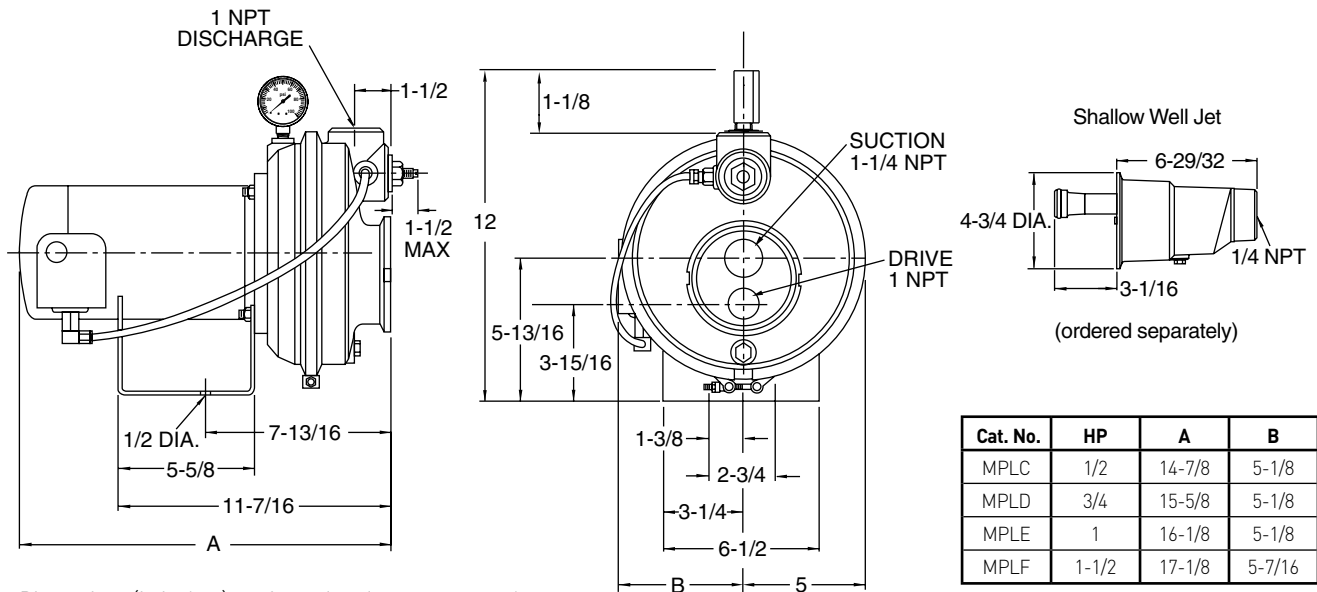
ORDERING INFORMATION

Catalog Number	HP	Pipe Tapping Sizes			Motor Voltage	Approx. Wt. Lbs.
		Suct.	Drive	Disch.		
MPLC	1/2	1-1/4"	1"	1"	115/230	27
MPLD	3/4	1-1/4"	1"	1"	115/230	28
MPL E	1	1-1/4"	1"	1"	115/230	30
MPLF	1-1/2	1-1/4"	1"	1"	115/230	36

A Jet Package should be ordered with every MPL Series pump.

MPL Series Convertible

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

Cat. No.	HP	A	B
MPLC	1/2	14-7/8	5-1/8
MPLD	3/4	15-5/8	5-1/8
MPLF	1	16-1/8	5-1/8
MPLF	1-1/2	17-1/8	5-7/16

PUMP PERFORMANCE – SHALLOW WELL

Capacity in Gallons Per Minute

Catalog Number	HP	Shallow Well Jet No.	Press Switch Setting	Dynamic Suct. Lift Ft.	Discharge Pressure – PSI					Shut-Off PSI
					20	30	40	50	60	
MPLC	1/2	PKG 1-21N	30-50	5'	9.5	9.2	9.0	5.8	3.0	72
				10'	8.2	8.0	7.8	5.2	2.3	70
				15'	7.2	6.8	6.8	4.5	1.8	68
				20'	5.7	5.7	5.7	3.8		66
				25'	4.3	4.3	4.3	3.2		62
MPLD	3/4	PKG 1-22N	30-50	5'	16.2	15.8	15.3	8.7	1.3	62
				10'	14.2	14.0	13.8	7.2		60
				15'	12.2	12.0	11.8	5.3		58
				20'	9.7	9.7	9.2	3.7		55
				25'	7.2	6.8	6.8			52
MPLF	1	PKG 1-23N	30-50	5'	21.3	21.0	20.7	13.2	4.2	62
				10'	18.8	18.7	18.3	11.1	1.7	60
				15'	16.0	15.8	15.7	8.9		58
				20'	12.8	12.7	12.3	5.7		55
				25'	8.5	8.5	8.5			52
MPLF	1-1/2	PKG 1-24N	30-50	5'	26.3	26.2	26.2	21.3	7.7	64
				10'	23.7	23.3	23.2	19.2	3.5	62
				15'	20.3	20.2	20.0	16.3		60
				20'	16.2	16.0	15.8	11.2		57
				25'	11.5	11.3	11.3			54

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

MPL Series Convertible

PUMP PERFORMANCE – DEEP WELL

Capacity in Gallons Per Minute

Catalog Number	HP	Jet No.	Uses Venturi	Uses Nozzle	Pumping Depth in Feet										
					20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'
4" DOUBLE PIPE – 40 PSI															
MPLC	1/2	4SD	J32P-24	J34P-41		4.5	3.5	2.3	1.3						
		10SD	N32P-6B	J34P-44		9.5	7.0	4.5	2.0						
MPLD	3/4	4SD	J32P-24	J34P-41		6.5	5.1	4.0	3.0	1.8	0.8				
MPLF	1	4SD	J32P-24	J34P-41		8.4	7.3	6.2	5.0	4.1	2.9	2.0	1.1		
MPLF	1-1/2	11SD	N32P68B	J34P-44		11.5	9.4	8.0	6.5	5.3	3.8	2.5	1.1		
2" SINGLE PIPE – 40 PSI															
MPLC	1/2	13AP	J32P-26	J34P-44	5.8	3.8	1.0								
		10AP	J32P-24	J34P-44	4.3	3.0	1.6								
		8AP	J32P-18	J34P-42	3.8	3.3	2.6	2.0	1.5						
MPLD	3/4	14AP	J32P-32	J34P-45	9.2	6.7	4.3								
		10AP	J32P-24	J34P-44	6.2	4.8	3.7	2.3	1.2						
		8AP	J32P-18	J34P-42	4.1	3.7	3.1	2.6	2.1	1.6	1.2	0.8			
MPLF	1	15AP	J32P-33	J34P-41	12.3	9.2	5.7								
		9AP	J32P-29	J34P-44	10.6	7.4	4.7	2.2							
		8AP	J32P-18	J34P-42	5.0	4.7	4.2	3.8	3.3	2.7	2.3	1.8	1.3		
MPLF	1-1/2	16AP	J32P-38	J34P-45	15.3	11.8	8.5	5.2							
		9AP	J32P-29	J34P-44		12.3	9.3	6.4	4.0						
		8AP	J32P-18	J34P-42		5.7	5.0	4.6	4.2	3.7	3.3	2.8	2.4	1.8	1.3
3" SINGLE PIPE – 40 PSI															
MPLC	1/2	25CP	J32P-26	J34P-44	5.8	4.0	2.1								
		19CP	J32P-24	J34P-41		4.5	3.5	2.3	1.3						
MPLD	3/4	11CP	J32P-32	J34P-45	9.5	7.0	4.5	2.0							
		19CP	J32P-24	J34P-41		6.5	5.1	4.0	3.0	1.8	0.8				
MPLF	1	26CP	J32P-33	J34P-41	13.0	9.8	6.0								
		17Cp	J32P-29	J34P-44		11.5	8.0	5.2	2.6						
		19CP	J32P-24	J34P-41		8.4	7.3	6.2	5.0	4.1	2.9	2.0	1.1		
MPLF	1-1/2	10CP	J32P-38	J34P-45	16.6	13.3	9.5	6.0							
		15CP	J32P-22	J34P-43		8.6	7.9	6.9	6.2	5.4	4.4	3.2	2.2	1.5	0.9

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

HR Series Convertible

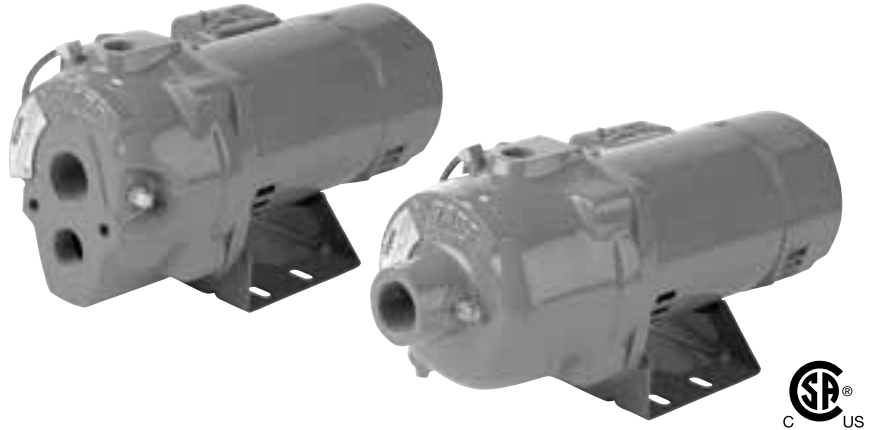
Myers® HR Series jet pumps provide reliable service for many residential homes and farms, as well as commercial and industrial applications.

APPLICATIONS

- Supply water systems and sprinkling systems for homes, farms and industry

SPECIFICATIONS

- Cast iron pump case
- Dual compartment, 115/230 Volt double-ball bearing motor with voltage selector switch
- Priming screen
- Diffuser with stainless steel wear ring
- Square D pressure switch



FEATURES

Quality Construction – Durable machined heavy-duty construction pump body provides long product life

Impellers – Precision molded impellers and diffuser provide smooth, balanced performance and efficiency

Pressure Switch – High quality proven pressure switch with adjustable on/off pressure settings. 20 PSI differential.

Motor – Heavy-duty motor with double ball bearing design and voltage selection device

Shaft Seal – Mechanical shaft seal with ceramic face and stainless steel construction for long seal life

ORDERING INFORMATION – SHALLOW WELL

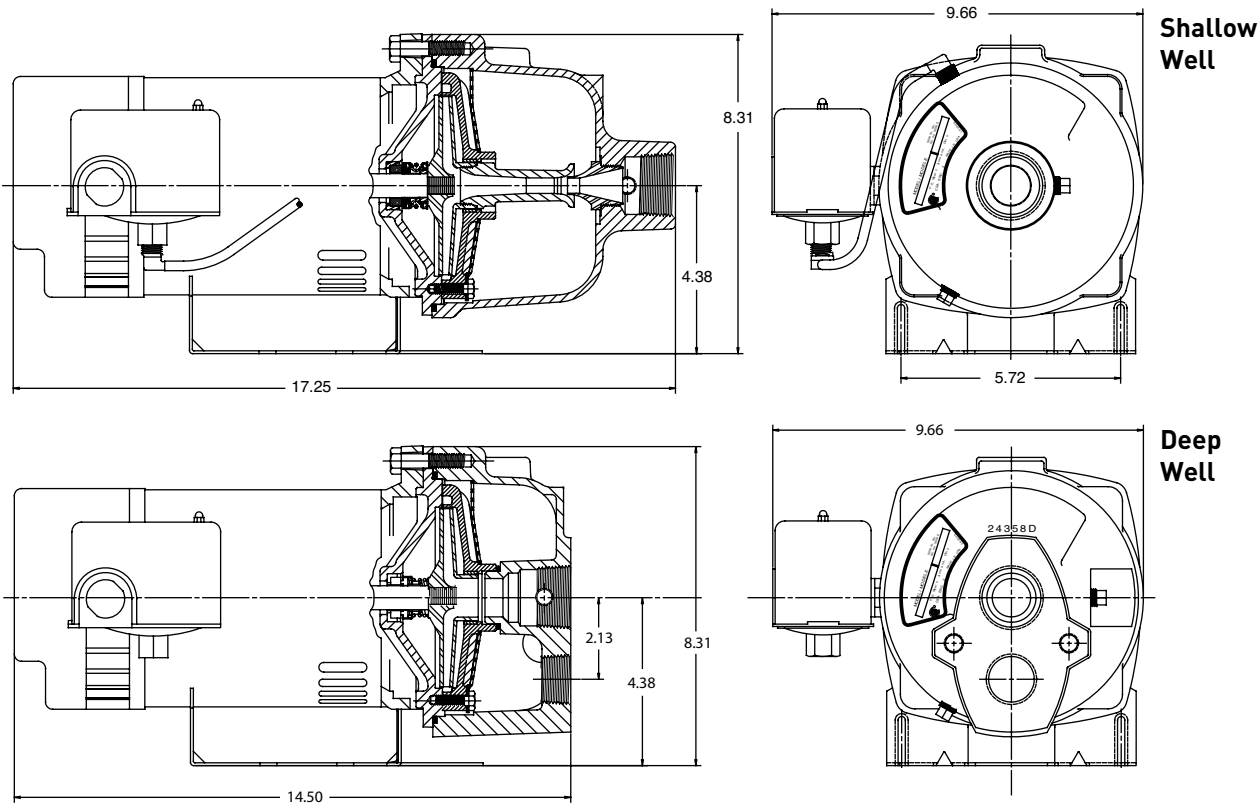
Catalog Number	HP	Discharge Pressure in Lbs.	Capacity in U.S. Gallons per Minute Suction Lift in Feet			Shut-Off PSI
			5	15	20	
HR50S	1/2	20	11.5	9	6	70
		30	11.5	9	6	
		40	10.5	7.5	5	
		50	5.5	3.5	2	

ORDERING INFORMATION – DEEP WELL

Catalog Number	HP	Pressure Switch Setting	Average Regulator Setting	Jet Package Cat. Number			Capacity in U.S. Gallons per Minute Distance to Low Water Level in Feet					
				Cast Iron	Bronze	Packer for 2" Well	30	40	50	60	70	80
HR50D	1 / 2	20/40 30/50	22	DW50-1	DW50	P50	10	8	7	5.5	4.5	3.5
			22	DW50-1	DW50	P50	9.5	7.5	6.5	5	4	3.5

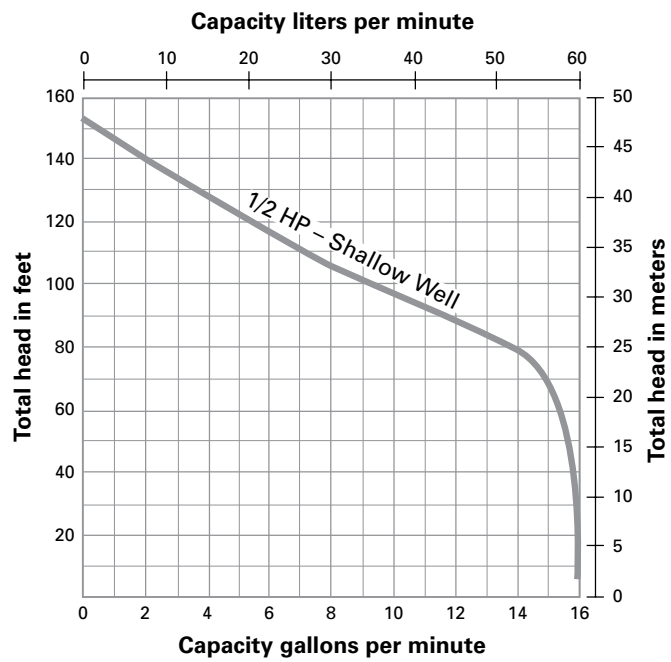
HR Series Convertible

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

PUMP PERFORMANCE



Repair Parts Kit for HR Series	
Kit	Includes
PK50	Shaft seal, impeller, diffuser, gasket, O-ring, venturi, and nozzle

HJ Series Convertible

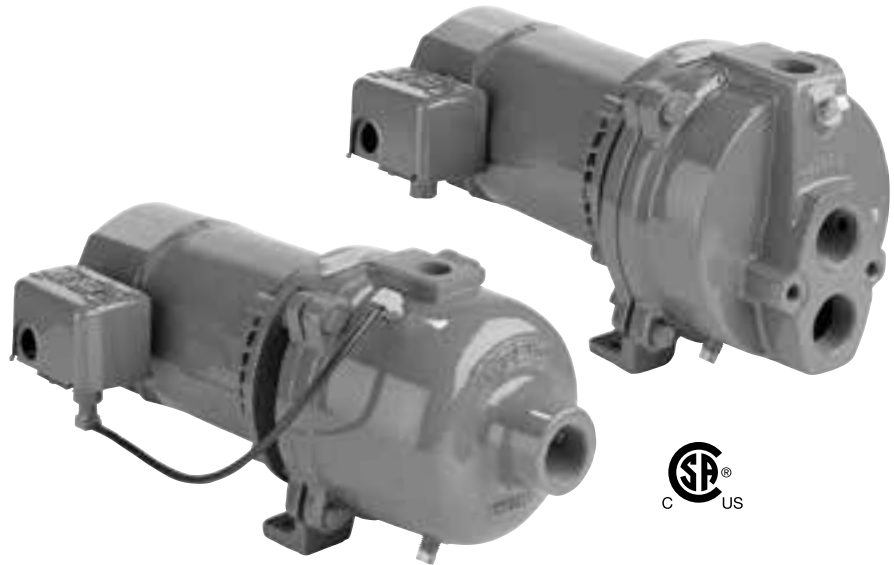
Myers® HJ Series is one of the most popular pump series in the market today. The HJ Series is known for its superior performance and dependability in home, farm, business and industrial applications around the world.

APPLICATIONS

- Supply water systems and sprinkling systems for homes, farms, businesses and industry

SPECIFICATIONS

- Heavy duty cast iron case and motor bracket
- Dual compartment, 115/230 volt double-ball bearing motor with voltage selector switch
- Dual adjustment pressure switch. Includes priming tee on shallow well models and pressure regulator on deep well models
- Priming screen
- Stainless steel impeller wear ring



FEATURES

Quality Construction – Durable machined heavy-duty construction pump body provides long product life

Impellers – Precision molded impellers and diffuser provide smooth, balanced performance and efficiency

Pressure Switch – High quality proven pressure switch with adjustable on/off pressure settings. 20 PSI differential

Motor – Heavy-duty motor with double ball bearing design and voltage selection device

Shaft Seal – Mechanical shaft seal with ceramic face and stainless steel construction for long seal life

HJ Series Convertible

ORDERING INFORMATION – SHALLOW WELL

Catalog Number	HP	Discharge Pressure in Lbs.	Capacity in U.S. Gallons per Minute Suction Lift in Feet			Shut-Off PSI
			5	15	20	
HJ50S*	1/2	20	14.5	11.5	6	65
		30	14.5	11.5	6	
		40	10	8	5	
		50	5.5	3.5	2	
HJ75S*	3/4	20	23.5	17.5	10.5	69
		30	23.5	17.5	10.5	
		40	19.5	16.5	10.5	
		50	12.5	9	5	
HJ100S*	1	20	27.5	21	13	67
		30	27.5	21	13	
		40	25.5	21	13	
		50	19	15.5	12	

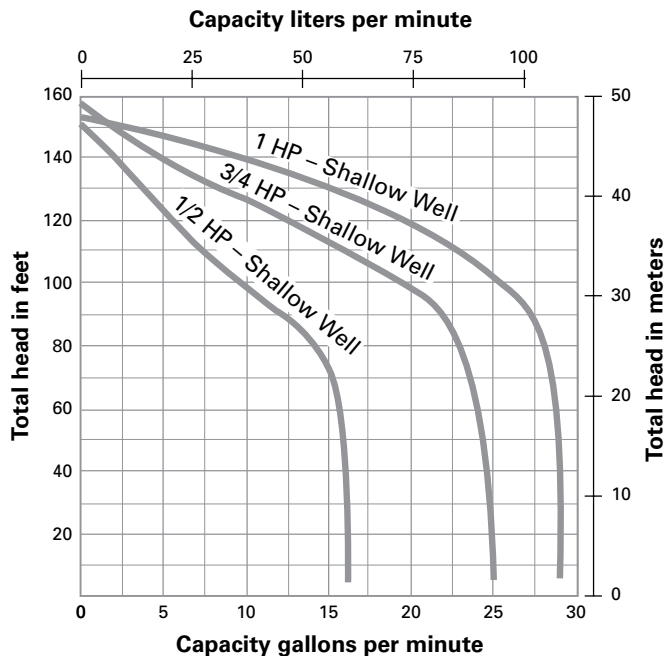
*For brass impeller add "-1" to Catalog Number, i.e.: HJ50D-1

ORDERING INFORMATION – DEEP WELL

Catalog Number	HP	Pressure Switch Setting	Average Regulator Setting	Jet Package Cat. Number			Capacity in U.S. Gallons per Minute Distance to Low Water Level in Feet									
				Cast Iron	Bronze	Packer for 2" Well	30	40	50	60	70	80	90	100	110	120
HJ50D*	1/2	20/40	22	DW50-I	DW50	P50	10.5	9.5	8	6	5	4	2.5			
		30/50	22	DW50-I	DW50	P50	9	8	7	5.5	4.5	3.5				
HJ75D*	3/4	20/40	26	DW75-I	DW75	P75	16.5	13.5	10	8	7	6	4	3	1	
		30/50	26	DW75-I	DW75	P75	15.5	12	10.5	7.5	6	5	3	2		
HJ100D*	1	20/40	34	DW100-I	DW100	P100	18	15.5	12.5	10	9	8	5.5	4.5	2.5	1
		30/50	34	DW100-I	DW100	P100	18	15	12	10	9	7.5	5	4	2	1

*For brass impeller add "-1" to Catalog Number, i.e.: HJ50D-1

PUMP PERFORMANCE



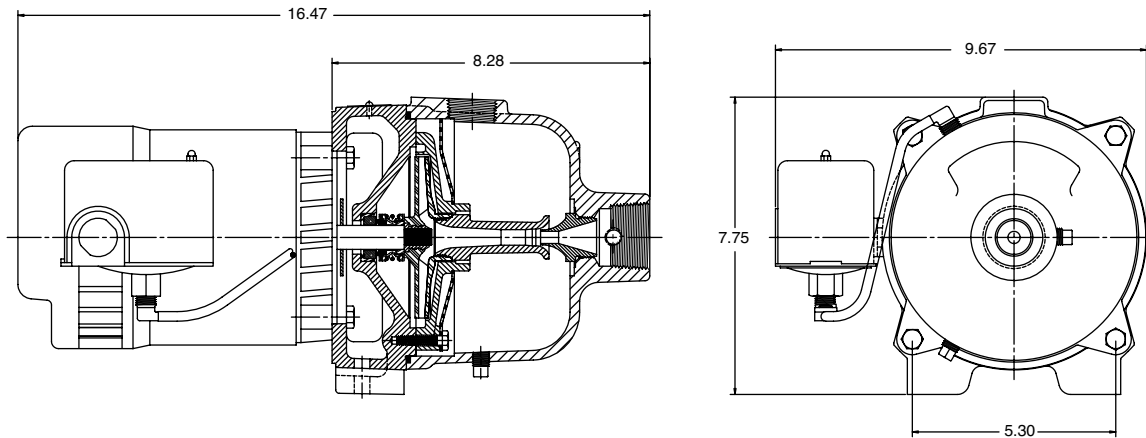
Repair Parts Kits

Model	Kit	Includes
HJ50D	PK50	Shaft seal, impeller, diffuser, gasket, O-ring, venturi, and nozzle
HJ75D	PK75	
HJ100D	PK100	

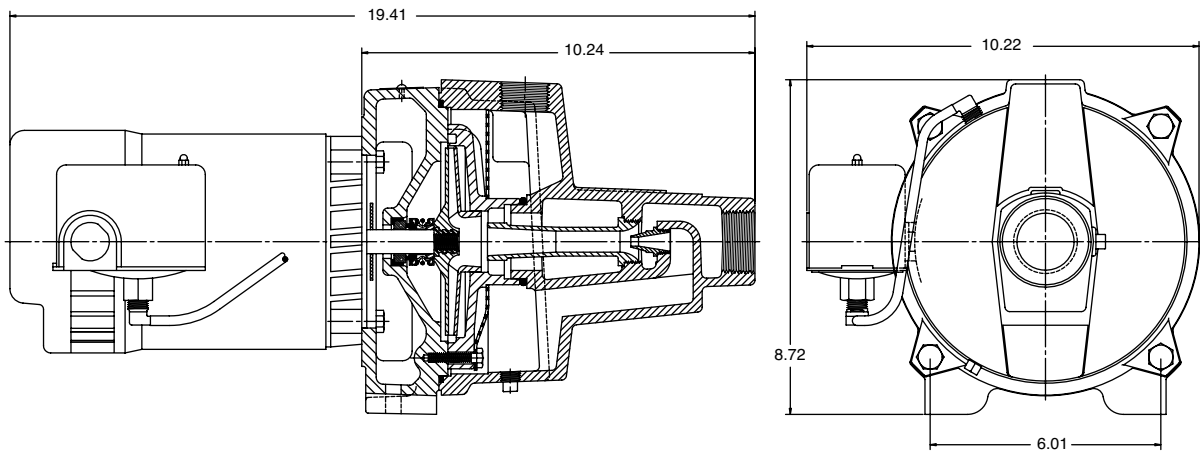
HJ Series Convertible

OUTLINE DIMENSIONS

HJ50 Shallow Well



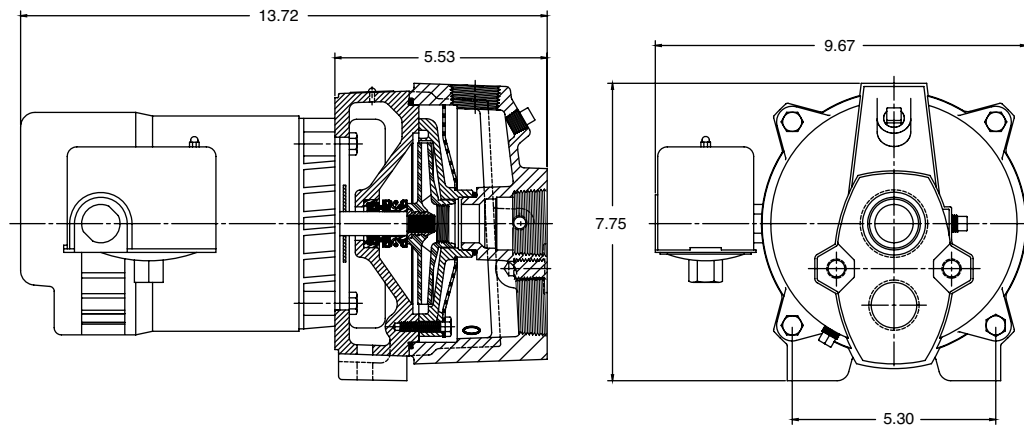
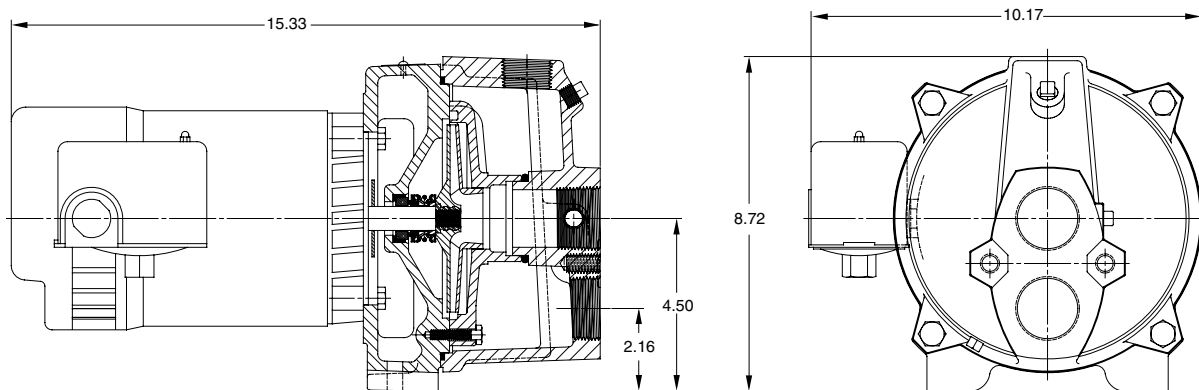
HJ75 and HJ100 Shallow Well



Dimensions (in inches) are for estimating purposes only.

HJ Series Convertible

OUTLINE DIMENSIONS

HJ50 Deep Well**HJ75 and HJ100 Deep Well**

Dimensions (in inches) are for estimating purposes only.

HC and HCM Series

Myers® convertible jet pumps provide all the water and pressure needed for today's family living needs. High quality materials and simplified construction combine for excellent performance in shallow and deep wells. The same twin ejector is used for both types of well service.

APPLICATIONS

■ **Water systems and sprinkling...** for homes, farms and industry

SPECIFICATIONS

Motor – 2-Compartment 115/230 Volt

Rotary Seal – Stainless Steel/
Buna N

Impeller – Brass

Motor Bracket – Cast iron

Discharge Diffuser – Cast iron

Second Stage Diffuser (HCM's) –
Cast iron

Diffuser Housing – Cast iron

Motor Shaft – Stainless Steel

Pressure Switch – Square
D dual adjustment



FEATURES

Heavy Duty Cast Iron Case Construction

Primes Easily – Under maximum shallow well conditions

Brass Impeller – Balanced for smooth operation

Fast Connect Flanges – Eliminates threading and fitting at pipe end

Stream-flo Design – Provides optimum hydraulic performance

Durable Cast Iron Pressure Regulator Included

Pressure Switch and Pressure Gauge Included

ORDERING INFORMATION

Catalog Number	Discharge	Pressure Switch Setting	Packer Type Inner Pipe Size for 2" Well	Twin Type Drop Pipe Size	Foot Valve Size - Twin Type Only	Motor Capacitor Type Built-in Overload Protection	Shipping Wt. Pump Unit Only	Shipping Weight Jet Packages for		
								4" Well		2" Well
								Bronze	Cast Iron	
HC50										
HC50	3/4"	20-40	1"	1-1/4"x 1"	1-1/4"	115/230 volt	54	5	4	4
HCM										
HCM50	3/4"	30-50	1"	1-1/4" x 1"	1-1/4"	115/230 volt	57	5	4	4
HCM100	1"	40-60	1"	1-1/4" x 1-1/4"	1-1/4"	115/230 volt	78	5	4	4
HCM150	1"	40-60	1"	1-1/4" x 1-1/4"	1-1/4"	115/230 volt	85	5	4	4

HC and HCM Series

PUMP PERFORMANCE – HC50 SHALLOW WELL

Catalog Number	HP	Jet Package Cat. No.	5 Foot Suction Lift					15 Foot Suction Lift					20 Foot Suction Lift				
			Discharge Pressure, PSI					Discharge Pressure, PSI					Discharge Pressure, PSI				
			20	30	40	50	60	20	30	40	50	60	20	30	40	50	60
			Capacity in U.S. Gallons per Minute														
HC50	1/2	SW50	13.5	13	11.5	10	6.6	10	10	9.3	8	4.6	5.5	5.5	5.5	5	2

PUMP PERFORMANCE – HC50 DEEP WELL

Catalog Number	HP	Max. Amps 115/230 V	Average Regulator Setting	Jet Package Cat. No.		Vertical Distance in Feet from Pump to Low Water Level									
				Twin Type		Packer	30	40	50	60	70	80	90	100	110
				4" Min. Well		2" Well	Capacity in U.S. Gallons per Minute								
				Cast Iron	Bronze										
HC50	1/2	10.6 / 5.3	22 PSI	DW50-I	DW-50	P50	12	11	9.8	8.3	6.5	4.5	2.3		

PUMP PERFORMANCE – HCM SHALLOW WELL

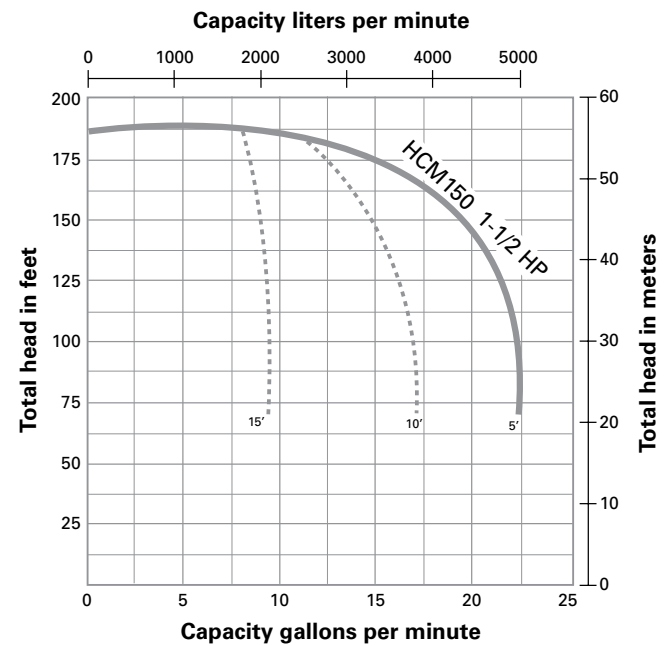
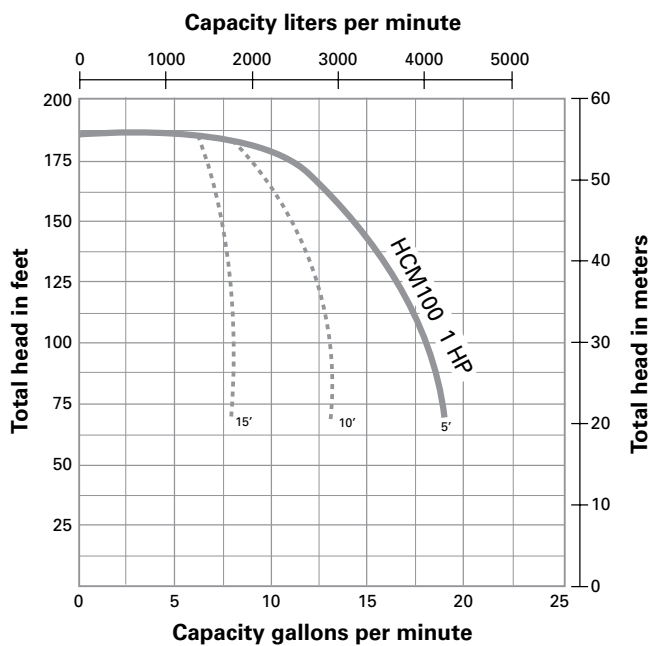
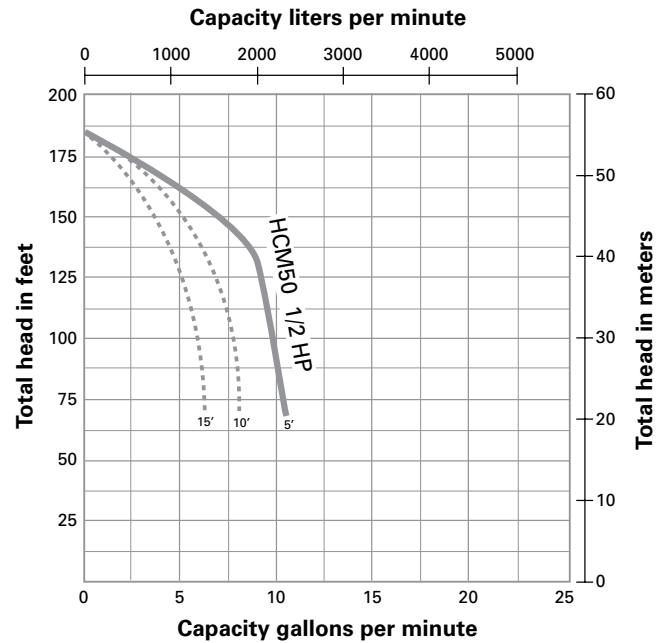
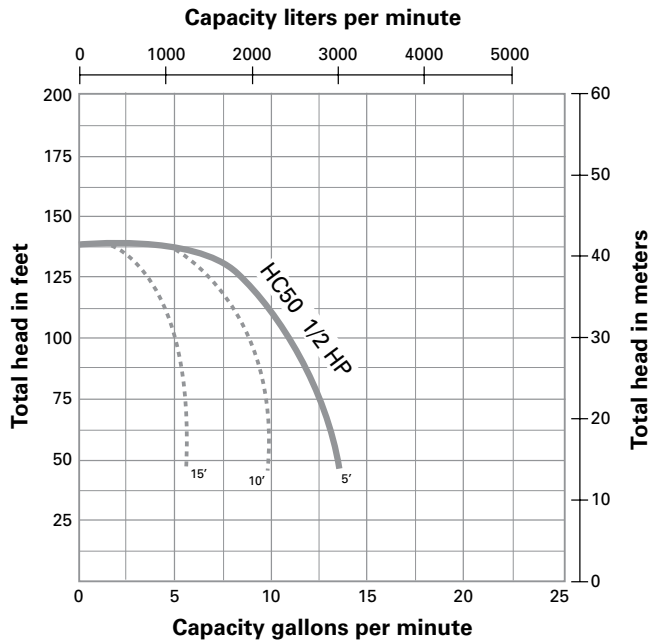
Catalog Number	HP	Jet Package Cat. No.	5 Foot Suction Lift						15 Foot Suction Lift						20 Foot Suction Lift					
			Discharge Pressure, PSI						Discharge Pressure, PSI						Discharge Pressure, PSI					
			30	40	50	60	70	80	30	40	50	60	70	80	30	40	50	60	70	80
			Capacity in U.S. Gallons per Minute																	
HCM50	1/2	SW50	10.5	10	9.5	9	4		8	8	7.5	7	3.5		6.5	6.5	5.5	5.5	2	
HCM100	1	SW100	19	19	16.5	16	13	10	13	13	13	12	10	8	8	8	8	8	8	6.5
HCM150	1-1/2	SW150	22.5	22.5	22.5	20	20	13	17	17	16.5	16	14	11	9.3	9.3	9.3	9.3	8.8	8.3

PUMP PERFORMANCE – HCM DEEP WELL

Catalog Number	HP	Max. Amps 115/230 V	Average Regulator Setting	Jet Package Cat. No.			Vertical Distance in Feet from Pump to Low Water Level												
				Twin Type		Packer	30	40	50	60	70	80	90	100	110	120	130	140	150
				4" Min. Well		2" Well	Capacity in U.S. Gallons per Minute												
				Cast Iron	Bronze														
HCM50	1/2	10.6 / 5.3	22 PSI	DW50-I	DW50	P50	11.5	9.5	8	6.5	6.5	4	3	2	1				
HCM100	1	17.0 / 8.5	34 PSI	DW100-I	DW100	P100	15	13.3	12	10.6	9.3	8	6.6	5.3	4	2.6	2		
HCM150	1-1/2	19.8 / 9.9	40 PSI	DW150-I	DW150	P150	17.5	16	14.5	12.8	11.6	9.5	8	7	6	5	4	3	2

HC and HCM Series

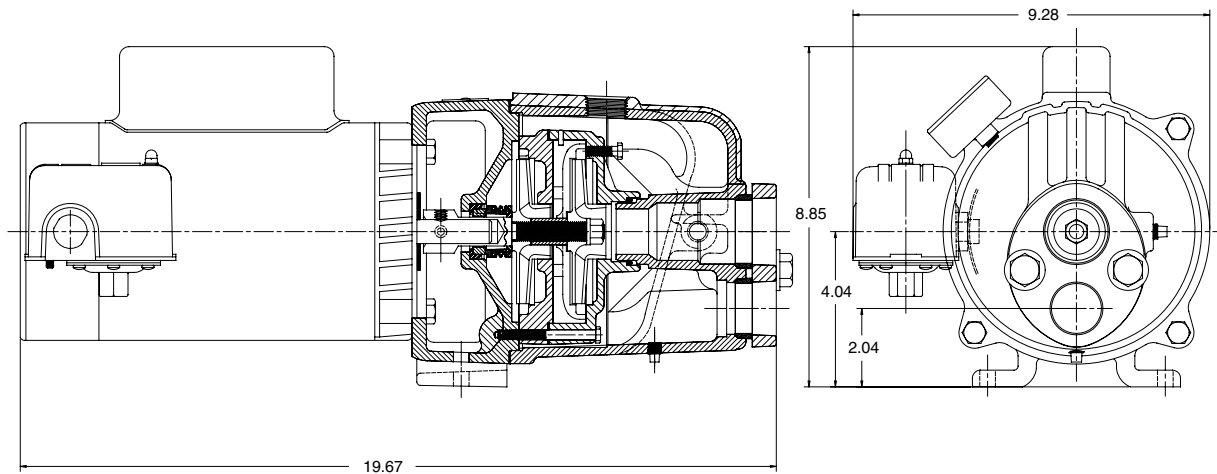
PUMP PERFORMANCE



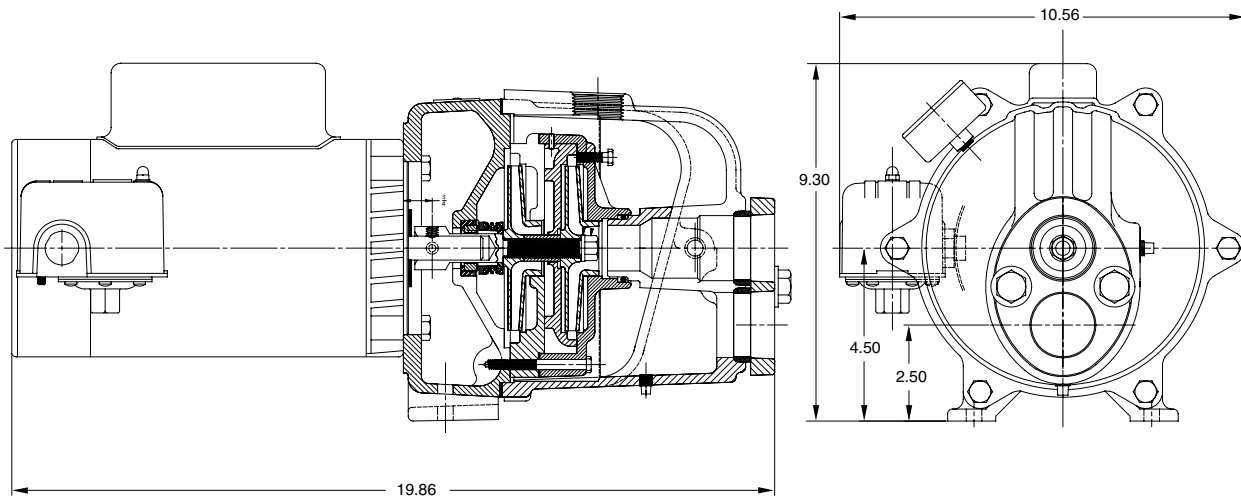
HC and HCM Series

OUTLINE DIMENSIONS

HC50 AND HCM50



HCM100 AND HCM150



Dimensions (in inches) are for estimating purposes only.

PRO-SOURCE® Fibrewound Pressure



Built Tough...for Quality

Every Pro-Source® Composite tank utilizes a durable, FDA approved air cell which is resistant to chlorine and will not promote taste or odor problems associated with iron bacteria that may be present in the water supply.

Built Tough...for Durability

Each tank is wrapped with more than three miles of overlapping, continuous fiberglass strands, sealed with high-grade epoxy resin, then oven-cured. Tough composite construction means longer lasting tanks that will not rust, corrode, dent or scratch.

Built Tough...for Easy Installation and Service

Not only is composite construction tougher, it's also more lightweight...as little as half the weight of steel tanks. Installation is faster, easier and can be handled by one person. Repairable with the tank installed.



Tested and certified by WQA to NSF/ANSI Std. 61 Section 8 and ORD092 for "lead free" compliance.

ORDERING INFORMATION

Catalog Number	Tank Capacity Gal./Liter	Tank Diameter Inch / cm	Tank Height Inch / cm	Discharge Tapping Inch / cm	Water Yield Per Pump Cycle Pressure Switch Setting		
					20-40 Gal./Liter	30-50 Gal./Liter	40-60 Gal./Liter
PSC-14-4	14.5 / 55	16 / 41	28.2 / 71.6	1 / 2.5	4.9 / 18.7	4.4 / 16.5	3.8 / 14.3
PSC-20-6	19.8 / 75	16 / 41	34.1 / 86.6	1 / 2.5	6.7 / 25.5	5.9 / 22.5	5.1 / 19.5
PSC-30-9	29.5 / 112	16 / 41	46.3 / 117.6	1 / 2.5	10.0 / 38.1	8.9 / 33.5	7.7 / 29.1
PSC-40-12	40.3 / 153	16 / 41	59.0 / 149.9	1 / 2.5	13.7 / 52.0	12.1 / 45.8	10.5 / 39.8
PSC-48-14	47.1 / 178	21 / 53	43.6 / 110.7	1.25 / 3.1	16.0 / 60.5	14.1 / 53.5	12.2 / 46.3
PSC-60-20	60 / 227	24 / 61	44.4 / 112.8	1.25 / 3.1	20.4 / 77.2	18.0 / 68.1	15.6 / 59.0
PSC-80-23	79.6 / 301	21 / 53	65.5 / 166.4	1.25 / 3.1	27.1 / 102.3	23.8 / 90.4	20.7 / 78.3
PSC-85-25	86.7 / 328	24 / 61	57.2 / 145.3	1.25 / 3.1	29.5 / 111.5	26.0 / 98.5	22.5 / 85.3
PSC-119-35	119.7 / 453	24 / 61	75.4 / 191.5	1.25 / 3.1	40.7 / 154	35.9 / 135.9	31.1 / 117.8

Maximum Operating Pressure = 125 PSI, PSC - 80-23 has a maximum operations pressure of 100 PSI.
 Maximum Internal Water Temperature: 120°F [49°C]. Maximum Ambient Air Temperature: 120°F [49°C]
 Distance from base to center line of connection is 2-1/4" [5.7 cm]*. *1-3/4" [4.4 cm] for 16" diameter tanks
 Allow 12" [30.5 cm] for service clearance.

Certified to ANSI/NSF 61, Drinking Water System Components

PRO-SOURCE® Fibrewound Pressure

APPLICATIONS

- **Use wherever pressurized tanks are needed in water systems applications.**

SPECIFICATIONS

Inner Liner: One-piece high-density polyethylene

Outer Shell: Fiberglass-wound, oven-cured, and epoxy resin sealed

Exclusive Air Cell: Heavy gauged PEU, meets Water Quality Association standards

Base: Rotatable base with quick connect

Service Connection: Stainless steel, 300 grade

FEATURES

Durable Composite Construction:

A rugged one-piece molded inner liner of premium high-density polyethylene.

- Miles of continuous overlapping fiberglass strands, sealed with oven-cured epoxy, make the outer shell impervious to rust, dents and ultra-violet rays (no paint to scratch and touch up).

Air Cell: Seamless, durable PEU air cell is full replaceable and constructed of heavy-gauge engineered polymer. Meets Water Quality Association standards.

Tank Base: Rigid molded ABS is the sturdiest composite base on the market. Corrosion- and impact-resistant.

Replaceable Air Cell: Generous and accessible air cell opening facilitates easy removal and re-installation of replacement air cell (with the professional contractor in mind).

Stainless Steel Service Connection: 300 grade, the professional's choice

TANK SIZING RULE:

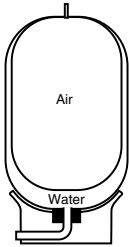
Size tank for one gallon of drawdown for each gallon per minute at pump capacity.

Example: For a 1 HP, 20 GPM unit pumping 20 gallons per minute on a 30-50 pressure switch setting, the properly sized Pro-Source composite tank is a PSC-80-23, which has a 23.8 gallon drawdown.

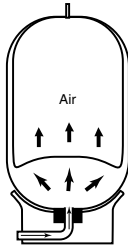
PRO-SOURCE® Fibrewound Pressure

OPERATING CYCLE

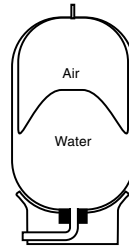
1. Pro-Source®
Composite tank is nearly empty: air cell is fully expanded



2. Water is pumped into tank: air in cell is compressed



3. Pump-up cycle is complete: air is now compressed to "cut off" setting of pressure switch



4. Water is drawn from tank: pressure in air cell provides water as needed, until tank is empty and cycle repeats

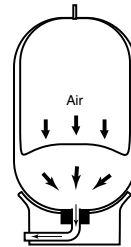


CHART A

Tank Selection Chart

Pump GPM	SYSTEM PRESSURE SWITCH SETTING – PSI					
	20-40		30-50		40-60	
	Runtimes					
	1 Minute	2 Minute	1 Minute	2 Minute	1 Minute	2 Minute
5	PSC-20-6	PSC-30-9	PSC-20-6	PSC-40-12	PSC-20-6	PSC-40-12
7.5	PSC-30-9	PSC-48-14	PSC-30-9	PSC-60-20	PSC-30-9	PSC-60-20
12.5	PSC-40-12	PSC-80-23	PSC-48-14	PSC-85-25	PSC-60-20	PSC-119-35
15	PSC-48-14	PSC-119-35	PSC-60-20	PSC-119-35	PSC-60-20	PSC-119-35
20	PSC-60-20	PSC-119-35	PSC-80-23	PSC-80-23 (2)	PSC-80-23	PSC-80-23 (2)
30	PSC-85-25	PSC-85-25 (2)	PSC-119-35	PSC-119-35 (2)	PSC-119-35	PSC-119-35 (2)
50	PSC-80-23 (2)	PSC-119-35 (3)	PSC-85-25 (2)	PSC-119-35 (3)	PSC-119-35 (2)	PSC-119-35 (3)

NOTE: Drawdown will be affected by operating temperature of the system, accuracy of the pressure switch and gauge, the actual precharge pressure, and rate of fill.

CHART B

Drawdown Volume Multiplier* (Approximate)

Pump Off Pressure PSI	PUMP START PRESSURE – PSI							
	10	20	30	40	50	60	70	80
20	0.26							
30	0.41	0.22						
40		0.37	0.18					
50		0.46	0.31	0.15				
60			0.40	0.27	0.13			
70			0.47	0.35	0.24	0.12		
80				0.42	0.32	0.21	0.11	
90				0.48	0.38	0.29	0.19	0.10
100					0.44	0.35	0.26	0.17

*Utilize this chart if proper selection cannot be made using tank selection chart. Drawdown based on Boyle's Law.

Procedure:

1. Identify drawdown multiplier relating to specific application.

2. Insert multiplier (X) into the following formula:

$$\frac{\text{Pump GPM} \times \text{Min Runtime}}{\text{Multiplier (X)}} = \text{Minimum Tank Capacity Required}$$

3. Refer to "Ordering Information" Table – Max. Capacity Gals.

PRO-SOURCE® Fibrewound Pressure

Contact and sideport contact

Built Tough... for Quality

Professional grade composite construction means longer lasting tanks that will not rust, corrode, dent or scratch.

Built Tough... for Durability

Each tank is wrapped with more than three miles of over-lapping, continuous fiberglass strands, sealed with high grade epoxy resin, then oven cured.

Built Tough... for Easy Installation

Composite construction is lightweight... as little as half the weight of steel tanks. Installation is faster, easier and can be handled by one person.

APPLICATIONS

- Residential Water Systems
- Industrial, Commercial and Agricultural

SPECIFICATIONS

Inner Liner: One-piece high-density polyethylene

Outer Shell: Fiberglass-wound and epoxy resin sealed

Upper and Lower Flanges: Reinforced polypropylene

Base: One-piece ABS

Service Connections: Reinforced polypropylene

FCT Series
Contact Tanks



Tested and certified by WQA to NSF/ANSI Std. 61 Section 8 and ORD092 for "lead free" compliance.

SP Series SidePort
Contact Tanks



FEATURES

Durable Composite Construction:

A rugged one-piece molded inner liner of premium high-density polyethylene. Miles of continuous overlapping fiberglass strands, sealed with oven-cured epoxy, make the outer shell impervious to rust, dents and ultra-violet rays (no paint to scratch and touch up).

Tank Base: Rigid ABS is the sturdiest composite base on the market. Corrosion- and impact-resistant. Base rotates 360° for ease-of-service hook-up.

Composite Service Connection: Threaded for ease of installation.

ORDERING INFORMATION

FCT SERIES CONTACT TANKS

Catalog Number	Maximum Capacity Gal./Liter	Maximum Operating Pressure PSI/kPa/Bar	Diameter Inch/cm	Overall Height Inch/cm	Height Inlet/Outlet to Floor Inch/cm	Top System Connection	Bottom System Connection	Assembly Weight Lbs./kg
FCT-40	40/151	75/500/5.0	16/41	57.25/145	1.5/3.8	1-1/4" Socket	1-1/4" Socket	28/12.7
FCT-80	80/303	75/500/5.0	21/53	62.75/159	2/5.1	1-1/4" Socket	1-1/4" Socket	43/19.5
FCT-120	120/454	75/500/5.0	24/61	73.25/186	2/5.1	1-1/4" Socket	1-1/4" Socket	63/28.6

Maximum external operating temperature 120°F (49°C). Maximum internal operating temperature 100°F (38°C). Minimum operating temperature 40°F (4°C).

Tested and certified by WQA to NSF/ANSI Std. 61 Section 8 and ORD092 for "lead free" compliance. In order to provide the best products possible, specifications are subject to change.

PRO-SOURCE® Fibrewound Pressure

ORDERING INFORMATION

SP Series SidePort Contact Tanks

Catalog Number	Maximum Capacity Gal./Liter	Drawdown 30-50 Setting Gallons/Liters	Diameter Inch/cm	Overall Height Inch/cm	Height Inlet/Outlet to Floor Inch/cm	Height Sideport to Floor Inch/cm	Unit Ship Weight Lbs./kg
SP-7	30/114	7/26	16/41	43.75/111	1.5/3.8	14/35.6	26/11.8
SP-9	40/151	9/34	16/41	56.5/144	1.5/3.8	15.5/39.4	35/15.9
SP-9SQ	47/178	9/34	21/53	41.25/105	2/5.1	16.9/42.9	48/21.8
SP-18	80/303	18/67	21/53	62/157	2/5.1	18.3/46.5	67/30.5
SP-26	120/454	26/98	24/61	72.5/184	2/5.1	20.2/51.3	97/44.1
SP-35	205/776	35/132	36/91	73/185	7/17.8	31.5/80.0	290/131.8
SP-50	264/999	50/189	36/91	82/208	7/17.8	31.5/80.0	300/136.4

Maximum Operating Pressure = 100 PSI

1-1/4" System connections sidewall. Customer-supplied air control valve. Bottom, dual port 1-1/4" PVC.



U238-5
Air Volume Controls
(Jet pump type)



E238-2
Air Volume Control
(Submersible type)

PRO-SOURCE® Plus Premium Steel Pressurized

APPLICATIONS

Residential Water Systems

Industrial, Commercial and Agricultural

SPECIFICATIONS

Shell: Heavy-gauge steel

Base: High-impact composite, ABS

Finish: Electrostatically applied, baked-on polyester paint

Water Cell: One-piece seamless PVC, made from FDA listed material

Flange: 304SS

Service Connection: NPT threads, integral to flange

Air Valve: Nickel-plated brass, threaded for ease of service



Stainless Steel Service Connection – “The Professional’s Choice”

Metal Air Valve Assembly – “Field-Serviceable”

125 PSI Maximum Operating Pressure – Four Sizes: PSP50, PSP62, PSP85 and PSP119

In order to provide the best products possible, specifications are subject to change.

ORDERING INFORMATION

Catalog Number	Maximum Capacity Gal./Liter	Diameter* Inch/cm	Height* Inch/cm	Precharge PSI/kPa	Connection Size Female	Drawdown In Gallons/Liters			Weight Lbs./kg	Maximum Operating PSI
						20-40	30-50	40-60		
VERTICAL MODELS										
PSP19S-T02	19/72	20/51	21/53.3	40/276	1" NPT	6.9/26.1	5.8/21.9	5.0/18.9	49/22.2	100
PSP19T-T02	19/72	16/40.6	27.5/70	40/276	1" NPT	6.9/26.1	5.8/21.9	5.0/18.9	44/20.0	100
PSP32-T03	32/121	16/40.6	43/109	40/276	1" NPT	11.6/43.9	9.8/37.1	8.5/32.2	60/27.2	100
PSP35-T05	35/133	20/51	33/84	40/276	1" NPT	12.7/48.1	10.7/40.5	9.3/35.2	70/31.8	100
PSP50-T50	50/189	24/61	32.5/83	40/276	1-1/4" NPT	18.3/69.3	15.5/58.7	13.4/50.7	88/39.9	125
PSP62-T51	62/235	24/61	39.5/100	40/276	1-1/4" NPT	21.4/81.0	18.3/69.3	16.0/60.6	116/52.6	125
PSP85-T52	85/322	24/61	51/130	40/276	1-1/4" NPT	30/113.6	26/98.4	22.0/83.3	128/58.1	125
PSP119-TR50	119/450	24/61	68/173	40/276	1-1/4" NPT	41.3/156.3	35.4/134.0	31.0/117.3	140/63.5	125

*Subject to change without notice.

Maximum Liquid Temperature: 120°F (49°C)

Maximum External (Ambient) Temperature: 125°F (52°C)

PRO-SOURCE® Plus Premium Steel Pressurized

FEATURES

Service Connection: 304 stainless steel.

Air Valve: Nickel-plated brass.

Maximum Operating Pressure:

100 PSI on 16" and 20" tanks;
125 PSI on 24" tanks. (models; PSP50,
PSP62, PSP85, PSP119)

Heavy-Gauge Metal Construction:

■ Sturdy "welded wrapper and head design." Built to last.

Polyester Paint Finish: Electrostatically powder-painted, then oven-baked for a smooth high-gloss, appliance-quality finish. Resists corrosion.

Elongated, Seamless Water Cell:

■ Controlled 2-dimensional cell expansion.

■ Rugged, seamless "water cell" prevents the most common cause of tank failure – "waterlogging."

■ Water never touches the steel tank material.

■ Translucent bag material facilitates manufacturing quality control inspection.

NEW Stainless Service Connection:

■ Corrosion-resistant.

■ Stainless steel – the professional's choice.

Integral Standpipe: Promotes complete flushing of the water entering/exiting the tank.

Nitrogen-Rich Precharge: Decreases air permeation three to four times over straight air precharge.

40 PSI Precharge: Ready for use with 40/60 pressure range systems. Enables installer to reduce pressure depending on pressure switch setting.

Sturdy Base: Tested-tough composite construction.

Tank Sizing Rule:

Size tank for one gallon of drawdown for each gallon per minute at pump capacity.

Example: For a 1 HP, 20 GPM unit pumping 20 gallons per minute on a 30-50 pressure switch setting, the properly sized Pro-Source® PLUS tank is a PSP85-T52 which has a 26 gallon drawdown.

CHART A

Tank Selection Chart

Pump GPM	SYSTEM PRESSURE SWITCH SETTING – PSI					
	20-40		30-50		40-60	
	Runtimes					
	1 Minute	2 Minute	1 Minute	2 Minute	1 Minute	2 Minute
5	PSP19T	PSP32	PSP19T	PSP35	PSP19T	PSP50
7.5	PSP32	PSP50	PSP32	PSP50	PSP32	PSP62
10	PSP32	PSP62	PSP35	PSP85	PSP50	PSP85
12.5	PSP35	PSP85	PSP50	PSP85	PSP50	PSP119
15	PSP50	PSP85	PSP50	PSP119	PSP62	PSP119
20	PSP62	PSP119	PSP85	PSP85 (2)	PSP85	PSP85 (2)
30	PSP85	PSP85 (2)	PSP119	PSP119 (2)	PSP119	PSP119 (2)
50	PSP62 + PSP85	PSP119 (2) + PSP62	PSP85 (2)	PSP119 (3)	PSP119 (2)	PSP119 (4)

Note: Drawdown will be affected by operating temperature of the system, accuracy of the pressure switch and gauge, the actual precharge pressure, and rate of fill. Pumps installed with a Pro-Source® PLUS tank require a relief valve equal to the tank's maximum operating pressure. Relief valve must be capable of relieving entire flow of pump at relief pressure.

CHART B

Drawdown Volume Multiplier* (Approx.)

Pump Off Pressure PSI	PUMP START PRESSURE – PSI							
	10	20	30	40	50	60	70	80
20	0.26							
30	0.41	0.22						
40		0.37	0.18					
50		0.46	0.31	0.15				
60			0.40	0.27	0.13			
70			0.47	0.35	0.24	0.12		
80				0.42	0.32	0.21	0.11	
90				0.48	0.38	0.29	0.19	0.10
100					0.44	0.35	0.26	0.17

*Utilize this chart if proper selection cannot be made using Chart A. Drawdown based on Boyle's Law.

PROCEDURE: 1. Identify drawdown multiplier relating to specific application.
2. Insert multiplier (X) into the following formula:

$$\frac{\text{Pump GPM} \times \text{Min Runtime}}{\text{Multiplier (X)}} = \text{Minimum Tank Capacity Required}$$

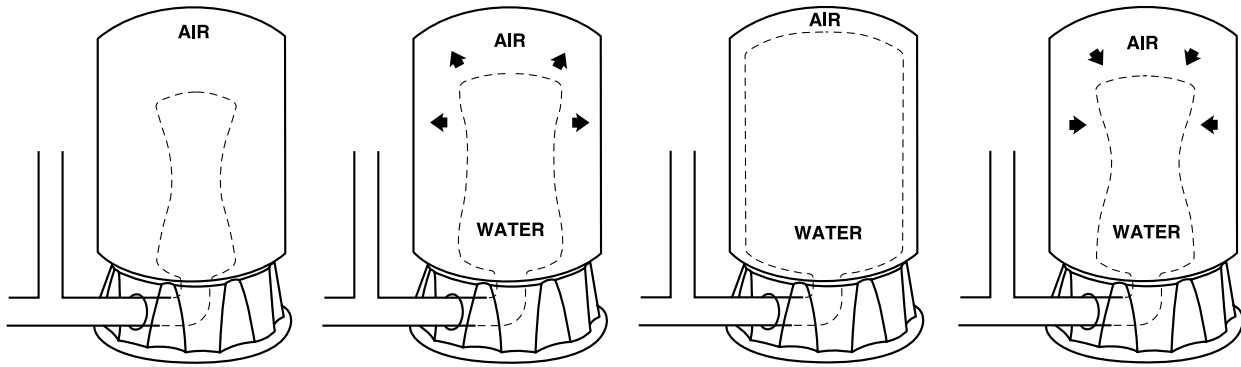
EXAMPLE: An example of a 20 GPM pump with a minimum runtime of 1 minute, installed on a 50-70 PSIG system pressure range:

$$\frac{20 \text{ GPM} \times 1 \text{ minute}}{.24 \text{ (factor) from Chart B}} = 83.3 \text{ minimum U.S. gal. tank capacity required}$$

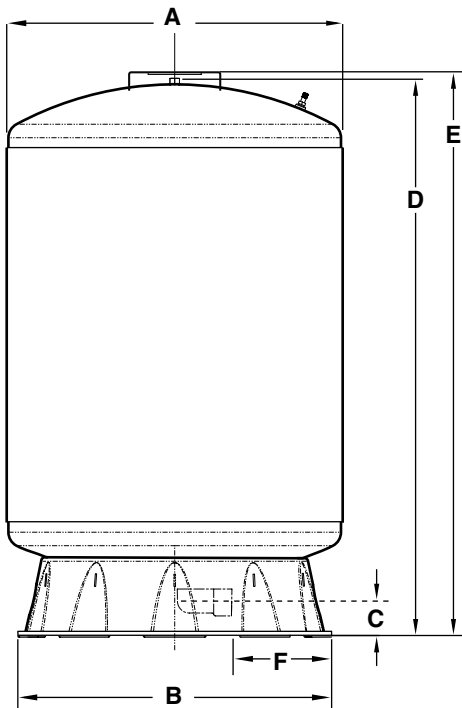
Referring to "Ordering Information" chart, the model PSP85-T52 has the closest U.S. gallon capacity that is greater or equal to the minimum volume requirement of 83.3 U.S. gallons.

PRO-SOURCE® Plus Premium Steel Pressurized

OPERATING CYCLE



OUTLINE DIMENSIONS



Catalog Number	Discharge NPT	A	B	C	D	E	F
PSP19T-T02	1"	16.1	15.5	2.0	27.8	–	3.9
PSP19S-T02	1"	20.1	15.5	2.0	21.5	–	2.3
PSP32-T02	1"	16.1	15.5	2.0	43.0	–	2.3
PSP35-T05	1"	20.1	15.5	2.0	33.0	–	2.3
PSP50-T50	1-1/4"	24.1	22.7	2.5	33.2	–	5.5
PSP62-T51	1-1/4"	24.1	22.7	2.5	40.1	–	5.5
PSP85-T52	1-1/4"	24.1	22.7	2.5	51.5	–	5.5
PSP119-TR50	1-1/4"	24.1	22.7	2.5	68.6	–	5.5

Dimensions (in inches) are for estimating purposes only.

PRO-SOURCE® Plus Steel Pressurized

APPLICATIONS

Use wherever pressurized tanks are needed in water systems applications.

SPECIFICATIONS

Shell: Heavy-gauge steel

Base: High-impact composite, ABS

Finish: Electrostatically applied, baked-on polyester paint

Water Cell: One-piece seamless PVC, made from FDA listed material

Flange: Reinforced polypropylene

Service Connection: Reinforced polypropylene integral to flange

Air Valve: Rubber stem/brass body Schrader valve assembly

UV Valve Cover:
High-density polyethylene



ORDERING INFORMATION

Catalog Number	Maximum Capacity Gal/Liter	Diameter* Inch/cm	Height Inch/cm	Length Inch/cm	Precharge PSI/kPa	Connection Size Female	Drawdown in Gallons/Liter			Weight lbs/kg
							20-40	30-50	40-60	
VERTICAL MODELS										
PS6-S02	6.0/22.7	12/30.5	16.1/40.9	–	40/276	3/4" NPT	2.2/8.3	1.8/6.8	1.6/6.0	18/8.2
PS19S-T02	19/72	20/40.6	21/53.3	–	40/276	1" NPT	6.9/26.1	5.8/21.9	5.0/18.9	45/20.4
PS19T-T02	19/72	16/40.6	27.5/70	–	40/276	1" NPT	6.9/26.1	5.8/21.9	5.0/18.9	40/18.1
PS32-T03	32/122	20/51	43/109	–	40/276	1" NPT	11.6/43.9	9.8/37.1	8.5/32.2	56/25.4
PS35-T05	35/133	16/40.6	33/84	–	40/276	1" NPT	12.7/48.1	10.7/40.5	9.3/35.2	66/29.9
PS50-T50	50/189	20/51	32.5/83	–	40/276	1-1/4" NPT	18.3/69.3	15.5/58.7	13.4/50.7	84/38.1
PS62-T51	62/235	24/61	39.5/100	–	40/276	1-1/4" NPT	21.4/81.0	18.3/69.3	16.0/60.6	112/50.8
PS85-T52	85/322	24/61	51/130	–	40/276	1-1/4" NPT	30/113.6	26/98.4	22/83.3	124/56.2
PS119-TR50	119/450	24/61	68/173	–	40/276	1-1/4" NPT	41.3/156.3	35.4/134.0	31.0/117.3	140/63.5
IN-LINE VERTICAL MODELS										
PS2-S01	2.0/7.6	8.4/21.3	12.6/32.0	–	20/137.8	3/4" NPTM	0.7/2.65	0.6 /2.2	NA	12.6/5.7
PS5-S02	5.0/18.9	10.6/26.9	16.2/41.1	–	30/206.8	3/4" NPTM	2.2/8.3	1.8/6.8	1.8/6.8	16.2/7.3
HORIZONTAL MODELS										
PS6H-S05	6.0/22.7	12/30.5	13.8/35.0	16/40.6	40/276	3/4" NPT	2.2/8.3	1.8/6.8	1.6/6.0	22/10
PS19H-S00	19/72	16/40.6	17.5/44.5	28/71.1	40/276	1" NPT	6.9/26.1	5.8/21.9	5.0/18.9	40/18

*Subject to change without notice.

Maximum Operating Pressure = 100 PSI

Maximum Liquid Temperature: 120°F (49°C) Maximum External (Ambient) Temperature: 125°F (52°C)

PRO-SOURCE® Plus Steel Pressurized

FEATURES

Heavy-Gauge Metal Construction:

Sturdy “welded wrapper and head design.”
Built to last.

Polyester Paint Finish: Electrostatically powder-painted, then oven-baked for a smooth high-gloss, appliance-quality finish. Resists corrosion.

Elongated, Seamless Water Cell:

- Controlled 2-dimensional cell expansion.
- Rugged, seamless “water cell” prevents the most common cause of tank failure – “waterlogging.”
- Water never touches the steel tank material.
- Translucent bag material facilitates manufacturing quality control inspection.

Composite Sealing Flange:

- Corrosion-resistant.
- Integral O-ring groove better traps the water cell’s sealing ring.
- Reinforcing ribs strengthen and maintain a flat smooth sealing surface.

Integral Standpipe: Keeps the water cell standing erect, promoting complete flushing of the water entering/exiting the tank.

Nitrogen-Rich Precharge: Decreases air permeation three to four times over straight air precharge.

40 PSI Precharge: Ready for use with 40/60 pressure range systems. Enables installer to reduce pressure depending on pressure switch setting.

Sturdy Base: Tested-tough composite construction.

Tank Sizing Rule

Size tank for one gallon of drawdown for each gallon per minute at pump capacity.

Example: For a 1 HP, 20 GPM unit pumping 20 gallons per minute on a 30-50 pressure switch setting, the properly sized Pro-Source® tank is a PS85-T52 which has a 26 gallon drawdown.

CHART A

Tank Selection Chart

Pump GPM	SYSTEM PRESSURE SWITCH SETTING – PSI					
	20-40		30-50		40-60	
	Runtimes					
	1 Minute	2 Minute	1 Minute	2 Minute	1 Minute	2 Minute
5	PS19T	PS32	PS19T	PS35	PS19T	PS50
7.5	PS32	PS50	PS32	PS50	PS32	PS62
10	PS32	PS62	PS35	PS85	PS50	PS85
12.5	PS35	PS85	PS50	PS85	PS50	PS119
15	PS50	PS85	PS50	PS119	PS62	PS119
20	PS62	PS119	PS85	PS85 [2]	PS85	PS85 [2]
30	PS85	PS85 [2]	PS119	PS119 + PS85	PS119	PS119 [2]
30	-	-	PS119	PS119 + PS85	PS119	PS119 [2]
50	PS62 + PS85	PS85 [3]	PS85 [2]	PS119 [3]	PS85 + PS119	PS119 [3] + PS50

Note: Drawdown will be affected by operating temperature of the system, accuracy of the pressure switch and gauge, the actual precharge pressure, and rate of fill. Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

CHART B

Drawdown Volume Multiplier* (Approx.)

Pump Off Pressure PSI	PUMP START PRESSURE – PSI							
	10	20	30	40	50	60	70	80
20	0.26							
30	0.41	0.22						
40		0.37	0.18					
50		0.46	0.31	0.15				
60			0.40	0.27	0.13			
70			0.47	0.35	0.24	0.12		
80				0.42	0.32	0.21	0.11	
90				0.48	0.38	0.29	0.19	0.10
100					0.44	0.35	0.26	0.17

*Utilize this chart if proper selection cannot be made using Chart A. Drawdown based on Boyle’s Law.

PROCEDURE: 1. Identify drawdown multiplier relating to specific application.
2. Insert multiplier (X) into the following formula:

$$\frac{\text{Pump GPM} \times \text{Min Runtime}}{\text{Multiplier (X)}} = \text{Minimum Tank Capacity Required}$$

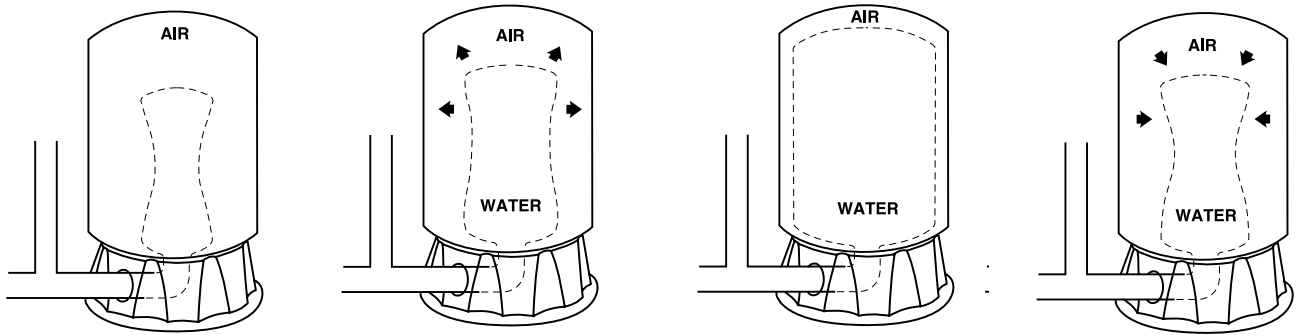
EXAMPLE: An example of a 20 GPM pump with a minimum runtime of 1 minute, installed on a 50-70 PSIG system pressure range:

$$\frac{20 \text{ GPM} \times 1 \text{ minute}}{.24 \text{ [factor] from Chart B}} = \frac{83.3 \text{ minimum U.S. gal.}}{\text{tank capacity required}}$$

Referring to “Ordering Information” chart, the model PS85-T52 has the closest U.S. gallon capacity that is greater or equal to the minimum volume requirement of 83.3 U.S. gallons.

PRO-SOURCE® Plus Steel Pressurized

OPERATING CYCLE



1. Separator is completely empty:

A new cycle is ready to begin. Simple, positive action produces maximum drawdown on every cycle.

2. Water begins to enter the tank:

Air is compressed around the water separator as it fills with water.

3. Pump-up cycle completed:

Air is now compressed to the cut-off setting of pressure switch.

4. Water is being drawn from the tank:

Compressed air in the tank forces water out of the separator.

ACCESSORIES



PKG 198
Universal Jet Pump
to Tank Bracket



**PKG 111,
PKG 112 or
PKG 207**
Jet Pump-to-Tank
Mounting Pkg.

ORDERING INFORMATION

PKG 198 - Jet Pump Mounting Bracket

PKG 111 - Pump-to-Tank Fitting Package for composite jet pumps

PKG 112 - Pump-to-Tank Fitting Package for cast iron series jet pumps with composite fittings

PKG 207 - Pump-to-Tank Fitting Package for cast iron series jet pumps with galvanized fittings

MULTIPLE TANK INSTALLATIONS

Pro-Source® tanks can be connected together to increase the supply of usable water (drawdown). Two tanks of the same size will double the supply and three tanks will triple the supply. See Figures No. 1 and 2 for the typical installations of this kind.

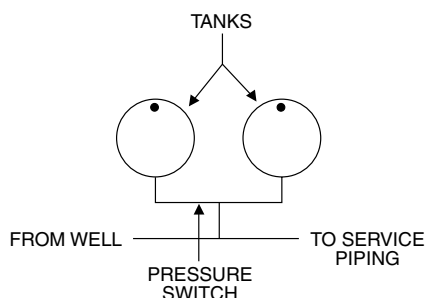


Figure 1

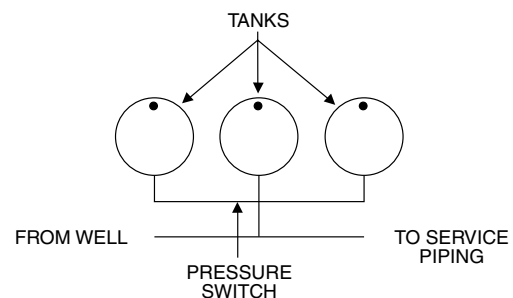
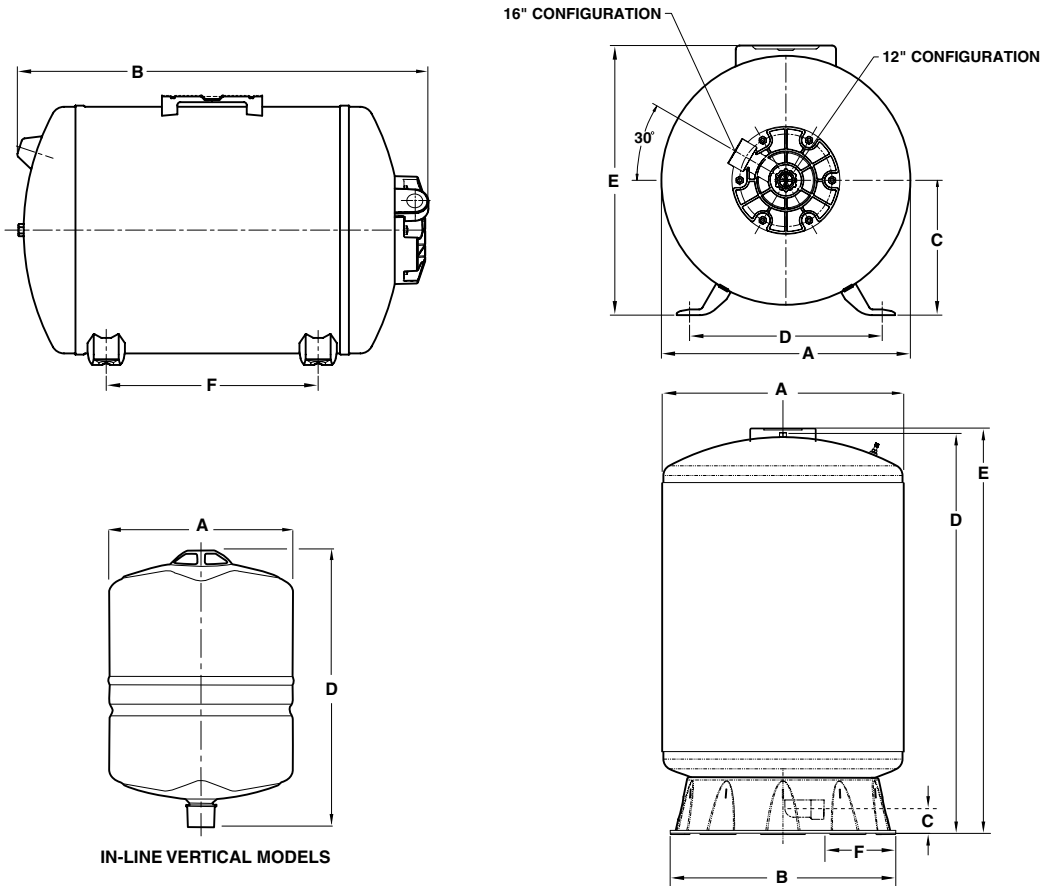


Figure 2

PRO-SOURCE® Plus Steel Pressurized

OUTLINE DIMENSIONS

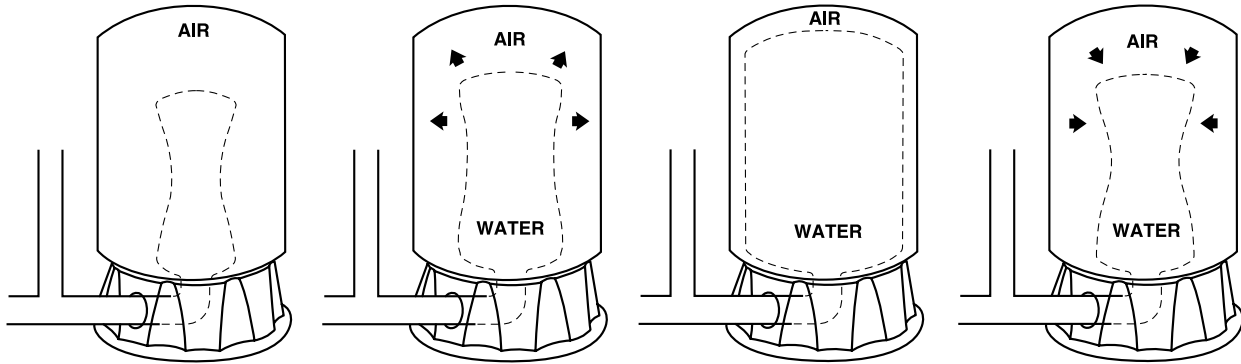


Catalog Number	Discharge NPT	A	B	C	D	E	F
VERTICAL MODELS							
PS6-S02	3/4"	12.0	–	–	16.1	–	–
PS19T-T02	1"	16.1	15.5	2.0	27.8	–	3.9
PS32-T03	1"	16.1	15.5	2.0	43.0	–	2.3
PS19S-T02	1"	20.1	15.5	2.0	–	21.5	2.3
PS35-T05	1"	20.1	15.5	2.0	33.0	–	2.3
PS50-T50	1-1/4"	24.1	22.7	2.5	33.2	–	5.5
PS62-T51	1-1/4"	24.1	22.7	2.5	40.1	–	5.5
PS85-T52	1-1/4"	24.1	22.7	2.5	51.5	–	5.5
PS119-TR50	1-1/4"	24.1	22.7	2.5	68.6	–	5.5
IN-LINE VERTICAL MODELS							
PS2-S01	3/4"	18.4	–	–	12.6	–	–
PS5-S02	3/4"	10.6	–	–	16.2	–	–
HORIZONTAL MODELS							
PS6H	3/4"	12.1	16.9	6.9	10.0	13.3	6.1
PS19H	1"	16.2	26.6	8.7	12.5	17.5	13.8

Dimensions (in inches) are for estimating purposes only.

PRO-SOURCE® Plus Steel Pressurized

SEQUENCE OF OPERATION

**WATER CELL IS COMPLETELY EMPTY:**

A new cycle is ready to begin. Simple, positive action produces maximum drawdown on every cycle.

WATER BEGINS TO ENTER THE TANK:

Air is compressed around the water cell as it fills with water.

PUMP-UP CYCLE COMPLETED:

Air is now compressed to the cut-off setting of pressure switch.

WATER IS BEING DRAWN FROM THE TANK:

Compressed air in the tank forces water out of the water cell.

PRO-SOURCE® Plus Steel Pressurized Steel EpoxyLined

Air-over-water tanks

The Pro-Source® EpoxyLined Tank is an excellent corrosion-resistant tank available in a variety of sizes for use in water systems applications, as a retention tank or holding tank. This tank utilizes an electrostatic paint process, resulting in superior rust protection.

APPLICATIONS

■ For use as a standard water tank, retention tank or holding tank.

SPECIFICATIONS

Shell – Heavy gauge steel

Skirt – Heavy gauge steel

Interior Coating – Epoxy

Fittings – Machined steel

Finish – Baked-on polyester paint



FEATURES

Quality Construction – The precision press fit head and wrapper minimize the possibility of large gaps between components. This manufacturing process reduces the possibility of corrosion and seam leaks.

Heavy Gauge Steel – Sturdy construction is emphasized, with heavier gauge steel than most tanks. This minimizes the possibility of dents from mishandling, and rust-through.

Uniform Epoxy Coating – The insides of the tanks are electrostatically powder-coated and then are oven baked to ensure proper adhesion and consistent coverage. This paint process offers superior corrosion resistance over traditional wet paints.

Appliance-like Exterior Finish – A polyester paint is also electrostatically adhered to the outer surface and then baked on for a high-gloss appearance.

Flush Mount Fittings – Designed to solve one of the toughest corrosion problems, these fittings eliminate flanges and sharp angles that make paint adherence difficult.

Standard Top Mount Fitting – Facilitates use as a retention tank, or for hard-to-fit areas. This fitting can also be used for an optional jet mount package.

Sturdy Base – Bases for horizontal models are constructed of heavy gauge steel, with slots for ventilation to avoid condensation problems.

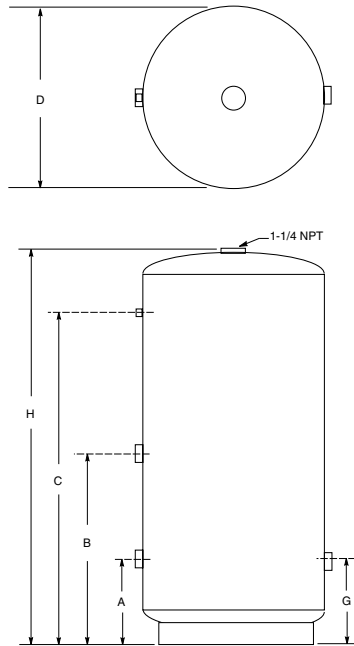
ORDERING INFORMATION

Catalog Number	Capacity U.S. Gal.	Style	Tank Diameter	Tank Height	Tank Length	Approx. Wt. Lbs.	Max. Oper. Press. (PSI)
AW30H	30	Horizontal	16"	17-1/2"	36-1/2"	55	75
AW42	42	Vertical	20"	36-5/8"	N/A	67	75
AW42T	42	Vertical	16"	53-1/2"	N/A	65	75
AW85	85	Vertical	24"	51"	N/A	94	75
AW120	120	Vertical	24"	68"	N/A	120	75

In order to provide the best products possible, specifications are subject to change.

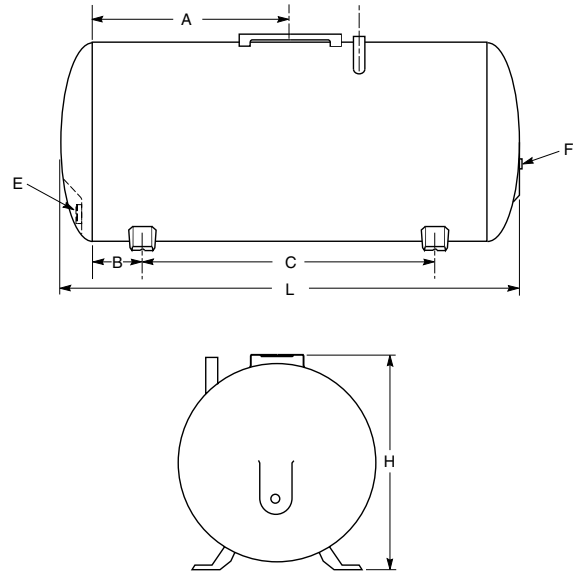
PRO-SOURCE® Plus Steel Pressurized Steel EpoxyLined

VERTICAL OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

HORIZONTAL OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

DIMENSIONAL DATA

Vertical EpoxyLined Tanks

Catalog Number	Gallons	Dimensions in Inches									
		D Dia.	H Ht.	A Dist.	A Size	B Dist.	B Size	C Dist.	C Size	G Dist.	G Size
AW42	42	20	36-5/8	8-1/2	1-1/4	19-1/2	1-1/4	27-3/4	1/4	8-1/2	1-1/4
AW42T	42	16	53-1/2	8	1-1/4	28	1-1/4	45	1/4	8	1-1/4
AW85	85	24	51	12	1-1/4	26-1/8	1-1/4	40-7/8	1/4	9-1/2	1-1/4
AW120	120	24	68	12	1-1/4	35	1-1/4	58-1/8	1/4	9-1/2	1-1/4

Horizontal EpoxyLined Tanks

Catalog Number	Gallons	Dimensions in Inches						Outlet Size	
		Dia.	Length	Ht.	A	B	C	E	F
AW30H	30	16	36-1/2	17-1/2	13-3/4	4-3/4	22	3/4	1/4

Horizontal tanks include pump mounting bracket as standard.

Note: All pumps installed with a Pro-Source® tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire pump flow at relief pressure.

TANK PERFORMANCE

Catalog Number	Capacity U.S. Gal.	Drawdown in Gallons		
		20-40	30-50	40-60
AW30H	30	5.2	4.4	3.9
AW42	42	6.7	5.8	5.0
AW42T	42	6.9	5.9	5.2
AW85	85	14.3	12.3	10.7
AW120	120	19.9	17.1	14.9



Quick Prime Self-Priming

The Quick Prime self-priming centrifugal pump is designed for demanding jobs where a lot of water is required over a long period of time. For lawn and garden sprinkling, car washing, or other big cleaning and maintenance jobs, it's built for one purpose only – continuous high performance service. Not for use with corrosive chemicals or flammable liquids.

APPLICATIONS

- **Water systems...** lawn and gardening sprinkling, car washing, or other big cleaning and maintenance jobs

SPECIFICATIONS

- High tensile gray iron pump case and motor bracket
- Square rubber sealing rings
- Proven thermoset diffuser
- Engineered composite impeller
- Carbon/ceramic shaft seal



FEATURES

Ruggedly Built – To meet the demands for long, hard continuous service without over-working or overloading the motor.

Manufactured – To precise performance specifications.

Impellers – Corrosion resistant for long life.

Simply Design – Powerful, efficient operation and easy servicing.

Proper Impeller Alignment – For smooth, quiet running.

Unique Diffuser Design – For quick automatic prime. No additional water needed for repriming after installation.

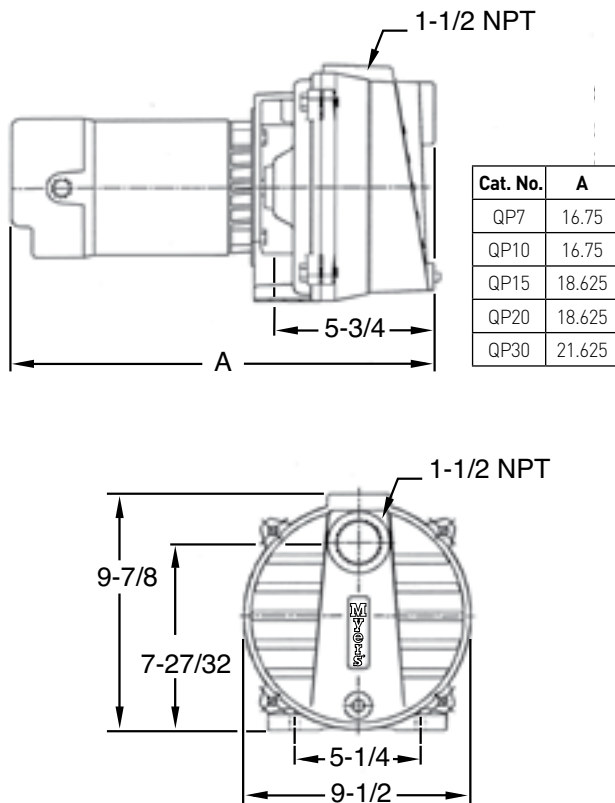
Common Brackets – Cases and gaskets on all sizes... simplified parts selection.

ORDERING INFORMATION

Catalog Number		HP	Pipe Sizes		Maximum Total Shut-Off Hd.		1 and 3 Ø Approx. Wt. Lbs.
1 Phase	3 Phase		Suct.	Disch.	Feet	PSI	
QP7	QP7-3	3/4	1-1/2"	1-1/2"	105	45.5	58
QP10	QP10-3	1	1-1/2"	1-1/2"	108	47	61
QP15	QP15-3	1-1/2	1-1/2"	1-1/2"	111	48	68
QP20	QP20-3	2	1-1/2"	1-1/2"	116	50	74
QP30	QP30-3	3	1-1/2"	1-1/2"	121	52	87

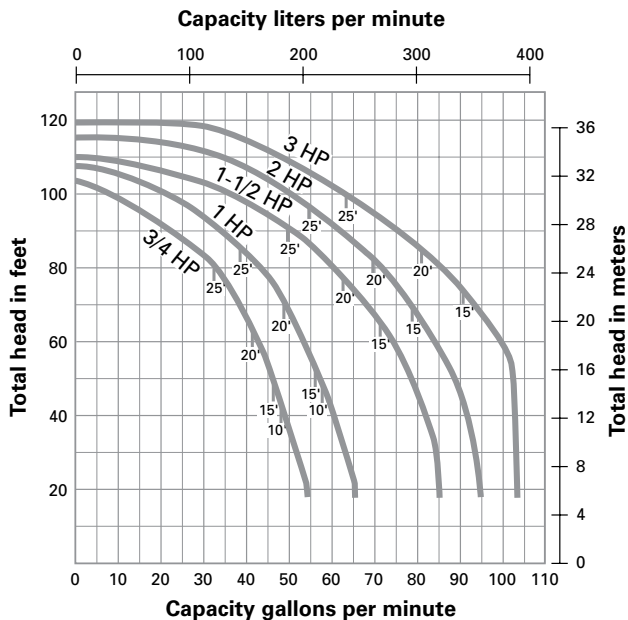
Quick Prime Self-Priming

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

PUMP PERFORMANCE



PUMP PERFORMANCE

Catalog Number		HP	Disch. Pressure PSI	Capacity in GPM for Discharge Pressure and Total Suction Lift Indicated			
1 Phase	3 Phase			10 Ft.	15 Ft.	20 Ft.	25 Ft.
QP7	QP7-3	3/4	20	40.75	38.1	36.1	33.2
			25	35.75	33.5	30.9	27.5
			30	30.75	27.25	23.1	18
			35	21.5	15.1	8.5	
			40	6.5			
QP10	QP10-3	1	20	51.2	48.9	46.4	39.25
			25	46.2	43.5	40.6	37.4
			30	40.5	37.5	33.6	29.2
			35	33	27.6	20.6	10
			40	19	5		
QP15	QP15-3	1-1/2	20	71.6	69.4	63.4	50.25
			25	66.5	62.5	58.75	50.25
			30	59.5	55	50.5	45
			35	50.5	43.6	37	24.9
			40	36.8	25.9		
QP20	QP20-3	2	20	78.9	76.6	70.5	55.5
			25	74.6	71.5	67	55.5
			30	68.5	63.5	58.4	53
			35	58.5	52.9	47	40
			40	47.5	40.5	32.5	
QP30	QP30-3	3	20	93	91	82	64
			25	92.9	91	82	64
			30	89.8	85.5	78.6	64
			35	81	73.3	65.6	57
			40	67.9	59.1	48.5	37.5
			45	47.9	30		

NOTE: Single phase units are dual voltage (115/230 volt) 2 and 3 HP are 230 volt only.

NOTE: All units are loaded within the motor service factor and are rated for continuous operation.

Quick Prime Self-Priming

Myers® powerful high head 5 HP self-priming pump delivers strong dependable performance for the most demanding jobs. The heavy duty 84JM motor, brass impeller, and large capacity rugged cast iron pump end deliver reliable and continuous high performance service.

APPLICATIONS

- **Industrial/commercial applications requiring large flow rates...** sprinkler systems; irrigation; booster service; water transfer, circulation and supply; dewatering, fire protection

SPECIFICATIONS

- High tensile cast iron pump case and motor bracket
- Brass impeller
- Ceramic/glass composite diffuser with stainless steel wear ring



FEATURES

Powerful Performance – Maximum head of 178 feet (77 psi) and flow capabilities to 135 gpm

Heavy Duty Motor – Full frame 184JM design, extra large, double-ball bearings, non-overloading, continuous duty rating, strong capacitor start, single or three phase options

Brass Impellers – Precision machines and balanced for smooth, quiet operation

Quick Priming – Large case for maximum water retention to insure quick and easy priming, true self-priming design with top suction inlet retains water in case and maintains the prime, exclusive diffuser plate with stainless steel impeller wear ring for fast priming

Mechanical Shaft Seal – Precision lapped and polished carbon/ceramic faces, Buna elastomers, and stainless steel metal components, top suction pump design prevents the seal from running dry

Easy Serviceability – Convenient back pull-out design

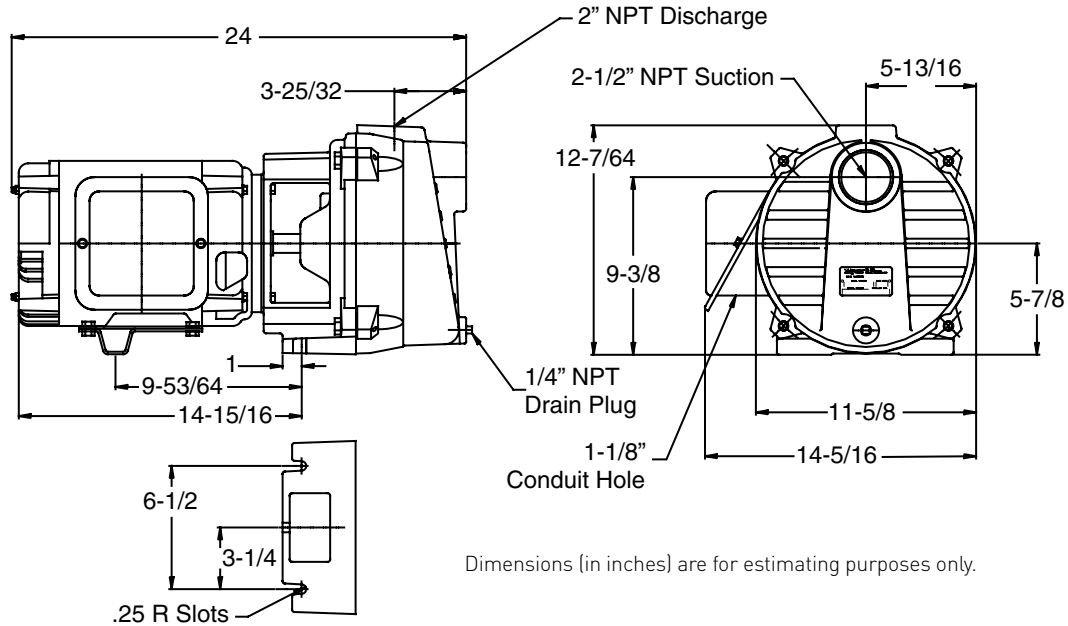
ORDERING INFORMATION

Catalog Number	Pipe Sizes		Motor Voltage	Phase	Max. Amps	Approx. Wt. Lbs.
	Suct.	Disch.				
QP50B	2-1/2"	2"	230	1	29.0	58
QP50B-3	2-1/2"	2"	207/230/460	3	13.4/13.2/6.6	61

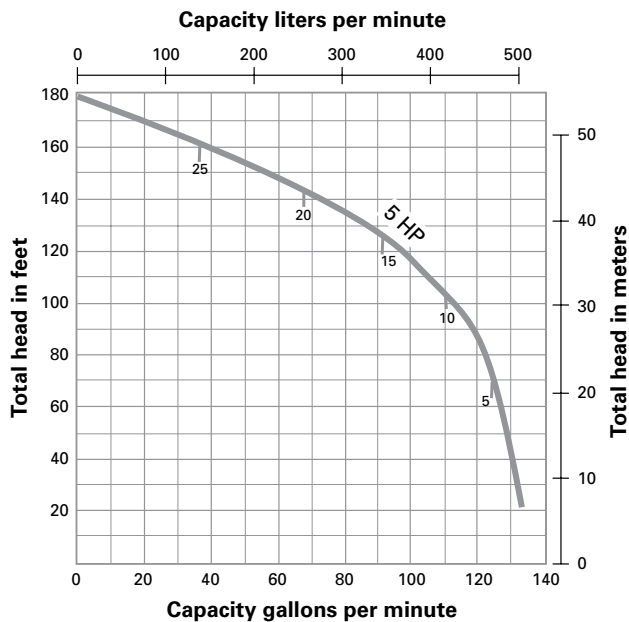
NOTE: This table is based on copper wire. If aluminum wire is used it must be two sizes larger. Example: When the table calls for #12 copper wire you would use #10 aluminum wire.

Quick Prime Self-Priming

OUTLINE DIMENSIONS



PUMP PERFORMANCE



PUMP PERFORMANCE

Total Suct. in Feet	Discharge Pressure (GPM)					Max. Pressure (psi)	Pipe Size	
	10 psi	20 psi	30 psi	40 psi	50 psi		Suct.	Disch.
0			126	120	104	77	2-1/2	2
5	125	123	113	107	98	75		
10	110	108	107	103	88	72		
15	91	90	88	84	80	70		
20	67	65	63	62	40	63		

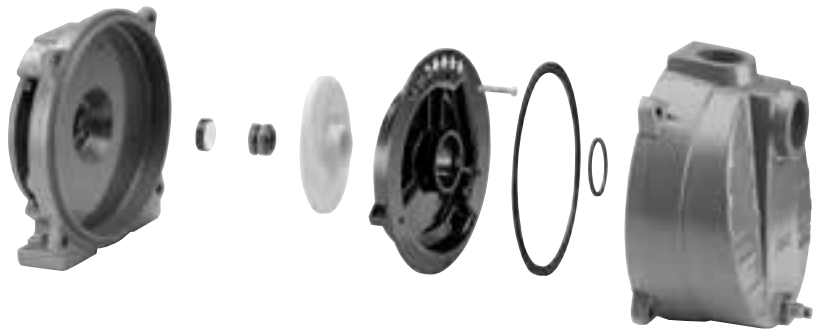
CABLE SELECTION

Motor Rating		Copper Wire Size						
Voltage	Phase	14	12	10	8	6	4	2
230	1				150	250	400	625
207	3			160	250	400	640	1020
230	3		130	210	340	540	850	1360
460	3	330	530	850	1350	2150	3422	5440

This table is based on copper wire. If aluminum wire is used it must be two sizes larger. Example: When the table call for #12 copper wire you would use #10 aluminum wire.

QP Series Field Assembly Kits

These kits provide many quality features and capabilities to meet a wide range of application with 1 - 5 HP, heads to 180 Feet and capacities to 135 GPM.



ORDERING INFORMATION

Catalog Number	HP	Impeller
QP10KIT	1	Composite
QP15KIT	1-1/2	
QP20KIT	2	Brass
QP30KIT	3	
QP50KIT	5	

PQP Series

Quick priming PQP Series Pumps feature lightweight construction in a self-priming design. These models offer a stronger pump body with reinforcement ribs and also a new 2" suction that is designed for the professional pump contractor.

APPLICATIONS

- **Turf sprinkling and water transfer...**
for residential and light commercial

SPECIFICATIONS

Pump Body – Fiberglass-reinforced engineered composite

Base – High-impact composite

Seal Plate – Fiberglass-reinforced engineered composite

Impeller – Polycarbonate

Diffuser – Polycarbonate

Shaft – Stainless steel

Clamp – Stainless steel



FEATURES

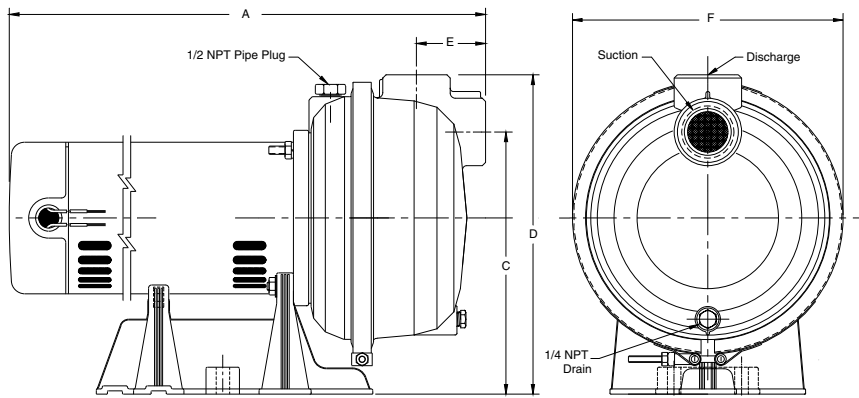
- **1, 1-1/2, 2 and 2-1/2 HP**
- **Single Phase** – 115/230V dual voltage, 60 Hz; ODP
- **Fiberglass-reinforced Polypropylene Pump Body and Seal Plate** – Lightweight, corrosion-resistant and exceptionally strong
- **Drain Port** – Provided for easy winterization
- **Corrosion-resistant Composite Pump Base**
- **Easy Serviceable Back Pullout Design**
- **2-Compartment, Square Flange Motor, Thermal Overload Protected**
- **Rapid Priming** – Once pump body is filled with water

ORDERING INFORMATION

Catalog Number	HP	Pipe Tapping Sizes		Motor Voltage	Approx. Wt. Lbs.
		Suction	Discharge		
PQP10	1	1-1/2"	1-1/2"	115/230	38
PQP15	1-1/2	1-1/2"	1-1/2"	115/230	41
PQP20	2	2"	2"	230	52
PQP25	2-1/2	2"	2"	230	54

PQP Series

OUTLINE DIMENSIONS



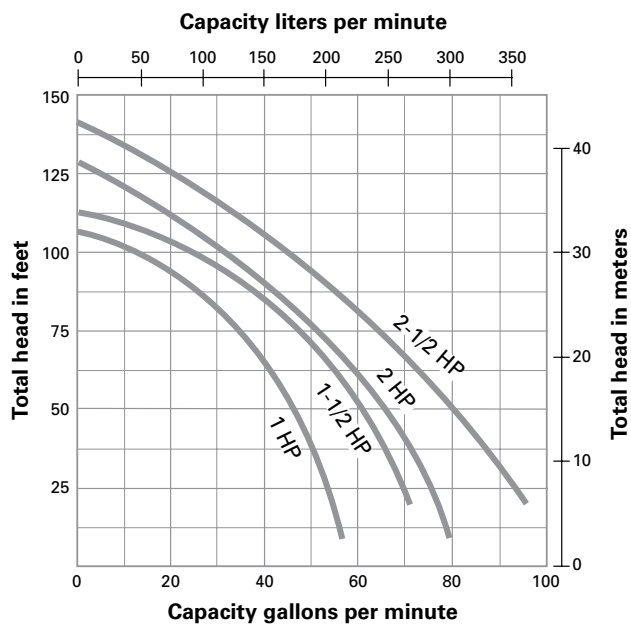
Cat. No.	A	C	D	E	F
PQP10	17.58	9.71	11.82	2.52	10.18
PQP15	18.46	9.71	11.82	2.52	10.18
PQP20	20.0	8.88	12.38	3.81	11.18
PQP25	20.5	8.88	12.38	3.81	11.18

Dimensions (in inches) are for estimating purposes only.

PUMP PERFORMANCE – CAPACITY IN GALLONS PER MINUTE

Disch. Press. PSI	PQP10					PQP15					PQP20					PQP25				
	Distance Above Water																			
	5'	10'	15'	20'	25'	5'	10'	15'	20'	25'	5'	10'	15'	20'	25'	5'	10'	15'	20'	25'
	Capacity – Gallons per Minute																			
10	53	52	50	48	46	67	66	64	61	59	70	69	67	64	62	90	88	86	82	80
20	45	42	39	37	35	59	56	54	50	47	61	59	56	53	50	79	76	72	70	65
30	35	31	27	24	18	48	44	40	37	32	50	48	44	41	37	66	62	57	55	50
40	17	10				31	26	20	10		36	33	25	23	19	50	45	42	37	32
50											16	9				30	23	20		

PUMP PERFORMANCE



CT Series-Crusader

Crusader centrifugal pumps are designed to meet your toughest pumping requirements. Rugged cast iron construction can be coupled with either a corrosion resistant composite, or a lead-free brass impeller. Versatile design features allow Crusader pumps to be installed with either a vertical or horizontal discharge. The CT Series is ideal for irrigation, air conditioning, cooling tower and booster applications.

APPLICATIONS

■ **Booster service, irrigation, circulating, cooling towers, air conditioning, liquid transfer, sprinkling systems, general industrial service, OEM equipment**

SPECIFICATIONS

Seal Plate – Heavy-duty cast iron

Wear Ring Impeller – Reinforced composite with stainless steel

Standard Casing – Heavy-duty cast iron

Mechanical Seal – Carbon ceramic faces



FEATURES

■ **1/2 to 2-1/2 HP models**

■ **High Head Capabilities to 140 Feet**

■ **Flow Capacities to 95 GPM**

■ **Double Ball-bearing Motor**

■ **Continuous-duty Rated**

■ **Single Phase** – (115/230V)

■ **Three Phase** – (208/230/460V)

■ **Choice of Impellers** – Composite impeller rated to 140°F, Brass impeller rated to 212°F

■ **Maximum Working Pressure of 125 PSI**

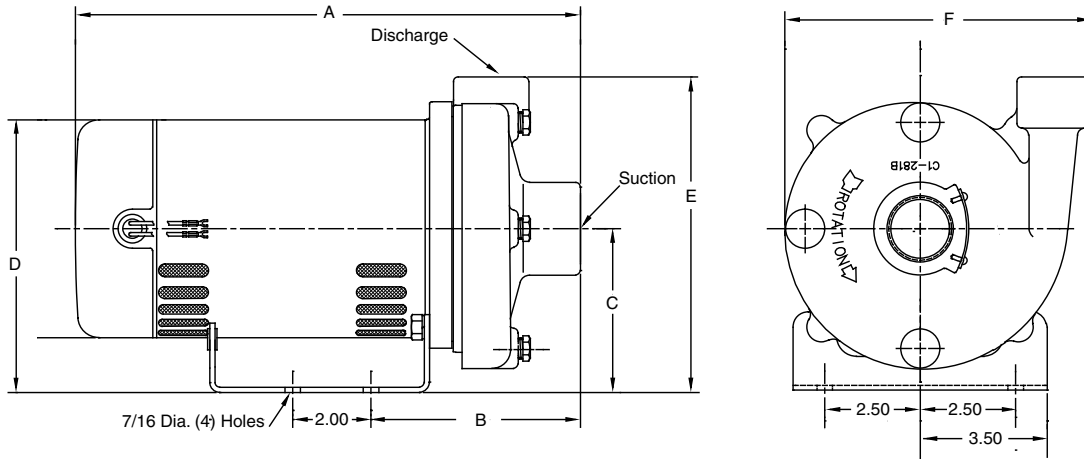
■ **Choice of Complete Unit or Pump End Assembly**

ORDERING INFORMATION

Catalog Number				HP	WT (lb/kg)	Capacity in U.S Gallons per Minute Total Head in Feet							Pipe Size	
Composite Impeller		Brass Impeller												
115-230 Volt		208/230/460 Volt												
1 Phase	3 Phase	1 Phase	3 Phase			50	60	70	80	90	100	110	Suction	Discharge
CT05	CT053	CT05B	CT05B3	1/2	39/18	23	18	12				1-1/4"	1"	
CT07	CT073	CT07B	CT07B3	3/4	42/19	35	29	23	15			1-1/4"	1"	
CT10	CT103	CT10B	CT10B3	1	43/20	44	39	34	27			1-1/4"	1"	
CT15	CT153	CT15B	CT15B3	1-1/2	54/25		51	46	42	36	28	1-1/4"	1"	
CT20	CT203	CT20B	CT20B3	2	66/30			62	54	45	35	1-1/2"	1-1/4"	
CT25	CT253	CT25B	CT25B3	2-1/2	74/34			70	63	57	48	41	2"	1-1/2"

CT Series-Crusader

OUTLINE DIMENSIONS

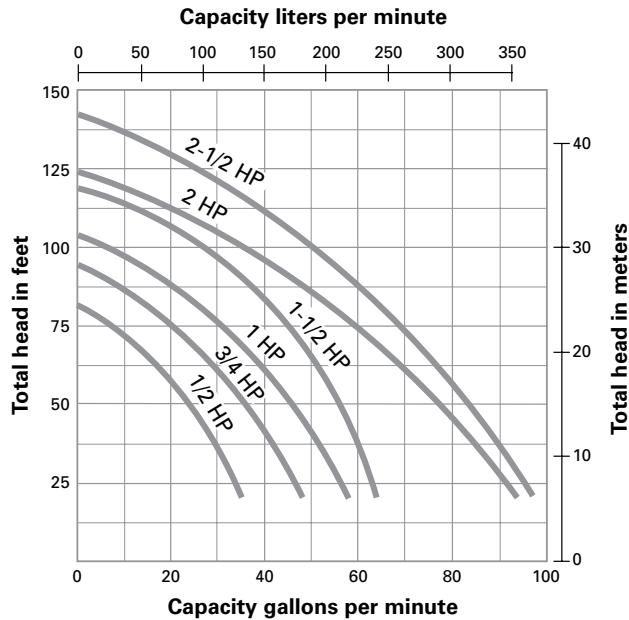


HP	A	B	C	D	E	F
1/2	13.88	5.5	4.38	7.25	9.0	8.0
3/4	14.63	5.5	4.38	7.25	9.0	8.0
1	15.13	5.5	4.38	7.25	9.0	8.0

HP	A	B	C	D	E	F
1-1/2	15.125	5.5	4.8	7.25	9.0	8.0
2	16.50	6.25	4.5	7.5	9.5	8.88
2-1/2	16.50	6.25	4.5	7.5	9.5	8.88

Dimensions (in inches) are for estimating purposes only.

PUMP PERFORMANCE



Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

HP	Discharge Pressure		Dynamic Suction Lift				
	PSI	Feet Head	5'	10'	15'	20'	25'
1/2	10	23.1	—	34	32	29	26
	20	46.2	25	21	18	15	11
	30	69.3	10	—	—	—	—
3/4	10	23.1	—	—	42	39	37
	20	46.2	35	32	30	28	26
	30	69.3	24	22	19	15	10
1	20	46.2	48	46	45	43	40
	30	69.3	38	35	31	28	25
	40	92.4	23	20	15	—	—
1-1/2	20	46.2	62	60	58	55	52
	30	69.3	50	48	44	40	37
	40	92.4	37	32	29	22	—
2	20	46.2	71	68	66	62	60
	30	69.3	60	57	52	59	45
	40	92.4	45	40	36	31	24
2-1/2	50	115.5	22	15	—	—	—
	20	46.2	81	79	76	74	71
	30	69.3	69	67	63	60	56
	40	92.4	56	51	47	44	38
	50	115.5	33	30	22	15	—

Centri-Thrift

The Myers® Centri-Thrift centrifugal pumps are designed for continuous service under demanding conditions. Centri-Thrift pumps have earned a reputation for reliability.

APPLICATIONS

■ **Booster service, irrigation, cooling towers, air conditioning, liquid transfer, sprinkling systems, general industrial service, refrigeration, cold and hot water circulation, laundry equipment, building services, spray equipment**

SPECIFICATIONS

Impeller – Bronze

Shaft Seal – Ceramic seat, carbon washer, stainless steel springs, brass metal parts

Volute Case – High tensile gray iron

Bracket – High tensile gray iron



FEATURES

■ **2 to 7-1/2 HP Models**

■ **High Head Capabilities to 140 Feet**

■ **Flow Capacities to 240 GPM**

■ **Available with 1-1/4", 1-1/2" and 2" Discharge Sizes**

■ **Close-coupled or Belt-driven**

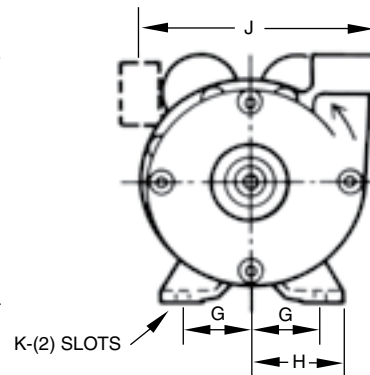
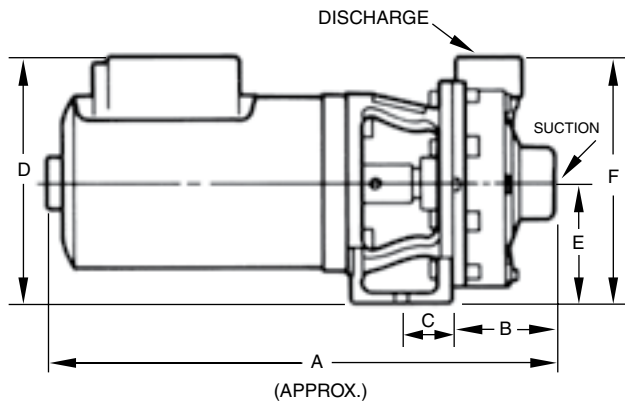
■ **Choice of Complete Unit or Pump End Assembly**

ORDERING INFORMATION

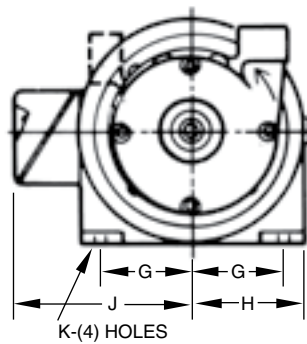
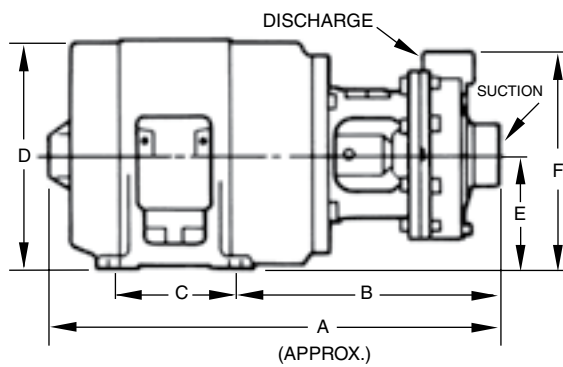
Catalog Number	HP	Pipe Tapping Sizes		Phase	Approx. Wt. Lbs.
		Suction	Discharge		
125M	2	1-1/2"	1-1/4"	1	78
	2	1-1/2"	1-1/4"	3	78
	3	1-1/2"	1-1/4"	1	80
	3	1-1/2"	1-1/4"	3	80
150M	2	2"	1-1/2"	1	80
	2	2"	1-1/2"	3	80
	3	2"	1-1/2"	1	81
	3	2"	1-1/2"	3	81
	5	2"	1-1/2"	1	173
	5	2"	1-1/2"	3	173
200M	3	2-1/2"	2"	1	83
	3	2-1/2"	2"	3	83
	5	2-1/2"	2"	1	175
	5	2-1/2"	2"	3	175
	7-1/2	2-1/2"	2"	3	156

Centri-Thrift

OUTLINE DIMENSIONS



125M-150M-200M
Series 2 and 3 HP



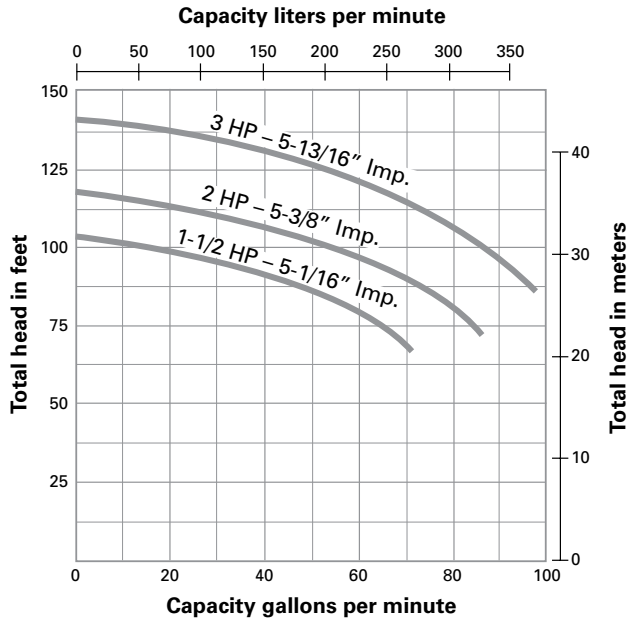
150M-200M
Series 5 and 7-1/2 HP

Dimensions (in inches) are for estimating purposes only.

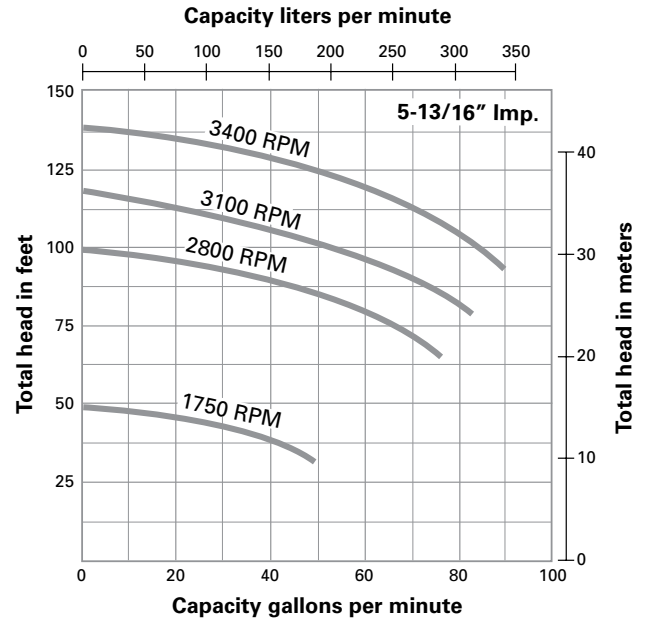
Catalog Number	HP	Phase	A	B	C	D	E	F	G	H	J	K
125M	2	1	18-5/8	3-13/16	1-13/16	9-3/4	4-1/2	9-3/16	2-1/2	3-5/16	8-1/4	1/2
	2	3	18-1/16	3-13/16	1-13/16	7-3/4	4-1/2	9-3/16	2-1/2	3-5/16	8-1/4	1/2
	3	1	19-15/16	3-13/16	1-13/16	9-3/4	4-1/2	9-3/16	2-1/2	3-5/16	8-1/4	1/2
	3	3	18-11/16	3-13/16	1-13/16	7-3/4	4-1/2	9-3/16	2-1/2	3-5/16	8-1/4	1/2
150M	2	1	18-15/16	4-1/8	1-13/16	9-3/4	4-1/2	9-3/4	2-1/2	3-5/16	8-7/16	1/2
	2	3	18-3/8	4-1/8	1-13/16	7-3/4	4-1/2	9-3/4	2-1/2	3-5/16	8-7/16	1/2
	3	1	20-1/4	4-1/8	1-13/16	9-3/4	4-1/2	9-3/4	2-1/2	3-5/16	8-7/16	1/2
	3	3	19	4-1/8	1-13/16	7-3/4	4-1/2	9-3/4	2-1/2	3-5/16	8-7/16	1/2
	5	1	21-13/16	11-11/16	5-1/2	9-3/16	4-1/2	9-3/4	3-3/4	4-1/2	8-1/2	13/32
	5	3	19-15/16	11-11/16	4-1/2	9-3/16	4-1/2	9-3/4	3-3/4	4-1/2	7	13/32
200M	3	1	20-3/4	4-5/8	1-13/16	9-3/4	4-1/2	9-7/16	2-1/2	3-5/16	9-3/16	1/2
	3	3	19-1/2	4-5/8	1-13/16	7-3/4	4-1/2	9-7/16	2-1/2	3-5/16	9-3/16	1/2
	5	1	22-5/16	12-13/16	5-1/2	9-3/16	4-1/2	9-7/16	3-3/4	4-1/2	8-1/2	13/32
	5	3	21-7/16	12-13/16	4-1/2	9-3/16	4-1/2	9-7/16	3-3/4	4-1/2	7	13/32
	7-1/2	3	22-1/16	12-13/16	5-1/2	9-3/16	4-1/2	9-7/16	3-3/4	4-1/2	7	13/32

Centri-Thrift

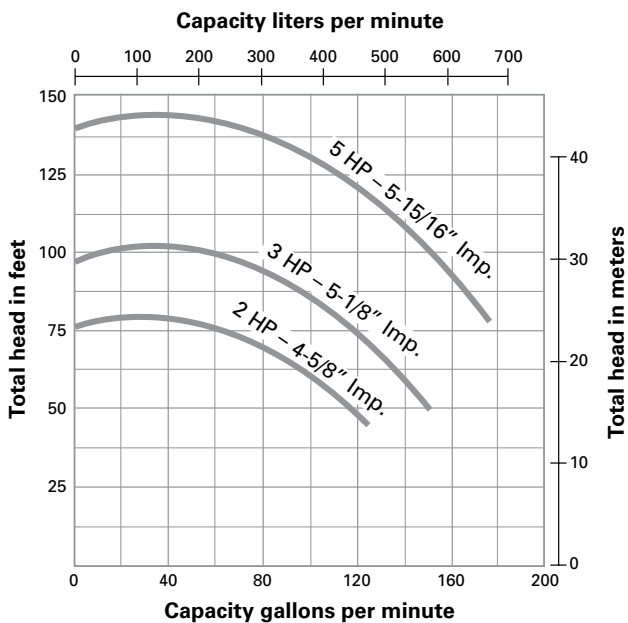
PUMP PERFORMANCE – 125M



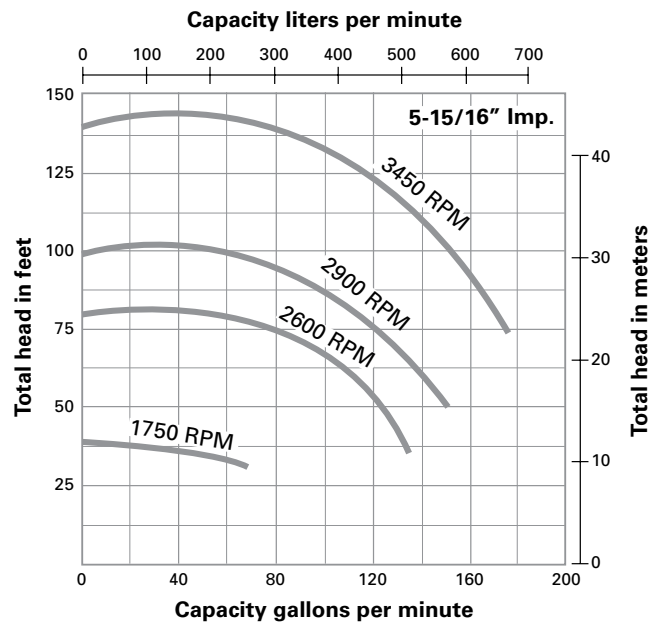
PUMP PERFORMANCE – 125B



PUMP PERFORMANCE – 150M

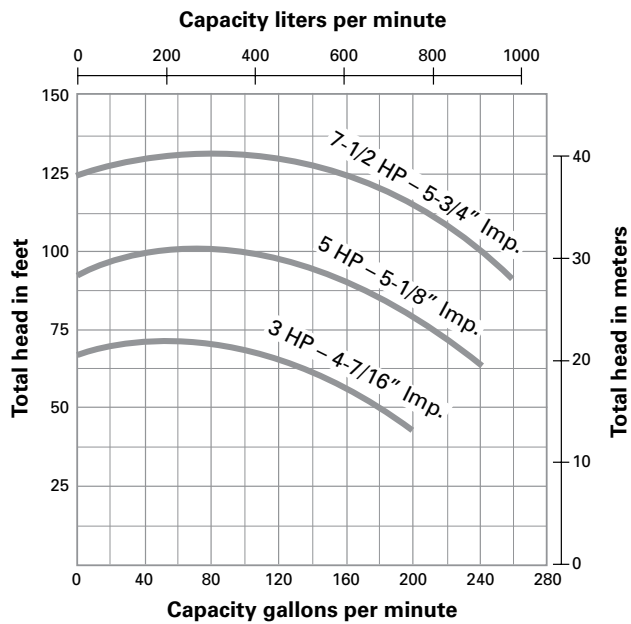


PUMP PERFORMANCE – 150B

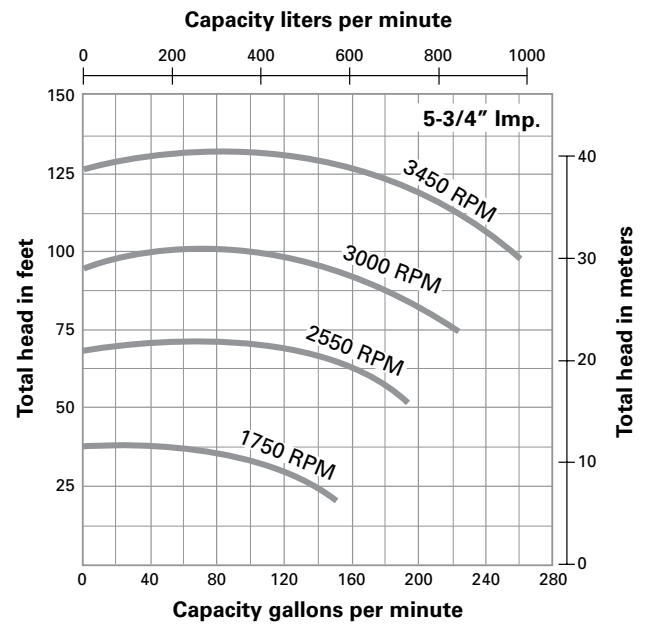


Centri-Thrift

PUMP PERFORMANCE – 200M



PUMP PERFORMANCE – 200B



MPB Series Serviceable High Pressure Booster

The MPB Booster Pumps are the most durable booster pump available. The proven SignaSeal™ floating impeller design minimizes thrust loads allowing for continuous operation without damage to motor bearings, mechanical seal or pump hydraulic components.

APPLICATIONS

■ Car wash, filtration and reverse osmosis, residential, commercial or agricultural pressure washing, booster and spray systems, HVAC, general purpose pumping.

SPECIFICATIONS

Max. Inlet Pressure – 80 PSI

Max. Working Pressure – 315 PSI

Maximum Limits – Prolonged use with liquids above 140° F is not recommended.

Discharge – MPB Series: cast iron

Motor Adapter and Base – MPB Series: cast iron

Shell – 300 series stainless steel

Impeller – Acetal

Diffuser – Polycarbonate

Shaft – 300 series stainless steel

O-Rings – Buna-N

Mechanical Seal – Carbon/ceramic, Buna-N



FEATURES

Pump and Motor Shaft – Stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive.

Peak Performance at Every Stage – Staging system uses independent floating impellers for superior sand handling.

Balanced Rotor – Die cast under high pressures for uniform performance and greater efficiency; dynamically balanced.

Acetal Impellers – Precision-molded for perfect balance... ultra-smooth for highest performance and efficiency.

Precision Molded Diffusers – Superior

performance with high resistance to corrosion and abrasion.

Heavy-duty Ball Bearings – Shielded, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

Myers: The Proven Leader – The industry leader in booster pumps offers solutions in a broad range of commercial and OEM applications.

In order to provide the best products possible, specifications are subject to change.

MPB Series Serviceable High Pressure Booster

ORDERING INFORMATION								
Catalog Number	GPM	HP	Phase	Stages	Pipe Tapping Sizes		Motor Voltage	Shipping* Wt. (lbs.)
					Inlet	Outlet		
7MPB50	7	1/2	1	9	3/4"	3/4"	115/230	48
7MPB75		3/4	1	12	3/4"	3/4"	115/230	48
7MPB100		1	1	16	3/4"	3/4"	115/230	51
10MPB50	10	1/2	1	6	3/4"	3/4"	115/230	45
10MPB75		3/4	1	8	3/4"	3/4"	115/230	46
10MPB100		1	1	10	3/4"	3/4"	115/230	50
10MPB150		1-1/2	1	14	3/4"	3/4"	115/230	58
10MPB200		2	1	16	3/4"	3/4"	115/230	63
20MPB100	20	1	1	7	1"	1"	115/230	49
20MPB150		1-1/2	1	9	1"	1"	115/230	57
20MPB200		2	1	11	1"	1"	115/230	62
20MPB300		3	1	15	1"	1"	208-230	59
30MPB100	30	1	1	5	1-1/4"	1-1/4"	115/230	47
30MPB150		1-1/2	1	6	1-1/4"	1-1/4"	115/230	54
30MPB200		2	1	7	1-1/4"	1-1/4"	115/230	57
30MPB300		3	1	11	1-1/4"	1-1/4"	208-230	59

*Length and weight are approximate.

NOTE: ODP motor is standard, for TEFC motors, contact Customer Service.

ORDERING INFORMATION – ACCESSORIES		
Pkg. No.	Description	Approx. Wt. Lbs.
SUCTION		
83	Suction hose – 3/4" 150 PSI hose, 6 ft. section with two (2) female hose fittings	3
85	Two (2) garden hose/NPT adapters – 3/4" NPT male to 3/4" garden hose male	3
96	Vacuum relief valve – 1/2" NPT	2
150 PSI RATED* DISCHARGE		
84	Discharge hose – 3/4" 150 PSI hose, 25 ft. section with male and female garden hose fittings	10
86	High pressure pistol grip nozzle with three (3) nozzles (No. 56, 50 and 49)	2
315 PSI RATED* DISCHARGE		
162	25' of 1" ID hose with 3/4" male and female hose fittings 315 PSI rating	15
194	High pressure pistol grip nozzle with three (3) nozzles (No. 56, 50 and 49) rated for 500 PSI	2

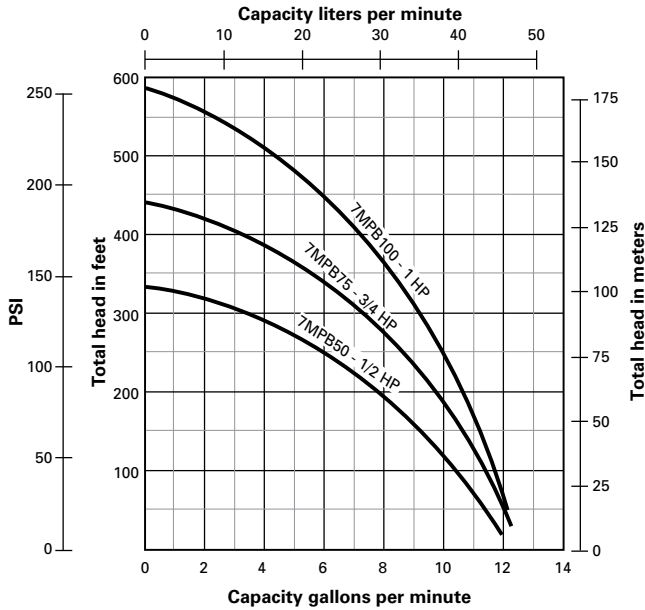
*To select proper discharge accessories for your pump, add incoming pressure to pump output pressure, to determine total discharge pressure.

Example: Incoming pressure 20 PSI + pump output pressure (HP7C at 0 GPM, 300')

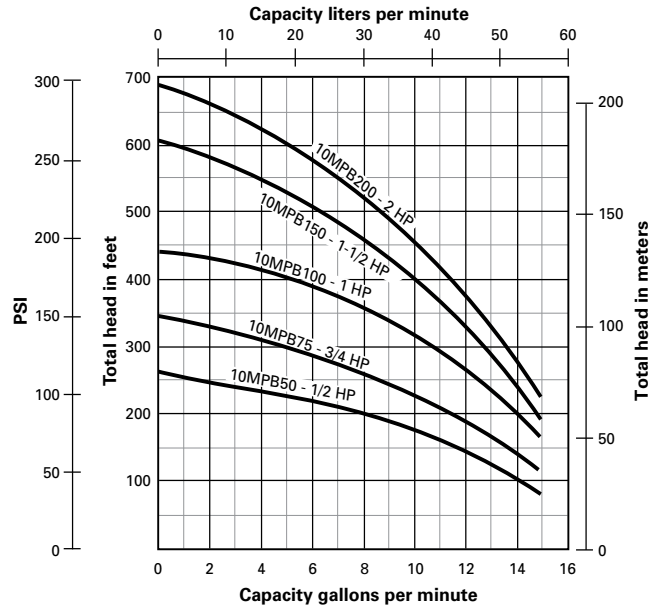
87 PSI = Total 150 PSI at discharge = 150 PSI rated discharge accessories

MPB Series Serviceable High Pressure Booster

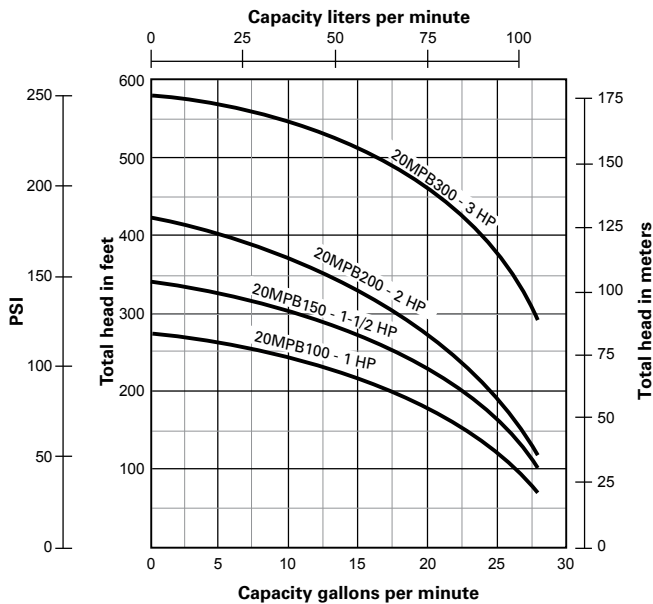
PUMP PERFORMANCE - 7 GPM



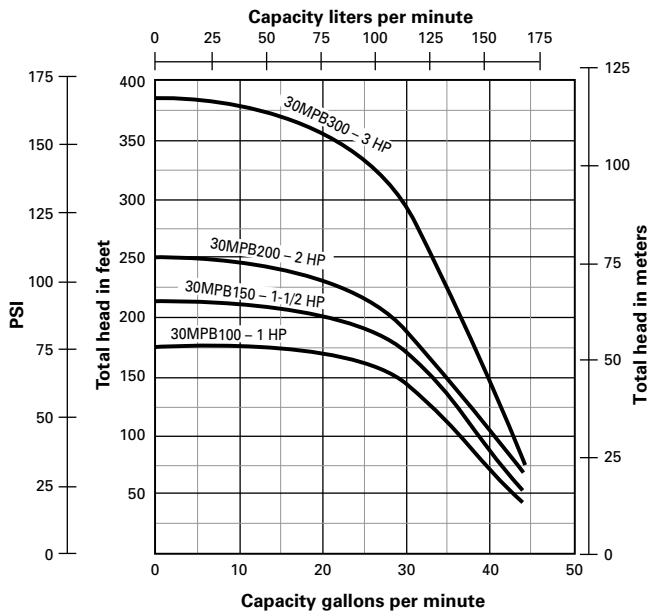
PUMP PERFORMANCE - 10 GPM



PUMP PERFORMANCE - 20 GPM

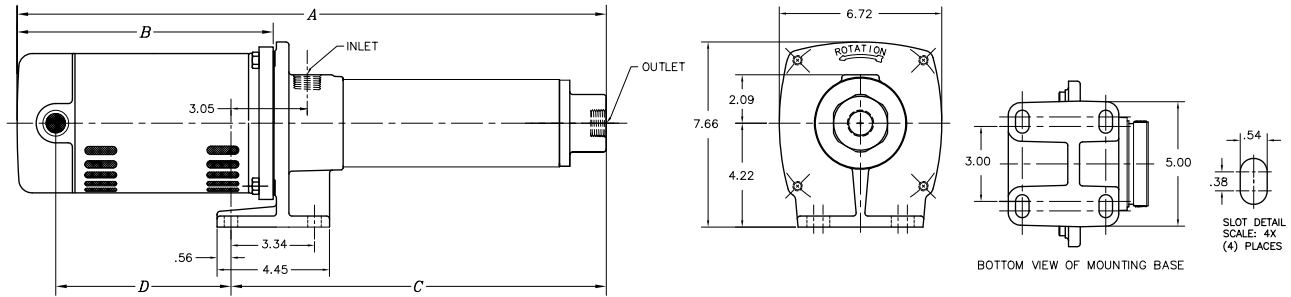


PUMP PERFORMANCE - 30 GPM



MPB Series Serviceable High Pressure Booster

OUTLINE DIMENSIONS



Catalog Number	HP	Dimensions in inches			
		A	B	C	D
7MPB50	1/2	24.60	10.38	15.76	6.88
7MPB75	3/4	27.22	10.38	18.39	7.47
7MPB100	1	32.23	11.88	21.89	8.88
10MPB50	1/2	23.19	11.60	13.13	8.63
10MPB75	3/4	25.31	11.97	14.88	9.00
10MPB100	1	28.12	13.03	16.63	10.06
10MPB150	1-1/2	32.07	13.47	20.14	10.50
10MPB200	2	34.13	13.78	21.89	10.81
20MPB100	1	26.02	11.88	15.68	8.88
20MPB150	1-1/2	29.84	13.47	17.91	10.50
20MPB200	2	32.38	13.78	20.14	10.81
20MPB300	3	36.80	14.05	24.47	11.12
30MPB100	1	25.08	11.88	14.92	8.69
30MPB150	1-1/2	27.26	12.63	16.35	9.44
30MPB200	2	28.49	12.42	17.79	9.47
30MPB300	3	35.86	14.05	23.53	11.12

MSP Swimming Pool Pumps

Myers® quality line of MSP swimming pool pumps deliver long-lasting reliability for residential pool application. These pumps are constructed with corrosion-resistant materials for extended life. Myers incorporates one of the largest strainer baskets available, a see-through lid with UV light stabilizers, and dual voltage motors available in 3/4, 1 and 1-1/2 HP sizes.

APPLICATIONS

- Residential pool

SPECIFICATIONS

Pump Case – Polypropylene

Basket Lid – Polypropylene

Impeller – Polycarbonate/polyester

Fasteners – 304 Stainless Steel

Base – Polypropylene

Seal Plate – Polypropylene

Strainer – Polypropylene



FEATURES

Constructed for Long Life

- Seal design puts direct contact between ceramic and heat sink, and in the pumping fluid
- All positive-sealing O-ring gaskets – no cork gaskets
- Base supports motor, pump and strainer
- Three motor sizes meet wide range of pool capacities

Easy to Operate

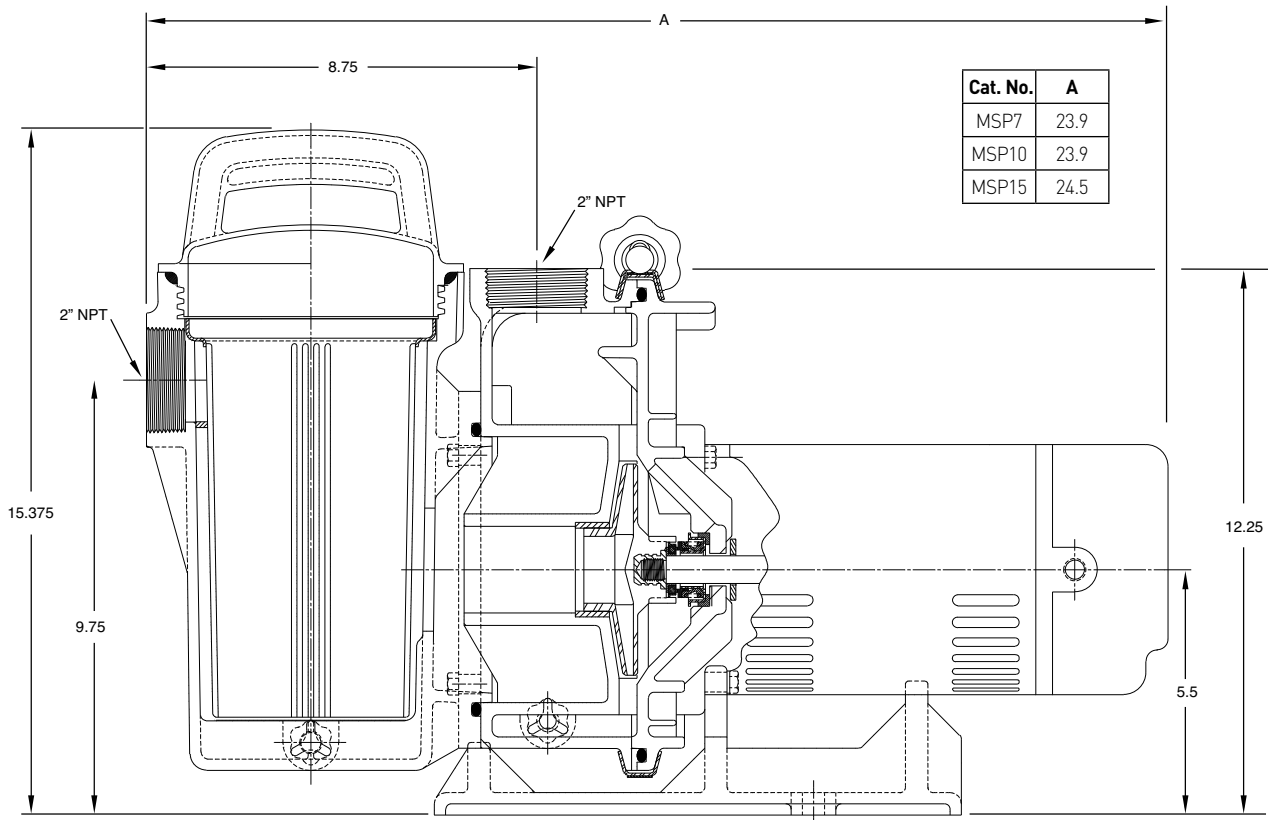
- Drain plugs removable by hand
- See-through lid removes easily, has UV stabilizers to protect from sunlight damage
- Strainer has larger basket than similar designs for more capacity
- 1-1/2" x 2" bushings provided

ORDERING INFORMATION

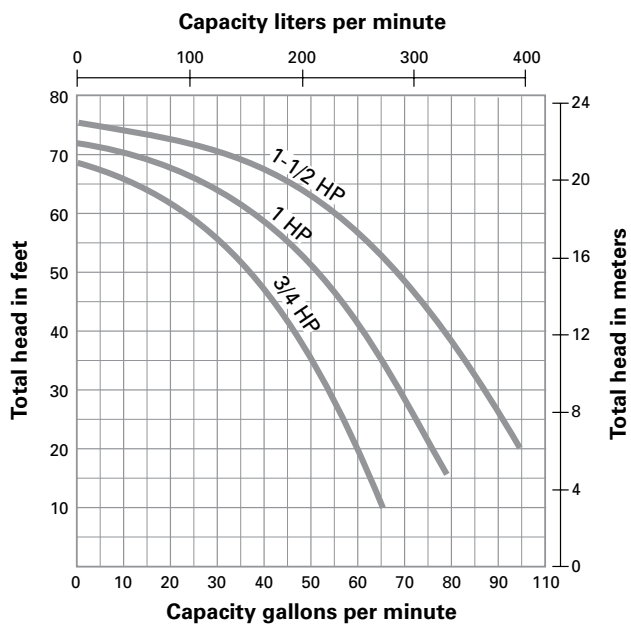
Catalog Number	Required Pump Size	Pool Capacity
MSP7	3/4 HP	Up to 22,000 gal.
MSP10	1 HP	22,000 - 29,000 gal.
MSP15	1-1/2 HP	29,000 - 38,000 gal.

MSP Swimming Pool Pumps

OUTLINE DIMENSIONS



PUMP PERFORMANCE



PRO-SOURCE® Composite Engine-Driven Self-Priming Pump

Lightweight, corrosion resistant, engineered composite pump construction make this engine-driven pump extremely versatile for applications where electrical power is not available.

Powered by a powerful 6-1/2 HP, PowerPro 4-cycle gasoline engine, rated for continuous-duty, equipped with professional-grade features like an automatic low-oil safety cut, manual throttle, choke and shut-off controls.

Securely mounted within a rugged steel framed rollcage, reinforced with steel cross-members, coated for corrosion resistance, equipped with noise dampening, non-slip rubber feet. Suction lift capability of 25 feet.

APPLICATIONS

■ Water Transfer and Supply
Sprinkler Turf Irrigation;
Dewatering; Fire Protection;
Agriculture, Light
Commercial and Marine

SPECIFICATIONS

Body – Reinforced corrosion resistant Thermoplastic

Impeller – Polymer

Diffuser – Reinforced corrosion resistant Thermoplastic

Seals – Viton mechanical

O-rings – Viton

Check Valve – Viton

Roll Cage – Coated steel frame with cross member and stay-in-place (no-slip) rubber feet

Engine – 6-1/2 HP

Dimensions – 21"H x 17"D x 21"L

Fasteners – 300 Grade stainless steel



FEATURES

- Rugged Light-Weight Design
- Corrosion Resistant Composite Pump Construction
- Chemical Resistant Viton Seals, O-rings with Stainless Steel Fasteners
- Built-in Check Valve

ACCESSORIES

Suction Hose Kit – Built-in 2" NPTF swivel fitting and 2" NPTM fitting for easy hookup; coil-reinforced wall prevents collapse; includes aluminum suction screen to prevent debris from reaching pump

Discharge Hose Kit – Built-in 2" NPTF swivel fitting and 2" NPTM fitting for easy hookup; collapsible for easy roll-up and storage; reinforced wall adds durability

ORDERING INFORMATION

Catalog Number	HP	Description	Pipe Tapping Sizes		Approx. Wt. Lbs./Kg.
			Suction	Discharge	
EDP55RV	5-1/2	Engine-driven pump w/roll cage	2" NPT	2" NPT	46/20.9

ACCESSORIES

Catalog Number	Description	Approx. Wt. Lbs./Kg.
FP2735	2" x 15' Suction Hose Kit	15/6.8
FP2731	2" x 25' Discharge Hose Kit	6/2.7



FP2735 Suction
Hose Kit

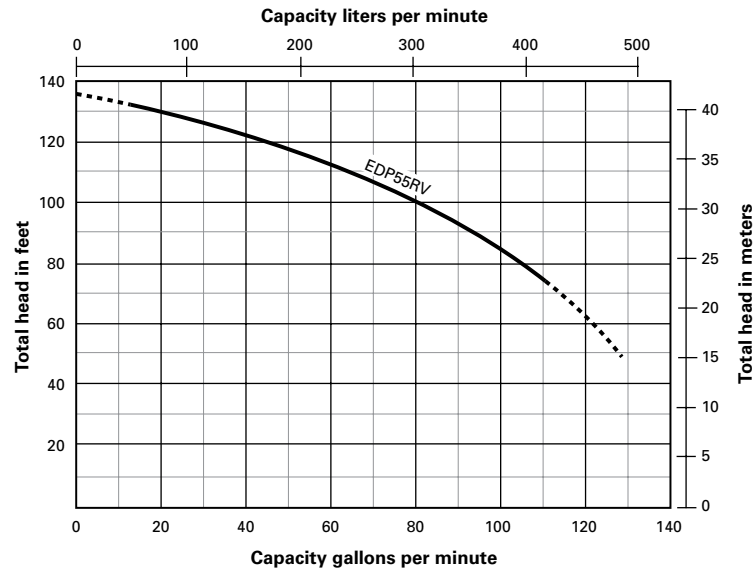


FP2731
Discharge Hose
Kit

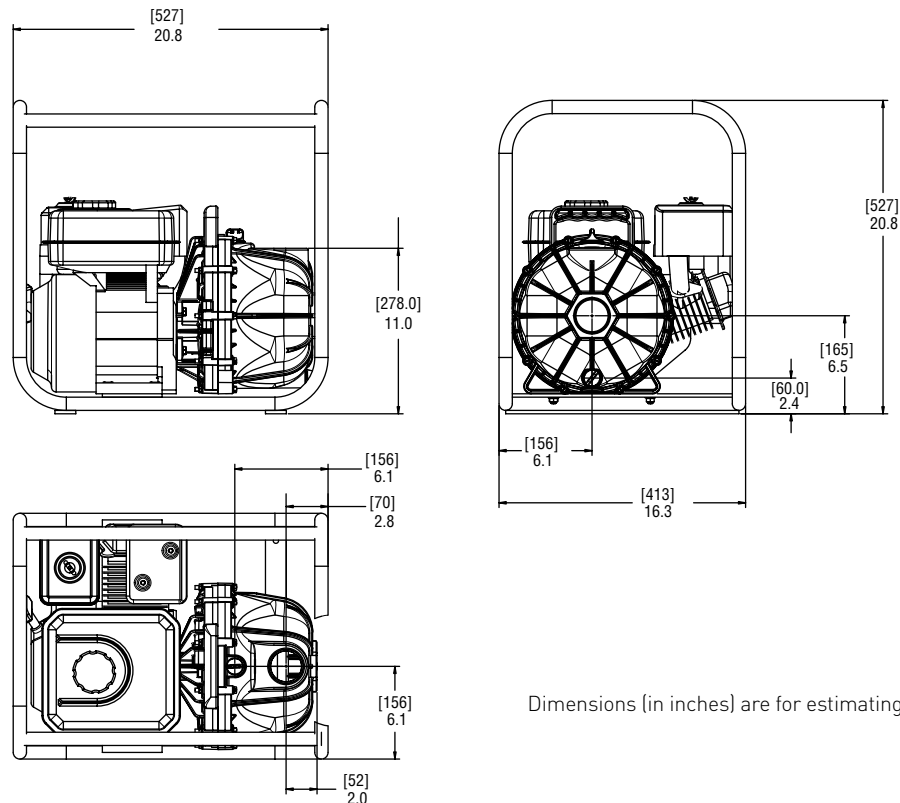
In order to provide the best products possible, specifications are subject to change.

PRO-SOURCE® Composite Engine-Driven Self-Priming Pump

PUMP PERFORMANCE



OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

Utility Transfer Pump

MES106

The MES106 pumping system solves water transfer needs by removing water from waterbeds, aquariums, non-draining sinks and water standing on basement floors. Pump constructed of proven materials promotes long pump life. Compact design provides easy hookup, application use and storage when not in use.

APPLICATIONS

- Ideal for transferring water, filling tanks and draining shallow flooded areas

SPECIFICATIONS

- Capacities** – 5 GPM, 18.9 LPM
- Shut-off Head** – 10', 3.1 m
- Weight** – 4 lbs.
- Liquids Handling** – Drain water
- Intermittent Liquid Temp.** – 104°F, 40°C
- Motor** – Air-cooled brush motor
- Electrical Data** – 115V, 2A, 1Ø, 60Hz
- Discharge** – Standard garden hose
- Housing** – Cast aluminum
- Impeller** – Buna-N
- Wear Ring** – 304 Stainless Steel
- Power Cord** – 6'



FEATURES

- Up to 5 GPM with 10' Head
- Connects to Standard Garden Hose
- 115VAC with 6' Power Cord
- Removes Standing Water Down to 1/8" Depth
- Weighs Only 4 Pounds
- Built-in Carrying Handle
- Includes 6' Suction Hose and Floor Drainer
- To Operate, Just Attach a Standard Hose to Pump Discharge and Plug into Any 115V Outlet
- Air-cooled, High-torque, Non-submersible Motor with Overload Protection

ORDERING INFORMATION

Catalog Number	Volts	Hz	GPM	Approx. Wt. Lbs.
MES106	115	60	5	4

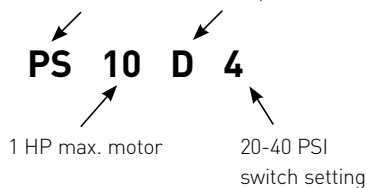
Pressure Switches

ORDERING INFORMATION												
ELECTRIC CONTROL SWITCHES												
Cat. No.	Part No.	Factory Pressure Setting	Cut-Off Pressure (Range)	Differential Pressure	Minimum Cut-Off Pressure	Manufacturer's Rating Max. Motor HP						Pipe Connection NPTF
						1 PH AC		3 PH AC		DC		
						115V	230V	230V	460V	575V	115/575V	
PS10D4	15760A000K	20-40	20-65	10-30		1-1/2 HP	2 HP	3 HP			1/4 HP	1/4"
PS10D5	15760A001K	30-50										
PS10D6	15760A002K	40-60										
PS20D4	15761A000K	20-40	20-80	10-31		2 HP	3 HP	5 HP	5 HP	5 HP	1/2 HP	1/4"
PS20D5	15761A001	30-50										
ELECTRIC CONTROL SWITCHES WITH LOW PRESSURE CUT-OFF												
PS10D4C	19180A000K	20-40	20-65	10-30	10*	1 HP	1 HP	1 HP			1/4 HP	1/4"
PS10D5C	19180A001K	30-50	20-65	10-30	20	1 HP	1 HP	1 HP			1/4 HP	1/4"
PS10D6C	19180A002K	40-60	20-65	10-30	30	1 HP	1 HP	1 HP			1/4 HP	1/4"

All switches are 2-pole.

Code Explanation for Pressure Switch Catalog Numbers

Pressure Switch Square D



PS stands for Pressure Switch

The number following stands for maximum HP to be used on

The next letter stands for the switch manufacturer

The next number stands for the highest pressure of the factory set switch setting

Valves and Regulators

ORDERING INFORMATION						
PRESSURE RELIEF VALVES						
Catalog No.	Pipe Size	GPM Maximum	Minimum Setting Lbs./Sq. In.	Regular Setting Lbs./Sq. In.	Maximum Setting Lbs./Sq. In.	Ship Wt. Lbs.
06430B011K	3/4"	17	25	75	90	1-1/4
EJECTOR PRESSURE REGULATORS						
Catalog Number	Pipe Size In.	Used On				
15495B000K	3/4"	HC33, HC50, HCM50, HCM75				
15496B000K	1"	HC75, HC100, HCM100, HCM150, HJA75D, HJA100D, HJ75D, HJ100D				
13980A001K	1"	HJA33D, HJA50D, HJ50D, HR50D				
AUTOMATIC AIR VOLUME CONTROL – Deep Well						
Vents excess air from tank on all systems which charge tank with air on each operating cycle. Set to prevent air below 30 lbs. tank pressure but adjustable 15 to 40 lbs. Used on deep well ejectors, deep well reciprocating and submersible systems.						
Catalog Number	Gauge Taping	Tank Connection	Max. Operating Pressure	Ship Wt. Oz.		
05857A002K	1/4"	1-1/4"	65 lbs.	6		

Valves and Regulators

ORDERING INFORMATION

AUTOMATIC AIR CHARGING CONTROL

Charges air on each operating cycle. Air is not handed through pump. Copper tube and fitting not included with control for replacement but required in installation. Not recommended for reciprocating pumps.

Catalog Number	NPT	Description
13809A000K	3/8"	82 gallon tanks and smaller
14446A000K	3/8"	Packaged control with tube fittings

AIR VALVES

Used with reciprocating, jet and submersible pumps to admit air into system.

Catalog Number	NPT	Used With
05000A000	1/8"	Water systems
05000A010	1/4"	Air guard tanks

CHECK VALVES - Vertical or Horizontal

Catalog Number	Part Number	Description	Pipe Size	Can Be Used in Pipe Size	Ship Wt. Lbs.
CVA-75	26370A001	3/4" No-Lead Brass Check Valve	3/4"	1-1/4"	1
CAP-10	26370A002K	1" No-Lead Brass Check Valve	1"	2"	1-1/4
CAP-12	26370A003K	1-1/4" No-Lead Brass Check Valve	1-1/4"	2"	1-3/4
CAP-15	26370A004K	1-1/2" No-Lead Brass Check Valve	1-1/2"	3"	2-1/4
CAPD-20	24429A017	2" No-Lead Brass Check Valve	2"	3-1/2"	5
CAPD-40	23799A010K	4" No-Lead Brass Check Valve	4"	6"	25

VERTICAL FOOT VALVES

FVP-75	26369A001K	3/4" No-Lead Brass Check Valve	3/4"	3/4"	3/4
FVP-10	26369A002K	1" No-Lead Brass Check Valve	1"	1"	1
FVP-12	26369A003K	1-1/4" No-Lead Brass Check Valve	1-1/4"	1-1/4"	1-1/4
FVP-15	26369A004	1-1/2" No-Lead Brass Check Valve	1-1/2"	3"	2
FVP-20		2" No-Lead Brass Check Valve	2"	3-1/2"	3

EXTERNAL SUBMERSIBLE PUMP CHECK VALVES

Catalog Number	Part Number	Description	Ship Wt. Lbs.
CAP-14	24429A012	1" F x 1-1/4" No-Lead Check Valve	2
CAP-16	24429A013K	1-1/4" F x 1-1/4" No-Lead Check Valve	2
CAPD-20	24429A017	2" F x 2" M Ductile Iron Check Valve	3-1/2

Well Adapters, Seals

ORDERING INFORMATION

UNIVERSAL WELL ADAPTERS

For all packer installations. Designed for over-the-well installations with vertical pumps and concentric piping installations with horizontal pumps.

Catalog Number	Part Number	Well Size	Number of Bolts	Drop Pipe	Delivery Pipe	Pressure Pipe
UA2-20	19251C010	2"t	2	1"	1-1/4"	1-1/4"
UA2-20A	19251C011	2"	2	1-1/4"	1-1/4"	1-1/4"

90° TYPE WELL ADAPTERS

For offset packer installations with horizontal pumps and concentric piping installations with vertical pumps.

Horizontal Adapter	18021C000K	2"	*	1"	1-1/4"	1-1/4"
HA2-20	19253C010	2"	2	1"	1-1/4"	1-1/4"
HA2-20A	19253C011	2"	2	1-1/4"	1-1/4"	1-1/4"

*No bolts holes – inlet and outlet openings are threaded

OPEN CENTER CUP LEATHERS

Catalog Number	O.D.	Diameter of Hole
05099A012K	1-13/16"	1-1/8"
05099A015K	2"	1-5/16"
05099A017K	2-1/2"	1-11/16"
05099A019K	3"	1-15/16"

SOLID CENTER CUP LEATHERS

05064A019K	1-5/16"	9/16"
05064A023K	1-1/2"	9/16"

WATER PRESSURE GAUGE

Catalog No.	Description	Connection 1/4" NPT	Case Construction	Face Diameter	Ship Wt. Oz.
05003A001K	100 PSI Pressure Gauge	1/4" Bottom Mount	Plastic	2"	4

Pipe Friction Loss Charts 1/2"-1-1/4" I.D.

LOSS OF HEAD IN FEET DUE TO FRICTION PER 100 FEET OF PIPE

1/2"					3/4"					1"					1-1/4"				
Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID .622"	Steel C=100 ID .622"	Copper C=130 ID .625"	Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID .824"	Steel C=100 ID .824"	Copper C=130 ID .822"	Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID 1.049"	Steel C=100 ID 1.049"	Copper C=130 ID 1.062"	Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID 1.380"	Steel C=100 ID 1.380"	Copper C=130 ID 1.368"
0.5	0.5	0.314	0.582	0.35	1.5	0.9	0.61	1.13	0.7	2	0.74	0.322	0.595	0.345	4	0.9	0.304	0.564	0.364
1	1.1	1.14	2.1	1.26	2	1.2	1.04	1.93	1.21	3	1.1	0.68	1.26	0.732	5	1.1	0.46	0.853	0.545
1.5	1.6	2.38	4.44	2.67	2.5	1.5	1.57	2.91	1.82	4	1.5	1.15	2.14	1.24	6	1.3	0.649	1.2	0.765
2	2.1	4.1	7.57	4.56	3	1.8	2.21	4.08	2.56	5	1.9	1.75	3.42	1.88	7	1.5	0.86	1.59	1.02
2.5	2.6	6.15	11.4	6.88	3.5	2.1	2.93	5.42	3.4	6	2.2	2.45	4.54	2.63	8	1.7	1.1	2.04	1.31
3	3.2	8.65	16	9.66	4	2.4	3.74	6.94	4.36	8	3.0	4.16	7.73	4.5	10	2.1	1.67	3.08	1.98
3.5	3.7	11.5	21.3	12.9	4.5	2.7	4.66	8.63	5.4	10	3.7	6.31	11.7	6.77	12	2.6	2.33	4.31	2.75
4	4.2	14.8	27.3	16.4	5	3.0	5.66	10.5	6.57	12	4.5	8.85	16.4	9.47	14	3.0	3.1	5.73	3.64
4.5	4.8	18.3	33.9	20.4	6	3.6	7.95	14.7	9.22	14	5.2	11.8	21.8	12.6	16	3.4	3.96	7.34	4.68
5	5.3	22.2	41.2	24.8	7	4.2	10.6	19.6	12.2	16	5.9	15.1	27.9	16.2	18	3.9	4.93	9.13	5.81
5.5	5.8	26.6	49.2	29.5	8	4.8	13.5	25	15.7	18	6.7	18.7	34.7	20.1	20	4.3	6	11.1	7.1
6	6.3	31.2	57.8	34.8	9	5.4	16.8	31.1	19.5	20	7.4	22.8	42.1	24.4	25	5.4	9.06	16.8	10.7
6.5	6.9	36.2	67	40.2	10	6.0	20.4	37.8	23.7	22	8.2	27.1	50.2	28.8	30	6.4	12.7	23.5	15
7	7.4	41.5	76.8	46.1	11	6.6	24.4	45.1	28.2	24	8.9	31.9	59	34	35	7.5	16.9	31.2	20
7.5	7.9	47.2	87.3	52.5	12	7.2	28.6	53	33.2	26	9.7	36.9	68.4	39.7	40	8.6	21.6	40	25.6
8	8.4	53	98.3	59.4	13	7.8	33.2	61.5	38.5	28	10.4	42.5	78.5	45.5	50	10.7	32.6	60.4	38.7
8.5	9.0	59.5	110	66	14	8.4	38	70.5	44.2	30	11.1	48.1	89.2	51.6	60	12.9	45.6	84.7	54.1
9	9.5	66	122	73.5	16	9.6	48.6	90.2	56.6	35	13.0	64.3	119	68.7	70	15.0	61.5	114	72.2
9.5	10.0	73	135	81	18	10.8	60.5	112	70.4	40	14.8	82	152	88	80	17.2	77.9	144	92.4
10	10.6	80.5	149	89.4	20	12.0	73.5	136	83.5	45	16.7	102	189	109	90	19.3	96.6	179	115

NOTE: Recommended velocity is 5 FPS (feet per second) with a maximum of 7 FPS.

FRICTION LOSSES THROUGH FITTINGS IN TERMS OF EQUIVALENT LENGTHS OF PIPE

Type Fitting and Application	Pipe and Fitting Material (Note 1)	Equivalent Length of Pipe - Nominal Size Fitting and Pipe						
		1/2	3/4	1	1-1/4	1-1/2	2	2-1/2
Threaded Adapter Plastic or Copper to Thread	Copper	1	1	1	1	1	1	1
	Plastic	3	3	3	3	3	3	3
90° Standard Elbow	Steel	2	3	3	4	4	5	6
	Copper	2	3	3	4	4	5	6
	Plastic	4	5	6	7	8	9	10
Insert Coupling	Plastic	3	3	3	3	3	3	3
Standard Tee	Steel	4	5	6	8	9	11	14
	Copper	4	5	6	8	9	11	14
	Plastic	7	8	9	12	13	17	20
Gate Valve	Note [2]	2	3	4	5	6	7	8

Note (1) Loss Figures are based on equivalent lengths of indicated pipe material.

Note (2) Loss Figures for screwed valves are based on equivalent lengths of steel pipe.

Pipe Friction Loss Charts 1-1/2"-2-1/2" I.D.

LOSS OF HEAD IN FEET DUE TO FRICTION PER 100 FEET OF PIPE														
1-1/2"					2"					2-1/2"				
Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID 1.61"	Steel C=100 ID 1.61"	Copper C=130 ID 1.60"	Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID 2.067"	Steel C=100 ID 2.067"	Copper C=130 ID 2.062"	Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID 2.469"	Steel C=100 ID 2.469"	Copper C=130 ID 2.50"
4	0.6	0.144	0.267	0.165	10	1.0	0.233	0.431	0.268	20	1.3	0.353	0.654	0.375
6	0.9	0.305	0.565	0.358	15	1.4	0.495	0.916	0.569	30	2.0	0.75	1.39	0.792
8	1.3	0.52	0.962	0.611	20	1.9	0.839	1.55	0.962	40	2.7	1.27	2.36	1.35
10	1.6	0.785	1.45	0.923	25	2.4	1.27	2.35	1.45	50	3.4	1.92	3.56	2.04
12	1.9	1.1	2.04	1.29	30	2.9	1.78	3.29	2.03	60	4.0	2.69	4.99	2.86
14	2.2	1.46	2.71	1.71	35	3.3	2.36	4.37	2.71	70	4.7	3.58	6.64	3.82
16	2.5	1.87	3.47	2.2	40	3.8	3.03	5.6	3.47	80	5.4	4.59	8.5	4.88
18	2.8	2.33	4.31	2.75	45	4.3	3.76	6.96	4.31	90	6.0	5.72	10.6	6.06
20	3.2	2.83	5.24	3.31	50	4.8	4.57	8.46	5.24	100	6.7	6.9	12.8	7.37
25	3.9	4.26	7.9	5	55	5.3	5.46	10.1	6.22	110	7.4	8.25	15.3	8.8
30	4.7	6	11.1	7	60	5.7	6.44	11.9	7.34	120	8.0	9.71	18	10.3
35	5.5	7.94	14.7	9.35	70	6.7	8.53	15.8	9.78	130	8.7	11.3	20.9	12
40	6.3	10.2	18.9	12	80	7.6	10.9	20.2	12.5	140	9.4	12.9	23.9	13.7
45	7.1	12.63	23.4	14.9	90	8.6	13.6	25.1	15.6	150	10.1	14.7	27.3	15.6
50	7.9	15.4	28.5	18.1	100	9.6	16.5	30.5	18.9	160	10.7	16.6	30.7	17.6
55	8.7	18.35	34	21.5	110	10.5	19.7	36.4	22.5	170	11.4	18.5	34.3	19.7
60	9.5	21.6	40	25.3	120	11.5	23.1	42.7	26.6	180	12.1	20.6	38.1	21.9
65	10.2	25.1	46.4	29	130	12.4	26.8	49.6	30.7	190	12.7	22.7	42.1	24.2
70	11.0	28.7	53.2	33.8	140	13.4	30.6	56.9	35.2	200	13.4	25	46.3	26.6
75	11.8	32.6	60.4	38	150	14.3	35	64.7	40.1	220	14.7	29.8	55.3	31.8
80	12.6	36.8	68.1	43.1	160	15.3	39.3	72.8	45.1	240	16.1	35.8	66.4	37.4
85	13.4	41.2	76.2	47.6	170	16.3	44	81.4	50.5	260	17.4	41.6	75.3	43.3
90	14.2	45.7	84.7	53.6	180	17.2	48.9	90.5	56.1	280	18.8	46.6	86.3	49.4
95	15.0	50.5	93.6	58.8	190	18.2	54	100	62	300	20.1	52.9	98.1	56.8
100	15.8	56.6	103	65.1	200	19.1	59.4	110	68					

NOTE: Recommended velocity is 5 FPS (feet per second) with a maximum of 7 FPS.

Note (1) Loss Figures are based on equivalent lengths of indicated pipe material

Note (2) Loss Figures for screwed valves based on equivalent lengths of steel pipe.

Cable Selection Guide Hitachi® 6"-8" Submersible Motors

CABLE SELECTION																				60° C				
COPPER CABLE SIZE - From Control Box to Motor (in feet)																								
MOTOR																								
VOLTS / HZ	HP	KW	FUSE		AWG														MCM					
			STD	Dual Element	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500		
THREE PHASE																								
230 V 60 Hz	5	4	45	25	149	237	378	598	931	1484	1865	2356	2967	3746	4726	5966	7516	8873						
	8	6	60	35	-	-	247	391	609	970	1220	1540	1940	2449	3090	3901	4914	5802	6965	8142	9308			
	10	8	80	45	-	-	-	308	479	764	961	1213	1529	1930	2434	3073	3872	4571	5488	6415	7334	9125		
	15	11	125	70	-	-	-	221	344	548	689	871	1097	1384	1746	2205	2778	3279	3937	4602	5261	6546		
	20	15	150	90	-	-	-	-	264	420	528	667	841	1061	1339	1690	2130	2514	3018	3528	4034	5019		
	25	19	200	100	-	-	-	-	-	332	417	527	664	838	1057	1334	1681	1985	2383	2785	3184	3962		
	30	22	225	125	-	-	-	-	-	-	337	426	537	677	855	1079	1359	1605	1926	2252	2575	3203		
	40*	30	300	175	-	-	-	-	-	-	-	328	413	522	659	831	1047	1236	1484	1735	1984	2468		
460 V 60 Hz	5	4	20	10	595	947	1511	2393	3723	5935	7461	9422												
	8	6	30	15	389	619	988	1564	2434	3880	4878	6161	7761	9797										
	10	8	40	20	307	488	778	1233	1918	3057	3844	4854	6115	7719	9738									
	15	11	60	30	-	350	558	884	1376	2193	2757	3482	4387	5537	6986	8819								
	20	15	80	45	-	-	428	678	1055	1682	2114	2670	3363	4245	5356	6761	8518							
	25	19	100	50	-	-	-	535	833	1328	1669	2108	2655	3351	4228	5338	6725	7939	9531					
	30	22	110	60	-	-	-	433	673	1073	1349	1704	2147	2710	3419	4316	5437	6419	7706	9008				
	40	30	150	80	-	-	-	-	519	827	1040	1313	1654	2088	2634	3325	4189	4946	5937	6940	7935	9873		
	40*	30	150	80	-	-	-	-	502	801	1007	1271	1601	2022	2550	3220	4056	4789	5749	6720	7683	9559		
	50	37	175	100	-	-	-	-	-	639	803	1014	1277	1612	2034	2568	3235	3819	4585	5359	6127	7623		
	50*	37	175	100	-	-	-	-	-	691	869	1097	1382	1745	2201	2779	3501	4133	4961	5799	6631	8250		
	60	45	225	125	-	-	-	-	-	-	675	852	1073	1355	1709	2158	2719	3210	3853	4504	5149	6407		
	60*	45	225	125	-	-	-	-	-	-	705	890	1121	1415	1785	2254	2839	3352	4024	4704	5378	6691		
	75	55	250	150	-	-	-	-	-	-	-	735	926	1168	1474	1861	2344	2768	3323	3884	4441	5525		
	100	75	350	200	-	-	-	-	-	-	-	-	-	-	878	1108	1399	1762	2081	2498	2920	3338	4153	
	125	93	450	250	-	-	-	-	-	-	-	-	-	-	-	893	1127	1420	1676	2012	2352	2689	3346	
	150	111	500	275	-	-	-	-	-	-	-	-	-	-	-	-	-	1162	1371	1646	1924	2200	2737	

Lengths only meet the US National Electrical Code ampacity requirements for individual conductors rated 60° C in free air or water, NOT in magnetic enclosures, conduit or direct buried. Refer to NEC Table 310.15(B)(17) for more information.

* = motors are 8" diameter

Cable Selection Guide Hitachi® 6"-8" Submersible Motors

CABLE SELECTION																							75° C	
COPPER CABLE SIZE - From Control Box to Motor (in feet)																								
MOTOR					AWG														MCM					
VOLTS / HZ	HP	KW	FUSE																					
			STD	Dual Element	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500		
THREE PHASE																								
230 V 60 Hz	5	4	45	25	149	237	378	598	931	1484	1865	2356	2967	3746	4726	5966	7516	8873						
	8	6	60	35	-	155	247	391	609	970	1220	1540	1940	2449	3090	3901	4914	5802	6965	8142	9308			
	10	8	80	45	-	-	195	308	479	764	961	1213	1529	1930	2434	3073	3872	4571	5488	6415	7334	9125		
	15	11	125	70	-	-	-	221	344	548	689	871	1097	1384	1746	2205	2778	3279	3937	4602	5261	6546		
	20	15	150	90	-	-	-	-	264	420	528	667	841	1061	1339	1690	2130	2514	3018	3528	4034	5019		
	25	19	200	100	-	-	-	-	208	332	417	527	664	838	1057	1334	1681	1985	2383	2785	3184	3962		
	30	22	225	125	-	-	-	-	-	268	337	426	537	677	855	1079	1359	1605	1926	2252	2575	3203		
	40*	30	300	175	-	-	-	-	-	-	-	328	413	522	659	831	1047	1236	1484	1735	1984	2468		
460 V 60 Hz	5	4	20	10	595	947	1511	2393	3723	5935	7461	9422												
	8	6	30	15	389	619	988	1564	2434	3880	4878	6161	7761	9797										
	10	8	40	20	307	488	778	1233	1918	3057	3844	4854	6115	7719	9738									
	15	11	60	30	220	350	558	884	1376	2193	2757	3482	4387	5537	6986	8819								
	20	15	80	45	-	-	428	678	1055	1682	2114	2670	3363	4245	5356	6761	8518							
	25	19	100	50	-	-	338	535	833	1328	1669	2108	2655	3351	4228	5338	6725	7939	9531					
	30	22	110	60	-	-	-	433	673	1073	1349	1704	2147	2710	3419	4316	5437	6419	7706	9008				
	40	30	150	80	-	-	-	-	519	827	1040	1313	1654	2088	2634	3325	4189	4946	5937	6940	7935	9873		
	40*	30	150	80	-	-	-	-	502	801	1007	1271	1601	2022	2550	3220	4056	4789	5749	6720	7683	9559		
	50	37	175	100	-	-	-	-	-	639	803	1014	1277	1612	2034	2568	3235	3819	4585	5359	6127	7623		
	50*	37	175	100	-	-	-	-	433	691	869	1097	1382	1745	2201	2779	3501	4133	4961	5799	6631	8250		
	60	45	225	125	-	-	-	-	-	537	675	852	1073	1355	1709	2158	2719	3210	3853	4504	5149	6407		
	60*	45	225	125	-	-	-	-	-	561	705	890	1121	1415	1785	2254	2839	3352	4024	4704	5378	6691		
	75	55	250	150	-	-	-	-	-	-	582	735	926	1168	1474	1861	2344	2768	3323	3884	4441	5525		
	100	75	350	200	-	-	-	-	-	-	-	-	-	696	878	1108	1399	1762	2081	2498	2920	3338	4153	
	125	93	450	250	-	-	-	-	-	-	-	-	-	-	708	893	1127	1420	1676	2012	2352	2689	3346	
	150	111	500	275	-	-	-	-	-	-	-	-	-	-	-	-	922	1162	1371	1646	1924	2200	2737	

Lengths only meet the US National Electrical Code ampacity requirements for individual conductors rated 75° C in free air or water, NOT in magnetic enclosures, conduit or direct buried. Refer to NEC Table 310.15(B)(17) for more information.

* = motors are 8" diameter

Cable Selection Guide Hitachi® 6"-8" Submersible Motors

CABLE SELECTION																					60° C			
COPPER CABLE SIZE - From Control Box to Motor (in feet)																								
MOTOR																								
VOLTS	HP	KW	FUSE		AWG													MCM						
			STD	Dual Element	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500		
THREE PHASE																								
230 V 60 Hz	5	4	45	25	-	-	378	598	931	1484	1865	2356	2967	3746	4726	5966	7516	8873						
	8	6	60	35	-	-	-	391	609	970	1220	1540	1940	2449	3090	3901	4914	5802	6965	8142	9308			
	10	8	80	45	-	-	-	-	479	764	961	1213	1529	1930	2434	3073	3872	4571	5488	6415	7334	9125		
	15	11	125	70	-	-	-	-	-	548	689	871	1097	1384	1746	2205	2778	3279	3937	4602	5261	6546		
	20	15	150	90	-	-	-	-	-	-	528	667	841	1061	1339	1690	2130	2514	3018	3528	4034	5019		
	25	19	200	100	-	-	-	-	-	-	-	527	664	838	1057	1334	1681	1985	2383	2785	3184	3962		
	30	22	225	125	-	-	-	-	-	-	-	-	-	-	677	855	1079	1359	1605	1926	2252	2575	3203	
	40*	30	300	175	-	-	-	-	-	-	-	-	-	-	-	831	1047	1236	1484	1735	1984	2468		
460 V 60 Hz	5	4	20	10	595	947	1511	2393	3723	5935	7461	9422												
	8	6	30	15	-	619	988	1564	2434	3880	4878	6161	7761	9797										
	10	8	40	20	-	-	778	1233	1918	3057	3844	4854	6115	7719	9738									
	15	11	60	30	-	-	558	884	1376	2193	2757	3482	4387	5537	6986	8819								
	20	15	80	45	-	-	-	678	1055	1682	2114	2670	3363	4245	5356	6761	8518							
	25	19	100	50	-	-	-	-	833	1328	1669	2108	2655	3351	4228	5338	6725	7939	9531					
	30	22	110	60	-	-	-	-	-	1073	1349	1704	2147	2710	3419	4316	5437	6419	7706	9008				
	40	30	150	80	-	-	-	-	-	-	1040	1313	1654	2088	2634	3325	4189	4946	5937	6940	7935	9873		
	40*	30	150	80	-	-	-	-	-	-	1007	1271	1601	2022	2550	3220	4056	4789	5749	6720	7683	9559		
	50	37	175	100	-	-	-	-	-	-	-	-	1277	1612	2034	2568	3235	3819	4585	5359	6127	7623		
	50*	37	175	100	-	-	-	-	-	-	-	1097	1382	1745	2201	2779	3501	4133	4961	5799	6631	8250		
	60	45	225	125	-	-	-	-	-	-	-	-	-	1355	1709	2158	2719	3210	3853	4504	5149	6407		
	60*	45	225	125	-	-	-	-	-	-	-	-	-	1415	1785	2254	2839	3352	4024	4704	5378	6691		
	75	55	250	150	-	-	-	-	-	-	-	-	-	-	1474	1861	2344	2768	3323	3884	4441	5525		
	100	75	350	200	-	-	-	-	-	-	-	-	-	-	-	-	1762	2081	2498	2920	3338	4153		
	125	93	450	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2012	2352	2689	3346		
	150	111	500	275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2200	2737	

Lengths meet the US National Electrical Code ampacity requirements for either individual conductors or jacketed rated 60° C cable and can be in conduit or direct buried. Flat molded and web/ribbon cable are considered jacketed cable. Refer to NEC Table 310.15(B)(16) for more information.

* = motors are 8" diameter

Cable Selection Guide Hitachi® 6"-8" Submersible Motors

CABLE SELECTION																				75° C				
COPPER CABLE SIZE - From Control Box to Motor (in feet)																								
MOTOR																								
VOLTS	HP	KW	FUSE		AWG															MCM				
			STD	Dual Element	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500		
THREE PHASE																								
230 V 60 Hz	5	4	45	25	-	237	378	598	931	1484	1865	2356	2967	3746	4726	5966	7516	8873						
	8	6	60	35	-	-	247	391	609	970	1220	1540	1940	2449	3090	3901	4914	5802	6965	8142	9308			
	10	8	80	45	-	-	-	308	479	764	961	1213	1529	1930	2434	3073	3872	4571	5488	6415	7334	9125		
	15	11	125	70	-	-	-	-	344	548	689	871	1097	1384	1746	2205	2778	3279	3937	4602	5261	6546		
	20	15	150	90	-	-	-	-	-	420	528	667	841	1061	1339	1690	2130	2514	3018	3528	4034	5019		
	25	19	200	100	-	-	-	-	-	-	417	527	664	838	1057	1334	1681	1985	2383	2785	3184	3962		
	30	22	225	125	-	-	-	-	-	-	-	-	537	677	855	1079	1359	1605	1926	2252	2575	3203		
	40*	30	300	175	-	-	-	-	-	-	-	-	-	-	659	831	1047	1236	1484	1735	1984	2468		
460 V 60 Hz	5	4	20	10	595	947	1511	2393	3723	5935	7461	9422												
	8	6	30	15	389	619	988	1564	2434	3880	4878	6161	7761	9797										
	10	8	40	20	-	488	778	1233	1918	3057	3844	4854	6115	7719	9738									
	15	11	60	30	-	-	558	884	1376	2193	2757	3482	4387	5537	6986	8819								
	20	15	80	45	-	-	-	678	1055	1682	2114	2670	3363	4245	5356	6761	8518							
	25	19	100	50	-	-	-	535	833	1328	1669	2108	2655	3351	4228	5338	6725	7939	9531					
	30	22	110	60	-	-	-	-	673	1073	1349	1704	2147	2710	3419	4316	5437	6419	7706	9008				
	40	30	150	80	-	-	-	-	-	827	1040	1313	1654	2088	2634	3325	4189	4946	5937	6940	7935	9873		
	40*	30	150	80	-	-	-	-	-	801	1007	1271	1601	2022	2550	3220	4056	4789	5749	6720	7683	9559		
	50	37	175	100	-	-	-	-	-	-	803	1014	1277	1612	2034	2568	3235	3819	4585	5359	6127	7623		
	50*	37	175	100	-	-	-	-	-	-	869	1097	1382	1745	2201	2779	3501	4133	4961	5799	6631	8250		
	60	45	225	125	-	-	-	-	-	-	-	-	1073	1355	1709	2158	2719	3210	3853	4504	5149	6407		
	60*	45	225	125	-	-	-	-	-	-	-	890	1121	1415	1785	2254	2839	3352	4024	4704	5378	6691		
	75	55	250	150	-	-	-	-	-	-	-	-	-	1168	1474	1861	2344	2768	3323	3884	4441	5525		
	100	75	350	200	-	-	-	-	-	-	-	-	-	-	-	1399	1762	2081	2498	2920	3338	4153		
	125	93	450	250	-	-	-	-	-	-	-	-	-	-	-	-	1420	1676	2012	2352	2689	3346		
	150	111	500	275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1646	1924	2200	2737		

Lengths meet the US National Electrical Code ampacity requirements for either individual conductors or jacketed rated 75° C cable and can be in conduit or direct buried. Flat molded and web/ribbon cable are considered jacketed cable. Refer to NEC Table 310.15(B)(16) for more information.

* = motors are 8" diameter

Cable Selection Guide Pentek® 6" Submersible Motors

CABLE SELECTION																					60° C			
COPPER CABLE SIZE - From Control Box to Motor (in feet)																								
MOTOR					AWG													MCM						
VOLTS / HZ	HP	KW	FUSE																					
			STD	Dual Element	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500		
THREE PHASE																								
230 V 60 Hz	5	3.7	45	25	154	245	391	620	965	1538	1933	2442	3076	3883	4899	6184	7791	9198						
	7.5	5.5	60	40	-	174	277	438	682	1087	1367	1726	2174	2745	3463	4372	5508	6502	7806	9124				
	10	7.5	90	50	-	-	-	308	479	764	961	1213	1529	1930	2434	3073	3872	4571	5488	6415	7334	9125		
	15	11	125	80	-	-	-	216	337	537	675	852	1073	1355	1709	2158	2719	3210	3853	4504	5149	6407		
	20	15	175	110	-	-	-	-	251	400	503	636	801	1011	1275	1610	2028	2394	2874	3360	3842	4780		
	25	18.5	225	125	-	-	-	-	-	332	417	527	664	838	1057	1334	1681	1985	2383	2785	3184	3962		
30	22	250	125	-	-	-	-	-	-	373	471	593	749	945	1193	1503	1775	2130	2490	2847	3543			
460 V 60 Hz or 380 V 50 Hz	5	3.7	20	10	617	982	1566	2480	3859	6152	7734	9767												
	7.5	5.5	30	20	436	694	1107	1753	2728	4349	5467	6904	8698											
	10	7.5	45	25	307	488	778	1233	1918	3057	3844	4854	6115	7719	9738									
	15	11	70	40	-	343	546	865	1347	2147	2699	3408	4293	5419	6837	8631								
	20	15	90	50	-	-	408	646	1005	1601	2013	2543	3203	4043	5101	6439	8113	9578						
	25	18.5	110	60	-	-	-	535	833	1328	1669	2108	2655	3351	4228	5338	6725	7939	9531					
	30	22	125	70	-	-	-	479	745	1187	1492	1884	2374	2997	3781	4773	6013	7099	8522	9961				
	40	30	150	100	-	-	-	-	546	870	1093	1381	1740	2196	2770	3497	4406	5202	6244	7299	8345			

Lengths only meet the US National Electrical Code ampacity requirements for individual conductors rated 60° C in free air or water, NOT in magnetic enclosures, conduit or direct buried. Refer to NEC Table 310.15(B)(17) for more information.

CABLE SELECTION																					75° C			
COPPER CABLE SIZE - From Control Box to Motor (in feet)																								
MOTOR																								
VOLTS / HZ	HP	KW	FUSE		AWG														MCM					
			STD	Dual Element	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500		
THREE PHASE																								
230 V 60 Hz	5	3.7	45	25	-	245	391	620	965	1538	1933	2442	3076	3883	4899	6184	7791	9198						
	7.5	5.5	60	40	-	-	277	438	682	1087	1367	1726	2174	2745	3463	4372	5508	6502	7806	9124				
	10	7.5	90	50	-	-	-	308	479	764	961	1213	1529	1930	2434	3073	3872	4571	5488	6415	7334	9125		
	15	11	125	80	-	-	-	-	337	537	675	852	1073	1355	1709	2158	2719	3210	3853	4504	5149	6407		
	20	15	175	110	-	-	-	-	-	400	503	636	801	1011	1275	1610	2028	2394	2874	3360	3842	4780		
	25	18.5	225	125	-	-	-	-	-	-	417	527	664	838	1057	1334	1681	1985	2383	2785	3184	3962		
	30	22	250	125	-	-	-	-	-	-	-	471	593	749	945	1193	1503	1775	2130	2490	2847	3543		
460 V 60 Hz or 380 V 50 Hz	5	3.7	20	10	617	982	1566	2480	3859	6152	7734	9767												
	7.5	5.5	30	20	436	694	1107	1753	2728	4349	5467	6904	8698											
	10	7.5	45	25	-	488	778	1233	1918	3057	3844	4854	6115	7719	9738									
	15	11	70	40	-	-	546	865	1347	2147	2699	3408	4293	5419	6837	8631								
	20	15	90	50	-	-	-	646	1005	1601	2013	2543	3203	4043	5101	6439	8113	9578						
	25	18.5	110	60	-	-	-	535	833	1328	1669	2108	2655	3351	4228	5338	6725	7939	9531					
	30	22	125	70	-	-	-	-	745	1187	1492	1884	2374	2997	3781	4773	6013	7099	8522	9961				
	40	30	150	100	-	-	-	-	-	870	1093	1381	1740	2196	2770	3497	4406	5202	6244	7299	8345			

Lengths only meet the US National Electrical Code ampacity requirements for individual conductors rated 75° C in free air or water, NOT in magnetic enclosures, conduit or direct buried. Refer to NEC Table 310.15(B)(17) for more information.

Cable Selection Guide Pentek® 6" Submersible Motors

CABLE SELECTION																				60° C				
COPPER CABLE SIZE - From Control Box to Motor (in feet)																								
MOTOR					AWG													MCM						
VOLTS	HP	KW	FUSE	Dual Element																				
			STD		14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500		
THREE PHASE																								
230 V 60 Hz	5	3.7	45	25	-	-	391	620	965	1538	1933	2442	3076	3883	4899	6184	7791	9198						
	7.5	5.5	60	40	-	-	277	438	682	1087	1367	1726	2174	2745	3463	4372	5508	6502	7806	9124				
	10	7.5	90	50	-	-	-	-	479	764	961	1213	1529	1930	2434	3073	3872	4571	5488	6415	7334	9125		
	15	11	125	80	-	-	-	-	-	537	675	852	1073	1355	1709	2158	2719	3210	3853	4504	5149	6407		
	20	15	175	110	-	-	-	-	-	-	503	636	801	1011	1275	1610	2028	2394	2874	3360	3842	4780		
	25	18.5	225	125	-	-	-	-	-	-	-	527	664	838	1057	1334	1681	1985	2383	2785	3184	3962		
	30	22	250	125	-	-	-	-	-	-	-	-	593	749	945	1193	1503	1775	2130	2490	2847	3543		
460 V 60 Hz or 380 V 50 Hz	5	3.7	20	10	617	982	1566	2480	3859	6152	7734	9767												
	7.5	5.5	30	20	436	694	1107	1753	2728	4349	5467	6904	8698											
	10	7.5	45	25	-	-	778	1233	1918	3057	3844	4854	6115	7719	9738									
	15	11	70	40	-	-	546	865	1347	2147	2699	3408	4293	5419	6837	8631								
	20	15	90	50	-	-	-	646	1005	1601	2013	2543	3203	4043	5101	6439	8113	9578						
	25	18.5	110	60	-	-	-	-	833	1328	1669	2108	2655	3351	4228	5338	6725	7939	9531					
	30	22	125	70	-	-	-	-	745	1187	1492	1884	2374	2997	3781	4773	6013	7099	8522	9961				
	40	30	150	100	-	-	-	-	-	-	1093	1381	1740	2196	2770	3497	4406	5202	6244	7299	8345			

Lengths meet the US National Electrical Code ampacity requirements for either individual conductors or jacketed rated 60° C cable and can be in conduit or direct buried. Flat molded and web/ribbon cable are considered jacketed cable. Refer to NEC Table 310.15(B)(16) for more information.

* = motors are 8" diameter

CABLE SELECTION																					75° C			
COPPER CABLE SIZE - From Control Box to Motor (in feet)																								
MOTOR																								
			FUSE		AWG														MCM					
				Dual																				
VOLTS	HP	KW	STD	Element	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500		
THREE PHASE																								
230 V 60 Hz	5	3.7	45	25	-	245	391	620	965	1538	1933	2442	3076	3883	4899	6184	7791	9198						
	7.5	5.5	60	40	-	-	277	438	682	1087	1367	1726	2174	2745	3463	4372	5508	6502	7806	9124				
	10	7.5	90	50	-	-	-	308	479	764	961	1213	1529	1930	2434	3073	3872	4571	5488	6415	7334	9125		
	15	11	125	80	-	-	-	-	337	537	675	852	1073	1355	1709	2158	2719	3210	3853	4504	5149	6407		
	20	15	175	110	-	-	-	-	-	400	503	636	801	1011	1275	1610	2028	2394	2874	3360	3842	4780		
	25	18.5	225	125	-	-	-	-	-	-	417	527	664	838	1057	1334	1681	1985	2383	2785	3184	3962		
	30	22	250	125	-	-	-	-	-	-	471	593	749	945	1193	1503	1775	2130	2490	2847	3543			
460 V 60 Hz or 380 V 50 H	5	3.7	20	10	617	982	1566	2480	3859	6152	7734	9767												
	7.5	5.5	30	20	436	694	1107	1753	2728	4349	5467	6904	8698											
	10	7.5	45	25	-	488	778	1233	1918	3057	3844	4854	6115	7719	9738									
	15	11	70	40	-	-	546	865	1347	2147	2699	3408	4293	5419	6837	8631								
	20	15	90	50	-	-	-	646	1005	1601	2013	2543	3203	4043	5101	6439	8113	9578						
	25	18.5	110	60	-	-	-	535	833	1328	1669	2108	2655	3351	4228	5338	6725	7939	9531					
	30	22	125	70	-	-	-	-	745	1187	1492	1884	2374	2997	3781	4773	6013	7099	8522	9961				
	40	30	150	100	-	-	-	-	-	870	1093	1381	1740	2196	2770	3497	4406	5202	6244	7299	8345			

Lengths meet the US National Electrical Code ampacity requirements for either individual conductors or jacketed rated 75° C cable and can be in conduit or direct buried. Flat molded and web/ribbon cable are considered jacketed cable. Refer to NEC Table 310.15(B)(16) for more information.

Limited Warranty

Myers® warrants to the original consumer purchaser (“Purchaser” or “You”) of the products listed below, that they will be free from defects in material and workmanship for the Warranty Period shown below.

PRODUCT	WARRANTY PERIOD
Water Systems Products — jet pumps, small centrifugal pumps, submersible pumps and related accessories	Whichever occurs first: 12 months from date of original installation, or 18 months from date of manufacture
Pro-Source™ Composite Tanks	5 years from date of original installation
Pro-Source Steel Pressure Tanks	5 years from date of original installation
Pro-Source Epoxy-Lined Tanks	3 years from date of original installation
Sump/Sewage/Effluent Products	24 months from date of original installation

Our warranty will not apply to any product that, in our sole judgement, has been subject to negligence, misapplication, improper installation, or improper maintenance. Without limiting the foregoing, operating a three phase motor with single phase power through a phase converter will void the warranty. Note also that three phase motors must be protected by three-leg, ambient compensated, extra-quick trip overload relays of the recommended size or the warranty is void.

Your only remedy, and Myers's only duty, is that Myers repair or replace defective products (at Myer's choice). You must pay all labor and shipping charges associated with this warranty and must request warranty service through the installing dealer as soon as a problem is discovered. No request for service will be accepted if received after the Warranty Period has expired. This warranty is not transferable.

MYERS SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR CONTINGENT DAMAGES WHATSOEVER.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE FOREGOING WARRANTIES SHALL NOT EXTEND BEYOND THE DURATION EXPRESSLY PROVIDED HEREIN.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on the duration of an implied warranty, so the above limitations or exclusions may not apply to You. This warranty gives You specific legal rights and You may also have other rights which vary from state to state.

This warranty supersedes and replaces all previous warranty publications.



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