

RESIDENTIAL WATER SYSTEMS PUMPS, TANKS AND CONTROLS

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For Over 80 Years, Berkeley® Pumps Continue to Deliver Better Performance!

Since 1937, when Berkeley pumps were first used to irrigate the fertile fields of the San Joaquin Valley of Central California, the Berkeley name has stood for uncompromising reliability and superior performance.

We've remained true to our tradition by adding the superior technology of Pentek motors and controls to our MS and JP Series 4" submersible pumps. Pentek engineering raises the performance bar, making our submersible well product lines an even smarter choice for efficiency and quiet, dependable operation.

We never relax in our dedication to finding better ways to serve our customers.



MS Series 4" Submersibles feature the exceptional reliability of Pentek XE Series motors and draw up to 22% fewer amps!

3-wire XE Series motors installed with a Pentek SMC-CR Control Box draw up to 22% fewer amps!

Pentek XE Series motors feature patented toroidal capacitors to reduce vibration and noise.

Pumps fitted with XE Series motors are factory tested to meet or exceed CSA/CUS safety certifications.



Berkeley Limited Warranty

BERKELEY warrants to the original consumer of the products listed below that they will be free from defects in material and workmanship for the Warranty Period from the date of original installation or manufacture as noted.

Our warranty will not apply to any product that has been subject to negligence, misapplication, improper installation or maintenance. In the event a three-phase submersible motor is operated with single-phase power through a phase converter, or if three-leg ambient compensated, extra-quick trip overload relays of recommended size are not used, our warranty is void.

Buyer's only remedy and BERKELEY's only duty is to repair or replace defective products (at BERKELEY's choice). Buyer agrees to pay all labor and shipping charges associated with this warranty and to request warranty service through the installing dealer as soon as a problem is discovered. If warranty service is requested more than 30 days after the Warranty Period has ended, it will not be honored. Warranty is not transferable.

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

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

Certain states do not permit the exclusion or limitation of incidental or consequential damages or the placing of limitations on the duration of an implied warranty; therefore the limitations or exclusions herein may not apply. This warranty sets forth specific legal rights and obligations; however, additional rights may exist, which may vary from state to state.

Supersedes all previous publications.

Product	Warranty Period
Water System Products – jet pumps, small centrifugal pumps, submersible pumps and related accessories	12 months from date of original installation; Extended Warranty available through Pentair Pro Dealer program
PRO-SOURCE® Composite Fibrewound Pressure Tanks or PRO-SOURCE Composite Contact Tanks	5 years from date of original installation
PRO-SOURCE Steel Pressure Tanks PRO-SOURCE Plus Steel Pressure Tanks	5 years from date of original installation
PRO-SOURCE Epoxy-Lined Air-Over-Water Tanks	3 years from date of original installation

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IMPORTANT NOTES

Specifications and/or materials are subject to change without notice. Dimensions are for estimating purposes only.

Products are tested and rated in accordance with Water Systems Council Standards.

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Product Selection Guide











PENTEK® MOT	ORS AND CONTROLS				
PRODUCT TYPE	4" SUBMERSIBLE MOTORS	SUBMERSIBLE MOTOR CONTROLS	6" SUBMERSIBLE MOTORS	CONSTANT PRESSURE CONTROLLER	SINGLE-PHASE MOTOR PROTECTORS
APPLICATION	Water systems for residential, industrial, commercial, multiple housing and farm clean water use	Water systems for residential, industrial, commercial, multiple housing and farm clean water use	Water systems for residential, industrial, commercial, multiple housing and farm clean water use	Residential, commercial and irrigation constant pressure systems	Water systems for residential, industrial, commercial, multiple housing and farm clean water use
DESCRIPTION	Single- and three-phase 4" submersible high thrust motor	Single-phase motor controls for submersible applications	Single- and three- phase 6" submersible motor	Constant pressure controller for below and above ground applications	Single-phase motor protectors for submersible applications
MATERIALS	Stainless steel construction	NEMA 3R Enclosure	Stainless steel and epoxy-coated cast iron	NEMA 1, NEMA 3R, and NEMA 4X Enclosures Available	NEMA 3R Enclosure
PERFORMANCE					
Capacity	N/A	N/A	N/A	N/A	N/A
Head	N/A	N/A	N/A	N/A	N/A
SUCTION/ DISCHARGE	N/A	N/A	N/A	N/A	N/A
HORSEPOWER	1/2 to 10 HP	1/2 to 15 HP	5 to 50 HP	1/2 to 150 HP	1/3 to 15 HP
SERIES	XE	SMC	XE-6	PID, XL	SPP

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Product Selection Guide



PRODUCT TYPE	SELF-PRIMING SHALLOW WELL AND CONVERTIBLE JET	VERTICAL SINGLE & MULTI-STAGE AND SELF-PRIMING HORIZONTAL MULTI- STAGE DEEP WELL JET	SMALL, STRAIGHT CENTRIFUGAL	SELF-PRIMING CENTRIFUGAL	HIGH PRESSURE BOOSTER PUMPS
APPLICATION	Residential and general water supply systems booster, and light irrigation	General water supply, booster and light irrigation for 2", 3" and 4" or larger water wells	General purpose, process, booster and liquid transfer	Lawn sprinkling, light irrigation, general dewatering and sump drainage, liquid transfer	General purpose booster, warm and cold water wash down, cleaning
DESCRIPTION	Threaded connections Motor-drive Mechanical seal Back pull-out design Convertible to deep well use	Threaded connections Motor-drive Mechanical seals	Threaded connections Motor-drive, ODP and TEFC Mechanical seals – standard and high temperature Back pull-out design 4-position discharge	Fast priming Threaded connections Motor- and engine- drive Portable or permanent installation Mechanical seals Back pull-out design	Threaded connections Motor-drive Mechanical seals ODP and TEFC motors
MATERIALS	Cast iron or fiberglass reinforced thermoplastic with thermoplastic impellers	Cast iron with thermoplastic impellers	Cast iron with bronze (high temperature) or thermoplastic impellers	Cast iron or fiberglass reinforced thermoplastic with bronze, cast iron or thermoplastic impellers	Signature 2000® – Stainless steel or cast iron construction with thermo- plastic impel- lers/diffusers
PERFORMANCE	T	I		I	
Capacity	To 45 GPM	To 55 GPM	To 260 GPM	To 240 GPM	To 40 GPM
Head	To 160 TDH/ft.	To 325 TDH/ft.	To 140 TDH/ft.	To 160 TDH/ft.	To 690 TDH/ft.
SUCTION/ DISCHARGE	1" to 1-1/4" 3/4" to 1"	1-1/4" suction, 1" drive 1"	1-1/4" to 2-1/2" 1" to 2"	1" to 3" 1" to 2-1/2"	3/4" to 1-1/4" 1" to 1-1/2"
HORSEPOWER	1/3 to 1-1/2 HP	1/2 to 2 HP	1/3 to 5 HP	1/2 to 5 HP	1/2 to 3 HP
SERIES	SN, HN, FN, PN, SL, HL, FL, PL	SSJ, MS, HMS	J/JB, CC	D, DS3, EDD, DPC, PD	HP, HPS

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Product Selection Guide











			WATER SYSTEMS TA	NKS
6" STAINLESS STEEL SUBMERSIBLE TURBINE	4" SUBMERSIBLE	PRO-SOURCE® COMPOSITE PRESSURIZED FIBREWOUND	PRO-SOURCE PRO-SOURCE PLUS PRESSURIZED STEEL	PRO-SOURCE COMPOSITE CONTACT & SIDEPORT CONTACT "AIR OVER WATER" STEEL
General water supply, irrigation, booster, sump, circulation, dewatering	General water supply, booster, sump, circulation, and irrigation	General water storage and transfer	General water storage and transfer	General water storage and transfer
Crimped and threaded connections Completely submerged sealed motor coupled to pump	Threaded connections Completely submerged sealed motor 2 and 3 wire	Pre-pressurized composite well tank CSA Classified to ANSI/NSF 61 Field serviceable	Pre-pressurized steel well tank CSA Classified to ANSI/NSF 61	Air over water standard tank
All stainless steel construction	Signature 2000® – Stainless steel and composite construction with thermoplastic impellers/diffusers 70 GPM Series – Cast iron bowls with thermoplastic impellers 75 GPM and 90 GPM High-Flo Series	Pressure vessel: polyethylene Exterior: continuous, overlapping fiberglass strands, sealed with high-grade epoxy resin, then oven-cured	Pressure vessel: steel Exterior: baked-on powder polyester paint Water separator: PVC	Pressure vessel: steel Exterior: baked-on powder polyester paint Interior: baked-on epoxy paint
To 365 GPM To 1400 TDH/ft.	To 125 GPM To 1900 TDH/ft.	Physical Capacity: 14 - 119 gallons Drawdown: 5.3 - 43.8 gallons Maximum operating pressure: 125 PSI	Physical Capacity: 2 - 119 gallons Drawdown: 0.7 - 41.3 gallons Maximum operating pressure: 125 PSI	Physical Capacity: 30 - 264 gallons Drawdown: 7 - 50 gallons Maximum operating pressure: 100 PSI
3" to 4"	1-1/4" to 2"	1" to 1-1/4" NPT	3/4" to 1-1/4" NPT	1-1/4" NPT
1 to 60 HP	1/2 to 10 HP	N/A	N/A	N/A
Berkeley	Signature 2000 Series, 70 GPM Series and 90 GPM Series	Pro-Source Composite	Pro-Source Plus	Pro-Source Composite

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Stainless steel, 5 and 7 GPM TrimLine™





Precision-engineered, high-quality, rugged Stainless Steel Series Pumps deliver efficient, dependable performance even in rough, aggressive water.

The TrimLine™ 5 and 7 GPM Series Pumps are 3-3/4" maximum 0.D. Heads to 1,150 feet and capacities to 10.5 GPM. Built to deliver long-term, trouble-free service. Floating impeller design resists sand and reduces sand locking. These pumps feature the proven SignaSeal™ staging system.

APPLICATIONS

Water systems...for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Shell: Stainless steel
Discharge: Stainless steel
Discharge Bearing: Nylatron®

Intermediate Bearing: (On larger units) polycarbonate, nitrile rubber and

stainless steel

Impellers: Acetal

Diffusers: Polycarbonate

Suction Caps: Polycarbonate with

stainless steel insert

Thrust Pads: Proprietary spec.
Shaft and Coupling: Stainless steel

Intake: Stainless steel

Intake Screen: Stainless steel
Cable Guard: Stainless steel
Agency Listings: CSA
Check Valve: Acetal

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FEATURES

Proven Staging System: Our proven SignaSeal staging system incorporates a harder-than-sand ceramic wear surface that when incorporated with our floating impeller design, greatly reduces problems with abrasives, sand lock-up and running dry.

Discharge: Corrosion-resistant 300 grade stainless steel for durability in aggressive water. Large octagon wrench area for ease of installation.

Discharge Bearing: Exclusive selflubricating Nylatron bearing resists wear from sand.

Intake: Corrosion-resistant 300 grade stainless steel for durability in aggressive water.

Shaft: Positive drive from 7/16" hexagonal heavy-duty 300 grade stainless steel.

Coupling: Stainless steel press fit to pump shaft. Couples to all standard NEMA motors.

Shell: Heavy-walled corrosion-resistant 300 grade stainless steel. Threaded for easy servicing.

Hardware: All screws, washers and nuts are corrosion-resistant 300 grade stainless steel.

Check Valve: Durable internal springloaded check valve.

Cable Guard: Corrosion-resistant stainless steel guard protects motor leads. Tapered ends prevent pump from catching on well.

Intake Screen: Corrosion-proof stainless steel.

Pentek® XE Series™ Motor:

2 and 3 wire NEMA standard all stainless construction water-filled motors.

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Stainless steel, 5 and 7 GPM TrimLine™

						ASSEM	BLED PU	IMP	P	UMP END)	мот	OR	CONTRO	L BOX
РМ	MOTOR TYPE	НР	STGS.	PH [†]	VOLT	CATALOG NUMBER	LENGTH IN.*	WEIGHT LBS.*	CATALOG NUMBER	LENGTH IN.*	WEIGHT LBS.*	CATALOG NUMBER	WEIGHT LBS.*	CATALOG NUMBER	WEIGHT
		1/2	14	1	115	B5P4MS05121	28	28	L5P4CMGS	18	12	P42B0005A1	19		
		1/2	14	1	230	B5P4MS05221	28	28	L5P4CMGS	18	12	P42B0005A2	19		
	2 WIRE	3/4	19	1	230	B5P4MS07221	33	34	L5P4DMGS	22	15	P42B0007A2	23		
		1	22	1	230	B5P4MS10221	37	39	L5P4EMGS	26	17	P42B0010A2	25		
		1-1/2	30	1	230	B5P4MS15221	47	51	L5P4FMGS	32	21	P42B0015A2	29		
		1/2	13	1	115	B5P4MS05131	27-1/2	28	L5P4CMGS	18	12	P43B0005A1	19	SMC-IR0511	4
		1/2	14	1	230	B5P4MS05231	28	28	L5P4CMGS	18	12	P43B0005A2	18	SMC-CR0521	4
5		3/4	19	1	230	B5P4MS07231	33	34	L5P4DMGS	22	15	P43B0007A2	21	SMC-CR0721	4
		1	22	1	230	B5P4MS10231	38	39	L5P4EMGS	26	17	P43B0010A2	23	SMC-CR1021	4
	3 WIRE	1-1/2	30	1	230	B5P4MS15231	46	48	L5P4FMGS	32	21	P43B0015A2	27	SMC-CR1521	7
	3 WIKE	1-1/2	30	3	230				L5P4FMGS	32	21	P43B0015A3	23		
		1-1/2	30	3	460				L5P4FMGS	32	21	P43B0015A4	23		
		2	38	1	230				L5P4GMGS	37-3/4	25	P43B0020A2	31	SMC-CR2021	7
		2	38	3	230				L5P4GMGS	37-3/4	25	P43B0015A3	23		
		2	38	3	460				L5P4GMGS	37-3/4	25	P43B0015A4	23		
		1/2	11	1	115	B7P4MS05121	26	27	L7P4CMGS	16	11	P42B0005A1	19		
		1/2	11	1	230	B7P4MS05221	26	27	L7P4CMGS	16	11	P42B0005A2	19		
	2 WIRE	3/4	15	1	230	B7P4MS07221	30	32	L7P4DMGS	19	13	P42B0007A2	23		
		1	18	1	230	B7P4MS10221	34	37	L7P4EMGS	22	15	P42B0010A2	25		
		1-1/2	22	1	230	B7P4MS15221	43	47	L7P4FMGS	28	17	P42B0015A2	29		
		1/2	10	1	115	B7P4MS05131	25-1/2	27	L7P4CMGS	16	11	P43B0005A1	19	SMC-IR0511	4
		1/2	11	1	230	B7P4MS05231	26	27	L7P4CMGS	16	11	P43B0005A2	18	SMC-CR0521	4
		3/4	15	1	230	B7P4MS07231	30	32	L7P4DMGS	19	13	P43B0007A2	21	SMC-CR0721	4
,		1	18	1	230	B7P4MS10231	34	37	L7P4EMGS	22	15	P43B0010A2	23	SMC-CR1021	4
7		1-1/2	22	1	230	B7P4MS15231	42	44	L7P4FMGS	28	17	P43B0015A2	27	SMC-CR1521	7
		1-1/2	22	3	230				L7P4FMGS	27-1/4	17	P43B0015A3	23		
	3 WIRE	1-1/2	22	3	460				L7P4FMGS	27-1/4	17	P43B0015A4	23		
		2	28	1	230				L7P4GMGS	32-1/2	20	P43B0020A2	31	SMC-CR2021	7
		2	28	3	230				L7P4GMGS	32-1/2	20	P43B0020A3	27		
		2	28	3	460				L7P4GMGS	32-1/2	20	P43B0020A4	27		
		3	36	1	230				L7P4HMGS	39-1/2	24	P43B0030A2	37	SMC-CR3021	8
		3	36	3	230				L7P4HMGS	39-1/2	24	P43B0030A3	37		
		3	36	3	460	1			L7P4HMGS	39-1/2	24	P43B0030A4	37		

[†]For all Pentek XE series three-phase motor options, see page 65.

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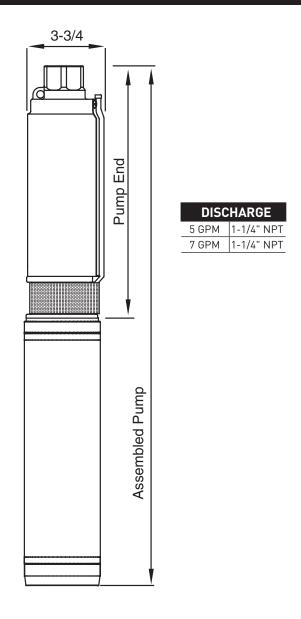
^{*}Length and Weight are approximate.

TrimLine™ version maximum outside diameter is 3-3/4". Standard version maximum outside diameter is 3-7/8".

NOTE: Motor, Control Box or Magnetic Starter must be ordered separately, if ordering pump end only. Discharge NPT is 1-1/4".

Stainless steel, 5 and 7 GPM TrimLine™

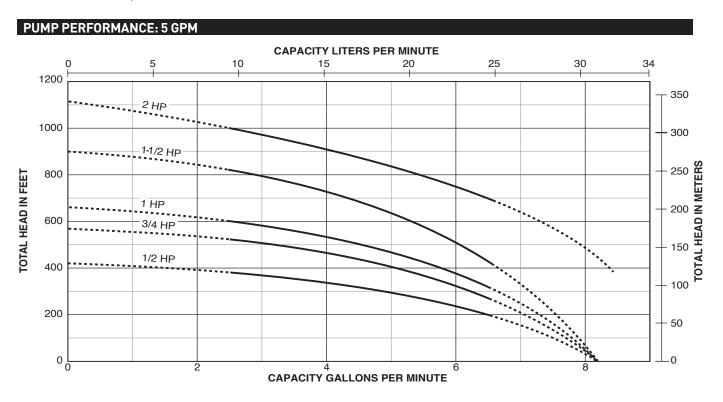
OUTLINE DIMENSIONS

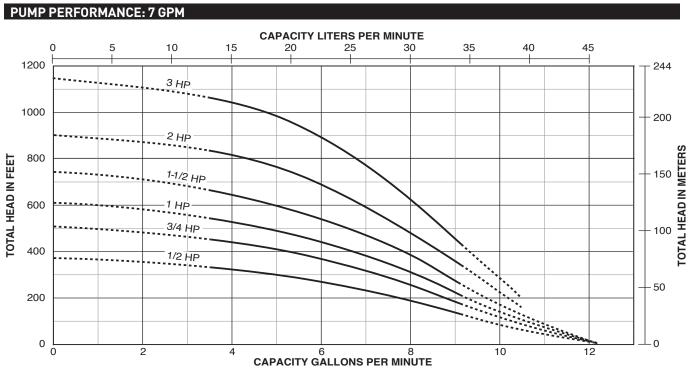


For dimensions, refer to Ordering Information table.

Dimensions (in inches) are for estimating purposes only.

Stainless steel, 5 and 7 GPM TrimLine™





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.

Stainless steel, 5 and 7 GPM TrimLine™

	LLON																paci EPTI	H IN			pei			,								SHUT- HE	−0FF
НР	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	600	650	700	750	800	850	FEET	PSI
	0	_	_	_	_	_	_	_	7.3	7.0	6.8	6.5	6.2	5.9	5.6	5.2	_	4.4	4.0	3.5	2.9	2.1											
	20	_	_	_	_	7.5	7.2	7.0	6.7	6.4	6.1	5.8	5.5	5.1	4.7	4.3	3.9	3.3	2.7	1.7													
	30	_	_	_	7.4	7.2	6.9	6.6	6.4	6.1	5.7	5.4	5.1	4.7	4.2	3.8	3.2	2.5	1.5														
4 /0	40	_	_	7.4	7.1	6.9	6.6	6.3	6.0	5.7	5.4	5.0	4.6	4.2	3.7	3.1	2.4	1.3															
1/2	50	_	7.4	7.1	6.8	6.6	6.3	6.0	5.6	5.3	4.9	4.5	4.1	3.6	3.0	2.3	1.0															421	18
	60	7.3	7.1	6.8	6.5	6.2	5.9	5.6	5.3	4.9	4.5	4.0	3.5	2.9	2.1																		
	70	7.0	6.8	6.5	6.2	5.9	5.5	5.2	4.8	4.4	4.0	3.4	2.8	2.0																			
	80	6.7	6.4	6.1	5.8	5.5	5.1	4.8	4.3	3.9	3.4	2.7	1.8																				
	0	_	_	_	_	_	-	-	_	_	7.4	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.7	5.5	5.2	5.0	4.2	3.2	1.8								
	20	_	ı	_	_	_	_	_	7.3	7.1	7.0	6.8	6.6	6.3	6.1	5.9	5.7	5.4	5.1	4.9	4.6	4.3	3.3	2.0									
	30	_	_	-	-	_	7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.1	5.9	5.6	+	5.1	4.8	4.5	4.2	3.9	2.8										
3/4	40	_	_	_	-	7.5	7.3	7.1	6.9	6.7	6.5	6.3		5.8	5.6	5.3	5.1	4.8	4.5	4.2	3.8	3.4	2.1									571	24
,, 4	50	_	_	-	7.4	7.3	7.1	6.9	6.7	6.5	6.2	6.0	5.8	5.5	5.3	5.0	4.7	4.4	4.1	3.7	3.3	2.9										3/1	24
	60	_	_	7.4	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.7	5.5	5.2	5.0	4.7	4.4	4.1	3.7	3.3	2.8	2.2											
	70	_	7.4	7.2	7.0	6.8	6.6	6.4	6.2	5.9	5.7	5.5	5.2	4.9	4.6	4.3	4.0	3.6	3.2	2.7	2.1	1.2											
	80	7.4	7.2	7.0	6.8	6.6	6.4	6.1	5.9	5.7	5.4	5.2	4.9	4.6	4.3	3.9	3.6	3.1	2.6	2.0													
	0	_	_	_	_	-	-	-	_	_	_	7.5	7.3	7.1	7.0	6.8	6.6	6.4	6.3	6.1	5.9	5.7	5.1	4.5	3.8	2.8	1.2						
	20	_	ı	_	_	_	_	_	_	7.4	7.3	7.1	6.9	6.7	6.6	6.4	6.2	6.0	5.8	5.6	5.4	5.2	4.5	3.8	2.9	1.4							
	30	_	-	_	_	_	_	7.5	7.4	7.2	7.1	6.9	6.7	6.5	6.4	6.2	6.0	5.8	5.6	5.3	5.1	4.9	4.2	3.4	2.3								
1	40	_	_	_	_	_	7.5	7.4	7.2	7.0	6.9	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.3	5.1	4.8	4.6	3.9	3.0	1.6							661	28
'	50	_	_	_	_	7.5	7.3	7.2	7.0	6.8	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.3	5.0	4.8	4.5	4.3	3.5	2.4								001	20
	60	_	_	_	7.5	7.3	7.2	7.0	6.8	6.6	6.5	6.3	6.1	5.9	5.7	5.5	5.2	5.0	4.8	4.5	4.2	3.9	3.1	1.7									
	70	_	ı	7.4	7.3	7.1	7.0	6.8	6.6	6.4	6.2	6.1	5.9	5.6	5.4	5.2	5.0	4.7	4.5	4.2	3.9	3.6	2.5										
	80	_	7.4	7.3	7.1	6.9	6.8	6.6	6.4	6.2	6.0	5.8	5.6	5.4	5.2	4.9	4.7	4.4	4.1	3.8	3.5	3.1	1.9										
	0	_	_	_	_	_	_	_	_	_	_	_	_	_	7.5	7.4	7.3	7.2	7.1	6.9	6.8	6.7	6.4	6.0	5.6	5.2	4.8	4.3	3.8	3.1	2.2		
	20	_	_	_	_	_	_	_	_	_	_	_	7.5	7.4	7.3	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.0	5.7	5.3	4.8	4.3	3.8	3.2	2.3			
	30	_	_	_	_	_	_	_	_	_	_	7.5	7.4	7.2	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.2	5.9	5.5	5.1	4.6	4.1	3.5	2.8	1.8			
-1/2	40	_	_	_	-	_	_	_	_	_	7.5	7.3	7.2	7.1	7.0	6.9	6.7	6.6	6.5	6.3	6.2	6.1	5.7	5.3	4.9	4.4	3.8	3.2	2.4			901	390
1/2	50	_	_	_	_	_	_	7.7	7.6	7.4	7.3	7.2	7.1	7.0	6.8	6.7	6.6	6.5	6.3	6.2	6.0	5.9	5.5	5.1	4.6	4.1	3.6	2.9	1.9			701	371
	60	_	_	_	_	_	_	7.5	7.4	7.3	7.2	7.1	6.9	6.8	6.7	6.6	6.4	6.3	6.2	6.0	5.9	5.7	5.3	4.9	4.4	3.9	3.3	2.5					
	70	_	ı	_	_	_	7.5	7.4	7.3	7.2	7.1	6.9	6.8	6.7	6.5	6.4	6.3	6.1	6.0	5.8	5.7	5.5	5.1	4.7	4.2	3.6	2.9	2.0					
	80	_	_	_	_	7.5	7.4	7.3	7.2	7.0	6.9	6.8	6.7	6.5	6.4	6.3	6.1	6.0	5.8	5.7	5.5	5.4	4.9	4.5	3.9	3.3	2.5	1.3					
													PI	JMF	PINC	G DE	EPTI	H IN	FEE	ΞT												SHUT HE	-OFF
ΗP	PSI	20	40	60	8 (0 1	00 1	125	150	175	200	250	30	0 35	50 4	00	450	500	550	600	65	0 70	00 7	50	800	850	900	950	10	00 1	050	FEET	PS
	0	-	_	-	-	_ .	_	_	-	-	_	<u> </u>	-	-	-	_	-	7.0	6.8	6.5	6.3	2 5.	.9 [5.5	5.0	4.5	4.0	3.3	2.	4	1.5		
	20	_	_			-]	- [_	_	Ξ	_	_] -	-		_ [7.0	6.8	6.5	6.2	5.9	9 5.			4.5	4.0	3.3	2.4	1.	5			
2	30	_	_	-	-	-	- [-	-	-	_	_	-	-	- [7.2	6.9	6.6	6.3	6.0	5.	7 5.	.2	4.8	4.3	3.7	2.9	2.1	1.	1		1120	48
2	40	_	<u> </u>	_	-	- [- [-	_	_	_	_		7.	.3	7.0	6.8	6.5	6.2	5.9	5.	5 5.	.0 4	4.5	4.0	3.3	2.4	1.5	_			1120	46
	50	_	<u> </u>	-	-	-	-	-	-	-	_	-	7.4	_	_	6.9	6.6	6.4	6.1	5.8	_	4 4	.9	_	3.9	3.1	2.2	1.2					
	60	_	_			_	_	_	_	_	_	_	7.3	3 7.	.1	6.8	6.5	6.2	6.0	5.6	5.	1 4	6 4	4.1	3.2	2.5	1.6						

CAUTION: D0 NOT use pump at flow rates indicated by the symbol '-'. To do so can cause premature failure of unit. Pump warranty is void when failure occurs under these conditions.

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.

Stainless steel, 5 and 7 GPM TrimLine™

7 GA	LLOI	NS F	PER	MI	TUP	Έ			PU	JMP	PEF	RF0	RM/	NC	E (Ca	расі	ty in	gall	ons.	peri	minu	ıte)								
												Р	UMI	PING	DEF	PTH	IN F	EET												-OFF AD
HP	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	600	650	700	FEET	PSI
	0	_		10.7	10.4	10.0	9.7	9.3	8.9	8.6	8.1	7.7	7.2	6.7	6.2	5.6	5.0	4.2	3.3											
	20	10.6	10.3	9.9	9.6	9.2	8.8	8.4	8.0	7.6	7.1	6.6	6.0	5.4	4.7	3.9	2.9													
	30	10.2	9.9	9.5	9.2	8.8	8.4	7.9	7.5	7.0	6.5	5.9	5.3	4.6	3.8	2.7														
1/2	40	9.8	9.5	9.1	8.7	8.3	7.9	7.4	6.9	6.4	5.9	5.2	4.5	3.7	2.5														372	161
1/2	50	9.4	9.0	8.6	8.2	7.8	7.3	6.9	6.3	5.8	5.1	4.4	3.5	2.3															3/2	101
	60	9.0	8.6	8.2	7.7	7.3	6.8	6.2	5.7	5.0	4.3	3.3	2.0																	
	70	8.5	8.1	7.7	7.2	6.7	6.2	5.6	4.9	4.1	3.2																			
	80	8.0	7.6	7.1	6.6	6.1	5.5	4.8	4.0	3.0																				
	0	_	_	10.9	10.6	_	10.2	9.9	9.6	9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.2	6.9	6.5	6.1	5.7	5.2	3.8							
	20		10.6	10.3	10.1	9.8	9.6	9.3	9.0	8.7	8.4	8.1	7.8	7.5	7.1	6.8	6.4	6.0	5.5	5.0	4.5	3.9								
	30	10.5	10.3	10.0	9.8	9.5	9.2	9.0	8.7	8.4	8.1	7.8	7.4	7.1	6.7	6.3	5.9	5.5	5.0	4.4	3.8	3.0								
3/4	40	10.2	10.0	9.7	9.5	9.2	8.9	8.6	8.3	8.0	7.7	7.4	7.0	6.6	6.3	5.8	5.4	4.9	4.3	3.7	2.9								507	220
	50	10.0	9.7	9.4	9.2	8.9	8.6	8.3	8.0	7.7	7.3	7.0	6.6	6.2	5.8	5.3	4.8	4.2	3.6	2.8										
	60 70	9.7	9.4	9.1	8.8	8.5	8.2 7.9	7.9	7.6	7.3	6.9	6.5	6.1 5.6	5.7	5.2	4.7	4.1	3.5 2.5	2.6	-										
	80	9.4	8.8	8.5	8.2	7.8	7.5	7.0	6.8	6.4	6.0	5.6	5.1	4.5	4.6 3.9	3.2	2.3	2.3		-										
	0	7.0	0.0		10.8	10.6	10.4	10.2	9.9	9.7	9.5	9.3	9.1	8.8	8.6	8.3	8.1	7.8	7.5	7.2	6.9	6.6	5.8	4.8	3.5					
	20	10.9	10.7		10.3	10.0	9.9	9.7	9.4	9.2	9.0	8.7	8.5	8.2	8.0	7.7	7.4	7.1	6.8	6.5	6.2	5.8	4.9	3.6	3.3					
	30	10.7		10.3	10.3	9.8	9.6	9.4	9.2	8.9	8.7	8.5	8.2	7.9	7.7	7.4	7.4	6.8	6.5	6.1	5.8	5.4	4.3	2.8						
	40	_		10.0	9.8	9.6	9.4	9.1	8.9	8.7	8.4	8.2	7.9	7.6	7.4	7.1	6.8	6.4	6.1	5.7	5.3	4.9	3.7	2.0						
1	50	10.2		9.8	9.6	9.3	9.1	8.9	8.6	8.4	8.1	7.9	7.6	7.3	7.0	6.7	6.4	6.0	5.7	5.3	4.9	4.4	3.0						608	263
	60	10.0	9.7	9.5	9.3	9.1	8.8	8.6	8.3	8.1	7.8	7.5	7.3	7.0	6.7	6.3	6.0	5.6	5.2	4.8	4.3	3.8								
	70	9.7	9.5	9.3	9.0	8.8	8.6	8.3	8.0	7.8	7.5	7.2	6.9	6.6	6.3	5.9	5.6	5.2	4.7	4.3	3.7	3.1								
	80	9.5	9.2	9.0	8.8	8.5	8.3	8.0	7.7	7.5	7.2	6.9	6.6	6.2	5.9	5.5	5.1	4.7	4.2	3.6	3.0	2.1								
	0	_	_	11.0	10.9	10.7	10.5	10.4	10.2	10.0	9.9	9.7	9.5	9.3	9.1	8.9	8.8	8.6	8.3	8.1	7.9	7.7	7.1	6.5	5.8	5.0	4.0	2.7		
	20	11.0	10.8	10.7	10.5	10.3	10.2	10.0	9.8	9.6	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.6	7.4	7.2	6.5	5.8	5.0	4.1	2.8			
	30	10.8	10.6	10.5	10.3	10.1	10.0	9.8	9.6	9.4	9.2	9.1	8.9	8.7	8.5	8.3	8.0	7.8	7.6	7.4	7.1	6.9	6.2	5.5	4.6	3.5				
1-1/2	40	10.6	10.4	10.3	10.1	9.9	9.8	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.2	8.0	7.8	7.6	7.3	7.1	6.8	6.6	5.9	5.1	4.2	2.9			744	322
1 1/2	50			10.1	9.9	9.7	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.2	8.0	7.8	7.5	7.3	7.1	6.8	6.5	6.3	5.5	4.7	3.6	2.1			/	322
	60	10.2	10.1	9.9	9.7	9.5	9.3	9.2	9.0	8.8	8.6	8.4	8.2	7.9	7.7	7.5	7.3	7.0	6.8	6.5	6.2	5.9	5.2	4.2	3.0					
	70	10.0	9.9	9.7	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.7	7.5	7.2	7.0	6.7	6.5	6.2	5.9	5.6	4.8	3.7	2.3					
	80	9.8	9.6	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.6	7.4	7.2	6.9	6.7	6.4	6.1	5.9	5.5	5.2	4.3	3.1						
												Р	UMI	PING	DEF	РΤН	IN F	EET												-OFF AD
HP	PSI	20	40	60	80	100	125	150	175	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	FEET	PSI
	0	_	_	_	_	_	10.9	_	10.3			9.4	9.0	8.7	8.4	8.0	7.4	7.1	6.4	5.8	5.0	4.2	2.8							
	20	_	_	_			10.4	_	10.0		9.4	9.1	8.7	8.4	8.0	7.6	7.1	6.6	5.8	5.1	4.3	3.8								
2	30		_			_	10.1					8.9			_		6.9	_		4.7	3.8								900	389
Ī	40						10.0		9.6	9.4	9.1	8.7	8.5	8.1	7.7	7.2	6.6	5.9	5.2	4.2										
	50 60			10.3		9.8	9.8 9.6	9.6 9.4	9.4	9.3 9.1		8.7		7.9	7.4	6.9	6.0	5.5 5.8	4.8	3.3	2.3									
	0	10.4	-	-	-	7.0	7.0	7.4		10.5		9.9	9.5	9.3	9.0	8.8	8.6	8.3	8.0	7.6	7.3	6.8	6.4	5.7	5.2	4.7	3.9	2.5		
	20	_	_	_	_	_			10.4			9.5		9.0	8.8	8.6	8.3	8.1	7.7	7.4			5.8	5.2	4.8	4.0	3.1	2.0		
2	30	_	_	_	_	10.9	10.6	10.4	10.2	10.0	9.6	9.4	9.2	8.9	8.7	8.4	8.1	7.9	7.4	7.0	6.6	6.0		5.8	4.3				1150	/00
3	40	_	_		10.9	10.7	10.4	10.3	10.0	10.0	9.6	9.4	9.1	8.8	8.6	8.3	8.1	7.8	7.4	7.0	6.5	5.9	5.3	4.9	4.2	3.2			1150	498
	50	_					10.3				9.4	9.2	8.9	8.7	8.5	8.1	7.9	7.5	7.1	6.6	6.1			4.4	3.6					
	60	11.0	10 7	10.6	10 /	11N 3	10.0	I 1	9.7	9.6	9.4	9.1	8.9	8.7	8.4	8.1	7.8	7.4	7.0	6.6	5.9	5.3	4.9	4.2	3.3	1		1	1	1

CAUTION: D0 NOT use pump at flow rates indicated by the symbol '-'. To do so can cause premature failure of unit. Pump warranty is void when failure occurs under these conditions.

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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.

Stainless Steel









Precision-engineered, high-quality, rugged Stainless Steel Series Pumps deliver efficient, dependable performance even in rough, aggressive water. Heads to

1,950 feet and capacities to 65 GPM.

Built to deliver long-term, trouble-free service. Floating impeller design resists sand and reduces sand locking. These pumps feature the proven SignaSeal™ staging system.

APPLICATIONS

Water systems... for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Shell: Stainless steel

Diameter: 3-7/8"

Discharge: Stainless steel **Discharge Bearing:** Nylatron®

Intermediate Bearing: (On larger units) polycarbonate, nitrile rubber and stainless steel

Impellers: Acetal

Diffusers: Polycarbonate

Suction Caps: Polycarbonate with

stainless steel insert

Thrust Pads: Proprietary spec.
Shaft and Coupling: Stainless steel

Intake: Stainless steel

Intake Screen: Polypropylene Cable Guard: Stainless steel

Check Valve: Acetal Agency Listings: CSA

FEATURES

Proven Staging System: Our proven SignaSeal staging system incorporates a harder-than-sand ceramic wear surface that when incorporated with our floating impeller design, greatly reduces problems with abrasives, sand lock-up and running dry.

Discharge: Corrosion-resistant 300 grade stainless steel for durability in aggressive water. Large octagon wrench area for ease of installation.

Discharge Bearing: Self-lubricating Nylatron bearing resists wear from sand.

Intake: Corrosion-resistant 300 grade stainless steel for durability in aggressive water.

Shaft: Positive drive from 7/16" hexagonal heavy-duty 300 grade stainless steel.

Coupling: Stainless steel press fit to pump shaft. Couples to all standard NEMA motors.

Shell: Highest grade, heavy-walled corrosion-resistant stainless steel. Threaded for easy servicing.

Hardware: All screws, washers and nuts are corrosion-resistant 300 grade stainless steel.

Check Valve: Durable internal spring-loaded check valve.

Cable Guard: Corrosion-resistant stainless steel guard protects motor leads. Tapered ends prevent pump from catching on well.

Intake Screen: Corrosion-proof.
Pentek® XE Series™ Motor:

2 and 3 wire NEMA standard all stainless construction water-filled motors

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Stainless Steel

PM TYPE HP STGS. PH VOLT NUMBER INCHES* POUNDS* NUMBER INCHES* POUNDS* NUMBER POUNDS* NUMBER POUNDS* NUMBER POUNDS* PUNDS* NUMBER POUNDS* POUNDS* NUMBER POUNDS* POUNDS* PUNDS* NUMBER POUNDS* POUNDS* PUNDS* PUNS* PUNDS* PUNDS* PUNDS* PUNDS* PUNDS* PUNDS* PUNDS*	ONL	ERING		ANMAL			100=1	IDI ED EU	MD		IMD EVE		140-	OD	CONTRO	L DOY
Type							ASSEM	IBLED PU	MP	P	UMP END) 	MOT	OR	CONTRO	L BOX
**************************************	GPM		НР	STGS.	PH [†]	VOLT					I					WEIGHT POUNDS
A WIRE 1 13 1 230 B10P4MS07221 26 31 L10P4DMGS 15 10 P42B0007A2 23			1/2	8	1	115	B10P4MS05121	23	28	L10P4CMGS	13	9	P42B0005A1	19		
1 13 1 230 B10P4MS10221 29 35 L10P4EMGS 17 11 P428001042 25			1/2	8	1	230	B10P4MS05221	23	28	L10P4CMGS	13	9	P42B0005A2	19		
1-1/2		2 WIRE	3/4	11	1	230	B10P4MS07221	26	31	L10P4DMGS	15	10	P42B0007A2	23	1	
1/2 7			1	13	1	230	B10P4MS10221	29	35	L10P4EMGS	17	11	P42B0010A2	25		
1-12 1			1-1/2	17	1	230	B10P4MS15221	35	42	L10P4FMGS	20	12	P42B0015A2	29		
A			1/2	7	1	115	B10P4MS05131	22-3/4	27-1/2	L10P4CMGS	12-3/4	9	P43B0005A1	19	SMC-IR0511	4
1 13			1/2	8	1	230	B10P4MS05231	23	28	L10P4CMGS	13	9	P43B0005A2	19	SMC-CR0521	4
1-1/2 17			3/4	11	1	230	B10P4MS07231	26	31	L10P4DMGS	15	10	P43B0007A2	21	SMC-CR0721	4
1-1/2 17 3 230 1-1/2 17 3 230 1-1/2 17 3 230 1-1/2 17 3 460 2 2 2 1 230 2 1-1/2 2 3 400 2 2 2 3 3 400 2 2 2 3 3 400 3 3 3 3 3 3 3 3 3			1	13	1	230	B10P4MS10231	29	35	L10P4EMGS	17	11	P43B0010A2	23	SMC-CR1021	4
A WIRE			1-1/2	17	1	230	B10P4MS15231	34	42	L10P4FMGS	20	12	P43B0015A2	27	SMC-CR1521	7
3 WIRE	10**		1-1/2	17	3	230				L10P4FMGS	19-3/4	12-1/2	P43B0015A3	23		
SAMPRE			1-1/2	17	3	460				L10P4FMGS	19-3/4	12-1/2	P43B0015A4	23		
2 22 3 230		2 WIDE	2	22	1	230				L10P4GMGS	22	13-3/4	P43B0020A2	31	SMC-CR2021	7
A		3 WIKE	2	22	3	230				L10P4GMGS	22	13-3/4	P43B0020A3	23		
3 30 3 230 3 230 230 240 240 240 250 240			2	22	3	460				L10P4GMGS	22	13-3/4	P43B0020A4	23]	
A			3	30	1	230				L10P4HMGS	22	16-3/4	P43B0030A2	40	SMC-CR3021	8
S S S S S S S S S S			3	30	3	230				L10P4HMGS	28	16-3/4	P43B0030A3	32		
S S S S S S S S S S			3	30	3	460	1			L10P4HMGS	28	16-3/4	P43B0030A4	32]	
S S S S S S S S S S			5	50	1	230				L10P4JMGS	43-1/2	25-1/2	P43B0050A2	70	SMC-CR5021	12
2 WIRE 1/2 6			5	50	3	230				L10P4JMGS	43-1/2	25-1/2	P43B0050A3	55		
2 WIRE 1/2 6			5	50	3	460				L10P4JMGS	43-1/2	25-1/2	P43B0050A4	55		
3/4 8 1 230 B15P4MS10221 26 31 L15P4DMGS 15 10 P42B0010A2 25 1 10 1 230 B15P4MS10221 30 35 L15P4EMGS 17 11 P42B0010A2 25 1-1/2 12 1 230 B15P4MS15221 36 43 L15P4EMGS 21 13 P42B0015A2 29 1/2 5 1 115 B15P4MS05131 22-1/4 27 L15P4CMGS 12-1/4 9 P43B0005A1 19 SMC-IR0511 4 1/2 6 1 230 B15P4MS05231 23 27 L15P4CMGS 13 9 P43B0005A2 19 SMC-CR0521 4 3/4 8 1 230 B15P4MS07231 26 31 L15P4DMGS 15 10 P43B0007A2 23 SMC-CR0721 4 1 10 1 230 B15P4MS07231 26 31 L15P4DMGS 15 10 P43B0007A2 23 SMC-CR0721 4 1 10 1 230 B15P4MS010231 30 35 L15P4EMGS 17 11 P43B0010A2 25 SMC-CR1021 4 1-1/2 12 1 230 B15P4MS15231 34 41 L15P4FMGS 21 13 P43B0015A2 29 SMC-CR1021 7 1-1/2 12 3 230 2 15 3 230 2 15 3 230 2 15 3 230 3 22 1 230 3 22 1 230 3 22 3 3 230 L15P4GMGS 23-1/2 15 P43B0020A2 23 L15P4GMGS 23-1/2 15 P43B0020A2 23 L15P4GMGS 23-1/2 15 P43B0020A4 23 L15P4GMGS 23-1/2 15 P43B0020A4 23 L15P4GMGS 31-1/4 18 P43B0030A3 32			1/2	6	1	115	B15P4MS05121	23	27	L15P4CMGS	13	9	P42B0005A1	19		
1 10 1 230 B15P4MS10221 30 35 L15P4EMGS 17 11 P42B0010A2 25 1-1/2 12 1 230 B15P4MS05131 22-1/4 27 L15P4CMGS 12-1/4 9 P43B0005A1 19 SMC-IR0511 4 1/2 6 1 230 B15P4MS05231 23 27 L15P4CMGS 13 9 P43B0005A2 19 SMC-CR0521 4 3/4 8 1 230 B15P4MS07231 26 31 L15P4DMGS 15 10 P43B0007A2 23 SMC-CR0521 4 1 10 1 230 B15P4MS07231 30 35 L15P4EMGS 17 11 P43B0010A2 25 SMC-CR0721 4 1 10 1 230 B15P4MS10231 30 35 L15P4EMGS 17 11 P43B0010A2 25 SMC-CR1021 4 1-1/2 12 1 230 B15P4MS15231 34 41 L15P4FMGS 21 13 P43B0015A2 29 SMC-CR1021 4 1-1/2 12 3 230 1-1/2 12 3 3 230 2 15 3 230 2 15 3 230 2 15 3 230 3 22 1 230 3 22 3 230 1-15P4EMGS 23-1/2 15 P43B0020A2 31 SMC-CR2021 7 1-15P4GMGS 23-1/2 15 P43B0020A2 23 1-15P4GMGS 23-1/2 15 P43B0020A2 23 1-15P4GMGS 23-1/2 15 P43B0020A2 23 1-15P4GMGS 31-1/4 18 P43B0030A2 40 SMC-CR3021 7			1/2	6	1	230	B15P4MS05221	23	27	L15P4CMGS	13	9	P42B0005A2	19		
1-1/2 12 1 230 B15P4MS15221 36 43 L15P4FMGS 21 13 P42B0015A2 29 1/2 5 1 115 B15P4MS05131 22-1/4 27 L15P4CMGS 12-1/4 9 P43B0005A1 19 SMC-IR0511 4 1/2 6 1 230 B15P4MS05231 23 27 L15P4CMGS 13 9 P43B0005A2 19 SMC-CR0521 4 3/4 8 1 230 B15P4MS07231 26 31 L15P4DMGS 15 10 P43B0007A2 23 SMC-CR0721 4 1 10 1 230 B15P4MS10231 30 35 L15P4EMGS 17 11 P43B0010A2 25 SMC-CR1021 4 1-1/2 12 1 230 B15P4MS15231 34 41 L15P4FMGS 21 13 P43B0015A2 29 SMC-CR1521 7 1-1/2 12 3 230 1-1/2 12 3 460 2 15 1 230 2 15 3 230 2 15 3 460 3 22 1 230 3 22 3 230 L15P4GMGS 23-1/2 15 P43B0020A2 31 SMC-CR2021 7 L15P4GMGS 23-1/2 15 P43B0020A2 23 L15P4GMGS 31-1/4 18 P43B0030A2 40 SMC-CR3021 7		2 WIRE	3/4	8	1	230	B15P4MS07221	26	31	L15P4DMGS	15	10	P42B0007A2	23		
3 WIRE 1/2 5			1	10	1	230	B15P4MS10221	30	35	L15P4EMGS	17	11	P42B0010A2	25		
3 WIRE 1/2			1-1/2	12	1	230	B15P4MS15221	36	43	L15P4FMGS	21	13	P42B0015A2	29		
3/4 8 1 230 B15P4MS07231 26 31 L15P4DMGS 15 10 P43B0007A2 23 SMC-CR0721 4 1 10 1 230 B15P4MS10231 30 35 L15P4EMGS 17 11 P43B0010A2 25 SMC-CR1021 4 1-1/2 12 1 230 B15P4MS15231 34 41 L15P4FMGS 21 13 P43B0015A2 29 SMC-CR1521 7 1-1/2 12 3 230 1-1/2 12 3 3 460 2 15 1 230 2 15 3 230 2 15 3 230 2 15 3 230 2 15 3 460 3 22 1 230 3 22 1 230 3 22 1 230 4 15P4EMGS 23-1/2 15 P43B0020A2 31 SMC-CR2021 7 L15P4GMGS 23-1/2 15 P43B0020A3 23 L15P4GMGS 23-1/2 15 P43B0020A3 23 L15P4GMGS 23-1/2 15 P43B0020A4 23 L15P4GMGS 23-1/2 15 P43B0020A4 23 L15P4GMGS 23-1/2 15 P43B0020A3 23 L15P4GMGS 23-1/2 15 P43B0020A3 23 L15P4GMGS 31-1/4 18 P43B0030A2 40 SMC-CR3021 7 L15P4HMGS 31-1/4 18 P43B0030A3 32			1/2	5	1	115	B15P4MS05131	22-1/4	27	L15P4CMGS	12-1/4	9	P43B0005A1	19	SMC-IR0511	4
1 10 1 230 B15P4MS10231 30 35 L15P4EMGS 17 11 P43B0010A2 25 SMC-CR1021 4 1-1/2 12 1 230 B15P4MS15231 34 41 L15P4FMGS 21 13 P43B0015A2 29 SMC-CR1521 7 1-1/2 12 3 230 1-1/2 12 3 460 2 15 1 230 2 15 3 230 2 15 3 460 3 22 1 230 3 22 1 230 3 230 41 L15P4FMGS 20-1/4 13 P43B0015A4 23 L15P4GMGS 23-1/2 15 P43B0020A2 31 SMC-CR2021 7 L15P4GMGS 23-1/2 15 P43B0020A2 23 L15P4GMGS 23-1/2 15 P43B0020A4 23 L15P4GMGS 23-1/2 15 P43B0020A4 23 L15P4GMGS 23-1/2 15 P43B0020A4 23 L15P4GMGS 31-1/4 18 P43B0030A2 40 SMC-CR3021 7 L15P4HMGS 31-1/4 18 P43B0030A2 32			1/2	6	1	230	B15P4MS05231	23	27	L15P4CMGS	13	9	P43B0005A2	19	SMC-CR0521	4
3 WIRE 1-1/2 12 1 230 B15P4MS15231 34 41 L15P4FMGS 21 13 P43B0015A2 29 SMC-CR1521 7 1-1/2 12 3 230 1-1/2 12 3 460 2 15 1 230 2 15 3 230 2 15 3 460 3 22 1 230 3 22 1 230 3 230 L15P4FMGS 20-1/4 13 P43B0015A4 23 L15P4FMGS 23-1/2 15 P43B0020A2 31 SMC-CR2021 7 L15P4GMGS 23-1/2 15 P43B0020A2 23 L15P4GMGS 23-1/2 15 P43B0020A4 23 L15P4GMGS 23-1/2 15 P43B0020A4 23 L15P4GMGS 23-1/2 15 P43B0020A4 23 L15P4GMGS 31-1/4 18 P43B0030A2 40 SMC-CR3021 7 L15P4HMGS 31-1/4 18 P43B0030A3 32			3/4	8	1	230	B15P4MS07231	26	31	L15P4DMGS	15	10	P43B0007A2	23	SMC-CR0721	4
3 WIRE 1-1/2 12 1 230 B15P4MS15231 34 41 L15P4FMGS 21 13 P43B0015A2 29 SMC-CR1521 7 L15P4FMGS 20-1/4 13 P43B0015A3 23 L15P4FMGS 20-1/4 13 P43B0015A4 23 L15P4FMGS 23-1/2 15 P43B0020A2 31 SMC-CR2021 7 L15P4GMGS 23-1/2 15 P43B0020A2 23 L15P4GMGS 23-1/2 15 P43B0020A4 23 L15P4GMGS 23-1/2 15 P43B0030A2 40 SMC-CR3021 7 L15P4GMGS 31-1/4 18 P43B0030A2 32	E**		1	10	1	230	B15P4MS10231	30	35	L15P4EMGS	17	11	P43B0010A2	25	SMC-CR1021	4
3 WIRE 1-1/2 12 3 460 L15P4FMGS 20-1/4 13 P43B0015A4 23 L15P4GMGS 23-1/2 15 P43B0020A2 31 SMC-CR2021 7 L15P4GMGS 23-1/2 15 P43B0020A3 23 L15P4GMGS 23-1/2 15 P43B0020A3 23 L15P4GMGS 23-1/2 15 P43B0020A4 23 L15P4GMGS 23-1/2 15 P43B0020A4 23 L15P4GMGS 23-1/2 15 P43B0030A2 40 SMC-CR3021 7 L15P4HMGS 31-1/4 18 P43B0030A3 32 L15P4HMGS 31-1/4 3 P43	5		1-1/2	12	1	230	B15P4MS15231	34	41	L15P4FMGS	21	13	P43B0015A2	29	SMC-CR1521	7
2 15 1 230 2 15 3 230 2 15 3 230 2 15 3 460 3 22 1 230 3 22 3 230 4 23 23 2 15 23-1/2 15 23-1/2 15 23-1/2 15 23-1/2 15 23-1/2 15 23-1/2 15 23-1/2 15 23-1/2 23 2 15 23-1/2 15 23-1/2 15 23-1/2 23 2 15 23-1/2 15 23-1/2 15 23-1/2 23 2 15 23-1/2 15 23-1/2 15 23-1/2 23 2 15 23-1/2 15 23-1/2 15 23-1/2 23 2 15 23-1/2 15 23-1/2 15 23-1/2 23 2 15 23-1/2 15 23-1/2 15 23-1/2 23 3 22 1 230 23 23 23 23 23 23 24 23 23 23 </td <td></td> <td></td> <td>1-1/2</td> <td>12</td> <td>3</td> <td>230</td> <td></td> <td></td> <td></td> <td>L15P4FMGS</td> <td>20-1/4</td> <td>13</td> <td>P43B0015A3</td> <td>23</td> <td></td> <td></td>			1-1/2	12	3	230				L15P4FMGS	20-1/4	13	P43B0015A3	23		
2 15 3 230 2 15 3 460 3 22 1 230 3 22 3 230 4 15 15 15 15 4 15 15 15 15 4 15 15 15 15 4 15 15 15 15 4 15 15 15 15 4 18 15 16 16 4 15 16 16 16 4 15 16 16 16 16 4 15 16 16 16 16 16 5 16 16 16 16 16 16 16 16 6 16		3 WIRE	1-1/2	12	3	460				L15P4FMGS	20-1/4	13	P43B0015A4	23		
2 15 3 460 3 22 1 230 3 22 3 230 L15P4HMGS 31-1/4 18 P43B0030A2 40 SMC-CR3021 7 L15P4HMGS 31-1/4 18 P43B0030A3 32			2	15	1	230				L15P4GMGS	23-1/2	15	P43B0020A2	31	SMC-CR2021	7
3 22 1 230 3 22 3 230 L15P4HMGS 31-1/4 18 P43B0030A2 40 SMC-CR3021 7 L15P4HMGS 31-1/4 18 P43B0030A3 32			2	15	3	230				L15P4GMGS	23-1/2	15	P43B0020A3	23		
3 22 3 230 L15P4HMGS 31-1/4 18 P43B0030A3 32			2	15	3	460				L15P4GMGS	23-1/2	15	P43B0020A4	23		
			3	22	1	230]			L15P4HMGS	31-1/4	18	P43B0030A2	40	SMC-CR3021	7
3 22 3 460 L15P4HMGS 31-1/4 18 P43B0030A4 32			3	22	3	230				L15P4HMGS	31-1/4	18	P43B0030A3	32		
			3	22	3	460]			L15P4HMGS	31-1/4	18	P43B0030A4	32]	

[†]For all Pentek XE series three-phase motor options, see page 65.

^{*}Length and Weight are approximate.

^{**}For 10 GPM, 15 GPM and 20 GPM discharge is 1-1/4" NPT.

^{***}For 30 GPM and 50 GPM discharge is 2" NPT.

NOTE: On 2 HP and larger – Pump, Motor, Control Box or Magnetic Starter must be ordered separately.

†Check Valve not included on 5 HP, 7-1/2 HP and 10 HP models. Check Valve not included on 50 GPM models.

TrimLine™ version maximum outside diameter is 3-3/4". Standard version maximum outside diameter on all models is 3-7/8".

Stainless Steel

OND	ERING II	\	ATM/ATT			ACCE	ADI ED DI	MD		DIIMD ENG		MOT	O.D.	CONTR	NI DOV
	MOTOR			+		CATALOG	LENGTH	WEIGHT	CATALOG	LENGTH	WEIGHT	CATALOG	WEIGHT	CATALOG	WEIGHT
GPM	TYPE	HP	STGS.			NUMBER	INCHES*	POUNDS*	NUMBER	INCHES*	POUNDS*	NUMBER	POUNDS*	NUMBER	POUNDS
	0.14/105	3/4	6	1	230	B20P4MS07221	24	30	L20P4DMGS	13	9	P42B0007A2	23		
	2 WIRE	1 1/0	7	1	230	B20P4MS10221	28	34	L20P4EMGS	15	10	P42B0010A2	25		
		1-1/2	10	1	230	B20P4MS15221	32	39	L20P4FMGS	17	11	P42B0015A2	29	CMC CD0701	
		3/4	6 7	1	230	B20P4MS07231 B20P4MS10231	24	30	L20P4DMGS L20P4EMGS	13	9	P43B0007A2	23	SMC-CR0721	5
		1-1/2		1	230		28	34	L20P4EMGS	15 17	10	P43B0010A2 P43B0015A2	25 29	SMC-CR1021	5 7
		1-1/2	10 9	3	230	B20P4MS15231	31	37	L20P4FMGS	16-3/4	11 10-3/4	P43B0015A2	23	SMC-CR1521	/
		1-1/2	9	3	460				L20P4FMGS	16-3/4	10-3/4		23		
		2	12	1	230				L20P4FMGS	20-1/4	12-1/2	P43B0015A4 P43B0020A2	31	SMC-CR2021	7
		2	12	3	230				L20P4GMGS	20-1/4	12-1/2	P43B0020A2	32	JMC-CRZUZ1	,
20**		2	12	3	460				L20P4GMGS	20-1/4	12-1/2	P43B0020A3	32		
	3 WIRE	3	17	1	230				L20P4HMGS	25-3/4	15	P43B0030A2	40	SMC-CR3021	7
	5 WIKE	3	17	3	230				L20P4HMGS	25-3/4	15	P43B0030A3	32	3140 01(3021	,
		3	17	3	460				L20P4HMGS	25-3/4	15	P43B0030A4	32	-	
		5	28	1	230				L20P4JMGS	38	21	P43B0050A2	70	SMC-CR5021	8
		5	28	3	230				L20P4JMGS	38	21	P43B0050A3	55	3140 010021	
		5	28	3	460				L20P4JMGS	38	21	P43B0050A4	55		
		7-1/2	40	3	230				L20P4KMGS	53-3/4	30	P43B0075A3	70		
		7-1/2	40	3	460				L20P4KMGS	53-3/4	30	P43B0075A4	70		
		10	54	3	460				L20P4LMGS	71	41	P43B0100A4	78		
		1	5	1	230	B30P4MS10221	26-1/2	35	L30P4EMGS	14	9-3/4	P42B0010A2	25		
	2 WIRE	1-1/2	6	1	230	B30P4MS15221	30-1/2	39	L30P4FMGS	15-1/4	10-3/4	P42B0015A2	29		
		1	5	1	230	B30P4MS10231	26-1/2	35	L30P4EMGS	14	10	P43B0010A2	25	SMC-CR1021	5
		1-1/2	6	1	230	B30P4MS15231	29	39	L30P4FMGS	15-1/4	11	P43B0015A2	29	SMC-CR-1521	7
		1-1/2	6	3	230				L30P4FMGS	15-1/4	11	P43B0015A3	23		
		1-1/2	6	3	460				L30P4FMGS	15-1/4	11	P43B0015A4	23		
		2	8	1	230				L30P4GMGS	18-1/4	12	P43B0020A2	31	SMC-CR2021	7
		2	8	3	230				L30P4GMGS	18-1/4	12	P43B0020A3	23		
30***		2	8	3	460				L30P4GMGS	18-1/4	12	P43B0020A4	23		
30***	2 WIDE	3	12	1	230				L30P4HMGS	24	15	P43B0030A2	40	SMC-CR3021	7
	3 WIRE	3	12	3	230				L30P4HMGS	24	15	P43B0030A3	32		
		3	12	3	460				L30P4HMGS	24	15	P43B0030A4	32		
		5	20	1	230				L30P4JMGS	35-3/4	20	P43B0050A2	70	SMC-CR5021	8
		5	20	3	230				L30P4JMGS	35-3/4	20	P43B0050A3	55		
		5	20	3	460				L30P4JMGS	35-3/4	20	P43B0050A4	55		
		7-1/2	28	3	230				L30P4KMGS	50	27	P43B0075A3	70		
		7-1/2	28	3	460				L30P4KMGS	50	27	P43B0075A4	70		
		10	38	3	460				L30P4LMGS	65-1/2	35	P43B0100A4	70		

[†]For all Pentek XE series three-phase motor options, see page 65.

NOTE: On 2 HP and larger – Pump, Motor, Control Box or Magnetic Starter must be ordered separately.

†Check Valve not included on 5 HP, 7-1/2 HP and 10 HP models. Check Valve not included on 50 GPM models.

TrimLine™ version maximum outside diameter is 3-3/4". Standard version maximum outside diameter on all models is 3-7/8".

^{*}Length and Weight are approximate.

^{**}For 10 GPM, 15 GPM and 20 GPM discharge is 1-1/4" NPT.

^{***}For 30 GPM and 50 GPM discharge is 2" NPT.

Stainless Steel

ORDE	ERING IN	FORM <i>A</i>	MOITA									
						P	UMP END		мото	R	CONTR	OL BOX
GPM	MOTOR TYPE	HP	STGS.	PH [†]	VOLT	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
	2 WIRE	1-1/2	4	1	230	L50P4FMGS	15-1/4	10	P42B0015A2	29		
		1-1/2	4	1	230	L50P4FMGS	15-1/4	10	P43B0015A2	27	SMC-CR1521	7
		1-1/2	4	3	230	L50P4FMGS	15-1/4	10	P43B0015A3	23		
		1-1/2	4	3	460	L50P4FMGS	15-1/4	10	P43B0015A4	23		
		2	6	1	230	L50P4GMGS	19-1/4	12	P43B0020A2	31	SMC-CR2021	7
		2	6	3	230	L50P4GMGS	19-1/4	12	P43B0020A3	27		
		2	6	3	460	L50P4GMGS	19-1/4	12	P43B0020A4	27		
50***		3	8	1	230	L50P4HMGS	23-1/4	15	P43B0030A2	40	SMC-CR3021	7
50***	3 WIRE	3	8	3	230	L50P4HMGS	23-1/4	15	P43B0030A3	32		
		3	8	3	460	L50P4HMGS	23-1/4	15	P43B0030A4	32		
		5	13	1	230	L50P4JMGS	33-1/2	20	P43B0050A2	70	SMC-CR5021	8
		5	13	3	230	L50P4JMGS	33-1/2	20	P43B0050A3	55		
		5	13	3	460	L50P4JMGS	33-1/2	20	P43B0050A4	55		
		7-1/2	20	3	230	L50P4KMGS	47-1/2	25	P43B0075A3	70]	
		7-1/2	20	3	460	L50P4KMGS	47-1/2	25	P43B0075A4	70	1	
		10	25	3	460	L50P4LMGS	57-3/4	35	P43B0100A4	70		

[†]For all Pentek XE series three-phase motor options, see page 65.

NOTE: Pump, Motor, Control Box or Magnetic Starter must be ordered separately. Check Valve not included on 50 GPM models.

^{*}Length and Weight are approximate.

^{**}For 10 GPM, 15 GPM and 20 GPM discharge is 1-1/4" NPT.

^{***}For 30 GPM and 50 GPM discharge is 2" NPT.

Stainless Steel

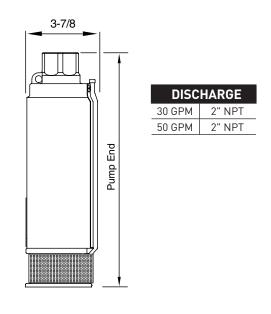
OUTLINE DIMENSIONS: 10, 15 AND 20 GPM

DISCHARGE 10 GPM 1-1/4" NPT 15 GPM 1-1/4" NPT 20 GPM 1-1/4" NPT

For lengths, refer to Ordering Information tables.

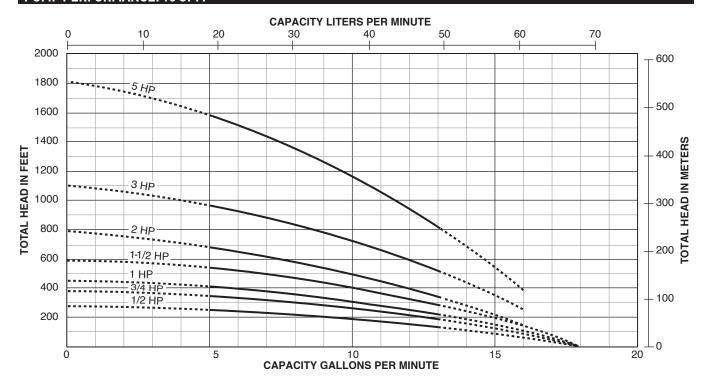
Dimensions (in inches) are for estimating purposes only.

OUTLINE DIMENSIONS: 30 AND 50 GPM



Pump diameter is 3-7/8".
For lengths, refer to Ordering Information tables.
Dimensions (in inches) are for estimating purposes only.

PUMP PERFORMANCE: 10 GPM

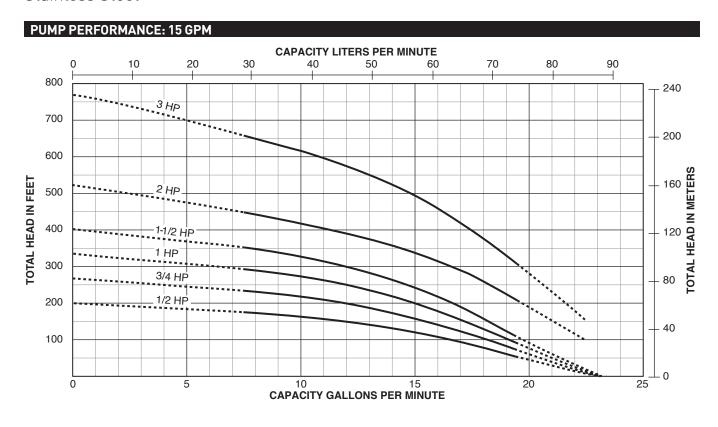


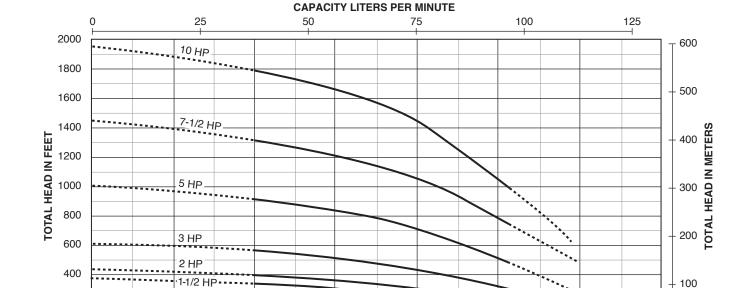
Tested and rated in accordance with Water Systems Council Standards.

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.

PUMP PERFORMANCE: 20 GPM

Stainless Steel





Tested and rated in accordance with Water Systems Council Standards.

5

1 HP

3/4 HP

10

200

0

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.

CAPACITY GALLONS PER MINUTE

20

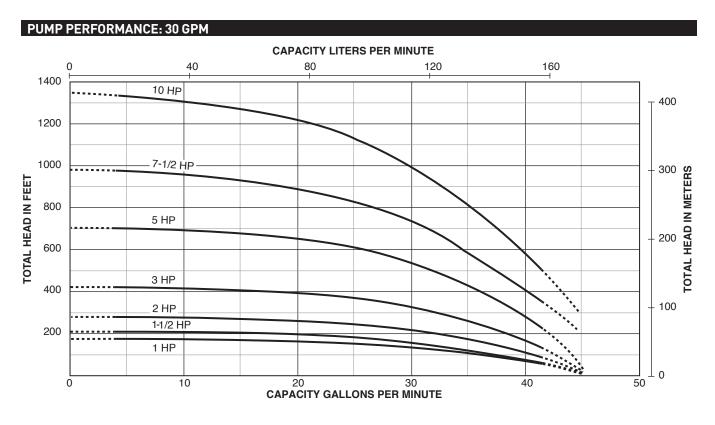
19 CB5625WS

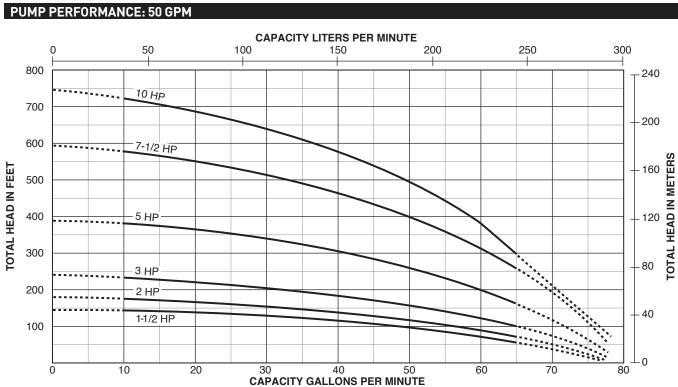
25

30

35

Stainless Steel





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.

Stainless Steel

O GA	LLONS	PE	R MI	NUT	Έ					PU	MP	PER	FOR	MAI	NCE	(Сар	acity	in ga	allon	s per	r min	ute)					
HP	PSI										Р	UMP	ING	DEP.	TH IN	l FEI	ΕT									SHUT-01	FF HEA
пР	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	FEET	PSI
	0	_	_	_	_	_	14.7	13.8	12.9	11.8	10.7	9.4	8.0	6.3	4.1												
	20	_	_	_	14.4	13.5	12.5	11.5	10.3	9.0	7.5	5.7	3.2														
	30	_	_	14.3	13.4	12.4	11.3	10.1	8.8	7.3	5.4	2.7															
1/2	40	_	14.2	13.2	12.2	11.1	9.9	8.6	7.0	5.1	2.0															278	120
1/2	50	14.0	13.1	12.1	11.0	9.7	8.4	6.8	4.7																	270	120
	60	12.9	11.9	10.8	9.5	8.1	6.5	4.3																			
	70	11.7	10.6	9.3	7.9	6.2	3.9																				
	80	10.4	9.1	7.7	5.9	3.4																					
	0		_		_		-	_	14.6	14.0			11.8	_	10.1	9.2		7.0	5.6	3.9							
	20	_	_	_	_	_	14.4	13.8	13.1	12.3	_	_	9.9	8.9	7.8	6.6	5.1	3.2									
	30				15.0	14.3	_	13.0	12.2	11.5	10.6	9.7	8.7	7.6	6.4	4.9	2.8										
3/4	40			14.9	14.2	13.6		12.1	11.3	10.5	9.6	8.6	7.5	6.2	4.6	2.4										382	16
,, -	50	15.4	14.8	14.1	13.5	12.7	_	11.2	10.3	9.4	8.4	7.3	6.0	4.3												302	10
	60	14.7	14.0	13.3	12.6	11.9		10.2	9.3	8.2	7.1	5.7	4.0														
	70	13.9	13.2	12.5	11.8	10.9	_	9.1	8.1	6.9	5.5	3.7															
	80	13.1	12.4	11.6	10.8	9.9	9.0	7.9	6.7	5.3	3.4				<u> </u>		$oxed{oxed}$										
	0	_	_		_	_	_	_	<u> </u>	14.8	14.2		13.1	12.5	11.8	11.1		9.6	8.8	7.9	6.9	5.7					
	20		_		_	_	-	14.6	14.1	13.5	12.9	_	11.6	10.9	10.2	9.4	8.5	7.6	6.6	5.3	3.8						
	30		_	_	_		14.5	14.0	13.4	12.8	12.2		10.8	10.1	9.3	8.4	7.5	6.4	5.1	3.5							
1	40		_		15.0	14.5	_	13.3	12.7	12.1	11.4	10.7	9.9	9.1	8.3	7.3	6.2	4.9	3.2							452	19
•	50	_	_	14.9	14.4	13.8		12.6	12.0	11.3	10.6	_	9.0	8.1	7.1	6.0	4.7	2.9								452	17
	60		14.8	14.3	13.7	13.1	12.5	11.9	11.2	10.5	9.7	8.9	8.0	7.0	5.8	4.4	2.6										
	70	14.7	14.2	13.6	13.0	12.4	11.8	11.1	10.4	9.6	8.7	7.8	6.8	5.6	4.2	2.2											
	80	14.1	13.5	12.9	12.3	11.7	11.0	10.2	9.5	8.6	7.7	6.6	5.4	3.9													
	0				_		_		_	_	_	15.0	14.6	14.1	13.7	13.3		12.3	11.8	11.3		10.2	8.6	6.8	4.3		
	20		_		_		<u> </u>	_	_	14.9	14.4	_	13.6	13.1	12.6	12.2	11.7	11.1		10.0	9.4	8.8	6.9	4.5			
	30	_		_	_		_	-	14.8	14.4	13.9		13.0		12.1	11.6	11.1	10.5	9.9	9.3	8.7	8.0	5.9	2.9			
-1/2	40				_		-	14.7	14.3	13.9	13.4		12.5	12.0	11.5	11.0	10.4	9.8	9.2	8.6	7.9	7.1	4.7			590	25
- 1/ 2	50	_	_	_	_	_	14.7	14.2	13.8	13.4	12.9	12.4	11.9	11.4	10.9	10.3	9.7	9.1	8.5	7.7	7.0	6.1	3.2			370	25
	60	_	_	_	15.0	14.6	14.2	13.7	13.3	12.8	12.4	11.9	11.3	10.8	10.2	9.6	9.0	8.3	7.6	6.8	6.0	4.9					
	70			14.9	14.5	14.1	13.7	13.2	12.8	12.3	11.8	11.3	10.7	10.1	9.5	8.9	8.2	7.5	6.7	5.8	4.8	3.5					
	80	_	14.9	14.5	14.0	13.6	13.2	12.7	12.2	11.7	11.2	10.6	10.1	9.5	8.8	8.1	7.4	6.6	5.7	4.6	3.3						
un.	DCI										PUN	MPIN	G DE	PTH	IN F	EET										SHUT-01	FF HE
HP	PSI	20	40	60	80	100	125	150	175 2	200 2	250 3	300 3	50 4	00 4	50 50	0 55	60	650	700	750	800	850	900	950	1000	FEET	PS
	0	_	-	_	-	-	_	_						2.0 11	.1 10	.2 9.	2 8.0			3.1							
	20		-	_	_	\rightarrow							2.0 1	_).2 9.	$\overline{}$	$\overline{}$	5.1	3.1								
2	30	_	-	-	-	\rightarrow					-		_	_	.8 8.	\rightarrow	_									806	34
-	40		-	_			$\overline{}$				$\overline{}$).2 9	$\overline{}$	$\overline{}$	$\overline{}$									000	0.4
	50		-	14.9	-	\rightarrow					$\overline{}$.8 7.	$\overline{}$	$\overline{}$	_									
	60	15.1	14.9	14.6	_	14.1	13.8	13.4	13.1 1	2.8 1	$\overline{}$	$\overline{}$	_	.5 8	$\overline{}$	$\overline{}$	$\overline{}$			-	-						
	0		-	-	-	-	-	-		-			14.3 13.8 13.3 12.8 12.3 11.8 11.0 10.2 9.5 8.7 7.6 6.4 5.3 4.1 13.8 13.3 12.8 12.3 11.8 11.0 10.2 9.5 8.7 7.6 6.4 5.3 4.1														
	20		-	-	-	-	-+	-	_	-	$\overline{}$	-	_	_	_	-	$\overline{}$	_	_	_		_	_		\vdash		
3	30	_	-	-	-	-	-					4.1 1						7 10.0		8.2	_	6.0	_	3.3	$\vdash \vdash \vdash$	1100	47
	40		-	-	-+	-			15.0 1				3.3 12	_	2.3 11		_			7.6		5.3		-	\vdash		
	50	_	-	-	-	_		$\overline{}$	14.8 1	-	-	-	$\overline{}$	_	2.2 11	$\overline{}$	$\overline{}$	_	_	7.5		5.0	3.9	-	$\vdash\vdash$		
	60			-	-	15.3	15.0	14.8	14.6 1	4.4 1						_		8.8	7.9	6.6	5.5	4.3			Ш		
HP	PSI				100			10		700	_	4PIN		_			_	<u> </u>		4/0	<u> </u>	-00	4/0	<u> </u>	====	SHUT-01	
		200		300	400		500	600		700	80		900	100		100	120		300	1400	_	500	160		700	FEET	PS
	20				15.3		14.6	14.		13.5	12.		12.3	11.	$\overline{}$	10.8	9.9		8.9	7.7		5.3	4.9		2.9		
	30	=			15.0 14.9		14.5 14.3	13. 13.		13.3 13.1	12. 12.	-	12.1 11.9	11.	$\overline{}$	10.3 10.2	9.4		8.5 8.2	7.1 6.7		5.6	4.1 3.7	$\overline{}$			
	l Oll	_													$\overline{}$							4.9	2.9			1824	74
5		_		_	1/. 7	7	147	13	h I	1/9	1 1/	3 1	116	1111		9 9			//	h 1							
5	40 50		_		14.7	$\overline{}$	14.2 14.1	13.		12.9 12.8	12. 12.		11.6 11.5	10.	-	9.9 9.8	8.9		7.7 7.5	6.3		4.7	2.7	-			

CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions. 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.

Stainless Steel

15 GAL	LONS	PER	MIN	IUTE					PU	MP P	ERF	ORM	ANC	Е (Са	pacity	y in g	allons	s per	minu	te)				
НР	PSI								ı	PUMF	PING	DEP1	TH IN	FEE.	Г								SHUT-0	FF HEAD
	FSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	FEET	PSI
	0	_	_	20.5	19.2	17.8	16.3	14.7	12.8	10.5	7.5													
	20	20.1	18.8	17.4	15.8	14.1	12.1	9.7	6.2															
	30	18.6	17.1	15.6	13.8	11.8	9.2	5.5																
1/2	40	16.9	15.3	13.5	11.4	8.8	4.6																201	87
1/2	50	15.1	13.2	11.0	8.3	3.4																	201	07
	60	12.9	10.7	7.8																				
	70	10.3	7.2																					
	80	6.6																						
	0	_	_	_	20.2	19.2	18.2	17.1	15.9	14.7	13.3	11.7	9.8	7.5	3.6									
	20	20.8	19.9	18.9	17.9	16.7	15.5	14.2	12.8	11.2	9.2	6.6												
	30	19.7	18.7	17.7	16.6	15.4	14.0	12.6	10.9	8.8	6.1													
3/4	40	18.6	17.5	16.4	15.2	13.8	12.3	10.6	8.5	5.5													269	116
3/4	50	17.3	16.2	15.0	13.6	12.1	10.3	8.1	4.8														207	110
	60	16.0	14.8	13.4	11.8	10.0	7.7	4.0																
	70	14.5	13.1	11.5	9.7	7.3	3.0																	
	80	12.9	11.3	9.3	6.8																			
	0	_	_	_	_	20.4	19.6	18.7	17.8	16.9	15.9	14.8	13.6	12.3	10.9	9.3	7.3	4.5						
	20	_	21.0	20.2	19.3	18.5	17.5	16.6	15.5	14.4	13.2	11.9	10.4	8.7	6.6	3.2								
	30	20.9	20.1	19.2	18.3	17.4	16.4	15.4	14.3	13.0	11.7	10.2	8.4	6.2	2.4									
1	40	19.9	19.1	18.2	17.3	16.3	15.2	14.1	12.8	11.5	9.9	8.1	5.7										336	145
'	50	18.9	18.0	17.1	16.1	15.0	13.9	12.6	11.3	9.7	7.8	5.3											330	145
	60	17.9	17.0	15.9	14.9	13.7	12.4	11.0	9.4	7.5	4.8													
	70	16.8	15.8	14.7	13.5	12.2	10.8	9.1	7.1	4.2														
	80	15.6	14.5	13.3	12.0	10.6	8.8	6.7	3.6															
	0	_	_	_	-	20.5	19.9	19.2	18.5	17.8	17.1	16.3	15.5	14.7	13.7	12.8	11.7	10.5	9.1	7.5	5.3			
	20	_	20.9	20.3	19.7	19.0	18.3	17.6	16.9	16.1	15.3	14.4	13.4	12.4	11.3	10.1	8.7	6.9	4.3					
	30	20.8	20.2	19.6	18.9	18.2	17.5	16.7	16.0	15.1	14.2	13.3	12.3	11.2	9.9	8.4	6.6	3.8						
1-1/2	40	20.1	19.5	18.8	18.1	17.4	16.6	15.8	15.0	14.1	13.1	12.1	11.0	9.7	8.2	6.2	3.0						403	174
1-1/2	50	19.4	18.7	18.0	17.3	16.5	15.7	14.9	14.0	13.0	11.9	10.8	9.5	7.9	5.9	1.8							403	1/4
	60	18.6	17.9	17.1	16.4	15.6	14.7	13.8	12.8	11.8	10.6	9.2	7.6	5.5										
	70	17.8	17.0	16.3	15.4	14.6	13.7	12.7	11.6	10.4	9.0	7.3	5.1											
	80	16.9	16.1	15.3	14.4	13.5	12.5	11.4	10.2	8.8	7.0	4.6												
115	DCI									PUMF	PING	DEP1	H IN	FEE	Г								SHUT-C	FF HEAD
HP	PSI	20	40	60	80	100	125	150	175	200	250	300	350	400	450	500	550	600	650	700	750	800	FEET	PSI
	0	_	_	_	_	_	_	20.7	20.2	19.6	18.3	16.9	14.4	11.6	7.4	2.7								
	20	_	_	_	21.2	20.9	20.2	19.7	19.1	18.4	17.0	14.7	11.8	7.8	3.2									
2	30	_	_	21.2	20.8	20.3	19.7	19.1	18.5	17.9	16.1	13.5	10.2	5.5									525	227
-	40	_	21.1	20.6	20.2	19.8	19.2	18.6	17.9	17.1	14.9	12.0	8.1	3.4									323	221
	50	21.1	20.6	20.1	19.7	19.2	18.6	17.9	17.1	16.2	13.6	10.8	6.0											
	60	20.5	20.1	19.6	19.1	18.7	18.0	17.2	16.2	15.1	12.2	8.6	3.7											
	0	_			-	-		_	_	21.0	20.2	19.5	18.7	17.8	16.6	15.0	13.0	10.8	8.0	4.9	1.6	\sqcup		
	20	_	_	_	-	-	-	21.1	20.8	20.3	19.5	18.8	17.9	16.7	15.1	13.2	11.1	8.3	5.2	1.9		\sqcup		
3	30	_		_	-	-	21.2	20.8	20.3	19.9	19.2	18.3	17.4	16.1	14.3	12.2	10.4	7.0	3.5	3.6		\vdash	770	333
	40	_	_	21 /	21.6	21.2	20.9	20.4	19.9	19.6	18.8	18.0	16.8	15.2	13.4	11.2	8.4	5.4	2.1		-	$\vdash \vdash \vdash$		
	50	_	21 /	21.6	21.1	20.9	20.4	20.0	19.7	19.2	18.4	17.5	16.2	14.4	12.3	10.5	7.1	3.8				\vdash		
	60	_	21.4	21.1	20.8	20.5	20.0	19.7	19.3	18.9	18.0	16.9	15.3	13.5	11.4	8.8	5.5							

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Stainless Steel

20 GAL	LONG	PF	S MI	NUT	F					Т	PU	MP F	PERI	ORM	ΙΔΝ	CF (ੇana	acity	ıin na	allone	s ner	min	utel					
20 07			• • • •											DEP				acity	m ge	100110	p per		a (C)				SHUT-01	FF HEAD
		_	1 00	Ι,	_		80	100	120	1		160	180	200	1			260	280	300	320	34	n a	360	380	400	FEET	PSI
HP	PSI 0	0	20	4	_	60 –	26.9	25.0		_		18.1	15.1	11.3	4.9		0 2	200	200	300	320	34	0 3	000	300	400	FEET	F31
	20	_	+-	26			22.3	19.9			4.1	9.8	13.1	11.3	4.7		+						+				-	
	30	27.9	26.	$\overline{}$		21.9	19.6	16.8			.0	7.0					+					+	+				1	
0//	40	25.8	23.8			19.2	16.4	12.9		\rightarrow							\top						\top					
3/4	50	23.4	21.2			15.9	12.3	7.0			T																225	97
	60	20.9	18.3			11.6	5.7																\perp]	
	70	17.9	14.9	$\overline{}$	1.9	3.8			_	_				ļ							_	1				_		
	80	14.3	10.2	_	_		07.0	0//	10/1	7 0	20	04.0	40.0	47.5	10	/ 10		0.0				-	4					
	20	<u> </u>	+-	27		<u> </u>	27.9	26.4 22.4				21.0 15.7	18.9	16.5 8.5	13.6	5 10.	.0 7	2.8				+	+				-	
	30	=	27.2			23.9	22.1	20.1	17.8			12.1	12.6 7.6	0.0	1		+					+	+			1	1	
	40	27.0	25.4				19.7	17.5			1.5	6.6	7.0		1		+					+	\dashv				1	
1	50	25.1	23.4			19.4	17.1	14.3			.5	0.0					\top						+				262	114
	60	23.1	21.2			6.7	13.9	10.3									\top						\top				1	
	70	20.9	18.	7 16	.3	13.4	9.6]	
	80	18.4	15.9	7 12	2.9	8.8																						
	0	_	<u> </u>			-	_		27.			25.6	24.4	23.1	21.7			18.6	16.9	15.0	12.7	10.	0	6.1			_	
	20	_	 -	<u> </u>		_	27.5	26.4				22.6	21.3	19.8	18.			14.3	12.0	9.0	4.1	-	_				-	
	30	-	<u> </u>	-			26.2	25.0				21.0	19.5	17.9	16.0		_	11.6	8.4	2.6	-	+	-			-	-	
1-1/2	40 50	_	27.0	27			24.8	23.6			7.8 7.0	19.3 17.3	17.6 15.4	15.7	13.0	$\overline{}$	_	7.8				+	+				375	162
	60	26.8	25.				21.8	20.3				15.1	12.9	10.2	6.5	$\overline{}$	4					+	+	-			1	
	70	25.5	24.				20.1	18.5		\rightarrow	4.8	12.5	9.7	5.6	0.5		_						+				1	
	80	24.1	22.				18.2	16.5			2.2	9.2	4.7	0.0									\top				1	
			•											DEP	THIR	J FFI	FT										SHUT-01	FF HEAD
ш	DC!			′.		100	125	150	175	200	_	_	_					400	4 E0	700	750	onn	OEU	000	OEO	1000		PSI
HP_	PSI	20	<u>40</u>	60	80	-	-	-	27.3	26.0	23.2		_	-	430	300	330	000	030	700	/30	800	000	700	730	1000	PEET	F31
	20	_	_	_	_	_	-	26.1	24.9	23.4				8.0					1			-					-	
	30	_	_	_	_	27.6	26.2		23.5	22.1	19.1								+			_					-	
2	40	<u> </u>	_	_	27.5	26.4	25.1		22.2	20.8	17.2	_	_						1								450	194
	50	_	_	27.2	26.1	25.1	23.8	22.3	20.9	19.3	14.0	_																
	60	_	27.1	26.0	25.0	23.9	22.4	21.0	19.4	17.3	10.8	_	1														1	
	0	_	_	_	_	_	_	_	_	_	27.2	25.3	23.5	21.3	19.1	16.0	11.3	3.6										
	20	_	-	_	_	_	_	_	_	27.3	25.4			19.3	16.1	12.0	5.0											
3	30	_	_	_	_	_	_	_	27.4	26.6	24.8				14.5	9.0											605	349
	40	_	_	_		_	_	27.5		25.5		21.7			12.5	5.3												347
	50	_		_	_	-	27.6	26.7	25.6	24.9	22.8				9.5				-			\rightarrow				-		
	60	_		_	_	27.7	26.8	-	24.9	23.9	21.8	_	_	-	5.6	05.0	0/0	00.0	04.5	00.0	10.0	40.0	1/0	11.0	1	-		
	0	_	_	_	_	_	-	_	-	_	-	 -	- 27./	$\overline{}$	26.5				_	20.2	\rightarrow	\rightarrow		11.0	6.8	-	-	
	20 30	_	_	_	_	_	_	-	_	_	Η-	+=	27.6	26.6	25.3 24.9	\rightarrow	22.9	21.6			_	14.0	11.2	7.3 5.2		-	-	
5	40	_	_	_	_	=	Η_	_	_	_	=	27.7		_	_	\rightarrow	21.7		$\overline{}$		16.2	11.5	9.5 7.7	3.1	-	1	1005	476
	50	_	_	=	H	H <u>-</u>	-	_	_	_	Ε			25.0								9.9	5.7	3.1			1	
	60	_	_	_	_	-	-	_	_	_	-			24.3									3.7				1	
					_			_						DEP					1								SHUT-N	FF HEAD
HP	PSI	200	<u> </u>	300		400	50	n	600	Τ.	700		00	900	_	000	110	nn	1200	1 1	300	140	n T	150	n	1600	FEET	PSI
пг	0	_		_	+	-	-	$\overline{}$	27.3	\rightarrow	25.7	_	4.3	23.1		21.5	19	$\overline{}$	16.4	$\overline{}$	11.3	4.	_	130		1000	FEET	FJI
	20		+	_				_	26.7	$\overline{}$	25.7 25.3		3.7	22.3	$\overline{}$	20.8	18		14.7	$\overline{}$	8.5	4.					-	
	30	_		_	+	_	<u> </u>	_	26.5		25.1	\neg	3.5	22.1		20.6	18	_	13.4	-	7.0		_		+		1	
7-1/2	40		_	_	+		27.	-	26.3		24.7	_	3.3	21.7	_	20.2	17	_	12.1	-	5.3						1450	628
	50			_			27.	_	25.7		24.7	_	2.7	21.3		19.7	16	_	10.6	_	3.6				+			
	60	_		_		_	26.	_	25.5	-	24.3		2.5	21.0		19.3	15		9.5		0.0							
	0	_	_	_		_		$\overline{}$	_		_	_	6.8	25.7	$\overline{}$	24.7	23	$\overline{}$	22.6	1	21.6	20.	7	19.5		17.1		
	20	<u> </u>		_	\top	_	<u> </u>	_	_		27.5	_	6.4	25.3	_	24.4	23	_	22.1	_	21.3	20.	_	18.5	-	16.0	1	
	30	_	_	_	\top	_	<u> </u>	_	_	\rightarrow	27.3	_	6.2	25.0		24.1	23	_	21.9	_	21.0	19.	_	18.0	_	15.0	1 40	044
10	40	_		_		_	-	.	_	\rightarrow	27.0	_	5.7	24.9	_	24.0	22	_	21.7		20.8	19.	_	17.6	-	14.7	1950	844
	50	_		_		_	-	.	27.8	\rightarrow	26.7		5.5	24.7	-	23.6	22	_	21.5	-	20.6	19.	\rightarrow	17.0	-	14.0	1	
	60	_		_		_	<u> </u>	.	27.5	\rightarrow	26.4	_	5.3	24.4	-	23.3	22	_	21.3	-	20.2	18.	\rightarrow	16.1	_	12.5	1	

CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions. 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.

Stainless Steel

30 GAL	LONS	PER	MIN	JTE					PU	MP P	ERFO	RMA	NCE	(Capa	city in	gallor	ns per	· minu	te)			
											DEPT					. .					SHUT-0	FF HEAD
НР	PSI	20	40	60	80	100	125	150	175	200	250	300	350	400	450	500	550	600	650	700	FEET	PSI
	0	-	42.5	40.9	39.1	36.8	32.5	26.0	8.0													
	20	40.4	38.8	36.0	32.4	27.7	13.3]	
4	30	38.0	35.3	31.7	26.3	14.3															175	7/
1	40	35.0	31.4	25.9	12.1																175	76
	50	30.2	24.0	3.0																		
	60	21.9																				
	0	_	_	41.9	39.9	37.5	34.1	30.9	26.9	17.0												
	20	41.2	39.1	36.5	34.0	31.5	27.8	21.5														
1-1/2	30	38.9	36.1	33.8	31.0	27.9	21.8														210	91
1-1/2	40	36.0	33.5	30.8	27.7	20.2																71
	50	32.9	30.1	26.8	21.5																	
	60	29.5	25.9	18.1																		
	0	-	_		41.8	40.5	38.8	36.8	34.7	31.6	23.7											
	20	_	41.3	40.1	38.7	37.1	34.9	32.1	29.0	24.8												
2	30	41.2	40.0	38.5	37.0	35.0	32.2	29.1	24.9	15.2											280	121
_	40	39.9	38.3	36.6	34.8	32.7	29.8	25.1	16.1												200	121
	50	38.0	36.3	34.5	32.1	30.0	25.3	17.5														
	60	36.0	34.0	31.9	29.1	26.0	18.0															
	0	_	_	_	_	42.7	41.6	40.1	39.6	38.2	35.5	32.0	27.3									
	20	_	_	42.4	41.5	41.0	39.8	38.5	37.1	35.7	32.1	28.0	18.5									
3	30	42.9	42.2	41.3	40.6	39.9	38.7	37.2	35.8	34.2	30.3	24.9	6.0								420	182
·	40	42.1	41.2	40.4	39.7	38.8	37.3	35.9	34.5	32.6	28.3	19.9										
	50	41.1	40.3	39.5	38.5	37.4	36.0	34.6	32.7	31.0	25.2	9.5										
	60	40.2	39.3	38.3	37.2	36.1	34.7	32.8	31.0	28.5	20.5											
	0	_	_	_	-	_	_	-	42.6	42.0	40.7	39.2	38.0	36.0	34.2	31.9	29.2	26.0	20.0		_	
	20	_	_	-	-	_	42.7	42.0	41.3	40.8	39.3	38.2	36.2	34.4	32.4	30.0	26.1	21.5			_	
5	30	_	_	-	-	42.8	42.1	41.4	40.8	40.1	38.7	37.0	35.1	33.1	31.1	26.0	24.1	16.0			705	305
	40	_	_	-	<u> </u>	42.1	41.5	40.9	40.2	39.3	37.9	36.1	34.3	32.0	29.4	26.2	20.4				_	
	50	_	_	42.6	42.0	41.5	41.2	40.2	39.5	38.8	37.1	35.4	33.2	31.2	28.8	24.5	16.0					
	60		42.5	42.0	41.4	41.1	40.3	39.8	38.9	38.1	36.2	34.2	32.1	30.0	26.7	22.0						
									_		DEPT											FF HEAD
HP	PSI	200	;	300	400	_	00	600	70	_	800	900	_	1000	1100	12	200	1300	14	400	FEET	PSI
	0	_		-	40.4		7.6	34.8	32.	_	28.1	20.0	_								_	
	20	_	_	42.0	39.3		5.5	33.8	30.		25.5	13.8									_	
7-1/2	30	_	4	41.3	38.6	35	5.8	33.1	29.		23.3	6.5									975	422
, .,_	40	_	4	40.7	38.1	35	5.6	32.6	29.		21.7										_ //	
	50	42.7	4	40.1	37.3	34	4.6	31.7	27.	-	19.3											
	60	42.0	- (39.4	36.5	_	3.7	30.7	25.	_	13.9		\perp									
	0	_		-	_		1.3	39.5	37.		35.1	33.1	-	30.4	27.1	2	2.5	11.9				
	20	_		-	42.3	40).5	38.6	36.	_	34.5	31.8		29.2	25.3	1	8.7					
10	30			-	42.0	40	0.1	43.0	35.	7	33.7	31.3		28.4	24.2	1	6.3				1345	582
10	40	_		-	41.6	39	7.7	37.7	35.	5	33.5	30.9		27.7	23.4	1	4.4				1343	302
	50	_	-	42.7	41.0	39	7.3	37.1	34.	9	32.8	30.2		26.7	21.7	7	7.7					
	60	_	1	42.3	40.6	38	3.7	36.5	34.	5	32.3	29.5		25.7	20.1		5.0					

CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions. 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.

Stainless Steel

50 GAI	LONS	PER	MINU	TE					PUM	IP PE	RFOR	MAN	CE (Ca	pacity	in gal	lons pe	er minu	ıte)	
							P	UMPI		PTH I				'				SHUT-0	FF HEAD
HP	PSI	20	40	60	80	100	125	150	175	200	250	300	350	450	550	650	700	FEET	PSI
	0	_	_	_	58.2	49.3	33.5												
	20	_	55.9	46.5	32.5														
1 1/0	30	54.8	45.0	30.0														4.5	/2
1-1/2	40	43.3	26.9															145	63
	50	21.9																	
	60																		
	0	_	_	_	63.3	57.0	47.8	33.9											
	20	_	62.2	55.1	46.8	37.1	13.0												
2	30	61.1	53.6	46.0	34.3	14.1												180	78
2	40	52.8	45.0	32.5	11.0													100	/0
	50	42.7	27.9																
	60	25.2																	
	0	_	_	_	_	64.5	59.4	52.5	45.0	33.8									
	20	_	_	63.7	59.0	53.5	46.5	36.2	18.2										
3	30	_	62.9	58.1	53.0	47.0	37.0	20.5										235	102
3	40	62.5	57.6	52.0	46.2	38.8	22.1											235	102
	50	56.5	51.0	44.7	36.2	22.8													
	60	50.0	43.7	34.0	20.5														
	0	_	_	_	_	_	_	65.9	63.2	59.9	51.9	41.9	22.5						
	20	_	_	_	_	_	63.5	60.8	56.1	52.4	42.5	24.9							
5	30	_	_	_	_	63.8	60.9	56.9	53.0	47.9	35.5	12.9						385	166
э	40	_	_	65.5	63.2	61.0	57.0	53.2	48.0	43.5	27.0							365	100
	50	_	65.1	63.0	60.8	57.1	53.3	48.1	43.6	36.4	14.2								
	60	64.9	62.4	60.0	56.9	53.7	48.7	44.1	37.5	28.0									
	0	_	_	_	_	_	_	_	_	_	66.0	61.0	55.3	43.1	20.0				
	20	_	_	_	_	_	_	_	_	64.8	61.1	56.0	50.0	34.9					
7-1/2	30	_	_	_	_	_	_	_	64.9	63.3	58.7	53.2	47.2	28.8				595	257
/- I/Z	40	_	_	_	_	_	_	65.0	63.6	61.7	56.2	50.9	44.1	22.0				373	257
	50	_	_	_	_	_	65.1	63.7	61.8	58.9	53.9	47.5	41.0	13.2					
	60	_	_	_	_	65.2	63.8	61.9	59.0	56.5	51.1	44.9	36.0						
	0	_	_	_	_	_	_	_	_	_	_	65.0	62.1	54.2	44.7	29.0	15.2		
	20	_	_	_	_	_	_	_	_	_	65.5	62.5	59.1	50.1	39.2	17.1			
10	30	_	_	_	_	_	_	_	_	66.9	64.1	61.2	56.9	47.5	35.0	10.5		745	322
10	40	_	_	_	_	_	_	_	67.0	65.8	63.0	59.3	54.9	45.2	30.5			740	322
	50	_	_	_	_	_	_	67.1	65.9	64.2	61.5	57.2	53.0	42.9	25.0				
	60	-	-	-	-	-	67.2	66.0	64.3	63.2	59.9	55.0	51.0	40.6	19.7				

CAUTION: DO NOT use pump at flow rates indicated by the symbol '-. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions.

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.

Composite, 5 and 7 GPM TrimLine™





Precision-engineered, corrosionresistant Composite Pumps in 5 and 7 GPM deliver efficient, dependable performance even in rough, aggressive water. Heads to over 850 feet and capacities to 10 GPM. Built to deliver long-term, trouble-free service.

These pumps feature the proven
SignaSeal™ staging system. Floating
stack design resists sand and reduces
sand locking.

The 5 and 7 GPM models are the smaller 3-3/4" diameter TrimLine.

APPLICATIONS

Water systems...for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Shell: Stainless steel

Discharge: Fiberglass-reinforced

thermoplastic

Discharge Bearing: Nylatron®

Intermediate Bearing: (On larger units) polycarbonate, nitrile rubber and

stainless steel

Impellers: Acetal

Diffusers: Polycarbonate

Suction Caps: Polycarbonate with

stainless steel insert

Thrust Pads: Proprietary spec.

Shaft and Coupling: Stainless steel

Intake: Fiberglass-reinforced thermoplastic

Intake Screen: Polypropylene Cable Guard: Stainless steel

Agency Listings: CSA

Check Valve: Spring-loaded check valve

FEATURES

Proven Staging System:

Our proven SignaSeal staging system incorporates a harder-than-sand ceramic wear surface that when incorporated with our floating impeller design, greatly reduces problems with abrasives, sand lock-up and running dry.

Discharge: Corrosion-resistant fiberglass-reinforced thermoplastic for durability in aggressive water. Large octagon wrench area for ease of installation.

Discharge Bearing: Exclusive selflubricating Nylatron bearing resists wear from sand.

Intake: Corrosion-resistant fiberglass-reinforced thermoplastic for durability in aggressive water.

Shaft: Positive drive from 7/16" hexagonal heavy-duty 300 grade stainless steel.

Coupling: Stainless steel press fit to pump shaft. Couples to all standard NEMA motors.

Shell: Crimped shell.

Hardware: All screws, washers and nuts are corrosion-resistant 300 grade stainless steel.

Check Valve: Spring-loaded check valve.

Cable Guard: Corrosion-resistant stainless steel guard protects motor leads. Tapered ends prevent pump from catching on well.

Intake Screen: Molded-in screen.

Pentek® XE Series™ Motor:

2 and 3 wire NEMA standard all stainless construction water-filled motors.

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Composite, 5 and 7 GPM TrimLine™

						ASSEM	ABLED PU	MP	ı	PUMP ENI)	мот	OR	CONTRO	DL BOX
ЭРМ	MOTOR TYPE	НР	STGS.	PH [†]	VOLT	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
		1/2	14	1	115	B5P4JP05121	28	28	SL5P4CJ	18	12	P42B0005A1	19		
	2 WIRE	1/2	14	1	230	B5P4JP05221	28	28	SL5P4CJ	18	12	P42B0005A2	19		
	2 WIKE	3/4	19	1	230	B5P4JP07221	33	34	SL5P4DJ	22	15	P42B0007A2	23		
		1	22	1	230	B5P4JP10221	37	39	SL5P4EJ	26	17	P42B0010A2	25		
5		1/2	13	1	115	B5P4JP05131	27-1/2	29	SL5P4CJ	18	12	P43B0005A1	19	SMC-IR0511	4
J		1/2	14	1	230	B5P4JP05231	28	28	SL5P4CJ	18	12	P43B0005A2	18	SMC-CR0521	4
	3 WIRE	3/4	19	1	230	B5P4JP07231	33	34	SL5P4DJ	22	15	P43B0007A2	21	SMC-CR0721	4
	3 WIKE	1	22	1	230	B5P4JP10231	37	39	SL5P4EJ	26	17	P43B0010A2	23	SMC-CR1021	4
		1	22	3	230				SL5P4EJ	25-1/4	17	P43B0010A3	23		
		1	22	3	460				SL5P4EJ	25-1/4	17	P43B0010A4	23		
		1/2	11	1	115	B7P4JP05121	26	27	SL7P4CJ	16	11	P42B0005A1	19		
		1/2	11	1	230	B7P4JP05221	26	27	SL7P4CJ	16	11	P42B0005A2	19		
	2 WIRE	3/4	15	1	230	B7P4JP07221	30	32	SL7P4DJ	19	13	P42B0007A2	23		
		1	18	1	230	B7P4JP10221	34	37	SL7P4EJ	22	15	P42B0010A2	25		
		1-1/2	22	1	230	B7P4JP15221	43	47	SL7P4FJ	28	21	P42B0015A2	29		
		1/2	10	1	115	B7P4JP05131	25-1/2	27	SL7P4CJ	16	12	P43B0005A1	19	SMC-IR0511	4
7		1/2	11	1	230	B7P4JP05231	26	27	SL7P4CJ	16	11	P43B0005A2	18	SMC-CR0521	4
		3/4	15	1	230	B7P4JP07231	29	32	SL7P4DJ	19	13	P43B0007A2	21	SMC-CR0721	4
	3 WIRE	1	17	3	230				SL7P4EJ	22	17	P43B0010A3	23	SMC-CR1021	4
	3 WIKE	1	17	3	460				SL7P4EJ	22	17	P43B0010A4	23		
		1-1/2	22	1	230	B7P4JP15231	41	44	SL7P4FJ	27-1/4	21	P43B0015A2	27		
		1-1/2	22	3	230				SL7P4FJ	27-1/4	21	P43B0015A3	23	SMC-CR1521	7
		1-1/2	22	3	460				SL7P4FJ	27-1/4	21	P43B0015A4	23		

27

TrimLine™ version maximum outside diameter is 3-3/4". Standard version maximum outside diameter is 3-7/8".

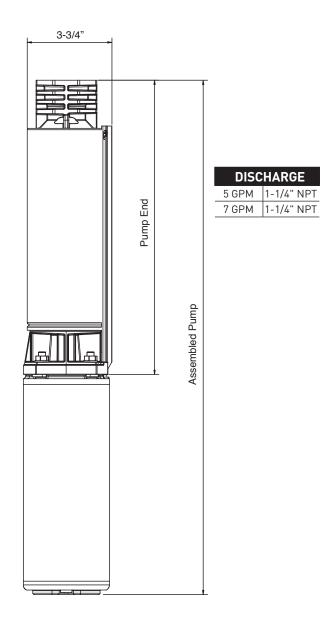
 $NOTE: Motor, \ Control \ Box \ or \ Magnetic \ Starter \ must \ be \ ordered \ separately. \ Discharge \ NPT \ is \ 1-1/4".$

[†]For all Pentek XE series three-phase motor options, see page 65.

^{*}Length and Weight are approximate.

Composite, 5 and 7 GPM $TrimLine^{TM}$

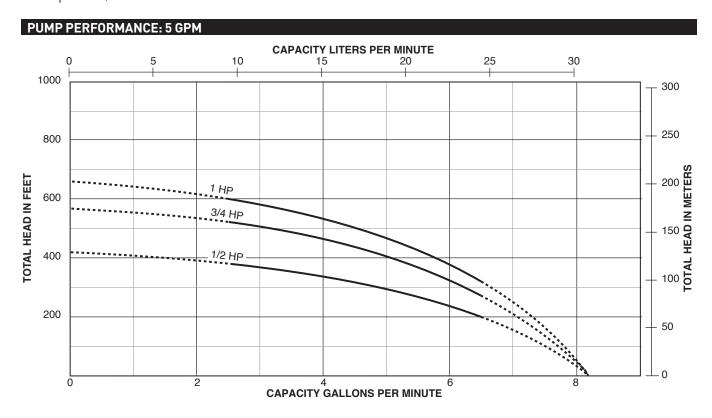
OUTLINE DIMENSIONS



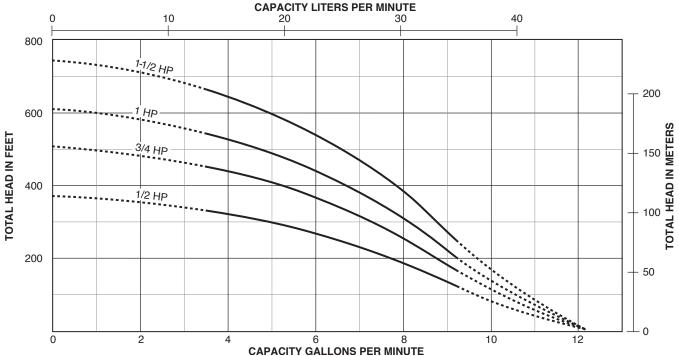
For dimensions, refer to Ordering Information table.

Dimensions (in inches) are for estimating purposes only.

Composite, 5 and 7 GPM TrimLine™



TOM TEM CHARACE. 7 OF M



Tested and rated in accordance with Water Systems Council Standards.

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Composite, 5 and 7 GPM TrimLine™

5 GA	LLON	IS P	ER	MIN	IUT	Ξ			Ρl	JMF	PE	RFC	DRM	ΙΑΝ	CE	Сар	acity	/ in (gallo	ns p	oer r	ninu	ite)										
													Р	UM	PIN	G DE	PTH	IIN	FEE	T												SHUT HE	
HP	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	600	650	700	750	800	850	FEET	PSI
	0	-	<u> </u>	-	_	-	<u> </u>	<u> </u>	7.3	7.0	6.8	6.5	6.2	5.9	5.6	5.2	4.9	4.4	4.0	3.5	2.9	2.1											
	20	_	_	_	_	7.5	7.2	7.0	6.7	6.4	6.1	5.8	5.5	5.1	4.7	4.3	3.9	3.3	2.7	1.7													
	30	_	_	_	7.4	7.2	6.9	6.6	6.4	6.1	5.7	5.4	5.1	4.7	4.2	3.8	3.2	2.5	1.5														
1/2	40	_	_	7.4	7.1	6.9	6.6	6.3	6.0	5.7	5.4	5.0	4.6	4.2	3.7	3.1	2.4	1.3														421	182
1/2	50		7.4	7.1	6.8	6.6	6.3	6.0	5.6	5.3	4.9	4.5	4.1	3.6	3.0	2.3	1.0															421	102
	60	7.3	7.1	6.8	6.5	6.2	5.9	5.6	5.3	4.9	4.5	4.0	3.5	2.9	2.1																		
	70	7.0	6.8	6.5	6.2	5.9	5.5	5.2	4.8	4.4	4.0	3.4	2.8	2.0																			
	80	6.7	6.4	6.1	5.8	5.5	5.1	4.8	4.3	3.9	3.4	2.7	1.8		ļ																		
	0	_	_	_	_	_	_	_	_	_	7.4	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.7	5.5	5.2	5.0	4.2	3.2	1.8								
	20	_	_	_	_	-		_	7.3	7.1	7.0	6.8	6.6	6.3	6.1	5.9	5.7	5.4	5.1	4.9	4.6	4.3	3.3	2.0								ļ	
	30	_	_	_	_	_	7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.1	5.9	5.6	5.4	5.1	4.8	4.5	4.2	3.9	2.8										
3/4	40	_	_	_	_	7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.1	5.8	5.6	5.3	5.1	4.8	4.5	4.2	3.8	3.4	2.1	<u> </u>	_	_	_	<u> </u>	_	_	_	571	247
-, -	50	_	_	_	7.4	7.3	7.1	6.9	6.7	6.5	6.2	6.0	5.8	5.5	5.3	5.0	4.7	4.4	4.1	3.7	3.3	2.9		_									
	60	_	<u> </u>	7.4	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.7	5.5	5.2	5.0	4.7	4.4	4.1	3.7	3.3	2.8	2.2										ļ	
	70	-	7.4	7.2	7.0	6.8	6.6	6.4	6.2	5.9	5.7	5.5	5.2	4.9	4.6	4.3	4.0	3.6	3.2	2.7	2.1	1.2		<u> </u>	-	-	-	_	_	-	_		
	80	7.4	7.2	7.0	6.8	6.6	6.4	6.1	5.9	5.7	5.4	5.2	4.9	4.6	4.3	3.9	3.6	3.1	2.6	2.0	EO	F 7	E 1	/ [2.0	2.0	1.2						
	20	_	_	_	_	-	_	-	-	7.4	7.3	7.5	7.3	7.1 6.7	7.0	6.8	6.6	6.4	6.3 5.8	5.6	5.9 5.4	5.7	5.1 4.5	4.5 3.8	3.8	1.4	1.2	\vdash				ł	
	30	-	_	=	_	├-	-	7.5	7.4	7.4	7.1	6.9	6.7	6.5	6.4	6.2	6.0	5.8	5.6	5.3	5.1	4.9	4.2	3.4	2.7	1.4						}	
	40	=	_	_	-	├-	7.5	7.4	7.4	7.0	6.9	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.3	5.1	4.8	4.6	3.9	3.0	1.6							}	
1	50	_	_	_	_	75	7.3	7.4	7.0	6.8	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.3	5.0	4.8	4.5	4.3	3.5	2.4	1.0							661	286
	60				7.5	7.3	7.2	7.0	6.8	6.6	6.5	6.3	6.1	5.9	5.7	5.5	5.2	5.0	4.8	4.5	4.2	3.9	3.1	1.7									
	70	_	-	7 6	7.3	7.3	7.0	6.8	6.6	6.4	6.2	6.1	5.9	5.6	5.4	5.2	5.0	4.7	4.5	4.2	3.9	3.6	2.5	1.7									
	80	_	7.4	7.3	7.1	6.9	6.8	6.6	6.4	6.2	6.0	5.8	5.6	5.4	5.2	4.9	4.7	4.4	4.1	3.8	3.5	3.1	1.9										

CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty is void when failure occurs under these conditions.

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.

Composite, 5 and 7 GPM TrimLine™

7 GALL	ONS	PER	MI	TUN	Έ				Ρl	JMP	PE	RF0	RM	ANC	E (0	Cap <u>a</u>	city	in ga	allor	ıs pe	er mi	inute	e) _							
													шм	PING	. DE	ртμ	INI	:667	-											-OFF AD
НР	PSI	0	20	40	60	ຂດ	100	120	140	160	120	_	_	_	_	_		_	_	340	380	/:nn	<i>1</i> .50	500	550	600	650	700	FEET	PSI
	0	_	11.0	10.7		_		9.3	8.9	8.6	8.1	7.7	7.2	6.7	6.2	5.6	5.0	4.2	3.3	300	300	400	450	300	330	000	000	700		1 31
	20	10.6	10.3	9.9	9.6	9.2	8.8	8.4	8.0	7.6	7.1	6.6	6.0	5.4	4.7	3.9	2.9	7.2	0.0											
	30	10.2	9.9	9.5	9.2	8.8	8.4	7.9	7.5	7.0	6.5	5.9	5.3	4.6	3.8	2.7	2/													
	40	9.8	9.5	9.1	8.7	8.3	7.9	7.4	6.9	6.4	5.9	5.2	4.5	3.7	2.5															
1/2	50	9.4	9.0	8.6	8.2	7.8	7.3	6.9	6.3	5.8	5.1	4.4	3.5	2.3															372	161
	60	9.0	8.6	8.2	7.7	7.3	6.8	6.2	5.7	5.0	4.3	3.3	2.0																	
	70	8.5	8.1	7.7	7.2	6.7	6.2	5.6	4.9	4.1	3.2																			
	80	8.0	7.6	7.1	6.6	6.1	5.5	4.8	4.0	3.0																				
	0	_	-	10.9	10.6	10.4	10.2	9.9	9.6	9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.2	6.9	6.5	6.1	5.7	5.2	3.8							
	20	10.8	10.6	10.3	10.1	9.8	9.6	9.3	9.0	8.7	8.4	8.1	7.8	7.5	7.1	6.8	6.4	6.0	5.5	5.0	4.5	3.9								
	30	10.5	10.3	10.0	9.8	9.5	9.2	9.0	8.7	8.4	8.1	7.8	7.4	7.1	6.7	6.3	5.9	5.5	5.0	4.4	3.8	3.0								
3/4	40	10.2	10.0	9.7	9.5	9.2	8.9	8.6	8.3	8.0	7.7	7.4	7.0	6.6	6.3	5.8	5.4	4.9	4.3	3.7	2.9								E07	220
3/4	50	10.0	9.7	9.4	9.2	8.9	8.6	8.3	8.0	7.7	7.3	7.0	6.6	6.2	5.8	5.3	4.8	4.2	3.6	2.8								507	307	220
	60	9.7	9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.3	6.9	6.5	6.1	5.7	5.2	4.7	4.1	3.5	2.6											
	70	9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.2	6.8	6.5	6.1	5.6	5.2	4.6	4.0	3.3	2.5												
	80	9.0	8.8	8.5	8.2	_	7.5	7.2	6.8	6.4	6.0	5.6	5.1	4.5	3.9	3.2	2.3													
	0	_	_	11.0	-	10.6	10.4	10.2	9.9	9.7	9.5	9.3	9.1	8.8	8.6	8.3	8.1	7.8	7.5	7.2	6.9	6.6	5.8	4.8	3.5					
	20	10.9	10.7	10.5	-	10.1	9.9	9.7	9.4	9.2	9.0	8.7	8.5	8.2	8.0	7.7	7.4	7.1	6.8	6.5	6.2	5.8	4.9	3.6						
	30	10.7	10.5	10.3	-	-	9.6	9.4	9.2	8.9	8.7	8.5	8.2	7.9	7.7	7.4	7.1	6.8	6.5	6.1	5.8	5.4	4.3	2.8						
1	40	10.4	10.2	10.0	9.8	9.6	9.4	9.1	8.9	8.7	8.4	8.2	7.9	7.6	7.4	7.1	6.8	6.4	6.1	5.7	5.3	4.9	3.7						608	263
	50	10.2	10.0	9.8	9.6	9.3	9.1	8.9	8.6	8.4	8.1	7.9	7.6	7.3	7.0	6.7	6.4	6.0	5.7	5.3	4.9	4.4	3.0							
	60	10.0	9.7	9.5	9.3	9.1	8.8	8.6	8.3	8.1	7.8	7.5	7.3	7.0	6.7	6.3	6.0	5.6	5.2	4.8	4.3	3.8								
	70	9.7	9.5	9.3	9.0	8.8	8.6	8.3	8.0	7.8	7.5	7.2	6.9	6.6	6.3	5.9	5.6	5.2	4.7	4.3	3.7	3.1								
	80	9.5	9.2	9.0	8.8	8.5	8.3	8.0	7.7	7.5	7.2	6.9	6.6	6.2	5.9	5.5	5.1	4.7	4.2	3.6	3.0	2.1						0.7		
	0	11.0	10.0	11.0	_	-	10.5	-	10.2	10.0	_	9.7	9.5	9.3	9.1	8.9	8.8	8.6	8.3	8.1	7.9	7.7	7.1	6.5	5.8	5.0	4.0	2.7		
	20	11.0	10.8	_	10.5	_	10.2	-	9.8	9.6	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.6	7.4	7.2	6.5	5.8	5.0	4.1	2.8			
	30	10.8	10.6	_	10.3	+	10.0	-	9.6	9.4	9.2	9.1	8.9	8.7	8.5	8.3	8.0	7.8	7.6	7.4	7.1	6.9	6.2	5.5	4.6	3.5				
1-1/2	40	10.6	10.4	10.3	+	9.9	9.8	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.2	8.0	7.8	7.6	7.3	7.1	6.8	6.6	5.9	5.1	4.2	2.9			744	322
	50	10.4	10.2	9.9	9.9	9.7	9.6	9.4	9.0	9.0	8.8	8.6	8.4	7.9	7.7	7.8	7.5	7.3	7.1 6.8	6.8	6.5	6.3 5.9	5.5	4.7	3.6	Z.1				
	60 70		9.9	9.7	9.7	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.7	7.7	7.2		6.7	6.5	6.2	5.9	5.6	4.8	3.7	2.3					
	80	9.8	9.9	9.7	9.3	9.1	8.9	8.7	8.7	8.3	8.1	7.9	7.6	7.4	7.2	6.9	7.0	6.4	6.1	5.9	5.5	5.2	4.8	3.7	2.3					
	δU	7.0	7.0	7.5	7.3	7.1	0.7	ŏ./	8.0	0.5	Ö. I	1.7	/.0	7.4	1.2	0.7	0./	0.4	0.1	0.7	0.0	J.Z	4.5	ا ا						

CAUTION: D0 NOT use pump at flow rates indicated by the symbol '-'. To do so can cause premature failure of unit. Pump warranty is void when failure occurs under these conditions.

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.

Composite



Precision-engineered, corrosionresistant Composite Pumps in 10, 15, 20 and 30 GPM deliver efficient, dependable performance even in rough, aggressive water. Heads to over 650 feet and capacities to 45 GPM. Built to deliver long-term, troublefree service.

These pumps feature the proven
SignaSeal™ staging system. Floating
impeller design resists sand and
reduces sand locking.

APPLICATIONS

Water systems... for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Shell: Stainless steel

Diameter: 3-7/8"

Discharge: Fiberglass-reinforced

thermoplastic

Discharge Bearing: Nylatron®

Intermediate Bearing: (On larger units) polycarbonate, nitrile rubber and

stainless steel

Impellers: Acetal

Diffusers: Polycarbonate

Suction Caps: Polycarbonate with stainless

steel insert

Thrust Pads: Proprietary spec.
Shaft and Coupling: Stainless steel

Intake: Fiberglass-reinforced

thermoplastic

Intake Screen: Polypropylene Cable Guard: Stainless steel

Check Valve: Spring-loaded check valve

Agency Listings: CSA

FEATURES

Proven Staging System: Our proven SignaSeal staging system incorporates a harder-than-sand ceramic wear surface that when incorporated with our floating impeller design, greatly reduces problems with abrasives, sand lock-up and running dry.

Discharge: Corrosion-resistant fiberglass-reinforced thermoplastic for durability in aggressive water. Large octagon wrench area for ease of installation.

Discharge Bearing: Exclusive self-lubricating Nylatron bearing resists wear from sand.

Intake: Corrosion-resistant fiberglass-reinforced thermoplastic for durability in aggressive water.

Shaft: Positive drive from 7/16" hexagonal heavy-duty 300 grade stainless steel.

Coupling: Stainless steel press fit to pump shaft. Couples to all standard NEMA motors.

Shell: Crimped shell.

Hardware: All screws, washers and nuts are corrosion-resistant 300 grade stainless steel.

Check Valve: Spring-loaded check valve. **Cable Guard:** Corrosion-resistant stainless

steel guard protects motor leads. Tapered ends prevent pump from catching on well.

Intake Screen: Molded-in screen.

Pentek® XE Series™ Motor:

2 and 3 wire NEMA standard all stainless construction water-filled motors.

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Composite

							== =::		_						al Bev
	MOTOR			+		CATALOG	IBLED PU LENGTH	WEIGHT	CATALOG	LENGTH	WEIGHT	MOT CATALOG	WEIGHT	CONTRO	WEIGHT
GPM	TYPE	HP	STGS.	PH '	VOLT	NUMBER	INCHES*	POUNDS*	NUMBER	INCHES*	POUNDS*	NUMBER	POUNDS*	NUMBER	POUNDS
		1/2	8	1	115	B10P4MS05121	23	28	L10P4CMGS	13	9	P42B0005A1	19		
		1/2	8	1	230	B10P4MS05221	23	28	L10P4CMGS	13	9	P42B0005A2	19	-	
	2 WIRE	3/4	11	1	230	B10P4MS07221	26	31	L10P4DMGS	15	10	P42B0007A2	23		
		1	13	1	230	B10P4MS10221	29	35	L10P4EMGS	17	11	P42B0010A2	25		
		1-1/2	17	1	230	B10P4MS15221	35	42	L10P4FMGS	20	12	P42B0015A2	29	CMO IDOE44	,
		1/2	7 8	1	115	B10P4MS05131	22-3/4	27-1/2	L10P4CMGS	12-3/4	9	P43B0005A1	19	SMC-IR0511	4
10**		1/2 3/4	_	1	230	B10P4MS05231	23	28	L10P4CMGS	13 15	-	P43B0005A2 P43B0007A2	19	SMC-CR0521	
		3/4	11	1	230	B10P4MS07231 B10P4MS10231	26 29	31 35	L10P4DMGS L10P4EMGS	17	10 11	P43B0007A2 P43B0010A2	21	SMC-CR0721 SMC-CR1021	4
	3 WIRE	1	13	3	230	DIUP4MS10231	Z7	30	L10P4EMGS	15-1/2	10-1/4	P43B0010A2	23	SMIC-CK 1021	4
	3 WIKE	1	13	3	460				L10P4EMGS	15-1/2	10-1/4	P43B0010A3	23		
		1-1/2	17	1	230	B10P4MS15231	34	42	L10P4FMGS	20	12	P43B0010A4	27	SMC-CR1521	7
		1-1/2	17	3	230	D101 4M313231	34	42	L10P4FMGS	19-3/4	12-1/2	P43B0015A2	23	JMC-01(1321	
		1-1/2	17	3	460				L10P4FMGS	19-3/4	12-1/2	P43B0015A4	23	-	
		1/2	6	1	115	B15P4MS05121	23	27	L15P4CMGS	13	9	P42B0005A1	19		
		1/2	6	1	230	B15P4MS05221	23	27	L15P4CMGS	13	9	P42B0005A1	19	-	
	2 WIRE	3/4	8	1	230	B15P4MS07221	26	31	L15P4DMGS	15	10	P42B0007A2	23	-	
		1	10	1	230	B15P4MS10221	30	35	L15P4EMGS	17	11	P42B0010A2	25	-	
		1-1/2	12	1	230	B15P4MS15221	36	43	L15P4FMGS	21	13	P42B0015A2	29	1	
		1/2	5	1	115	B15P4MS05131	22-1/4	27	L15P4CMGS	12-1/4	9	P43B0005A1	19	SMC-IR0511	4
		1/2	6	1	230	B15P4MS05231	23	27	L15P4CMGS	13	9	P43B0005A2	19	SMC-CR0521	4
15**		3/4	8	1	230	B15P4MS07231	26	31	L15P4DMGS	15	10	P43B0007A2	21	SMC-CR0721	4
		1	10	1	230	B15P4MS10231	30	35	L15P4EMGS	17	11	P43B0010A2	23	SMC-CR1021	4
	3 WIRE	1	9	3	230				L15P4EMGS	15-1/2	10-1/4	P43B0010A3	23		
		1	9	3	460				L15P4EMGS	15-1/2	10-1/4	P43B0010A4	23	1	
		1-1/2	12	1	230	B15P4MS15231	34	41	L15P4FMGS	21	13	P43B0015A2	27	SMC-CR1521	7
		1-1/2	12	3	230				L15P4FMGS	20-1/4	13	P43B0015A3	23		
		1-1/2	12	3	460				L15P4FMGS	20-1/4	13	P43B0015A4	23		
		3/4	6	1	230	B20P4MS07221	23-3/4	30	L20P4DMGS	13	9	P42B0007A2	23		
	2 WIRE	1	7	1	230	B20P4MS10221	27-1/4	34	L20P4EMGS	15	10	P42B0010A2	25		
		1-1/2	10	1	230	B20P4MS15221	32	39	L20P4FMGS	17	11	P42B0015A2	29		
		3/4	6	1	230	B20P4MS07231	23-3/4	30	L20P4DMGS	13	9	P43B0007A2	23	SMC-CR0721	4
		1	7	1	230	B20P4MS10231	27-1/4	34	L20P4EMGS	15	10	P43B0010A2	25	SMC-CR1021	4
		1	7	3	230				L20P4EMGS	15-1/2	10-1/4	P43B0010A3	23		
20**		1	7	3	460				L20P4EMGS	15-1/2	10-1/4	P43B0010A4	23		
	3 WIRE	1-1/2	10	1	230	B20P4MS15231	30-1/2	39	L20P4FMGS	17	11	P43B0015A2	29	SMC-CR1521	7
	O WINE	1-1/2	9	3	230				L20P4FMGS	16-3/4	10-3/4	P43B0015A3	23		
		1-1/2	9	3	460				L20P4FMGS	16-3/4	10-3/4	P43B0015A4	23		
		2	12	1	230				L20P4GMGS	20-1/4	12-1/2	P43B0020A2	31	SMC-CR2021	7
		2	12	3	230				L20P4GMGS	20-1/4	12-1/2	P43B0020A3	23		
		2	12	3	460				L20P4GMGS	20-1/4	12-1/2	P43B0020A4	23		
	2 WIRE	1	5	1	230	B30P4MS10221	26-1/2	35	L30P4EMGS	14	10	P42B0010A2	25		
		1-1/2	6	1	230	B30P4MS15221	30-1/2	39	L30P4FMGS	15-1/4	11	P42B0015A2	29	0140 004004	· ·
		1	5	1	230	B30P4MS10231	26-1/2	35	L30P4EMGS	14	10	P43B0010A2	23	SMC-CR1021	4
		1	5	3	230				L30P4EMGS	15-1/2	10-1/4	P43B0010A3	23	-	
00++		1 1/0	5	3	460	D00D/14045001	00	00	L30P4EMGS	15-1/2	10-1/4	P43B0010A4	23	CMO 004501	-
30**	24/25	1-1/2	6	1	230	B30P4MS15231	29	39	L30P4FMGS	15-1/4	11	P43B0015A2	27	SMC-CR1521	7
	3 WIRE	1-1/2	6	3	230				L30P4FMGS	15-1/4	11	P43B0015A3	23	-	
		1-1/2	6	3	460				L30P4FMGS	15-1/4	11	P43B0015A4	23	CMO ODOOO4	
		2	8	1	230				L30P4GMGS	18-1/4	12	P43B0020A2	31	SMC-CR2021	7
		2	8	3	230	I			L30P4GMGS	18-1/4	12	P43B0020A3	23	1	

[†]For all Pentek XE series three-phase motor options, see page 65. *Length and Weight are approximate.

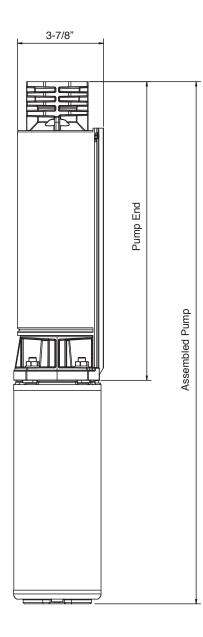
NOTE: On 2 HP and larger pumps – Motor, Control Box or Magnetic Starter must be ordered separately.

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^{**}For 10 GPM, 15 GPM, 20 GPM and 30 GPM discharge is 1-1/4" NPT.

Composite

OUTLINE DIMENSIONS



DISC	HARGE
10 GPM	1-1/4" NPT
15 GPM	1-1/4" NPT
20 GPM	1-1/4" NPT
30 GPM	1-1/4" NPT

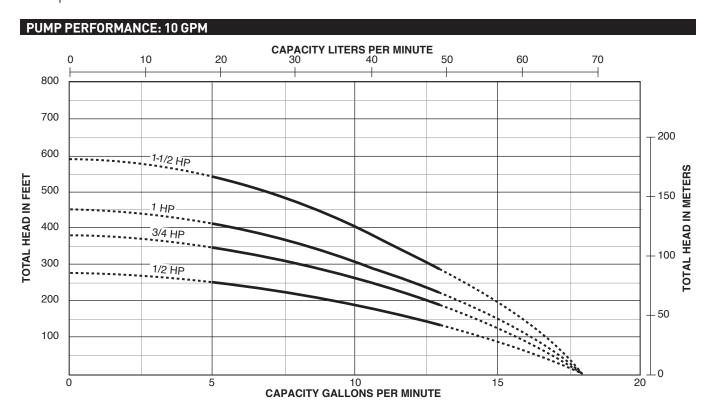
For lengths, refer to Ordering Information tables.

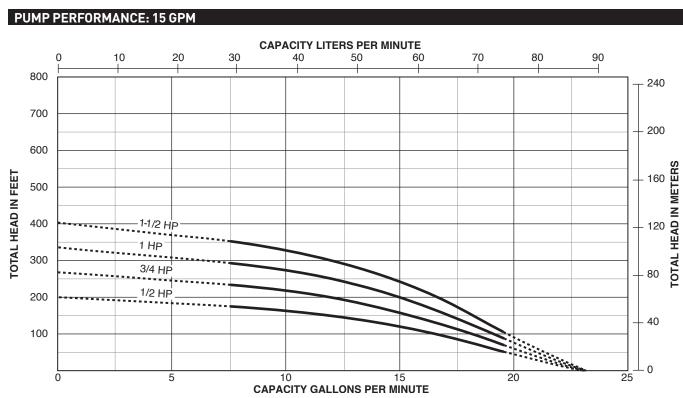
Dimensions (in inches) are for estimating purposes only.

CB5657WS

34

Composite





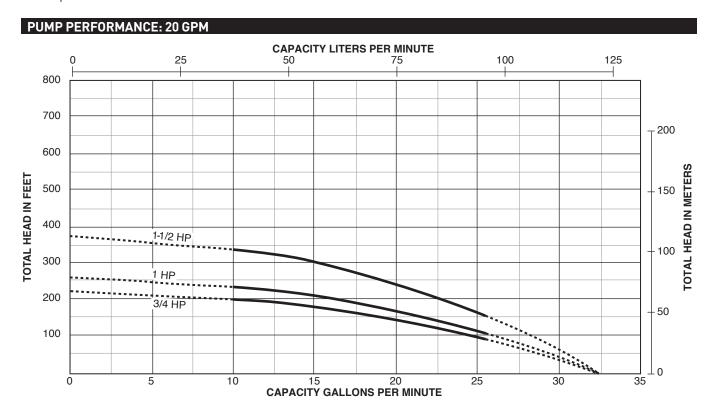
Tested and rated in accordance with Water Systems Council Standards.

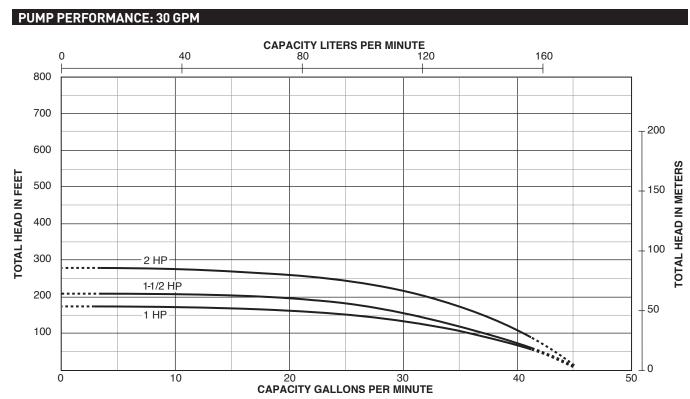
NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

35 CB5657WS

JP Series Signature

Composite





Tested and rated in accordance with Water Systems Council Standards.

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Composite

He Psi	10 GAL	LONS	PER	MIN	UTE						PU	MP	PERI	-ORI	MAN	CE (Сара	city i	n gal	lons	per r	ninut	te)					
1/2 1/2												PUN	1PIN	G DE	PTH	IN F	EET											T-OFF AD
1/2 1/2 1/3 1/3 1/2 1/3 1/3 1/2 1/3	HP	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	FEET	PSI
1/2 1/2 1/2 1/2 1/3 1/2 1/3 1/2 1/3 1/2 1/3 1/3 1/2 1/3		0	-	-	_	-	_	14.7	13.8	12.9	11.8	10.7	9.4	8.0	6.3	4.1												
1/2 1/2 1/3 1/3 1/2 1/1 1/3 1/3 1/2 1/3		20	_	_	_	14.4	13.5	12.5	11.5	10.3	9.0	7.5	5.7	3.2														
1/2		30	_	_	14.3	13.4	12.4	11.3	10.1	8.8	7.3	5.4	2.7															
140 131 121 110 9,7 8,4 6,8 4,7	1/2	40	_	14.2	13.2	12.2	11.1	9.9	8.6	7.0	5.1	2.0															270	120
11-12 10.6 9.3 7.9 6.2 3.9 1.0 1	1/2	50	14.0	13.1	12.1	11.0	9.7	8.4	6.8	4.7																	2/0	120
80		60	12.9	11.9	10.8	9.5	8.1	6.5	4.3																			
3/4 1-1/2 0		70	11.7	10.6	9.3	7.9	6.2	3.9																				
3/4 20		80	10.4	9.1	7.7	5.9	3.4																					
3/4 30		0	_	_	_	_	_	_	_	14.6	14.0	13.3	12.6	11.8	11.0	10.1	9.2	8.2	7.0	5.6	3.9							
3/4 40		20	_	_	_	_	_	14.4	13.8	13.1	12.3	11.6	10.7	9.9	8.9	7.8	6.6	5.1	3.2									
3/4 50		30	_	_	_	15.0	14.3	13.7	13.0	-	11.5	10.6	9.7	8.7	7.6	6.4	4.9	2.8										
1-1/2 50	3/4	40	_	_	14.9	-	13.6	_	12.1	11.3	-	9.6	8.6	7.5	6.2	4.6	2.4										382	165
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,4	50	15.4	14.8	14.1	13.5	12.7	12.0	11.2	10.3	9.4	8.4	_	6.0	4.3												002	
1-1/2 80		60	14.7	14.0		12.6	11.9	11.1	10.2	9.3	8.2	7.1	-	4.0														
1-1/2 1-1/2		<u> </u>	13.9	-	12.5	11.8		10.1		8.1	_	-	3.7															
1-1/2 20			13.1	12.4	11.6	10.8	9.9	9.0	7.9	6.7																		
1-1/2 30 - - - - 14.5 14.0 13.4 12.8 12.2 11.5 10.8 10.1 9.3 8.4 7.5 6.4 5.1 3.5		<u> </u>	-	_	_	_	_	_			-	-	-	-	_	_			_			-	5.7					
1-1/2 40				-		_	_			_	-	-	-	-		_			-	_		3.8						
1-1/2 50 - - 14.9 14.4 13.8 13.2 12.6 12.0 11.3 10.6 9.8 9.0 8.1 7.1 6.0 4.7 2.9								_		-	_					_	_			-	3.5							
1-1/2 1-1/	1		-		_	_	_	_			-	-	_		-	_	_	_	_	3.2							452	195
1-1/2 The following interpretation of the first state of the first s			-	-	_	_	-			-	_	-	_	_		_	_		2.9									
1-1/2 80 14.1 13.5 12.9 12.3 11.7 11.0 10.2 9.5 8.6 7.7 6.6 5.4 3.9 8 8.6 14.1 13.7 13.3 12.8 12.3 11.8 11.3 10.8 10.2 8.6 6.8 4.3 20 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9			-	_	-	-	-	_		_	-	-				-		2.6										
1-1/2 0 - - - - - - - - -			-	_	-	_	_	_		_	-		_		-	4.2	2.2											
1-1/2 20 - - - - - - - - -			_							_				-		10.7	10.0	12.0	12.2	11.0	11.0	10.0	10.0	0 /	/ 0	/ 2		
1-1/2 30 - - - - - - - 14.8 14.4 13.9 13.5 13.0 12.6 12.1 11.6 11.1 10.5 9.9 9.3 8.7 8.0 5.9 2.9 40 - - - - - - 14.7 14.3 13.9 13.4 13.0 12.5 12.0 11.5 11.0 10.4 9.8 9.2 8.6 7.9 7.1 4.7 4.7 50 - - - - - 14.7 14.2 13.8 13.4 12.9 12.4 11.9 11.4 10.9 10.3 9.7 9.1 8.5 7.7 7.0 6.1 3.2 50 13.4 13.5		_	-	-												_				_		-	_	-		4.5		
1-1/2 40			_	-		_	_			_	-	-	_		_	_		_	-	_	_		-	-	<u> </u>			
1-1/2 50 15.0 14.6 14.2 13.8 13.4 12.9 12.4 11.9 11.4 10.9 10.3 9.7 9.1 8.5 7.7 7.0 6.1 3.2 590 60 15.0 14.6 14.2 13.7 13.3 12.8 12.4 11.9 11.3 10.8 10.2 9.6 9.0 8.3 7.6 6.8 6.0 4.9				-			-	_		_	-		_	_	_	_			_	-		-	-		Z.7			
60 15.0 14.6 14.2 13.7 13.3 12.8 12.4 11.9 11.3 10.8 10.2 9.6 9.0 8.3 7.6 6.8 6.0 4.9	1-1/2					_				_	-	_	_			_						-	_	-			590	256
								_			_	-	_		-	_	_	_	_	_			-	J.2				
70 - - 14.9 14.5 14.1 13.7 13.2 12.8 12.3 11.8 11.3 10.7 10.1 9.5 8.9 8.2 7.5 6.7 5.8 4.8 3.5		70	-	Η_	14.9	14.5	14.0	13.7	13.7	12.8	12.3	11.8	11.7	10.7	10.0	9.5	8.9	8.2	7.5	6.7	5.8	4.8	3.5	\vdash				
80 - 14.9 14.5 14.0 13.6 13.2 12.7 12.2 11.7 11.2 10.6 10.1 9.5 8.8 8.1 7.4 6.6 5.7 4.6 3.3			-	1/, 9	_	_				-	_	-	_			_	_			_		-	0.0	\vdash				

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Composite

10 07(LONS F		iii							MP P PUMI						nn gai		pei II	miace	· r · · ·				-OFF
HP	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	FEET	PSI
	0	-	_	20.5	19.2	17.8	16.3	14.7	12.8	10.5	7.5													
	20	20.1	18.8	17.4	15.8	14.1	12.1	9.7	6.2															
	30	18.6	17.1	15.6	13.8	11.8	9.2	5.5																
1/2	40	16.9	15.3	13.5	11.4	8.8	4.6																201	87
1/2	50	15.1	13.2	11.0	8.3	3.4																	201	07
	60	12.9	10.7	7.8																				
	70	10.3	7.2																					
	80	6.6																						
	0	_	-	_	20.2	19.2	18.2	17.1	15.9	14.7	13.3	11.7	9.8	7.5	3.6									
	20	20.8	19.9	18.9	17.9	16.7	15.5	14.2	12.8	11.2	9.2	6.6												
	30	19.7	18.7	17.7	16.6	15.4	14.0	12.6	10.9	8.8	6.1													
3/4	40	18.6	17.5	16.4	15.2	13.8	12.3	10.6	8.5	5.5													269	116
J/ -	50	17.3	16.2	15.0	13.6	12.1	10.3	8.1	4.8														207	'''
	60	16.0	14.8	13.4	11.8	10.0	7.7	4.0																
	70	14.5	13.1	11.5	9.7	7.3	3.0																	
	80	12.9	11.3	9.3	6.8																			
	0	-	_	_	_	20.4	19.6	18.7	17.8	16.9	15.9	14.8	13.6	12.3	10.9	9.3	7.3	4.5						
	20	ļ -	21.0	20.2	19.3	18.5	17.5	16.6	15.5	14.4	13.2	11.9	10.4	8.7	6.6	3.2								
	30	20.9	20.1	19.2	18.3	17.4	16.4	15.4	14.3	13.0	11.7	10.2	8.4	6.2	2.4									
1	40	19.9	19.1	18.2	17.3	16.3	15.2	14.1	12.8	11.5	9.9	8.1	5.7										336	145
-	50	18.9	18.0	17.1	16.1	15.0	13.9	12.6	11.3	9.7	7.8	5.3												
	60	17.9	17.0	15.9	14.9	13.7	12.4	11.0	9.4	7.5	4.8													
	70	16.8	15.8	14.7	13.5	12.2	10.8	9.1	7.1	4.2														
	80	15.6	14.5	13.3	12.0	10.6	8.8	6.7	3.6															
	0	-	_	-	_	20.5	19.9	19.2	18.5	17.8	17.1	16.3	15.5	14.7	13.7	12.8	11.7	10.5	9.1	7.5	5.3			
	20	-	20.9	20.3	19.7	19.0	18.3	17.6	16.9	16.1	15.3	14.4	13.4	12.4	11.3	10.1	8.7	6.9	4.3					
	30	20.8	20.2	19.6	18.9	18.2	17.5	16.7	16.0	15.1	14.2	13.3	12.3	11.2	9.9	8.4	6.6	3.8	<u> </u>					
1-1/2	40	20.1	19.5	18.8	18.1	17.4	16.6	15.8	15.0	14.1	13.1	12.1	11.0	9.7	8.2	6.2	3.0						403	174
•	50	19.4	18.7	18.0	17.3	16.5	15.7	14.9	14.0	13.0	11.9	10.8	9.5	7.9	5.9	1.8								
	60	18.6	17.9	17.1	16.4	15.6	14.7	13.8	12.8	11.8	10.6	9.2	7.6	5.5									_	
	70	17.8	17.0	16.3	15.4	14.6	13.7	12.7	11.6	10.4	9.0	7.3	5.1						_					
	80	16.9	16.1	15.3	14.4	13.5	12.5	11.4	10.2	8.8	7.0	4.6												I

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Composite

20 GAL	LONS P	ER M	INU	ſΕ					PU	MP P	ERF	ORM	ANC	E (Ca	pacity	y in g	allon:	s per	minu	te)				
										PUMF	PING	DEP1	TH IN	FEE1	Г								SHUT HE	
HP	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	FEET	PSI
	0	_	_	_	_	26.9	25.0	23.0	20.7	18.1	15.1	11.3	4.9											
	20	-	_	26.3	24.4	22.3	19.9	17.3	14.1	9.8														
	30	27.9	26.1	24.1	21.9	19.6	16.8	13.5	9.0															
3/4	40	25.8	23.8	21.6	19.2	16.4	12.9	8.0															225	97
3/4	50	23.4	21.2	18.8	15.9	12.3	7.0																225	71
	60	20.9	18.3	15.4	11.6	5.7																		
	70	17.9	14.9	10.9	3.8																			
	80	14.3	10.2																					
	0	_	_	_	_	27.9	26.4	24.7	23.0	21.0	18.9	16.5	13.6	10.0	2.8									
	20	-	_	27.5	25.9	24.2	22.4	20.4	18.2	15.7	12.6	8.5												
	30	_	27.2	25.6	23.9	22.1	20.1	17.8	15.2	12.1	7.6													
1	40	27.0	25.4	23.7	21.8	19.7	17.5	14.8	11.5	6.6													262	114
•	50	25.1	23.4	21.5	19.4	17.1	14.3	10.9	5.5														202	
	60	23.1	21.2	19.1	16.7	13.9	10.3	3.9																
	70	20.9	18.7	16.3	13.4	9.6																		
	80	18.4	15.9	12.9	8.8																			
	0	-	_	_	_	_	_	27.9	26.8	25.6	24.4	23.1	21.7	20.2	18.6	16.9	15.0	12.7	10.0	6.1				
	20	-	_	_	_	27.5	26.4	25.2	24.0	22.6	21.3	19.8	18.1	16.3	14.3	12.0	9.0	4.1						
	30	-	_	_	27.4	26.2	25.0	23.8	22.4	21.0	19.5	17.9	16.0	14.0	11.6	8.4	2.6							
1-1/2	40	-	_	27.2	26.0	24.8	23.6	22.2	20.8	19.3	17.6	15.7	13.6	11.1	7.8								375	162
, _	50	-	27.0	25.8	24.6	23.4	22.0	20.6	19.0	17.3	15.4	13.3	10.7	7.2									3,0	.02
	60	26.8	25.7	24.4	23.2	21.8	20.3	18.8	17.0	15.1	12.9	10.2	6.5											
	70	25.5	24.2	23.0	21.6	20.1	18.5	16.8	14.8	12.5	9.7	5.6												
	80	24.1	22.7	21.4	19.9	18.2	16.5	14.5	12.2	9.2	4.7													

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Composite

30 GAL	LONS P	ER MIN	UTE						PUMF	PERF	ORMAN	I CE (Ca	pacity ir	n gallons	s per mi	nute)	
							PUMF	PING DE	PTH IN	FEET						SHUT HE	
HP	PSI	20	40	60	80	100	125	150	175	200	250	300	350	400	450	FEET	PSI
	0	_	_	40.9	39.1	36.8	32.5	26.0	8.0								
	20	40.4	38.8	36.0	32.4	27.7	13.3										
1	30	38.0	35.3	31.7	26.3	14.3										175	76
•	40	35.0	31.4	25.9	12.1											1/5	70
	50	30.2	24.0	3.0													
	60	21.9															
	0	_	_	41.9	39.9	37.5	34.1	30.9	26.9	17.0							
	20	41.2	39.1	36.5	34.0	31.5	27.8	21.5									
1-1/2	30	38.9	36.1	33.8	31.0	27.9	21.8									210	91
1 1/2	40	36.0	33.5	30.8	27.7	20.2										210	/1
	50	32.9	30.1	26.8	21.5												
	60	29.5	25.9	18.1													
	0	_	_	_	41.8	40.5	38.8	36.8	34.7	31.6	23.7						
	20	_	41.3	40.1	38.7	37.1	34.9	32.1	29.0	24.8							
2	30	41.2	40.0	38.5	37.0	35.0	32.2	29.1	24.9	15.2						280	121
_	40	39.9	38.3	36.6	34.8	32.7	29.8	25.1	16.1							200	121
	50	38.0	36.3	34.5	32.1	30.0	25.3	17.5									
	60	36.0	34.0	31.9	29.1	26.0	18.0										

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Composite



POWERED BY PENTEK®





The K Series 4" Submersible Pumps in 5, 7, 10 and 20 GPM models offer dependable performance and value.

K Series pumps will handle dry run conditions.

Proven "Floating Impeller" staging system is designed with a corrosive resistant stainless steel wear surface that greatly reduces problems with abrasives and sand lock-up.

Powered by water-filled submersible motors.

APPLICATIONS

Water systems... for residential, commercial, irrigation and farm use.

SPECIFICATIONS

Shell: Stainless steel

Discharge: Fiberglass-reinforced

thermoplastic

Discharge Bearing: Nylatron®

Impellers: Acetal

Diffusers: Polycarbonate

Suction Caps: Polycarbonate with stainless

steel insert

Thrust Pads: Proprietary spec.

Shaft and Coupling: Stainless steel

300 grade

Motor Bracket/Intake Screen Fiberglass-

reinforced thermoplastic

Spring-loaded Check Valve: Durable

internal check valve

Cable Guard: Rigid PVC

FEATURES

Proven "Floating Impeller" Staging System: Incorporates 1st-in-class performance, sand handling and thrust management staging system with the industry exclusive "dry-run" design element. Reinforced engineered composites and stainless steel, offering high resistance to corrosion and abrasion.

Discharge: Tested-tough, fiberglass-reinforced thermoplastic, with proven internal check valve. Large wrench flats and rope hole.

Shell: 300-grade stainless steel pump shell offers high corrosion resistance.

Shaft: Hexagonal 3/8", 300-grade stainless steel pump shaft; offers generous impeller drive surfaces.

Shaft Bearing: Exclusive self-lubricating Nylatron® bearing resists wear surface from sand..

Motor Bracket: Tested-tough, fiberglass-reinforced thermoplastic; incorporates an integral suction screen.

Cable Guard: Corrosion resistant rigid PVC with 300-grade stainless steel fasteners.

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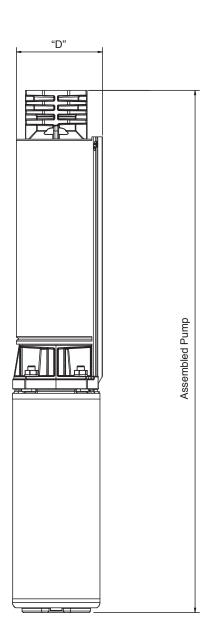
Composite

GPM	Motor Type	НР	Stages	Phase	Volt	Catalog Number	Assembled Pump Length Inches*	Weight Pounds*
		1/2	12	1	115V	B5K05121	23.36	27.2
	0	1/2	12	1	230V	B5K05221	23.36	27.2
	2 wire	3/4	17	1	230V	B5K07221	29.66	32.7
5 GPM		1	21	1	230V	B5K10221	33.78	35.5
		1/2	12	1	230V	B5K05231	22.06	26.1
	3 wire	3/4	17	1	230V	B5K07231	28.06	31.4
		1	21	1	230V	B5K10231	32.48	34.1
		1/2	10	1	115V	B7K05121	21.52	27.2
		1/2	10	1	230V	B7K05221	21.52	27.2
	2 wire	3/4	13	1	230V	B7K07221	25.64	32.7
7 GPM		1	17	1	230V	B7K10221	30.26	35.5
		1/2	10	1	230V	B7K05231	20.20	26.1
	3 wire	3/4	13	1	230V	B7K07231	24.04	31.4
		1	17	1	230V	B7K10231	28.96	34.1
		1/2	7	1	115V	B10K05121	18.86	27.2
		1/2	7	1	230V	B10K05221	18.86	27.2
	2 wire	3/4	9	1	230V	B10K07221	22.02	32.7
		1	12	1	230V	B10K10221	25.36	35.5
10 GPM		1 1/2	16	1	230V	B10K15221	31.08	42.9
		1/2	7	1	230V	B10K05231	17.56	26.1
		3/4	9	1	230V	B10K07231	20.42	31.4
	3 wire	1	12	1	230V	B10K10231	24.06	34.1
		1 1/2	16	1	230V	B10K15231	29.68	41.4
	Qualina	1	7	1	230V	B20K10221	20.86	35.5
20.0014	2 wire	1 1/2	9	1	230V	B20K15221	24.32	42.9
20 GPM	2ina	1	7	1	230V	B20K10231	19.56	34.1
	3 wire	1 1/2	9	1	230V	B20K15231	22.92	41.4

^{*}Length and weight is approximate

Composite

OUTLINE DIMENSIONS

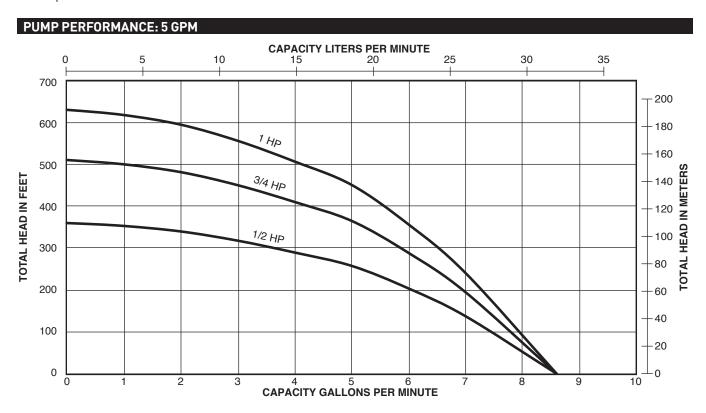


	DISCHAF	RGE
GPM	NPT	"D"
5	1-1/4"	3-3/4"
7	1-1/4"	3-3/4"
10	1-1/4"	3-7/8"
20	1-1/4"	3-7/8"

For lengths, refer to Ordering Information tables.

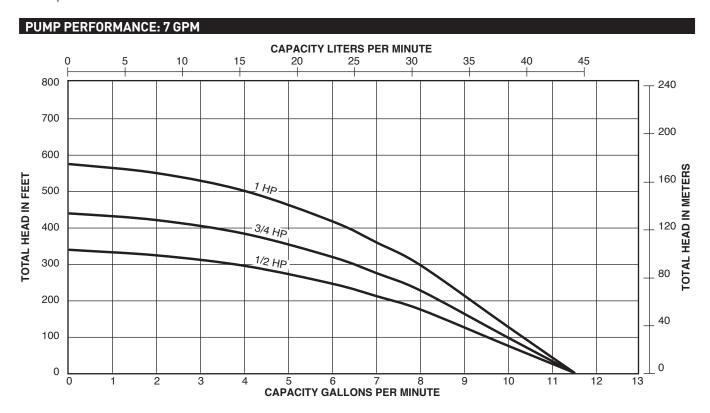
Dimensions (in inches) are for estimating purposes only.

Composite



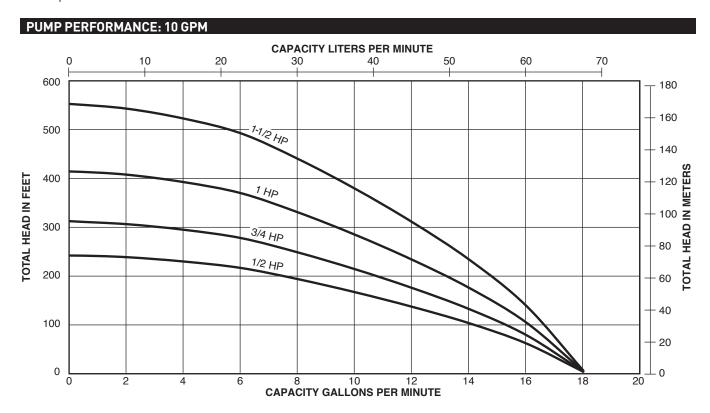
CAPACITY	IN GAL	LONS F	PER MII	NUTE													
								Pun	nping D	epth in I	Feet						
	PSI	0	20	40	60	80	100	125	150	175	200	250	300	350	400	500	600
	0	-	-	-	-	-	-	-	-	7.5	7.3	6.9	6.4	6.0	5.4	4.2	2.2
	20	-	-	-	-	-	-	7.5	7.3	7.1	6.9	6.5	6.0	5.5	4.9	3.4	
	30	-	-	-	-	-	7.5	7.3	7.1	6.9	6.7	6.2	5.8	5.2	4.6	3.0	
21 Stages,	40	-	-	-	-	7.5	7.3	7.1	6.9	6.7	6.5	6.0	5.5	5.0	4.3	2.4	
1HP	50	-	-	-	7.4	7.3	7.1	6.9	6.7	6.5	6.3	5.8	5.3	4.7	4.0	1.5	
	60	-	-	7.4	7.3	7.1	6.9	6.7	6.5	6.3	6.1	5.6	5.0	4.4	3.6		
	70	-	7.4	7.2	7.1	6.9	6.8	6.5	6.3	6.1	5.8	5.3	4.7	4.0	3.1		
	80	7.4	7.2	7.1	6.9	6.7	6.6	6.3	6.1	5.9	5.6	5.0	4.4	3.6	2.6		
	0	-	-	-	-	-	-	-	7.4	7.1	6.9	6.3	5.7	5.1	4.3	1.3	
	20	-	-	-	-	-	7.4	7.2	6.9	6.7	6.4	5.8	5.1	4.3	3.3		
	30	-	-	-	-	7.4	7.2	6.9	6.7	6.4	6.1	5.5	4.8	3.9	2.7		
17 Stages,	40	-	-	7.5	7.4	7.2	7.0	6.7	6.4	6.1	5.8	5.2	4.4	3.4	1.8		
0.75HP	50	-	7.5	7.3	7.1	6.9	6.7	6.4	6.2	5.9	5.5	4.8	4.0	2.8			
	60	7.5	7.3	7.1	6.9	6.7	6.5	6.2	5.9	5.6	5.2	4.5	3.5	2.0			
	70	7.3	7.1	6.9	6.7	6.4	6.2	5.9	5.6	5.3	4.9	4.1	3.0				
	80	7.0	6.8	6.6	6.4	6.2	5.9	5.6	5.3	4.9	4.5	3.6	2.2				
	0	-	-	-	-	-	7.5	7.1	6.7	6.4	6.0	5.0	3.8	1.6			
	20	-	-	-	7.4	7.1	6.8	6.4	6.0	5.6	5.1	3.9	1.9				
40.0	30	-	-	7.3	7.1	6.8	6.5	6.0	5.6	5.1	4.6	3.2					
12 Stages,	40	-	7.3	7.0	6.7	6.4	6.1	5.6	5.2	4.6	4.0	2.2					
0.5HP	50	7.2	7.0	6.7	6.4	6.0	5.7	5.2	4.7	4.1	3.3						
	60	6.9	6.6	6.3	6.0	5.6	5.2	4.7	4.1	3.4	2.4						
	70	6.6	6.3	5.9	5.6	5.2	4.8	4.2	3.5	2.5							
	80	6.2	5.9	5.5	5.1	4.7	4.2	3.5	2.6								

Composite



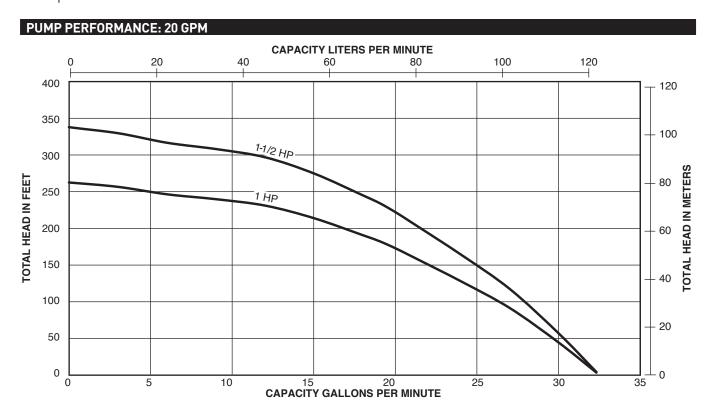
CAPACITY IN	IGALLO	NS PE	R MINU	JTE													
								Pun	nping D	epth in	Feet						
	PSI	0	20	40	60	80	100	125	150	175	200	250	300	350	400	500	600
	0	-	-	11.0	10.8	10.6	10.4	10.1	9.8	9.5	9.2	8.6	7.9	7.1	6.2	4.0	
	20	11.0	10.8	10.6	10.3	10.1	9.9	9.6	9.3	9.0	8.6	7.9	7.2	6.3	5.3	2.4	
	30	10.7	10.5	10.3	10.1	9.8	9.6	9.3	9.0	8.6	8.3	7.6	6.8	5.9	4.8		
17 Stages,	40	10.5	10.3	10.0	9.8	9.6	9.3	9.0	8.7	8.3	8.0	7.2	6.4	5.4	4.2		
1HP	50	10.2	10.0	9.8	9.5	9.3	9.0	8.7	8.4	8.0	7.6	6.8	5.9	4.9	3.5		
	60	10.0	9.7	9.5	9.2	9.0	8.7	8.4	8.0	7.7	7.3	6.4	5.5	4.3	2.7		
	70	9.7	9.4	9.2	8.9	8.7	8.4	8.1	7.7	7.3	6.9	6.0	5.0	3.7			
	80	9.4	9.2	8.9	8.6	8.4	8.1	7.7	7.3	6.9	6.5	5.6	4.4	2.8			
	0	-	-	10.9	10.6	10.3	10.1	9.7	9.3	8.9	8.4	7.5	6.4	5.1	3.3		
	20	10.8	10.5	10.3	10.0	9.6	9.3	8.9	8.5	8.0	7.5	6.5	5.2	3.4			
	30	10.5	10.2	9.9	9.6	9.3	8.9	8.5	8.1	7.6	7.1	5.9	4.5	2.3			
13 Stages,	40	10.2	9.9	9.6	9.2	8.9	8.6	8.1	7.6	7.1	6.6	5.3	3.6				
0.75HP	50	9.8	9.5	9.2	8.8	8.5	8.1	7.7	7.1	6.6	6.0	4.6	2.5				
	60	9.5	9.1	8.8	8.4	8.1	7.7	7.2	6.6	6.0	5.4	3.8					
	70	9.1	8.7	8.4	8.0	7.6	7.2	6.7	6.1	5.4	4.7	2.7					
	80	8.7	8.3	8.0	7.6	7.2	6.7	6.1	5.5	4.8	3.9						
	0	-	-	10.8	10.4	10.0	9.6	9.1	8.5	7.9	7.3	5.8	3.7				
	20	10.6	10.3	9.9	9.5	9.0	8.6	8.0	7.4	6.7	5.9	3.9					
	30	10.2	9.8	9.4	9.0	8.5	8.0	7.4	6.7	5.9	5.1	2.5					
10 Stages,	40	9.7	9.3	8.9	8.4	8.0	7.5	6.8	6.0	5.1	4.1						
0.5HP	50	9.3	8.8	8.4	7.9	7.4	6.8	6.1	5.2	4.2	2.8						
	60	8.8	8.3	7.8	7.3	6.7	6.1	5.3	4.3	2.9							
	70	8.2	7.7	7.2	6.6	6.0	5.3	4.3	3.0								
	80	7.7	7.1	6.6	5.9	5.2	4.4	3.2									

Composite



CAPACITY IN GALLONS PER MINUTE Pumping Depth in Feet																
	PSI							Pumpin	g Depth	in Feet						
		0	20	40	60	80	100	125	150	175	200	250	300	350	400	500
	0	-	-	-	-	-	-	-	-	-	14.6	13.5	12.3	11.0	9.5	5.6
	20	-	-	-	-	-	-	-	14.6	14.1	13.6	12.4	11.1	9.7	8.0	2.0
	30	-	-	-	-	-	-	14.7	14.1	13.6	13.0	11.8	10.5	8.9	7.0	
16 Stages,	40	-	-	-	-	-	14.7	14.2	13.6	13.1	12.5	11.2	9.8	8.1	6.0	
1.5HP	50	-	-	-	-	14.6	14.2	13.7	13.1	12.5	11.9	10.6	9.0	7.2	4.7	
	60	-	-	15.0	14.6	14.2	13.7	13.2	12.6	12.0	11.3	9.9	8.2	6.2	2.9	
	70	-	14.9	14.5	14.1	13.7	13.2	12.6	12.0	11.4	10.7	9.2	7.4	4.9		
	80	14.9	14.5	14.0	13.6	13.1	12.7	12.1	11.4	10.7	10.0	8.4	6.3	3.2		
	0	-	-	-	-	-	-	-	14.6	13.8	13.1	11.5	9.5	7.1	3.4	
	20	-	-	-	-	-	14.7	14.0	13.2	12.4	11.6	9.7	7.4	3.8		
	30	-	-	-	-	14.6	14.0	13.3	12.5	11.7	10.8	8.7	6.0			
12 Stages,	40	-	-	15.0	14.5	13.9	13.3	12.6	11.7	10.8	9.9	7.6	4.2			
1HP	50	-	15.0	14.4	13.8	13.2	12.6	11.8	10.9	9.9	8.9	6.2				
	60	14.9	14.3	13.7	13.1	12.5	11.9	11.0	10.0	9.0	7.8	4.5				
	70	14.2	13.6	13.0	12.4	11.7	11.0	10.1	9.0	7.9	6.5					
	80	13.6	12.9	12.3	11.6	10.9	10.2	9.1	7.9	6.6	4.8					
	0	-	-	-	-	-	15.0	14.1	13.1	12.0	10.9	8.0	3.4			
	20	-	-	-	14.8	14.0	13.3	12.2	11.0	9.8	8.3	3.9				
	30	-	-	14.7	13.9	13.1	12.3	11.1	9.9	8.4	6.6					
9 Stages,	40	-	14.6	13.8	13.0	12.1	11.2	10.0	8.5	6.8	4.4					
0.75HP	50	14.4	13.7	12.9	12.0	11.1	10.1	8.6	6.9	4.6						
	60	13.6	12.7	11.9	10.9	9.9	8.7	7.1	4.8							
	70	12.6	11.7	10.8	9.7	8.6	7.2	5.0								
	80	11.6	10.6	9.6	8.4	7.0	5.2									
	0	-	-	-	-	14.9	13.9	12.7	11.2	9.5	7.5					
	20		-	14.6	13.6	12.6	11.4	9.8	7.9	5.3						
	30	-	14.5	13.5	12.4	11.2	9.9	8.0	5.5							
7 Stages,	40	14.3	13.3	12.2	11.1	9.7	8.2	5.7								
0.5HP (50	13.2	12.1	10.9	9.5	7.9	6.0									
	60	11.9	10.7	9.3	7.7	5.6	2.1									
	70	10.5	9.0	7.4	5.2											
	80	8.8	7.1	4.8												

Composite



CAPACITY	IN GALL	ONS PER	MINUTE										
	PSI					P	umping D	epth in Fe	et				
	PSI	0	20	40	60	80	100	125	150	175	200	250	300
	0	-	-	-	-	-	27.7	26.3	24.8	23.2	21.4	17.4	11.6
	20	-	-	-	27.4	26.2	25.0	23.4	21.7	19.8	17.7	12.2	
	30	-	-	27.2	26.0	24.8	23.6	21.9	20.0	17.9	15.4	8.0	
9 Stages,	40	-	27.0	25.9	24.6	23.4	22.0	20.1	18.0	15.6	12.7		
1.5HP	50	26.8	25.7	24.5	23.2	21.8	20.3	18.2	15.8	12.9	8.9		
	60	25.5	24.3	22.9	21.5	20.0	18.4	16.0	13.2	9.2			
	70	24.1	22.7	21.3	19.8	18.1	16.2	13.4	9.6				
	80	22.5	21.1	19.5	17.8	15.9	13.7	10.0					
	0	-	-	-	-	27.6	26.1	24.1	22.0	19.5	16.7	7.4	
	20	-	-	27.1	25.6	24.0	22.3	19.9	17.1	13.7	8.6		
	30	1	26.9	25.4	23.8	22.0	20.1	17.4	14.0	9.1			
7 Stages,	40	26.7	25.1	23.5	21.7	19.8	17.6	14.3	9.6				
1HP	50	24.9	23.2	21.4	19.5	17.2	14.6	10.1					
	60	23.0	21.2	19.1	16.8	14.1	10.5						
	70	20.9	18.8	16.5	13.6	9.8							
	80	18.5	16.1	13.1	9.0								

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Stainless Steel



KS Series 4" Submersible Pumps in 10 and 20 GPM models offer dependable performance and value.

KS Series pumps will handle dry run conditions.

Proven "Floating Impeller" staging system is designed with a corrosive resistant stainless steel wear surface that greatly reduces problems with abrasives and sand lock-up.

Powered by water-filled submersible motors.

APPLICATIONS

Water systems... for residential, commercial, irrigation and farm use.

SPECIFICATIONS

Shell: Stainless steel

Discharge: Stainless steel

Discharge Bearing: Nylatron®

Impellers: Acetal

Diffusers: Polycarbonate

Suction Cap: Polycarbonate with stainless

steel wear ring

Thrust Pads: Proprietary spec.

Shaft and Coupling: Stainless steel

300 grade

Intake Screen: Polypropylene
Motor Bracket: Stainless steel

Check Valve: Durable internal check valve

Cable Guard: Rigid PVC

FEATURES

Proven "Floating Impeller" Staging System: Incorporates high performance, sand handling and thrust management staging system with "dry-run" design. Reinforced engineered composites and stainless steel, offering high resistance to corrosion and abrasion.

Discharge: Corrosion-resistant, heavy-duty 300-grade stainless steel with proven internal check valve. Large wrench flats and rope hole.

Shell: 300-grade stainless steel pump shell offers high corrosion resistance.

Shaft: Hexagonal 3/8", 300-grade stainless steel pump shaft; offers generous impeller drive surfaces.

Shaft Bearing: Exclusive self-lubricating Nylatron® bearing resists wear surface from sand.

Motor Bracket: Corrosion-resistant, heavy-duty 300-grade stainless steel.

Cable Guard: Corrosion resistant rigid PVC with 300-grade stainless steel fasteners.

Pentek* Motor: NEMA standard all stainless steel construction water-filled motors.

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Stainless Steel

ORDER	RING INFORM	ATION					
GPM	Motor Type	НР	Phase	Volt	Assembled Pump Catalog Number	Assembled Pump Length Inches	Weight Pounds*
		1/2	1	115V	B10KS05121	23.32	35.2
		1/2	1	230V	B10KS05221	23.32	35.2
	2 wire	3/4	1	230V	B10KS07221	26.30	42.7
		1	1	230V	B10KS10221	29.72	46.5
10 GPM		1 1/2	1	230V	B10KS15221	34.94	56.9
IU UPM		1/2	1	115V	B10KS05131	22.42	34.9
		1/2	1	230V	B10KS05231	22.02	34.1
	3 wire	3/4	1	230V	B10KS07231	24.70	41.4
		1	1	230V	B10KS10231	28.42	45.1
		1 1/2	1	230V	B10KS15231	33.54	55.4
	2 wire	1	1	230V	B20KS10221	26.19	46.5
20 GPM	∠ wire	1 1/2	1	230V	B20KS15221	29.65	56.9
20 GPM	3 wire	1	1	230V	B20KS10231	24.89	45.1
	o wire	1 1/2	1	230V	B20KS15231	28.25	55.4

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^{*}Length and weight is approximate.

Stainless Steel

OUTLINE DIMENSIONS

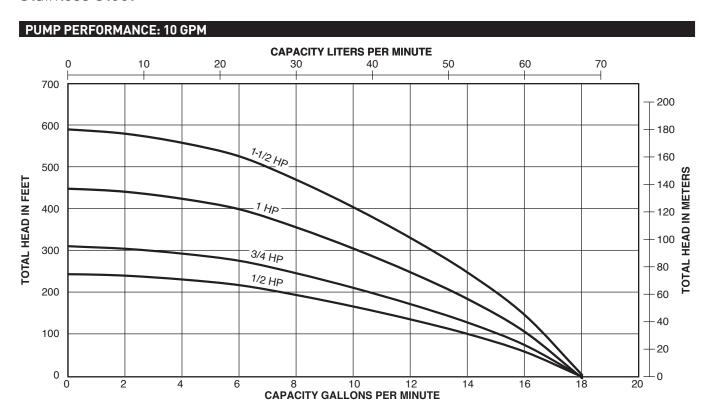


DISCH	ARGE
GPM	NPT
10	1-1/4
20	1-1/4

For lengths, refer to Ordering Information tables.

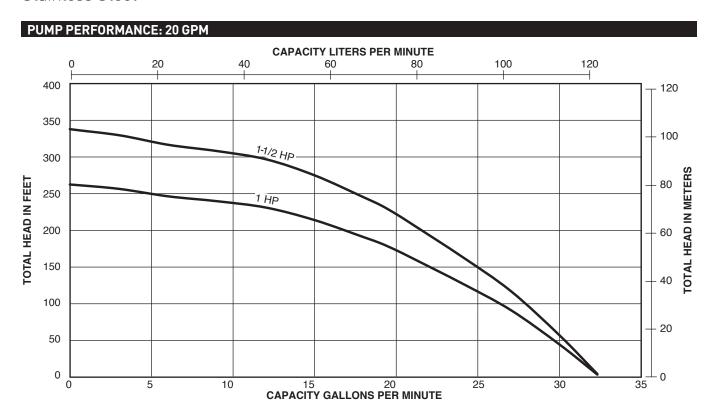
Dimensions (in inches) are for estimating purposes only.

Stainless Steel



CAPACITY IN GALLONS PER MINUTE Pumping Depth in Feet															
DCI															
	0	20	40	60	80	100	125	150	175	200	250	300	350	400	500
	-	-	-	-	-	-	-	-	-						7.0
	-	-	-	-	-	-	-								4.8
	-	-	-	-	-	-									3.2
	-	-	-	-	-										
	-	-	-	-											
	-	-	-												
	-	-												3.8	
80	-	14.7	14.3	13.9	13.5	13.1	12.5								
0	-	-	-	-	-	-	-							6.0	
	-	-	-	-	-						10.6				
	-	-	-	-	14.9		13.7	13.0	12.3	11.5	9.8	7.6			
	-	-	-	14.8	14.3	13.8	13.1	12.3	11.6	10.7	8.8	6.4	2.2		
50	-	-	14.7	14.2	13.7	13.1	12.4	11.6	10.8	9.9	7.8	4.9			
60	-	14.7	14.1	13.6	13.0	12.5	11.7	10.9	10.0	9.0	6.6	2.8			
70	14.6	14.1	13.5	13.0	12.4	11.7	10.9	10.0	9.1	8.0	5.2				
80	14.0	13.4	12.9	12.3	11.7	11.0	10.1	9.2	8.1	6.8	3.2				
0	-	-	-	-	-	15.0	14.1	13.1	12.0	10.9	8.0	3.4			
20	-	-	-	14.8	14.0	13.3	12.2	11.0	9.8	8.3	3.9				
30	-	-	14.7	13.9	13.1	12.3	11.1	9.9	8.4	6.6					
40	-	14.6	13.8	13.0	12.1	11.2	10.0	8.5	6.8	4.4					
50	14.4	13.7	12.9	12.0	11.1	10.1	8.6	6.9	4.6						
60	13.6	12.7	11.9	10.9	9.9	8.7	7.1	4.8							
70	12.6	11.7	10.8	9.7	8.6	7.2	5.0								
80	11.6	10.6	9.6	8.4	7.0	5.2									
0	-	-	-	-	14.9	13.9	12.7	11.2	9.5	7.5					
20	-	-	14.6	13.6	12.6	11.4	9.8	7.9	5.3						
30	-	14.5	13.5	12.4	11.2	9.9	8.0	5.5							
40	14.3	13.3	12.2	11.1	9.7	8.2	5.7								
50	13.2	12.1	10.9	9.5	7.9	6.0									
60	11.9	10.7	9.3	7.7	5.6	2.1									
70	10.5	9.0	7.4	5.2											
80	8.8	7.1	4.8												
	PSI 0 0 20 30 40 50 60 70 80 0 20 30 40 50 60 70 80 0 70 80 0 70 80 0 70 80 0 70 80 0 70 80 0 70 80 0 70 80 0 70 80 0 70 80 0 70 80 70 80 70 80 70 80 70 80 70 80 70 80 70 80 70 80 70 80 70 80 70 80 70 80 70 80 70 80 70 80 70 80 70 80 70 80 80 70 80 80 80 80 80 80 80 80 80 80 80 80 80	PSI 0 0 - 20 - 30 - 50 - 60 - 70 - 80 - 20 - 30 - 30 - 40 - 50 - 60 - 70 - 80 - 20 - 30 - 40 - 50 - 50 - 60 - 70 14.6 80 14.0 0 - 20 - 30 - 40 - 50 14.4 60 13.6 70 12.6 80 11.6 0 - 20 - 30 - 40 14.3 50 13.2 60 11.9 70 10.5	PSI 0 20 0	PSI 0 20 40 0	PSI	PSI	PSI	PSI	PSI	PSI Depth in Feet Depth Depth	PSI	PSI	PSI	Post Pumping Depth Feet	Page Page

Stainless Steel



CAPACITY	' IN GALI	LONS PEI	R MINUT	E									
	PSI					P	umping D	epth in Fe	et				
	P31	0	20	40	60	80	100	125	150	175	200	250	300
	0	-	-	-	-	-	27.7	26.3	24.8	23.2	21.4	17.4	11.6
	20	-	-	-	27.4	26.2	25.0	23.4	21.7	19.8	17.7	12.2	
	30	-	-	27.2	26.0	24.8	23.6	21.9	20.0	17.9	15.4	8.0	
9 Stages,	40	-	27.0	25.9	24.6	23.4	22.0	20.1	18.0	15.6	12.7		
1.5HP	50	26.8	25.7	24.5	23.2	21.8	20.3	18.2	15.8	12.9	8.9		
	60	25.5	24.3	22.9	21.5	20.0	18.4	16.0	13.2	9.2			
	70	24.1	22.7	21.3	19.8	18.1	16.2	13.4	9.6				
	80	22.5	21.1	19.5	17.8	15.9	13.7	10.0					
	0	-	-	-	-	27.6	26.1	24.1	22.0	19.5	16.7	7.4	
	20	-	-	27.1	25.6	24.0	22.3	19.9	17.1	13.7	8.6		
	30	-	26.9	25.4	23.8	22.0	20.1	17.4	14.0	9.1			
7 Stages,	40	26.7	25.1	23.5	21.7	19.8	17.6	14.3	9.6				
1HP	50	24.9	23.2	21.4	19.5	17.2	14.6	10.1					
	60	23.0	21.2	19.1	16.8	14.1	10.5						
	70	20.9	18.8	16.5	13.6	9.8							
	80	18.5	16.1	13.1	9.0								

52

Cast Iron



Precision-engineered, quality-built and rugged 70 GPM Series submersibles may be used in wells 4" or larger.

Maximum outside diameter 3-7/8".

APPLICATIONS

Water systems... for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Discharge: Cast iron, ASTM A48 Class 30 **Pump Bowls:** Cast iron, ASTM A48

Class 30

Impellers: Polycarbonate with brass insert

Collets: Stainless steel, AISI 416

Upthrust Bearing: Bronze,

ASTM B255 Type II

Pump Shaft: Stainless steel, AISI 416

Bowl and Intake Bearings: Nitrile (proprietary spec.)

Lead Guard: Stainless steel, AISI 430 **Intake Bracket:** Cast iron, ASTM A48

Class 30

Screen: Stainless steel, AISI 430

Pump/Motor Coupling: Stainless steel,

AISI 416

FEATURES

Discharge: Heavy-duty cast iron construction provides smooth water passage to column pipe. 2" NPT threads standard.

Bowl and Intake Bearings: Fluted, cutless rubber type assures superior abrasive-handling characteristics, located at each stage.

Polycarbonate Impellers:

Glass-reinforced polycarbonate resists abrasives and provides smooth water passages for minimum friction loss. Ensures optimum pump efficiency.

Pump Bowls: Highly efficient hydraulic design...threaded bowl design in gray cast iron.

Upthrust Bearing: Bronze upthrust bearing provides positive momentary upthrust protection during start-up.

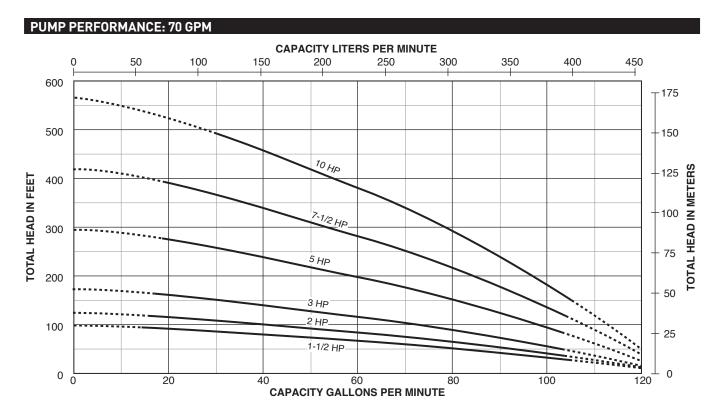
Intake Bracket: Efficient hydraulic design minimizes entrance losses, ensuring maximum pump performance.

Stainless Steel Pump Shaft: Precision straightened shaft is corrosion-resistant stainless steel.

Pump/Motor Coupling: Stainless steel for maximum corrosion resistance...precision machined to ensure accurate alignment and power transfer.

Intake Screen: Stainless steel material offers maximum corrosion resistance... protects against damaging solids entering the pump assembly.

Cast Iron



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. Check valve sold separately.

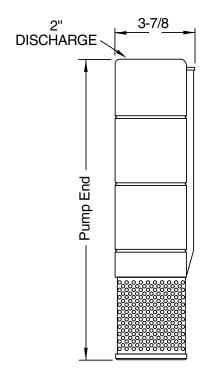
Cast Iron

ORDE	RING I	NFOR	OITAN	N							
						PUMP END		мот	OR	CONTRO	L BOX
MOTOR TYPE	НР	STGS.	PH	VOLT	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
2 WIRE	1-1/2	4	1	230	SL70F4	20-25/32	26	P42B0015A2	29		
	1-1/2	4	1	230	SL70F4	20-25/32	26	P43B0015A2	27	SMC-CR1521	7
	1-1/2	4	3	230	SL70F4	20-25/32	26	P43B0015A3	23		
	1-1/2	4	3	460	SL70F4	20-25/32	26	P43B0015A4	23		
	2	5	1	230	SL70G4	24-1/16	31	P43B0020A2	31	SMC-CR2021	7
	2	5	3	230	SL70G4	24-1/16	31	P43B0020A3	27		
	2	5	3	460	SL70G4	24-1/16	31	P43B0020A4	27		
	3	7	1	230	SL70H4	30-5/8	39	P43B0030A2	40	SMC-CR3021	7
3 WIRE	3	7	3	230	SL70H4	30-5/8	39	P43B0030A3	32		
	3	7	3	460	SL70H4	30-5/8	39	P43B0030A4	32		
	5	12	1	230	SL70J4	47-1/32	60	P43B0050A2	70	SMC-CR5021	8
	5	12	3	230	SL70J4	47-1/32	60	P43B0050A3	55		
	5	12	3	460	SL70J4	47-1/32	60	P43B0050A4	55		
	7-1/2	17	3	230	SL70K4	63-7/16	81	P43B0075A3	70		
	7-1/2	17	3	460	SL70K4	63-7/16	81	P43B0075A4	70		
	10	23	3	460	SL70L4	83-1/8	106	P43B0100A4	70		

^{*}Length and Weight are approximate.

NOTE: Pump end and motor purchased separately. Check valve sold separately.

OUTLINE DIMENSIONS



For lengths, refer to Ordering Information tables.

Dimensions (in inches) are for estimating purposes only.

Cast Iron

70 GAL	LONS PE	R MI	NUTE						PUI	MP P	ERFO	RMA	NCE	(Capa	acity ii	n gall	ons p	er mi	nute)					
															FEET									
HP	PSI	20	40	60	80	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550
	0	-	92.5	70.0	40.0																			
	20	61.5	31.0																					
1-1/2	30	25.0																						
1-1/2	40																							
	50																							
	60																							
	0	_	100.0	85.0	64.0	40.0																		
	20	79.0	57.0	32.5																				
2	30	52.5	28.0																					
2	40	25.0																						
	50																							
	60																							
	0	-	104.0	98.0	86.0	73.5	52.5	31.0																
	20	95.0	82.5	68.0	52.0	35.0																		
	30	81.0	66.0	49.0	32.0																			
3	40	64.0	47.0	29.0																				
	50	43.0	25.5																					
	60	22.0																						
	0	-	_	_	106.0	99.0	91.0	82.0	72.0	60.0	47.5	35.0	21.0											
	20	_	104.0	97.0	90.5	83.5	74.0	62.0	49.5	37.0	23.0													
-	30	102.5	96.0	88.5	82.5	74.5	63.0	50.0	38.0	25.0														
5	40	95.0	87.5	81.5	73.5	64.0	51.5	39.0	26.0															
	50	86.0	80.0	72.0	62.0	52.0	39.5	27.0																
	60	78.0	70.0	61.0	50.0	40.0	27.5																	
	0	-	_	_	_	108.0	103.0	97.0	91.0	85.0	78.0	75.0	62.5	54.0	45.5	35.5								
	20	-	_	108.0	102.5	97.5	92.0	86.0	80.0	76.0	64.9	56.0	47.0	37.5	27.5									
T 4/0	30	-	107.5	102.0	97.0	92.5	87.0	80.5	76.5	65.0	56.5	47.5	38.0	28.0										
7-1/2	40	107.0	101.5	96.5	92.0	87.5	81.5	77.0	65.5	57.0	48.0	38.5	29.0											
	50	101.0	96.0	91.0	86.0	82.0	77.0	66.0	57.5	48.0	39.0	30.0	20.0											
	60	95.0	90.0	85.0	80.5	77.5	66.5	57.5	49.0	40.0	31.0	21.0												
	0	-	_	_	_	_	110.0	106.0	102.0	97.5	93.0	88.0	84.0	79.0	74.9	68.0	62.0	55.0	48.0	42.5	36.0			
	20	-	_	_	110.0	107.0	102.5	98.5	93.5	89.0	85.0	80.0	75.5	69.5	62.5	56.0	49.5	43.0	37.0	31.0				
40	30	-	_	109.5	106.5	103.0	99.0	94.0	89.5	85.0	80.5	76.0	70.0	63.0	57.0	55.0	43.5	37.5	31.5					
10	40	-	109.0	106.0						81.0	-				51.0			32.0						
	50	108.0	105.5	102.0	98.5	95.0				76.5					44.5									
	60	+	-	98.0				82.0					52.0		-	32.5								

CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions.

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.

Stainless steel, High-Flo 4"



The 75 and 90 GPM Stainless Steel
High-Flo 4" Submersible Pumps
deliver efficient and dependable
performance even in rough, aggressive
water. Heads to 410 feet and
capabilities to 120 GPM. Built to deliver
long-term, trouble-free service.
FDA-compliant engineered composite
and stainless steel components.

APPLICATIONS

Water systems...for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Discharge: 300 grade stainless steel with 2" NPT threads

Top Bearing: Acetal

Top Bearing Journal: 300 grade

stainless steel

Diffuser Assembly: Noryl® (20% glass filled) with urethane insert and 300 grade stainless steel

Upthrust Washers: Phenolic

Impellers: Polycarbonate (20% glass filled)

Impeller Eye Seals: Urethane Bowls: Noryl (20% glass filled) Intermediate Bearing: Acetal Intermediate Bearing Journal: 300 grade stainless steel

Shaft: 300 grade stainless steel

Coupling: 300 grade stainless steel,

7/16" hex stock

Shell: 300 grade stainless steel

Motor Adapter: 300 grade stainless steel Suction Screen: 300 grade stainless steel

Cable Guard: 300 grade stainless steel **Fasteners:** 300 grade stainless steel

FEATURES

Discharge: Heavy-duty 300 grade stainless steel construction provides smooth water passage to column pipe. Large wrench flats and rope hole.

Top Bearing: Field-proven, sealed and lubricated top bearing assembly keeps abrasives out, ensuring long bearing life.

Impellers: 20% glass-reinforced polycarbonate to resist abrasives and provide smooth water passage for minimal friction loss

Upthrust Bearing: Phenolic washers and stainless steel upthrust rings at each stage provide excellent wear-resistant surfaces.

Diffuser Bearing: Urethane bearings at each stage provide radial protection and stability, and excellent resistance to sand damage.

Motor Bracket: 300 grade precision cast stainless steel. Incorporates an efficient hydraulic design for maximum volume and access to motor mounting nuts.

Shaft: 300 grade "treated" stainless steel pump shaft is corrosion-resistant. The hex shape offers generous impeller drive surfaces.

Motor Coupling: Pressed-on, sintered 300 grade stainless steel for maximum corrosion resistance provides trouble-free transfer of power between motor and pump shaft.

Shell: Heavy-gauge, 300 series stainless steel pump shell is durable and offers high corrosion resistance.

Intake Screen: 300 series stainless steel material offers maximum corrosion resistance and protects against damaging solids entering the pump.

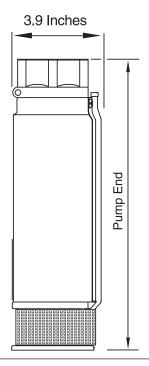
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Stainless steel, High-Flo 4"

ORDE	RING I	NFORM	OITAN	N							
						PUMP END		мот	0R	CONTRO	L BOX
MOTOR Type	НР	STGS.	PH	VOLT	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
75 GPM	,										
			1	230	L75BF20	16-5/8	15	P43B0020A2	32	SMC-CR2021	7
	2	5	3	230	L75BF20	16-5/8	15	P43B0020A3	29		
			3	460	L75BF20	16-5/8	15	P43B0020A4	29	1	
			1	230	L75BF30	20-7/8	11	P43B0030A2	52	SMC-CR3021	8
	3	7	3	230	L75BF30	20-7/8	11	P43B0030A3	44		
3 WIRE			3	460	L75BF30	20-7/8	11	P43B0030A4	44		
			1	230	L75BF50	29-3/8	15	P43B0050A2	69	SMC-CR5021	14
	5	11	3	230	L75BF50	29-3/8	15	P43B0050A3	55		
			3	460	L75BF50	29-3/8	15	P43B0050A4	55	1	
	7 1/0	17	_	230	L75BF75	42	32	P43B0075A3	70		
	7-1/2	17	3	460	L75BF75	42	32	P43B0075A4	70		
90 GPM	•										
			1	230	L90BF20	21	15	P43B0020A2	31	SMC-CR2021	7
	2	5	3	230	L90BF20	21	15	P43B0020A3	31		
			3	460	L90BF20	21	15	P43B0020A4	31	1	
			1	230	L90BF30	26-5/8	17	P43B0030A2	40	SMC-CR3021	7
	3	7	3	230	L90BF30	26-5/8	17	P43B0030A3	32		
2 WIDE			3	460	L90BF30	26-5/8	17	P43B0030A4	32]	
3 WIRE			1	230	L90BF50	41-1/2	19	P43B0050A2	70	SMC-CR5021	8
	5	12	3	230	L90BF50	41-1/2	19	P43B0050A3	55		
			3	460	L90BF50	41-1/2	19	P43B0050A4	55		
	7-1/2	17	3	230	L90BF75	56	26	P43B0075A3	70		
	/-1/2	17	3	460	L90BF75	56	26	P43B0075A4	70		
	10	23	3	460	L90BF100	72-3/8	35	P43B0100A4	78		

^{*}Length and Weight are approximate.

NOTE: Check valve sold separately.



2" NPT Discharge, all models

For lengths, refer to Ordering Information tables.

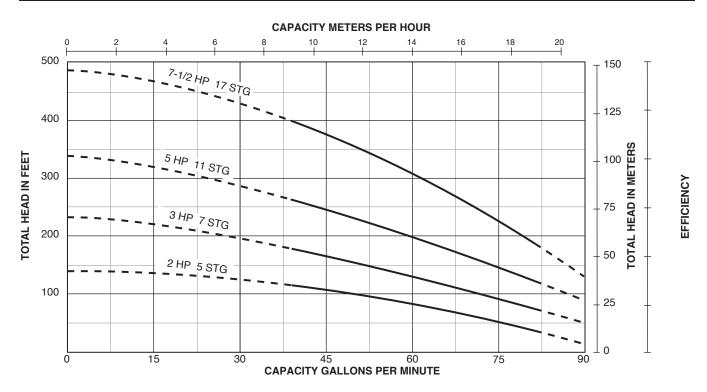
 $\label{lem:decomposition} \mbox{Dimensions are for estimating purposes only.}$

Stainless steel, High-Flo 4"

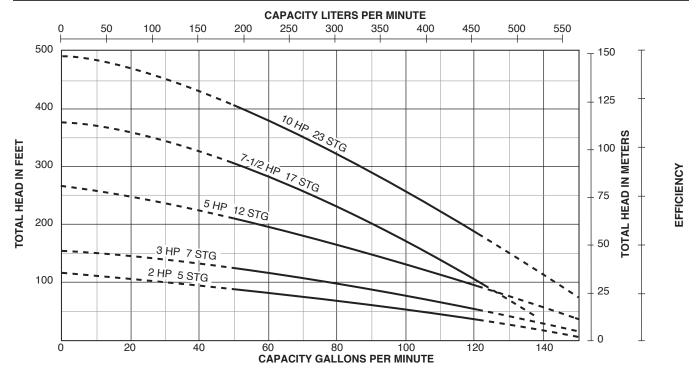
OPII	PERFOR	M/AINC	= (Cahai	enty iii ya	attoris p										SHUT	
НР	PSI	20	40	60	80	100	125	DEPTI 150	1 IN FEI 175	200	250	300	350	400	HE FEET	AD PSI
GPM		20	40	00	- 00	100	120	100	170	200	200	000	000	400	1 221	1 31
	0	82	76	70	62	52										
	20	67	59	49												
2	30 40	58 45	47												1/0	/2
2	50	45													143	62
	60															
	70															
	0	-	_	_	78	70	60	50								
	20	-	76	67	59	51	40									
_	30	75	66 57	58	50	41									22/	00
3	40 50	65 55	46	49	40										226	98
	60	45	40													
	70	40														
	0	_	-	-	-	-	78	73	66	59						
	20	_	-	_	78	74	67	60	53							
_	30	-	-	77	73	68	60	53	45							
5	40 50	80 75	76 71	72 67	67	61 54	54 45	45							333	144
	60	70	66	59	53	46	45									
	70	464	59	53	45	40										
	0	-	-	_	-	_	-	_	81	77	69	60	49			
	20	-	-	-	-	-	82	78	73	70	61	51				
	30	-	-	-	-	82	78	74	70	66	57	45				000
-1/2	40	-	-	-	82	79	75	71	67	62	52	39			482	209
	50 60	-	80	81 77	78 74	75 70	71 68	67 64	62 59	58 53	45 38					
	70	80	77	73	70	68	64	58	52	46	30					
) GPM		00		, ,	, 0	00		00	92							
	0	_	115	90	60											
	20	80	53													
2	30	50													109	48
	40 50															
	60															
	0	_	_	113	96	75	50									
	20	108	90	69	50											
3	30	87	66												153	67
•	40														100	0,
	50 60															
	0	_	_	_	_	115	103	86	72	56						
	20	_	122	112	102	88	74	59	, , ,	- 50						
5	30	119	111	101	87	73	58								258	11:
3	40	108	98	84	72	57									230	- 11
	50	96	83	71	56											
	60	82	70	55		107	11/	100	102	02	70	50				
	20	-	_	122	116	124 110	116 101	108 93	103 87	92 74	73 52	50				
	30	_	121	115	109	102	94	84	79	65	JZ					
1/2	40	120	114	108	101	94	85	76	70	54					402	175
	50	113	107	100	93	86	76	66	60							
	60	106	99	92	85	77	67	56	465	465						
	0	_	-	-	_	_	- 110	110	118	112	99	81	66	52		
	20	-	-	-	-	120	119	113	106	100 93	83	67	53			
10	30 40	-	_	_	119	120 114	114 107	107 101	101 94	84	75 68	60 54			491	213
	50	_	_	118	114	108	107	95	85	77	62	54				
-		125	117	113	108	102	94	86	78	70	55					

Stainless steel, High-Flo 4"

PUMP PERFORMANCE: 75 GPM







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.

4"x6" Submersible Motor Adapter

Stainless Steel



The PKG 4x6, Pump/Motor Adapter offers the professional distributor and dealer the flexibility to stock standard 4" submersible pump ends, and 4" and 6" motors, better utilizing inventory dollars and delivery demands!

APPLICATIONS

Water systems...for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Adapter Casting: Stainless steel

Coupling: Stainless steel

Intake Screen: Stainless steel

Socket Head Cap-Screws: Stainless steel

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Beveled Wire Forms: Stainless steel

Studs: Stainless steel **Fasteners:** Stainless steel

ORDERING IN	ORDERING INFORMATION												
CATALOG NUMBER	PUMP END*	MOTOR*	MAXIMUM HP	WEIGHT POUNDS**									
PKG 4x6	4" NEMA	6" NEMA	10	5									

*Pump end and motor ordered separately.

FEATURES

Extends Single and Three-Phase Power Availability: To all Signature 2000° submersibles through 10 HP using 6" single-phase motors.

Easy Assembly: Easy job-site assembly.

Double-Suction Screens: Reduces inlet suction velocity, reducing the amount of suspended solids ingested by pump.



CB5710WS

^{**}Shipping weight is approximate.

50, 75, and 100 GPM



The 6TSP series pumps feature abrasion and corrosion resistant materials for maximum performance and longevity under the toughest operating conditions.

Components are 100% lead-free, and meet all U.S. federal guidelines for safe drinking water.

APPLICATIONS

Water systems... for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Discharge - 304 grade stainless steel

Diffuser Assembly – Noryl diffusers with a stainless steet/urethane wear rings

Wear Rings – 304 stainless steel / Polyurethane

Impellers - Noryl

Upper Guide Bearing - Ceramic

Shaft - 416 stainless steel

Motor Coupling - 316 stainless steel

Shell - 300 grade stainless steel

Motor Adapter – 300 grade stainless steel

Suction Screen – 304 stainless steel

Cable Guard – 304 stainless steel

FEATURES

Discharge – 304 stainless steel, investment cast, 3" FNPT. Features 6 extra wide wrench flats for a secure grip when tightening to the drop pipe.

Standard Check Valve – 304 stainless steel. The poppet-style check valve helps protect the pump against backflow. The check valve can be easily removed if not required.

Shaft and Bearing Assembly – 416 stainless steel. A ceramic upper bearing guide combined with a cutless rubber bearing protects the shaft from premature wear.

Impellers and Diffusers – glass-filled Noryl. Smooth and efficient performance, and superior sand handling.

Wear Rings – 304 stainless steel and polyurethane. Minimizes re-circulation for increased pump performance and longevity.

Pump Sleeve – 304 stainless steel Provides superior corrosion resistance when the pump is installed in harsh environments.

Lead guard – 304 stainless steel Easy installation, and protects the motor leads across the full length of the pump.

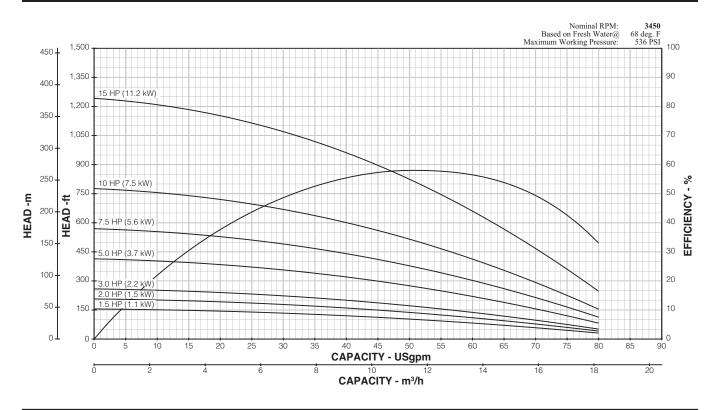
Suction Bracket – 304 stainless steel, investment cast. Machined for both 4" and 6" motor registers. Bolt kits included for either motor size where appropriate.

Motor Coupling – 316 stainless steel. Designed to effectively divert debris away from the spline engagement area to maximize durability.

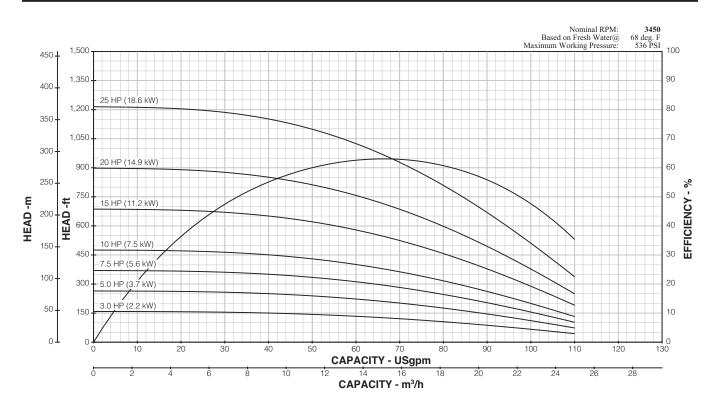
Suction Screen – 304 stainless steel Form fitted, provides corrosion resistance, and prevents particulates larger than 0.10" from entering the pump.

50, 75, and 100 GPM

PUMP PERFORMANCE - 6TSP-50

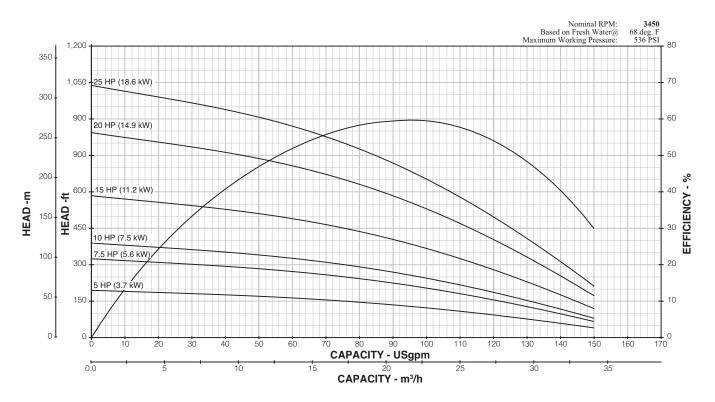


PUMP PERFORMANCE - 6TSP-75



50, 75, and 100 GPM

PUMP PERFORMANCE - 6TSP-100



70, 115, 140, 155, 230 and 300 GPM



The 6TS Series Submersible features heavy-duty 304 stainless steel construction that will outperform ordinary fabricated stainless steel pumps in aggressive water conditions.

APPLICATIONS

Water systems... for municipal, multiple housing, commercial, in water fountains, irrigation, mine de-watering, and farm use.

SPECIFICATIONS

Suction Motor Bracket – Stainless steel 304 (investment cast)

Top Bearing – Stainless steel 304 (chrome plated)

Coupling - Stainless steel 416

Shaft - Stainless steel 416

Spacer - Stainless steel 304

Impeller - Stainless steel 304

Diffuser Bowl - Stainless steel 304

Discharge Bracket – Stainless steel 304 (investment cast)

Check Valve - Stainless steel 304

FEATURES

Heavy-Duty, Investment Cast 304
Stainless Steel Discharge and
Suction Bracket – Assures perfect
pump-to-motor alignment with any NEMAstandard submersible motor. Discharge
assures secure connection to drop pipe.
Wrench flats provide positive grip during
installation.

Low-Profile Stainless Steel Lead Guard – Aids installation in narrow wells

Wide Range of Performance Options – 1 HP to 60 HP; 29 to 365 U.S. GPM

Hard Chrome-plated Top Bearing Journal – Reduces wear in harsh conditions, such as sand

State-of-the-Art Design – Delivers maximum performance and reliability in the toughest conditions

100% Lead-free Components –Meets all U.S. federal guidelines for safe drinking water

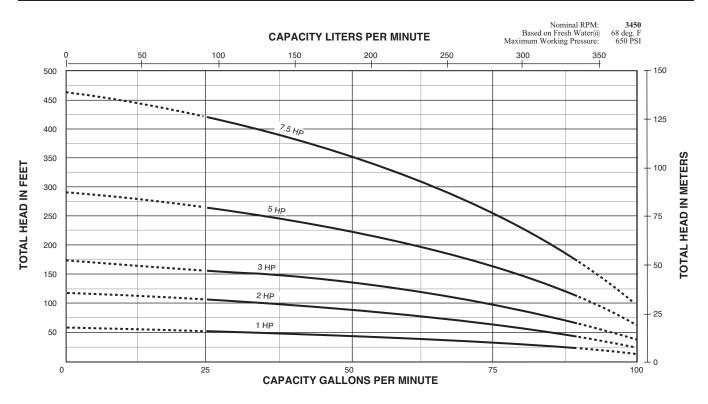
Built-In Thrust Protection – Protects pump during periods of high demand and start-up. Prevents pump failure.

Built-In Check Valve (Optional) – Prevents backflow and reverse rotation

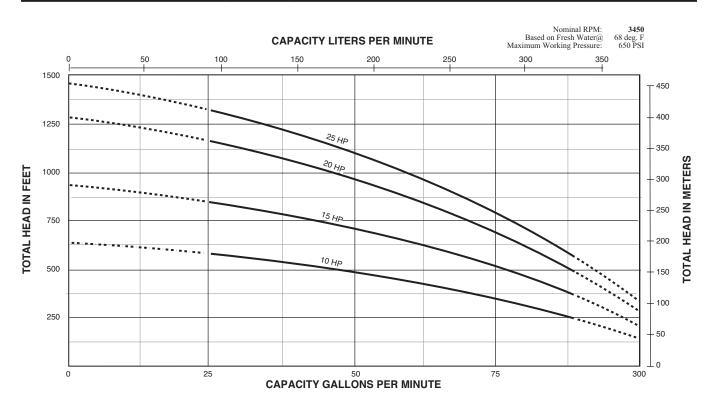
Buna* **Wear Rings** – Improve pump efficiency and durability

70, 115, 140, 155, 230 and 300 GPM

PUMP PERFORMANCE - 6TS-70 (1 - 7.5 HP)

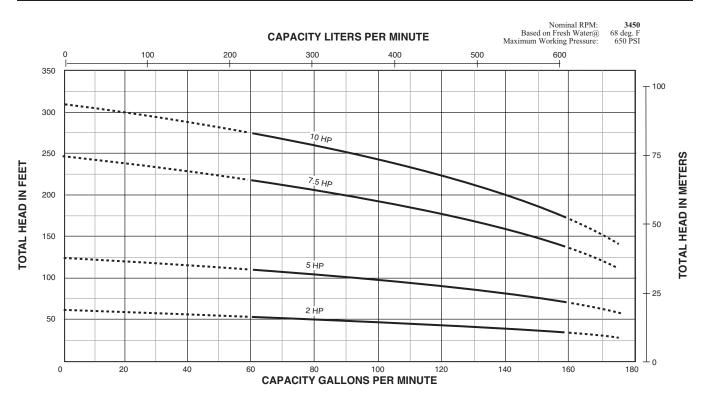


PUMP PERFORMANCE - 6TS-70 (10 - 25 HP)

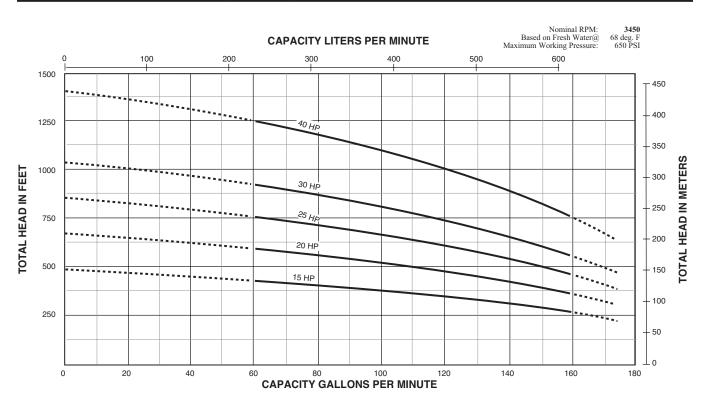


70, 115, 140, 155, 230 and 300 GPM

PUMP PERFORMANCE - 6TS-115 (2 - 10 HP)

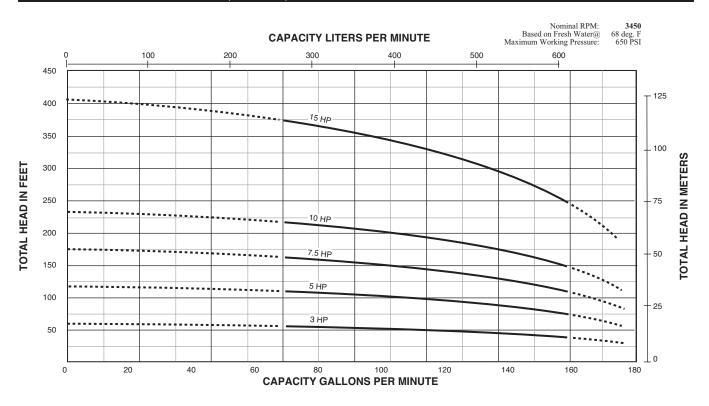


PUMP PERFORMANCE - 6TS-115 (15 - 40 HP)

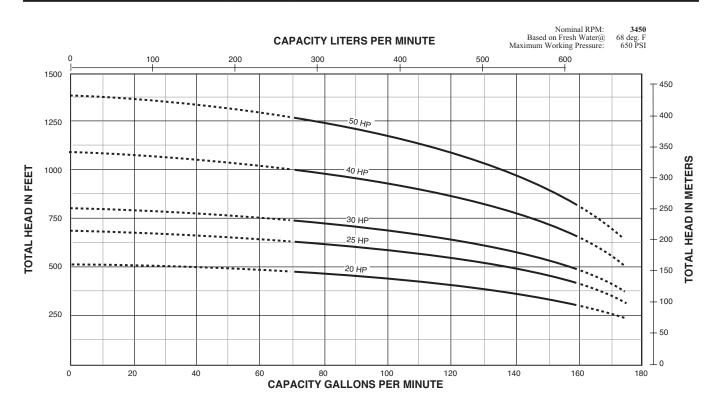


70, 115, 140, 155, 230 and 300 GPM

PUMP PERFORMANCE - 6TS-140 (3 - 15 HP)

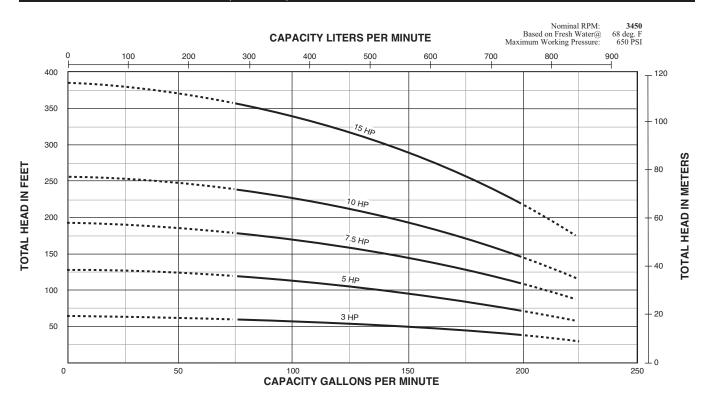


PUMP PERFORMANCE - 6TS-140 (20 - 50 HP)

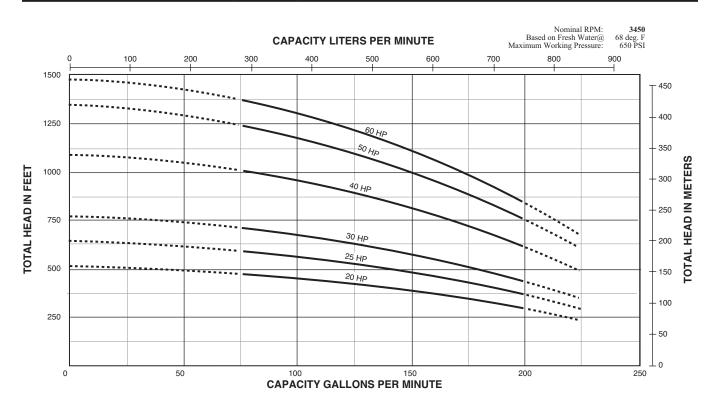


70, 115, 140, 155, 230 and 300 GPM

PUMP PERFORMANCE - 6TS-155 (3 - 15 HP)

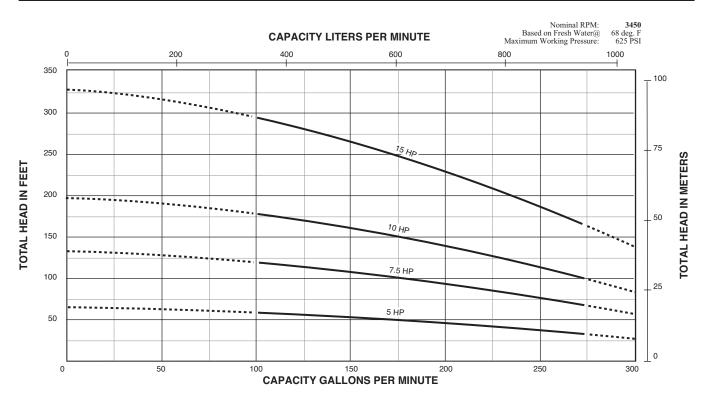


PUMP PERFORMANCE - 6TS-155 (20 - 60 HP)

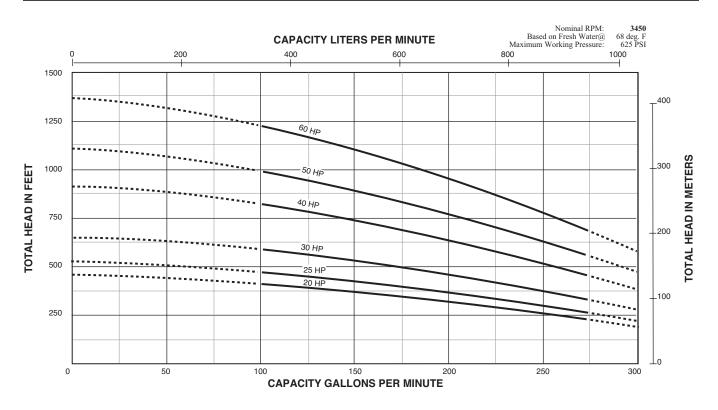


70, 115, 140, 155, 230 and 300 GPM

PUMP PERFORMANCE - 6TS-230 (5 - 15 HP)

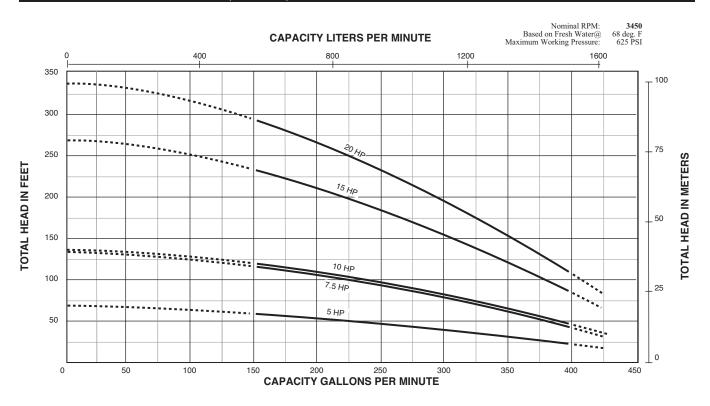


PUMP PERFORMANCE - 6TS-230 (20 - 60 HP)

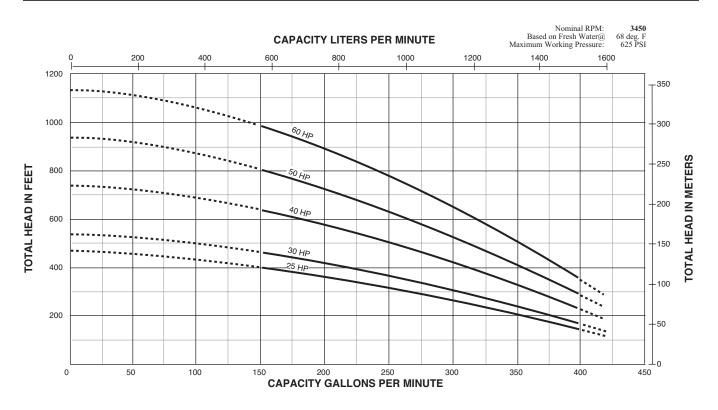


70, 115, 140, 155, 230 and 300 GPM

PUMP PERFORMANCE - 6TS-300 (5 - 20 HP)



PUMP PERFORMANCE - 6TS-300 (25 - 60 HP)



6TS Series

70, 115, 140, 155, 230 and 300 GPM

ORDERING INFORMATION

	Pump Model	HP	Stage(s)	Discharge (Female)	Motor Diameter	With Check Valve	Without Check Valve	Weight (lbs.)
	6TS1-70	1	1			B85939	B85951	26
	6TS2-70	2	2		/"	B85940	B85952	28
	6TS3-70	3	3		4"	B85941	B85953	30
	6TS5-70	5	5			B85942	B85954	30
	6TS5-70	5	5		6"	B85943	B85955	34
70 GPM	6TS7.5-70	7-1/2	8	3"	4"	B85944	B85956	34
70 GFM	6TS7.5-70	7-1/2	8	٥	6"	B85945	B85957	38
	6TS10-70	10	11		4"	B85946	B85958	38
	6TS10-70	10	11			B85947	B85959	46
	6TS15-70	15	16		6"	B85948	B85960	54
	6TS20-70	20	22		0	B85949	B85961	62
	6TS25-70	25	25			B85950	B85962	70
	6TS2-115	2	1		4"	B85963	B85975	24
	6TS5-115	5	2		4"	B85964	B85976	29
	6TS5-115	5	2	1	6"	B85965	B85977	29
	6TS7.5-115	7-1/2	4	1	4"	B85966	B85978	40
	6TS7.5-115	7-1/2	4	3"	6"	B85967	B85979	40
11F ODM	6TS10-115	10	5		4"	B85968	B85980	47
115 GPM	6TS10-115	10	5			B85969	B85981	47
	6TS15-115	15	8		6"	B85970	B85982	62
	6TS20-115	20	11	1		B85971	B85983	79
	6TS25-115	25	14	1		B85972	B85984	90
	6TS30-115	30	17	1		B85973	B85985	105
	6TS40-115	40	23	1		B85974	B85986	129
	6TS3-140	3	1		4"	B80547	B80943	24
	6TS5-140	5	2	1	4"	B80548	B80944	26
	6TS5-140	5	2	1	6"	B80549	B80945	26
	6TS7.5-140	7-1/2	3	1	4"	B80550	B80946	29
	6TS7.5-140	7-1/2	3	1	6"	B80551	B80947	29
	6TS10-140	10	4	1	4"	B80552	B80948	31
140 GPM	6TS10-140	10	4	3"		B80553	B80949	31
	6TS15-140	15	7	1		B80554	B80950	39
	6TS20-140	20	9	1		B80555	B80951	43
	6TS25-140	25	12	1	6"	B80556	B80952	51
	6TS30-140	30	14	1		B80557	B80953	56
	6TS40-140	40	19	1		B80558	B80954	68
	6TS50-140	50	24	1		B80559	B80955	80

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6TS Series

70, 115, 140, 155, 230 and 300 GPM

ORDERING INFORMATION

	Pump Model	НР	Stage(s)	Discharge (Female)	Motor Diameter	With Check Valve	Without Check Valve	Weight (lbs.)
	6TS3-155	3	1		4"	B85987	B86001	24
	6TS5-155	5	2	1	4"	B85988	B86002	29
	6TS5-155	5	2	1	6"	B85989	B86003	29
	6TS7.5-155	7-1/2	3	1	4"	B85990	B86004	35
	6TS7.5-155	7-1/2	3	1	6"	B85991	B86005	35
	6TS10-155	10	4	1	4"	B85992	B86006	40
455.0014	6TS10-155	10	4	1		B85993	B86007	40
155 GPM	6TS15-155	15	6	3"		B85994	B86008	51
	6TS20-155	20	8	1		B85995	B86009	62
	6TS25-155	25	10	1		B85996	B86010	73
	6TS30-155	30	12	1	6"	B85997	B86011	84
	6TS40-155	40	16	1		B85998	B86012	106
	6TS50-155	50	20	1		B85999	B86013	128
	6TS60-155	60	22	1		B86000	B86014	139
	6TS3-230	3	1		4"	B86015	B86029	40
	6TS5-230	5	1	1	4"	B86016	B86030	44
	6TS5-230	<u>5</u>	1	1	6"	B86017	B86031	44
	6TS7.5-230	7-1/2	2	1	4"	B86018	B86032	49
	6TS7.5-230	7-1/2	2	1	6"	B86019	B86033	49
	6TS10-230	10	3	1	4"	B86020	B86034	53
	6TS10-230	10	3	- - 4"	7	B86021	B86035	53
230 GPM	6TS15-230	15	5			B86022	B86036	62
	6TS20-230	20	7	-		B86023	B86037	67
	6TS25-230	25	8	-	6"	B86024	B86038	76
	6TS30-230	30	10	-		B86025	B86039	89
	6TS40-230	40	14	-		B86026	B86040	103
	6TS50-230	50	17	-		B86027	B86041	116
	6TS60-230	60	21	-		B86028	B86042	129
	6TS5-300	 5	1		4"	B86043	B86056	40
	6TS5-300	5	1	-	6"	B86044	B86057	40
	6TS7.5-300	7-1/2	2	-	4"	B86045	B86058	44
	6TS7.5-300	7-1/2	2	-	6"	B86045	B86059	44
	6TS10-300	10	2	-	Δ"	B86046 B86047	B86060	44
		10	2	-	4	B86047 B86048	B86060 B86061	44
200 0014	6TS10-300			- ,,,				
300 GPM	6TS15-300	15	4	4"		B86049	B86062	55
	6TS20-300	20	5	-		B86050	B86063	60
	6TS25-300	25	7	-	6"	B86051	B86064	70
	6TS30-300	30	8	4		B86052	B86065	75
	6TS40-300	40	11	4		B86053	B86066	90
	6TS50-300	50	14	4		B86054	B86067	105
	6TS60-300	60	17			B86055	B86068	120

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Pentek® XE Series™ Motors

Stainless Steel









Built with the latest design, manufacturing and testing technology, they 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 over cast iron

Shell: 304 stainless steel

Motor Shaft: 17-4 precipitation hardened

stainless steel Winding: Copper

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.

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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 Pentek VIP motor controls.

All Stainless Steel Exterior

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

UL, CSA Approved and **NSF/ANSI 61 Certified**

100% Factory Pressure and Run Tested

Equipped with Surge Arrestor

Automatic Thermal Protection on 1/2 - 1 HP Models

CB6305WS

Pentek® XE Series™ Motors

Stainless Steel

ORD	DERIN	G INFO	RM.	ATION											
		RATING				FULL	MAX. LOAD	LOCKED	WIN	DING		L	ENGTI	l WE	IGHT
НР	kW	VOLTS	Hz	SERVICE FACTOR	CATALOG NUMBER	LOAD AMPS	(SF LOAD) AMPS	ROTOR AMPS	MAIN RESISTANCE	START RESISTANC	THRUS E RATIN		ı. Mı	и LB.	KG
PERI	MANE	NT SPL	IT (CAPACITO	DR (PSC) 2 WI	RE					·			·	
1/2	0.37	115		1.6	P42B0005A1-01	8.1	10.2	28.0	1.4-2.0			11			8.7
		230		1.6	P42B0005A2-01	4.3	4.8	16.0	6.1-7.2			11	_		
3/4	0.55	230	60	1.5	P42B0007A2-01 P42B0010A2-01	5.0 6.7	6.4 8.2	18.0 23.5	5.9-6.9		700	_	.4 31		
1-1/2	1.1	230		1.4	P42B0010A2-01	9.1	10.5	43.0	4.2-5.2 1.8-2.4	-		13			
		·	Τ/Ι		N RUN (CSIR			40.0	1.0 2.4				., 0,	0 20.7	10.1
		115		1.6	P43B0005A1-01	9.8	11.6	44.0	1.0-1.4	2.5-3.1		10	.0 25	3 18.9	8.6
1/2	0.37	230		1.6	P43B0005A2-01	5.7	6.3	20.5	5.1-6.1	12.4–13.7		9.			
3/4	0.55	230	60	1.5	P43B0007A2-01	6.7	7.9	32.0	2.6-3.3	10.4-11.7	700	10		_	_
1	0.75	230		1.4	P43B0010A2-01	8.5	9.5	41.0	2.0-2.6	9.3–10.4		11	_		
CAPA			T/C		R RUN (CSCF										
1/2	0.37			1.6	P43B0005A2-01	4.4	5.0	21.0	5.1-6.1	12.4-13.7		9.	7 24	6 18.1	8.2
3/4	0.55	1		1.5	P43B0007A2-01	4.6	6.1	32.0	2.6-3.3	10.4-11.7		10	_		
1	0.75	1		1.4	P43B0010A2-01	6.2	7.4	41.0	2.0-2.6	9.3–10.4	700	11	_		
1-1/2	1.1	230	60	1.3	P43B0015A2-01	9.2	11.0	49.0	2.1-2.5	10.0-10.8		13		_	
2	1.5	1 200		1.25	P43B0020A2	9.9	12.2	49.0	1.6-2.2	4.8-5.9		15	_		
3	2.2	1		1.15	P43B0030A2	14.3	16.5	76.0	1.0-1.4	2.0-2.5	900	18			_
5	3.7	1		1.15	P43B0050A2	24.0	27.0	101.0	.68	1.3-1.7	1500		_	3 70.0	_
2 DL	IASE	<u>'</u>							,						
3 Pr	IASE				ı			1							
		RATING	,	r		FULL	MAX. LOAD	LINE	TO LINE	LOCKED		LEN	GTH	WEI	GHT
ш	LAM	VOLTC		SERVICE	CATALOG	LOAD			TANCE	ROTOR	THRUST		MANA		I/O
HP	kW	VOLTS 200	Hz	FACTOR	NUMBER P43B0005A8	2.9	3.5		-5.2	AMPS 22	RATING	IN. 10.0	MM 254	LB. 18.9	KG
1/2	0.37	230	60	1.6	P43B0005A3	2.4	3.0		-3.2 '-7.2	18		10.0	254	18.9	8.6
.,_	0.07	460			P43B0005A4	1.3	1.5		-26.1	9		10.0	254	18.9	8.6
		200			P43B0007A8	3.9	4.7	2.8	3.7	30		10.8	274	21.4	9.7
3/4	0.55	230	60	1.5	P43B0007A3	3.3	4.0		-4.3	27		10.8	274	21.4	9.7
		460 200			P43B0007A4	1.7	2.0		-16.2	14 34	700	10.8	274	21.4	9.7
1	0.75	230	60	1.4	P43B0010A8 P43B0010A3	4.8	4.9		2-3.1	26	700	11.7	297 297	23.1	10.5
'	0.73	460	00	1.4	P43B0010A3	2.2	2.5		1–18.6	15		11.7	297	23.1	10.5
		200			P43B0015A8	6.6	7.6		-2.5	40		11.7	297	23.1	10.5
1-1/2	1.1	230	60	1.3	P43B0015A3	5.8	6.6		i–3.1	36		11.7	297	23.1	10.5
1-1/2	1.1	460	00	1.5	P43B0015A4	3.0	3.4		-10.5	16		11.7	297	23.1	10.5
		575			P43B0015A5	2.3	2.6		-17.3	15		11.7	297	23.1	10.5
		200			P43B0020A8 P43B0020A3	8.0	9.3 8.0		-2.0 -2.8	51 44		13.8	351 351	27.4	12.4
2	1.5	460	60	1.25	P43B0020A4	3.6	4.1		-9.3	23		13.8	351	27.4	12.4
		575			P43B0020A5	2.7	3.3		1-12.5	21	000	15.3	389	32.0	14.5
		200			P43B0030A8	10.9			-1.5	71	900	15.3	389	32.0	14.5
3	2.2	230	60	1.15	P43B0030A3	9.2	10.1		-2.0	59		15.3	389	32.0	14.5
J	2.2	460		1.10	P43B0030A4	4.8	5.3		-7.7	30		15.3	389	32.0	14.5
		575 200			P43B0030A5 P43B0050A8	3.7	20.2		!-12.5 '9	21 113		15.3	389 551	32.0 55.0	14.5 24.9
		230			P43B0050A3	15.7	17.5		9	93		21.7	551	55.0	24.9
5	3.7	460	60	1.15	P43B0050A4	7.6	8.5	+	1.3	48		21.7	551	55.0	24.9
		575	L		P43B0050A5	7.0	7.6		-4.2	55		27.7	703	70.0	31.8
		200			P43B0075A8	27.0	30.0	/.	,	165	1500	27.7	703	70.0	31.8
									6						
7-1/2	5.6	230	60	1.15	P43B0075A3	24.0	26.4	.5	9	140		27.7	703	70.0	31.8
7-1/2	5.6	230 460	60	1.15	P43B0075A3 P43B0075A4	24.0 12.2	26.4 13.5	.5	9 -2.7	140 87		27.7 27.7	703 703	70.0	31.8
7-1/2	5.6 7.5	230	60	1.15 1.15	P43B0075A3	24.0	26.4 13.5 10	2.1 3.6	9	140		27.7	703		

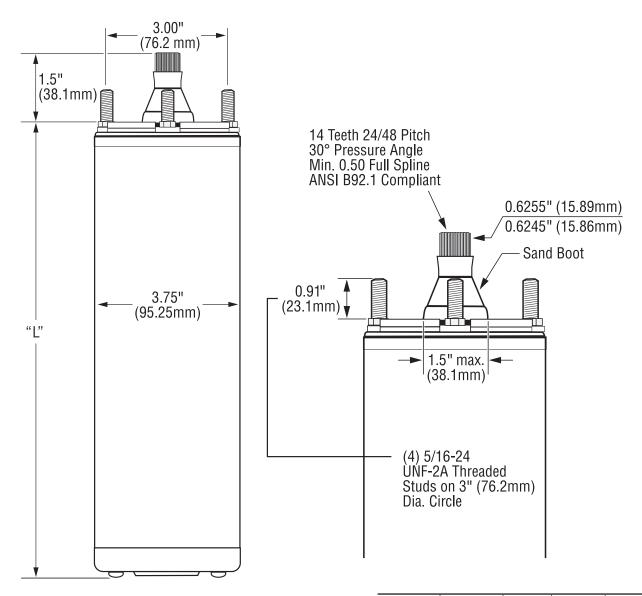
NOTE: Amp ratings on 3-wire motors reflect use with CSIR controls. A CSCR control is recommended for lower values.

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Pentek® XE Series™ Motors

Stainless Steel

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

CATALOG NUMBER	#0FWIRES	TYPE	LENGTH	GAUGE
XE SERIE	S REPLACE	MENT M	IOTOR LE	ADS
P18-1485K	2 Wire	XLPE	48 in.	14
P18-1486K	3 Wire	XLPE	48 in.	14
P18-1651K	2 Wire	XLPE	100 in.	14
P18-1652K	3 Wire	XLPE	100 in.	14
P18-1678K	3 Wire	XLPE	180 in.	14

CATALOG NUMBER	#0FWIRES	TYPE	LENGTH	GAUGE
XE SERIE	S REPLACE	MENT M	IOTOR LE	ADS
P18-1490K	2 Wire	SJOW	10 ft.	16
P18-1488K	2 Wire	SOOW	10 ft.	16
P18-1628K	2 Wire	SOOW	30 ft.	16
P18-1629K	2 Wire	SOOW	50 ft.	16
P18-1630K	2 Wire	SOOW	100 ft.	16
P18-1631K	3 Wire	SOW	10 ft.	16
P18-1632K	3 Wire	SOW	20 ft.	16
P18-1633K	3 Wire	SOW	30 ft.	16
P18-1634K	3 Wire	SOW	50 ft.	16
P18-1635K	3 Wire	SOW	100 ft.	16

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Submersible Motor Controls







Pentek® offers a full range of 1/2 - 5 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)

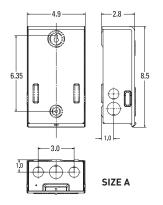
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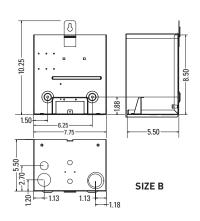
Submersible Motor Controls

ORDERIN	IG INFORMA	TION					
				60 HZ	WEI	GHT	ENCLOSURE
HP	KW	PH	VOLTS	CATALOG NUMBER	LBS.	KG	SIZE
CSIR - CA	PACITOR STA	ART/INDUC	TION 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	А
3/4	0.55	1	230	SMC-IR0721 (-6pk)*	4	1.8	А
1	0.75	1	230	SMC-IR1021 (-6pk)*	4	1.8	А
CSCR – CA	PACITOR ST	ART/CAPAC	ITOR RUN				
1/2	0.37	1	230	SMC-CR0521 (-6pk)*	5	2.3	А
3/4	0.55	1	230	SMC-CR0721 (-6pk)*	5	2.3	А
1	0.75	1	230	SMC-CR1021 (-6pk)*	5	2.3	А
1-1/2	1.1	1	230	SMC-CR1521	7	3.2	В
2	1.5	1	230	SMC-CR2021	7	3.2	В
3	2.2	1	230	SMC-CR3021	7	3.2	В
5	3.7	1	230	SMC-CR5021	8	3.6	В
CSCR PLU	S – CAPACIT	OR START/	CAPACITOR	RUN PLUS MAGNETIC CON	NTACTOR		
2	1.5	1	230	SMC-CRP2021	7	3.2	В
3	2.2	1	230	SMC-CRP3021	8	3.6	В
5	3.7	1	230	SMC-CRP5021	12	5.4	С

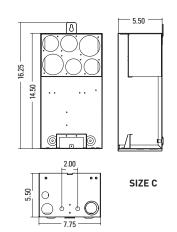
^{*}Submersible Motor Controls are available in single and six packs. Include the suffix "-6pk" after the catalog number if 6 packs are required.

OUTLINE DIMENSIONS





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Dimensions (in inches) are for estimating purposes only.

CB6306WS

Pentek® VIP Pro Series Controls



Capacitor start, capacitor run — designed for the full range of single-phase 1/2, 3/4, 1, 1-1/2, 2, 3 and 5 HP, 3-wire submersible motors

APPLICATIONS

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

FEATURES

ENCLOSURE

- Weather resistant construction NEMA 3R/IP24 rated enclosure for indoor/outdoor use
- 2 Control box rated for 50°C (122°F) ambient temperature
- 3 One screw removal for easy panel access with motor running
- Pentek proprietary dielectric control panel board, UL and CSA Certified

INTERNALS

- Universal controls -designed to work on most manufacturers 3-wire submersible motors
- 6 Large wiring area offers generous space to make your wiring connections. Incorporates 1/2", 3/4" and 1" conduit knock-outs
- Control box is functional with the cover removed, offering easier in-the-field troubleshooting

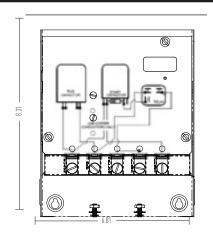
Agency Approvals: CSA CUS Certified Pentek Submersible Motor Controls can be used with Pentek XE Series motors.

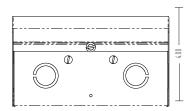
CB12130WS

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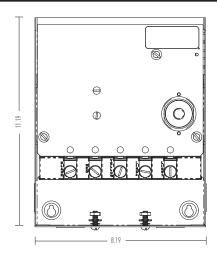
Pentek® VIP Pro Series Controls

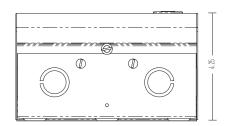
SIZE A





SIZE B





VIP CO	NTR	OL B	OX SF	PECIF	ICATIO	N									
CATALOG							WEI	ЭНТ	ENCLOSURE	STAF	T CAPACITOR	RUN C	APACITOR	VOLTAGE	
NUMBER	HP	KW	PHASE	VOLTS	HERTZ	TYPE	LBS	KG	SIZE	PN	RATING	PN	RATING	RELAY	PROTECTOR
VIP4C02	0.50	0.37	1	230	60	CSCR	4.6	2.1	А	U17-1422	43MFD-270V-15kΩ	U17-2072	15MFD-370V	U17-2077	None
VIP4D02	0.75	0.55	1	230	60	CSCR	4.4	2.0	А	U17-1423	59MFD-270V-15kΩ	U17-2073	20MFD-370V	U17-2077	None
VIP4E02	1.00	0.75	1	230	60	CSCR	4.4	2.0	А	U17-1424	86MFD-270V-15kΩ	U17-2074	23MFD-370V	U17-2077	None
VIP4F02	1.50	1.1	1	230	60	CSCR	4.6	2.1	А	U17-1430	105MFD-330V-15kΩ	U17-1438	10MFD-370V	U17-2078	CGP69JB-7
VIP4G02	2.00	1.5	1	230	60	CSCR	4.6	2.1	А	U17-1430	105MFD-330V-15kΩ	U17-1440	23MFD-370V	U17-1431	CET38EB-7
VIP4H02	3.00	2.2	1	230	60	CSCR	5.4	2.4	А	U17-1428	208MFD-330V-15kΩ	U17-1443	45MFD-370V	U17-1431	CGT66DD-07
VIP4J02	5.00	3.7	1	230	60	CSCR	8.2	3.7	В	U17-1437	270MFD-330V-15kΩ	U17-1442	40MFD-370V (2 pcs)	U17-2079	BET00EE-21

 $Control\ boxes\ are\ designed\ to\ be\ used\ on\ Pentair\ motors\ with\ the\ same\ HP\ and\ Voltage\ ratings.\ Do\ not\ use\ on\ motors\ with\ different\ ratings.$

80 CB12130WS

Single Phase Pump Protectors



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 VOL	T 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
Jndervoltage 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"

81 CB6307WS

SPP-111P and SPP-231P

The Insider - Submersible Motors Controls



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

For 1/3 - 1 HP applications, the SPP-111P and the 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.

ORDERING I	NFORMATION						
					WEI	GHT	
HP	PHASE	VOLTS	FREQUENCY	CATALOG NUMBER	LBS.	KG	CARTON SIZE
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"

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CB6308WS

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

Submersible and Above Ground Single Phase Pump Protector



SPP-233P

(I)°

For 1/2 - 15 HP applications
the SPP-111-3RLP, SPP-233P and
SPP-235P single-phase protectors
include a unique microcontrollerbased voltage and current-sensing
circuit that constantly monitors the
incoming power for fluctuations
including overcurrent 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.

ORDERING INFORMATION WEIGHT HP **PHASE VOLTS FREQUENCY CATALOG NUMBER** LBS. KG **CARTON SIZE** 1/2 - 1115 50-60Hz SPP-111-3RLP 1.6 0.7 7.25" x 7" x 5.25" 1/2-1-1/2 230 50-60Hz SPP-233P-1.5 1.6 0.7 7.25" x 7" x 5.25" 1/2 - 31 230 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" 1 50-60Hz SPP-235P-100* 2 7.25" x 7" x 5.25' 10 SPP-235P-150* 2 0.9 15 1 230 50-60Hz 7.25" x 7" x 5.25"

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APPLICATIONS

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

FEATURES

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

CB6309WS

^{*}Current transformer included.

The Informer

Remote diagnostic



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.

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

ORDERING INFORMATION							
	V	/EIGHT					
CATALOG NUMBER	LBS.	KG	CARTON SIZE				
SPP-Informer	1	0.45	4.375" x 3.375" x 6.75"				

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Pentek Intellidrive

Water Pressure Control Center



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

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.

APPLICATIONS

Residential water systems, landscape irrigation, water transfer.

SPECIFICATIONS

Enclosure Dimensions:

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

Carton Dimensions:

Width: 10.4" Height: 22.3" Depth: 9.4"

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

4 MODELS MEET ALL YOUR NEEDS

1/2 HP - 5 HP Capabilities
All in same unit;
2-Wire, 3-Wire & 3-Phase
Submersible motors
3-Phase Above Ground motors

1-Phase Input *230V)

80 Hz 3-Phase Output option**

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 IN	ORDERING INFORMATION								
MODEL NUMBER	MOTOR TYPE	HP RANGE	INPUT VOLTAGE	MAXIMUM OUTPUT AMPS	ENCLOSURE TYPE				
	2-WIRE 1-PHASE			9.5A					
PID10	3-WIRE 1-PHASE	0.5 – 1 HP		7.5A					
	3-PHASE			5A					
	2-WIRE 1-PHASE	0.5 – 1.5 HP		11A					
PID20	3-WIRE 1-PHASE	0.5 – 2 HP		13.5A					
	3-PHASE	0.5 - Z HP	1001/ 2/51/	8.5A	NEMA 2D				
	2-WIRE 1-PHASE	0.5 – 1.5 HP	190V – 265V	11A	NEMA 3R outdoor				
PID30	3-WIRE 1-PHASE	0.5 – 2 HP		13.5A					
	3-PHASE	0.5 – 3 HP		11.5A					
	2-WIRE 1-PHASE	0.5 – 1.5 HP		11A					
PID50	3-WIRE 1-PHASE	0.5 – 2 HP		13.5A					
	3-PHASE	0.5 – 5 HP		18A					

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CB10350WS

Pentek Intellidrive[™]

Water Pressure Control Center

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

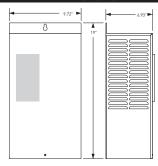
Spring Terminals

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.

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Pentek Intellidrive[™]

Water Pressure Control Center

PENTEK INT	PENTEK INTELLIDRIVE ACCESSORIES						
MODEL NO.	DESCRIPTION						
VFD-LINK	Wireless Translator for Intellidrive						
VFD-SGA	VFD-SGA Surge arrestor kit, line and load						
VFD-SGA-LN	Surge arrestor kit, line side						
VFD-SGA-LD	Surge arrestor kit, load side						
VFD-ALT	VFD Alternating panel						
VFD-WS	VFD Water sensor with 15' cable						
PID-GRP	PID-GRP Cable mounting and nut, 1/2 NPT, black, qty. 10						
VFD-SCRN	Filter Kit						

PENTEK INTEL	LIDRIVE TRANSDUCER CABLE	S
PART NUMBER	DESCRIPTION	REPLACES
VFD-10TCB	Transducer Cable 10FT 3R	U18-1593
VFD-20TCB	Transducer Cable 20FT 3R	U18-1594
VFD-50TCB	Transducer Cable 50FT 3R	U18-1595
VFD-100TCB	Transducer Cable 100FT 3R	U18-1596
VFD-200TCB	Transducer Cable 200FT 3R	U18-1598

PENTEK IN	NTELLIDRIVE REPAIR F	PARTS	
MODEL NO.	ITEM	DESCRIPTION	MANUFACTURER
PID-CON2	2-Pole Connector (Line In)	2-Pole Connector (Line In)	Pentek [®]
PID-CON3	3-Pole Connector (Line Out)	3-Pole Connector (Line Out)	Pentek
PID-FAN	Replacement Fan	Replacement Fan	Pentek
PID-HMI	Replacement Keypad	Replacement Keypad	Pentek
U17-1561-R	Transducer (PID Control)	0 – 100 psig, 4~20ma, less lead	Pentek
U17-2000	Transducer (PID Control)	0 - 300 psig, 4-20ma, less lead	Pentek

Pentek Transducer for use with Pentek Intellidrive and Intellidrive XL.



VFD-WS
VFD WATER SENSOR WITH 15' CABLE



VFD-ALTVFD ALTERNATING PANEL



VFD-LINKWIRELESS TRANSLATOR FOR INTELLIDRIVE

87 CB10350WS

Pentek Intellikit[™]

Constant Pressure Controller

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



PENTEK

Submersible 3-Phase 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 BERKELEY

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

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

KIT CONTAINS:

- Pentek® Submersible Motor
- Berkeley® Submersible Pump
- Pentek Intellidrive™ Variable Frequency Drive

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.

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CB10353WS

Pentek Intellikit[™]

Constant Pressure Controller

60Hz NEMA	3 Kits								
Order	Flow		Shut-Off Head	At Rated Flow	at Max	Runout	_		
Number	Series	HP	TDH (ft)	TDH (ft)	Flow (GPM)	TDH (ft)	Pump	Drive	Motor
B5PIK10-60	5	1HP	650	475	7	300	L5P4EMGS	PID10	P43B0010A3-C
B5PIK15-60	5	1.5HP	885	640	7	400	L5P4FMGS	PID20	P43B0015A3-C
B7PIK10-60	7	1HP	540	380	10	140	L7P4EMGS	PID10	P43B0010A3-C
B7PIK15-60	7	1.5HP	740	475	10	190	L7P4FMGS	PID20	P43B0015A3-C
B7PIK20-60	7	2HP	920	610	10	210	L7P4GMGS	PID20	P43B0020A3-C
B10PIK10-60	10	1HP	495	300	15	110	L10P4EMGS	PID10	P43B0010A3-C
B10PIK15-60	10	1.5HP	629	410	15	150	L10P4FMGS	PID20	P43B0015A3-C
B10PIK20-60	10	2HP	795	498	15	200	L10P4GMGS	PID20	P43B0020A3-C
B10PIK30-60	10	3HP	1100	710	15	250	L10P4HMGS	PID30	P43B0030A3-C
B15PIK10-60	15	1HP	310	200	21	95	L15P4EMGS	PID10	P43B0010A3-C
B15PIK15-60	15	1.5HP	420	280	21	120	L15P4FMGS	PID20	P43B0015A3-C
B15PIK20-60	15	2.0HP	522	350	21	150	L15P4GMGS	PID20	P43B0020A3-C
B15PIK30-60	15	3.0HP	770	520	21	230	L15P4HMGS	PID30	P43B0030A3-C
B20PIK10-60	20	1HP	250	185	28	80	L20P4EMGS	PID10	P43B0010A3-C
B20PIK15-60	20	1.5HP	335	232	28	110	L20P4FMGS	PID20	P43B0015A3-C
B20PIK20-60	20	2.0HP	420	310	28	150	L20P4GMGS	PID20	P43B0020A3-C
B20PIK30-60	20	3.0HP	640	460	28	200	L20P4HMGS	PID30	P43B0030A3-C
B30PIK20-60	30	2.0HP	275	195	42	85	L30P4GMGS	PID20	P43B0020A3-C
B30PIK30-60	30	3.0HP	410	295	42	120	L30P4HMGS	PID30	P43B0030A3-C
B50PIK20-60	50	2.0HP	180	119	63	80	L50P4GMGS	PID20	P43B0020A3-C
B50PIK30-60	50	3.0HP	240	162	63	110	L50P4HMGS	PID30	P43B0030A3-C
B90PIK20-60	90	2.0HP	109	58	120	40	L90HF20	PID20	P43B0020A3-C
B90PIK30-60	90	3.0HP	150	80	120	55	L90HF30	PID30	P43B0030A3-C
80Hz NEMA	3 Kits		•				`		•
B7PIK15-80	7	1.5HP	740	475	10	190	L7P4DMGS	PID20	P43B0015A3-C
B7PIK20-80	7	2HP	920	610	10	210	L7P4EMGS	PID20	P43B0020A3-C
B7PIK30-80	7	3HP	1205	805	10	290	L7P4FMGS	PID30	P43B0030A3-C
B10PIK15-80	10	1.5HP	629	410	15	150	L10P4DMGS	PID20	P43B0015A3-C
B10PIK20-80	10	2HP	795	498	15	200	L10P4EMGS	PID20	P43B0020A3-C
B10PIK30-80	10	3HP	1100	710	15	250	L10P4FMGS	PID30	P43B0030A3-C
B15PIK15-80	15	1.5HP	420	280	21	120	L15P4DMGS	PID20	P43B0015A3-C
B15PIK20-80	15	2.0HP	522	350	21	150	L15P4EMGS	PID20	P43B0020A3-C
B15PIK30-80	15	3.0HP	770	520	21	230	L15P4FMGS	PID30	P43B0030A3-C
B20PIK15-80	20	1.5HP	335	232	28	110	L20P4DMGS	PID20	P43B0015A3-C
B20PIK20-80	20	2.0HP	420	310	28	150	L20P4EMGS	PID20	P43B0020A3-C
B20PIK30-80	20	3.0HP	640	460	28	200	L20P4FMGS	PID30	P43B0030A3-C
B30PIK20-80	30	2.0HP	275	195	42	85	L30P4EMGS	PID20	P43B0020A3-C
B30PIK30-80	30	3.0HP	410	295	42	120	L30P4FMGS	PID30	P43B0030A3-C
B50PIK30-80	50	3.0HP	240	162	63	110	L50P4FMGS	PID30	P43B0030A3-C
B90PIK30-80	90	3.0HP	150	80	120	55	L90HF20	PID30	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.

89 CB10353WS

Pentek Intellidrive XL Pump Controllers



Pentek Intellidrive XL, the latest addition to our line of variable frequency drives, is designed for large horsepower pumping applications.

Selection is easy. Setup is simple. And you have powerful opportunities to customize as needs arise. All backed by expert, dedicated tech support, available to quickly and efficiently resolve any issues.

APPLICATIONS

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

SPECIFICATIONS

HP Ratings: 1-150 **Voltage:** 230, 460, 575 **Frequency:** 50/60 Hz

Standard I/O: Digital Inputs: 6; Analog Inputs: 2; Pulse Inputs: 2; Relays: 2; Digital Outputs: 2; Analog Outputs: 4

Communication: Modbus RTU

Enclosure Type: NEMA 1, 3R, 4X, IP20

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Open/Chassis

FEATURES

Pentek Intellidrive XL:

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 System Protection: Dry Run detection, check valve ramp, pipe fill mode, Sleep mode, no/low flow detection, end of pump curve detection, integrated mains disconnect switch (optional), real-time clock battery backup.

Phase Conversion: Single phase input drives are available that convert to 3 phase output.

Simple Setup:

Pump and Motor Settings: Above/ Below Ground, Horsepower, Voltage, Current, Nominal Speed.

System Learning: No Load, Sleep, No Flow.

Ready to Go!: That's it. The drive is now ready for use. Following those simple steps to configure your system for constant pressure has you ready to move to the next job.

CB12131WS

Pentek Intellidrive[™] XL Pump Controllers

ORDERIN	IG INFORM	IATION		
	SINGLI	E PHASE IN	PUT DRIVES	
OUTPUT AMPS	INPUT VOLTAGE	INPUT PHASE	NEMA RATING	MODEL NUMBER
24.2				PID007512ND
30.8		NEM	NEMA 1	PID010012ND
59.4			NEMA	PID020012ND
88	230			PID030012ND
24.2	230	ı		PID007532ND
30.8			NFMA 3R	PID010032ND
59.4			INEIVIA 3R	PID020032ND
88				PID030032ND

ORDERIN	IG INFORM	IATION												
	SINGLE PHASE INPUT DRIVES													
OUTPUT AMPS	AMPS VOLTAGE PHASE RATING MODEL NUMBER													
24.2				PID007542ND										
30.8	230	1	NEMA 4X	PID010042ND										
59.4	230	1	INEMA 4A	PID020042ND										
88				PID030042ND										

ORDER	ING INFO	RMAT <u>IO</u>	N						
THREE PH	ASE INPUT	DRIVES	NEN	1A 1	NEM	A 3R	NEM	A 4X	OPEN CHASSIS
OUTPUT	INPUT	INPUT	NO		N0		N0		NO
AMPS	VOLTAGE	PHASE	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT
4.6			PID001013ND	PID001013FD	PID001033ND	PID001033FD	PID001043ND	PID001043FD	PID001003ND
7.5			PID002013ND	PID002013FD	PID002033ND	PID002033FD	PID002043ND	PID002043FD	PID002003ND
10.6			PID003013ND	PID003013FD	PID003033ND	PID003033FD	PID003043ND	PID003043FD	PID003003ND
16.7			PID005013ND	PID005013FD	PID005033ND	PID005033FD	PID005043ND	PID005043FD	PID005003ND
24.2			PID007513ND	PID007513FD	PID007533ND	PID007533FD	PID007543ND	PID007543FD	PID007503ND
30.8			PID010013ND	PID010013FD	PID010033ND	PID010033FD	PID010043ND	PID010043FD	PID010003ND
46.2	230		PID015013ND	PID015013FD	PID015033ND	PID015033FD	PID015043ND	PID015043FD	PID015003ND
59.4			PID020013ND	PID020013FD	PID020033ND	PID020033FD	PID020043ND	PID020043FD	PID020003ND
74.8]		PID025013ND	PID025013FD	PID025033ND	PID025033FD	PID025043ND	PID025043FD	PID025003ND
88			PID030013ND	PID030013FD	PID030033ND	PID030033FD	PID030043ND	PID030043FD	PID030003ND
115	1		PID040013ND	PID040013FD	PID040033ND	PID040033FD	PID040043ND	PID040043FD	PID040003ND
143	1		PID050013ND	PID050013FD	PID050033ND	PID050033FD	PID050043ND	PID050043FD	PID050003ND
170	1		PID060013ND	PID060013FD	PID060033ND	PID060033FD	PID060043ND	PID060043FD	PID060003ND
2.1			PID001014ND	PID001014FD	PID001034ND	PID001034FD	PID001044ND	PID001044FD	PID001004ND
3.4	1		PID002014ND	PID002014FD	PID002034ND	PID002034FD	PID002044ND	PID002044FD	PID002004ND
4.8			PID003014ND	PID003014FD	PID003034ND	PID003034FD	PID003044ND	PID003044FD	PID003004ND
8.2	1		PID005014ND	PID005014FD	PID005034ND	PID005034FD	PID005044ND	PID005044FD	PID005004ND
11	1		PID007514ND	PID007514FD	PID007534ND	PID007534FD	PID007544ND	PID007544FD	PID007504ND
14.5	1		PID010014ND	PID010014FD	PID010034ND	PID010034FD	PID010044ND	PID010044FD	PID010004ND
21	1		PID015014ND	PID015014FD	PID015034ND	PID015034FD	PID015044ND	PID015044FD	PID015004ND
27	1		PID020014ND	PID020014FD	PID020034ND	PID020034FD	PID020044ND	PID020044FD	PID020004ND
34	460		PID025014ND	PID025014FD	PID025034ND	PID025034FD	PID025044ND	PID025044FD	PID025004ND
40	1	3	PID030014ND	PID030014FD	PID030034ND	PID030034FD	PID030044ND	PID030044FD	PID030004ND
52			PID040014ND	PID040014FD	PID040034ND	PID040034FD	PID040044ND	PID040044FD	PID040004ND
65	1		PID050014ND	PID050014FD	PID050034ND	PID050034FD	PID050044ND	PID050044FD	PID050004ND
80	1		PID060014ND	PID060014FD	PID060034ND	PID060034FD	PID060044ND	PID060044FD	PID060004ND
105	1		PID075014ND	PID075014FD	PID075034ND	PID075034FD	PID075044ND	PID075044FD	PID075004ND
130	1		PID100014ND	PID100014FD	PID100034ND	PID100034FD	PID100044ND	PID100044FD	PID100004ND
160	1		PID125014ND	PID125014FD	PID125034ND	PID125034FD	PID125044ND	PID125044FD	PID125004ND
1.7			PID001015ND	PID001015FD	PID001035ND	PID001035FD	PID001045ND	PID001045FD	PID001005ND
2.7	1		PID002015ND	PID002015FD	PID002035ND	PID002035FD	PID002045ND	PID002045FD	PID002005ND
3.9	1		PID003015ND	PID003015FD	PID003035ND	PID003035FD	PID003045ND	PID003045FD	PID003005ND
6.1	1		PID005015ND	PID005015FD	PID005035ND	PID005035FD	PID005045ND	PID005045FD	PID005005ND
9	1		PID007515ND	PID007515FD	PID007535ND	PID007535FD	PID007545ND	PID007545FD	PID007505ND
11	1		PID010015ND	PID010015FD	PID010035ND	PID010035FD	PID010045ND	PID010045FD	PID010005ND
18	1		PID015015ND	PID015015FD	PID015035ND	PID015035FD	PID015045ND	PID015045FD	PID015005ND
22	-		PID020015ND	PID020015FD	PID020035ND	PID020035FD	PID020045ND	PID020045FD	PID020005ND
27	575		PID025015ND	PID025015FD	PID025035ND	PID025035FD	PID025045ND	PID025045FD	PID025005ND
34	1		PID030015ND	PID030015FD	PID030035ND	PID030035FD	PID030045ND	PID030045FD	PID030005ND
41	1		PID040015ND	PID040015FD	PID040035ND	PID040035FD	PID040045ND	PID040045FD	PID040005ND
52	1		PID050015ND	PID050015FD	PID050035ND	PID050035FD	PID050045ND	PID050045FD	PID050005ND
62	1		PID060015ND	PID060015FD	PID060035ND	PID060035FD	PID060045ND	PID060045FD	PID060005ND
83	1		PID075015ND	PID075015FD	PID075035ND	PID075035FD	PID075045ND	PID075045FD	PID075005ND
100	1		PID100015ND	PID100015FD	PID100035ND	PID100035FD	PID100045ND	PID100045FD	PID100005ND
131	1		PID125015ND		PID125035ND	PID125035FD	PID125045ND	PID125045FD	PID125005ND
101		, ,		1 1D 1200 101 D	. 10120000140	1 1 1 1 2 0 0 0 0 1 D	1 1D 12004014D	1 1 1 1 2 3 0 4 3 1 D	1 10 120000110

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

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Pentek® XE-6 6" Submersible Motors

Encapsulated Design



Delivers outstanding performance through lower amp draw and higher efficiencies, which yields lower operating costs. Combined with many durable, innovative, and advanced design features, the Pentek XE-6 is the perfect solution for your submersible motor needs.

APPLICATIONS

High-thrust water well applications.

SPECIFICATIONS

Shaft: 17-4 stainless steel

Motor Casing: 304 stainless steel

Upper and Lower Bracket: Epoxy-coated

cast iron - coating is TNEMEC 140, an NSF-certified coating

Upper Bracket: "dual-flange" design

Motor Lead: XLPE

Thrust Bearing: Water-lubricated,

Kingsbury-type

Pressure Equalizing Diaphragm:

Spring-less design









EXCLUSIVE ADVANCED PROTECTION SYSTEM

Provides **THREE** layers of defense against sand and debris intrusion



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FEATURES

Exceptional insulation rating (Class F) and temperature rating (95 F / 35 C)

IP68 protection rating

VFD-compatible

Vertical or Horizontal operation

1) External sand slinger boot

• Features a labyrinth seal design to better capture any sand or debris, keeping it away from the shaft

2) Lip seal

• Located below the sand slinger, providing an extra layer of protection

3) Mechanical seal - silicon carbide

- Excellent abrasion, wear, and corrosion resistance
- Resists deflection in high-pressure, high-heat, and high-speed conditions
- High thermal conductivity (heat dissipation)
- Provides superior protection against sand intrusion

CB12129WS

Pentek® XE-6 6" Submersible Motors

Encapsulated Design

MOTOR PERFORMANCE AND DIMENSIONAL DATA

Nominal Diameter - 6" / 152.4mm Effective Diameter - 5.43" / 138mm 60Hz • 2 POLE • 3450 RPM CLASS F INSULATION Shaft Extension - 2.87" / 73mm

URI	DERING	NF	UKI	MATIO												1 541	CTU					-00	ATE	_			
						FULL L	.OAD		SEI	RVICE F	ACTOR	1.15	LOCKED ROTOR	THRUST LOAD	KVA CODE	LEN (incl shaft	udes	WEI	IGHT				ATE N	ŀ	Η	l	IGHT +CRATE
PHASE	MODEL#	НР	KW	VOLTS	AMPS	WATTS	EFF %	PF %	AMPS	WATTS	EFF %	PF %	AMPS	(LBS)	CODE	IN	MM	LBS	KG	IN	ММ	IN	ММ	IN	ММ	LBS	KG
	P60A0050A2	5	3.70		22.8	4975	74.5	97.0	26.0	5625	75.5	97.0	104		F	25.6	650	104	47.2							134	60.8
	P60A0075A2	7.5	5.60		35.2	7300	77.0	92.0	40.0	8300	77.5	92.5	162		F	28.1	714	117	53.1	32	813	10	254	13.5	343	151	68.5
1	P60A0100A2	10	7.50	230	45.7	9700	76.5	94.0	52.4	11175	76.5	94.0	202	3600	E	30.3	770	132	59.9							166	75.3
	P60A0150A2	15	11.20		62.4	13725	81.5	98.0	72.5	15825	81.5	98.0	296		E	32.8	833	144	65.3	48	1219	10	254	13.5	343	178	80.7
	P60A0050A8	5	3.7		16.1	4830	77.5	86.5	18.0	5490	78.5	88.0	96		Н	23.0	583	87	39.5							115	52.2
	P60A0075A8	7.5	5.5		23.3	7000	80.0	87.5	26.8	8070	80.0	88.5	140		Н	24.3	618	97	44.0	32	813	10	254	13.5	343	127	57.6
	P60A0100A8	10	7.5		31.5	9090	82.5	86.5	35.0	10400	82.5	88.0	187		Н	25.6	650	104	47.2							134	60.8
	P60A0150A8	15	11	200-208	44.9	13440	83.5	87.0	50.8	15460	83.5	88.5	268		Н	28.1	713	117	53.1					П		151	68.5
	P60A0200A8	20	15		59.0	17850	83.0	87.5	67.1	20630	83.0	89.0	354		Н	30.3	770	132	59.9				05.	40.5		166	75.3
	P60A0250A8	25	19		76.8	22110	84.0	85.5	86.5	25520	84.0	87.5	445		Н	32.8	834	144	65.3	48	1219	10	254	13.5	343	180	81.6
	P60A0300A8	30	22		91.7	26420	84.5	86.0	103.3	30450	84.5	87.5	530		Н	35.6	904	165	74.8							207	93.9
	P60A0050A3	5	3.7		14.4	4830	77.5	86.5	16.1	5490	78.5	88.0	87		Н	23.0	583	87	39.5							115	52.2
	P60A0075A3	7.5	5.5		21.5	7000	80.0	87.5	24.1	8070	80.0	88.5	127		Н	24.3	618	97	44.0	32	813	10	254	13.5	343	127	57.6
	P60A0100A3	10	7.5		28.0	9090	82.5	86.5	31.5	10400	82.5	88.0	164		Н	25.6	650	104	47.2							134	60.8
	P60A0150A3	15	11	230	40.9	13440	83.5	87.0	46.3	15460	83.5	88.5	237	3600	Н	28.1	713	117	53.1							151	68.5
	P60A0200A3	20	15		53.2	17850	83.0	87.5	60.8	20630	83.0	89.0	312		G	30.3	770	132	59.9	48	1210	10	25/	13.5	2/2	166	75.3
	P60A0250A3	25	19		66.7	22110	84.0	85.5	76.0	25520	84.0	87.5	387		G	32.8	834	144	65.3	40	1219	10	204	13.3	343	180	81.6
	P60A0300A3	30	22		79.3	26420	84.5	86.0	90.2	30450	84.5	87.5	458		G	35.6	904	165	74.8							207	93.9
	P60A0050A4	5	3.7		7.0	4830	77.5	86.5	8.0	5490	78.5	88.0	44		Н	23.0	583	87	39.5							115	52.2
3	P60A0075A4	7.5	5.5		10.0	7000	80.0	87.5	11.3	8070	80.0	88.5	62		Н	24.3	618	97	44.0	32	813	10	254	13.5	343	127	57.6
	P60A0100A4	10	7.5		13.1	9090	82.5	86.5	14.8	10400	82.5	88.0	82		Н	25.6	650	104	47.2							134	60.8
	P60A0150A4	15	11		20.4	13440	83.5	87.0	23.0	15460	83.5	88.5	117		G	28.1	713	117	53.1							151	68.5
	P60A0200A4	20	15	460	25.8	17850	83.0	87.5	29.4	20630	83.0	89.0	151		G	30.3	770	132	59.9	48	1219	10	25.4	13.5	3/3	166	75.3
	P60A0250A4	25	19		32.8	22110	84.0	85.5	36.8	25520	84.0	87.5	187		G	32.8	834	144	65.3	40	1217	10	204	13.3	343	180	81.6
	P60A0300A4	30	22		39.3	26420	84.5	86.0	44.6	30450	84.5	87.5	226		G	35.6	904	165	74.8							207	93.9
	P60A0400A4	40	30		51.3	35030	85.0	87.5	58.6	40500	85.0	89.0	302	6750	G	39.3	999	187	84.8	64	1626	10	254	13.5	3/3	229	103.9
	P60A0500A4	50	37		65.8	44350	84.0	87.0	75.1	51200	84.0	88.0	385	0/30	G	54.1	1374	265	120.2	04	1020	10	204	13.3	J4J	319	144.7
	P60A0050A5	5	3.7		5.8	4830	77.5	86.5	6.5	5490	78.5	88.0	35		Н	23.0	584	87	39.5							115	52.2
	P60A0075A5	7.5	5.5		8.2	7000	80.0	87.5	9.3	8070	80.0	88.5	51		Н	24.3	617	97	44.0	32	813	10	254	13.5	343	127	57.6
	P60A0100A5	10	7.5		10.5	9090	82.5	86.5	11.8	10400	82.5	88.0	61		G	25.6	650	104	47.2					\bigsqcup		134	60.8
	P60A0150A5	15	11	575	15.0	13440	83.5	87.0	17.1	15460	83.5	88.5	88	3600	G	28.1	714	117	53.1							151	68.5
	P60A0200A5	20	15	3/3	20.9	17850	83.0	87.5	23.7	20630	83.0	89.0	122		G	30.3	770	132	59.9	48	1710	10	25/	13.5	3/.2	166	75.3
	P60A0250A5	25	19		26.2	22110	84.0	85.5	29.7	25520	84.0	87.5	153		G	32.8	833	144	65.3	40	1417	10	204	10.0	040	180	81.6
	P60A0300A5	30	22		31.0	26420	84.5	86.0	35.0	30450	84.5	87.5	179		G	35.6	904	165	74.8							207	93.9
	P60A0400A5	40	30		41.5	35030	85.0	87.5	47.3	40500	85.0	89.0	247	6750	G	39.3	998	187	84.8	64	1626	10	254	13.5	343	229	103.9

Note:Pentek XE-6 single phase motors must use the corresponding Pentek control box. Use of any other control box will void the warranty.

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Pentek® XE-6 Controls

For Pentek XE-6 Single Phase Motors







14 ga steel enclosure with polyester powder-coated paint

 Heavy-duty construction, high durability and corrosion-resistance

Continuous hinge door

- Easy access no need to remove during installation or service
- Opens past 180° for easy access

Integral mounting flange

 Easy to wall-mount while maintaining NEMA 4 rating

Multiple knockout (embossed) options

- 2 dual 1/2" 3/4"
- 2 dual 3/4" 1"
- 2 dual 1-1/4" 1- 1/2"

Seamless, foamed-in-place door gasket

 Excellent protection against intrusion from dirt, dust, rain, sleet, snow or wind-directed water

Bonding provision on door

• When required by code

NEMA 4 rated enclosure (compare to competition at only NEMA 3)

IP66 Ingress Protection rating

Opens with two quarter-turn latches

No risk of lost door fasteners, no tools needed

Locking Hasp

Added security

Size - 16" x 14"

- Generous size allows for more room to work inside the box
- Easier conduit attachment, wire pulling, and wire connections

Terminals accept up to 4AWG wire Magnetic line contactors

• Included standard on each box

Removable back panel

- All electric components mounted on panel
- Easy installation and servicing, when downtime is critical

Pentek Single Phase Control Boxes For Pentek XE-6 Single Phase Motors 60Hz • 2 POLE

ORDER	ING INFORMATIO	N												
						CONT	ROL BOX	DIMENS	IONS					
					HEI	GHT	WII	OTH	DE	PTH				
PHASE	MODEL #	HP	KW	VOLTS	IN	MM	IN	MM	IN	MM	LBS	KG		
	PTKX-5SCB	5	3.70										30	13.6
1	PTKX-7SCB	7.5	5.60	220	1/0	356	12.0	304.8	6.0	152.4	32	14.5		
'	PTKX-10SCB	10	7.50	230 14.0	330	12.0	304.0	0.0	132.4	33.2	15.1			
	PTKX-15SCB	15	11.20								33.2	15.1		

FAST SHIPPING

Available same day from the following Pentair locations:

Fresno, CA; Grand Island, NE; Delavan, WI; Jacksonville, FL; Lubbock, TX

Motors not stocked at your nearest facility will be drop shipped from another stocking location

PRE-PAID FREIGHT

Pre-paid freight to distributor location on one or more motors.

If motor order is combined with other Pentair products, standard pre-paid freight terms apply.

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WARRANTY

12 months from Date of Installation / 24 months from Date of Manufacture

For members of the Pro Dealer program, warranty is 24 months from Date of Installation / 36 months from Date of Manufacture

Note

Pentek XE-6 single phase motors must use the corresponding Pentek control box. Use of any other control box will void the warranty.

CB12129WS

Hitachi 6" Submersible Motors



Hitachi Motors are designed and manufactured to provide long service life and trouble-free 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 (10° 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, deep water well applications.

SPECIFICATIONS

Motor Sleeve: Stainless steel construction

Castings: Baked epoxy-coated gray

cast iron

Fasteners: Stainless steel

Shaft: NEMA splined stainless steel

Flange: NEMA standard type **Rotor:** Double epoxy-coated

Thrust Bearings: Kingsbury-type 420

stainless steel

Double Lip Seals: Nitrile rubber (NBR), sand-resistant, grease-packed for harsh,

sandy well conditions

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

Carbon Bearings: Two water-lubricated carbon bearings, for extra alignment support, serve as a steady bushing for the motor.

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 (5HP – 30HP, 230V or 460V, 3-phase motors).

VFD-Compatible

Hitachi Control Box – Single Phase, 230V (Required for Hitachi 10 motors)

Type 1 NEMA Enclosure

In-Panel Circuit Breaker

Magnetic Contactor

Terminal Blocks for External Controls

UL Recognized

Hitachi single phase motors must used a Hitachi control box. Use of any other control box will void the warranty.





Hitachi submersible motors in this brochure are produced at the factory registered under the ISO 14001 standard for environmental management system and the ISO 9001 standard for motor quality management system.

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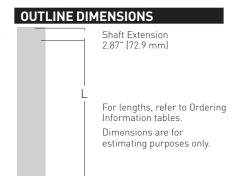
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Hitachi® 6" Submersible Motors

OF	RDER	ING IN	ORI	MATION											
				SERVICE	CATALOG	RATED INPUT	SERVICE FACTOR INPUT	WINDING RESISTANCE	THRUST	l .	GTH L)		ETER D)	WEI	GHT
HP	KW	VOLTS	PH	FACTOR	NUMBER	AMPS	AMPS	(OHMS)	CAPACITY	IN.	MM	IN.	MM	LBS.	KG
6" [MAIC	ETER 6	O HZ												
5	3.7	200	3	1.15	6HIT2-5-8	17.5	19.5	RTF	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	RTF	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	RTF	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	RTF	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	RTF	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	RTF	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	RTF	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" [MAIC	ETER 6	0 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.

Hitachi single phase motors must use a Hitachi control box. Use of any other control box will void the warranty.



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ORD	ERING	INFOR	OITAM	N						
HP KW VOLTS PH 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						

CB2199WS

^{*8&}quot; motor with 6" pump connection

SJH Series

Self-priming shallow well jet pumps, stainless steel body



SJH models provide excellent performance with good pressure for wells to 25' deep. Self-priming after the priming chamber has been filled with water.

APPLICATIONS

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

SPECIFICATIONS

Maximum Liquid Temperature Limits: 122°F [50°C]

Max. Inlet Pressure: 50 PSI

Average Priming Time at 20 Feet:

07SJH11C = 5.3 min. 10SJH11C = 4.2 min.

Body: 304 Stainless steel

Jet Assembly, Diffuser, Impeller:

Noryl®

Shaft: One-piece threaded, 416 grade

stainless steel

Base: Polypropylene

FEATURES

Corrosion Free: Stainless steel pump body provides maximum resistance to corrosion.

Built-in Jet: High-strength thermoplastic components are corrosion resistant.

Mechanical Shaft Seal: Highly polished carbon-ceramic and stainless steel construction.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants... assure prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency, dynamically balanced.

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

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

Dustproof Cover: All electrical components are protected from dirt, dust and insects by a dustproof canopy; ventilating air cannot contaminate vital switching components.

Pressure Switch: Quality, fixed differential (20 PSI).

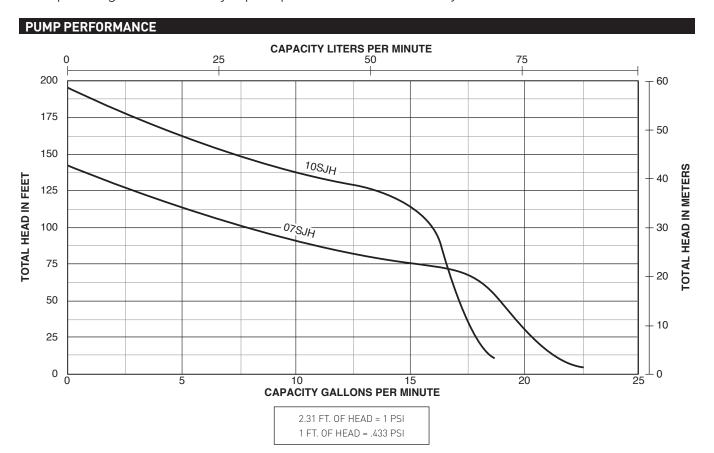
ORDER	ING IN	NFORMA	TION				
CATALOG		SWITCH		PIPE TAPP	IPNG SIZES	MOTOR	APPROX.
NUMBER	HP	SETTING	DESCRIPTION	SUCTION	DISCHARGE	VOLTAGE	WT. LBS.
07SJH11C	3/4	30-50	Shallow Well Jet	1-1/4"	1"	115/230	26
10SJH11C	1	40-60	Shallow Well Jet	1-1/4"	1"	115/230	29

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SJH Series

Self-priming shallow well jet pumps, stainless steel body



PUMP PERF	PUMP PERFORMANCE (Capacity in gallons per minute)													
CATALOG	HP	DISCH.			DEPTH TO WATER			SHUT-OFF						
NUMBER	пР	PRESSURE PSI	5'	10'	15'	20'	25'	PRESSURE PSI						
		30	15.0	13.5	11.9	10.4	9.1							
07SJH	3/4	40	8.3	7.1	6.1	5.2	4.3	64						
		50	3.7	2.9	1.9	1.0	0.2							
		40	16.2	14.6	12.6	10.6	7.5							
10SJH	1	50	15.4	14.3	12.3	10.3	7.3	80						
		60	9.5	9.5	9.5	9.5	7.1							

Tested and rated in accordance with Water Systems Council Standards.

NOTE: CJ90E uses 30-50 PSI pressure switch; CJ90F uses 40-60 PSI pressure switch.

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 must be capable of relieving entire flow of pump at relief pressure.

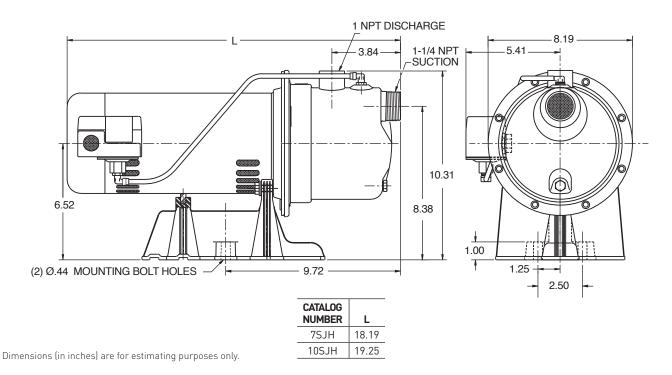
98

CB5185WS

SJH Series

Self-priming shallow well jet pumps, stainless steel body

OUTLINE DIMENSIONS

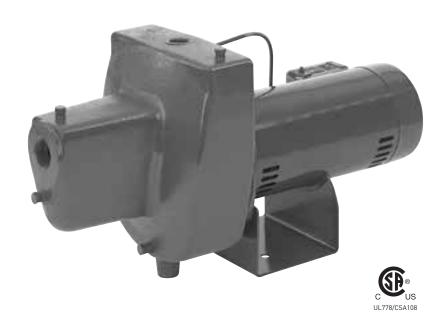


99

CB5185WS

ProJet[™] HN Series

Cast iron, self-priming shallow well jet pumps



The ProJet HN models provide excellent performance with good pressure for wells to 25' deep. Self-priming after the priming chamber has been filled with water.

APPLICATIONS

Water systems and sprinkling...

for homes, farms and cottages.

SPECIFICATIONS

Max. Liquid Temperature: 140°F
Max. Inlet Pressure: 50 PSI

Average Priming Time (in minutes) at 15 Feet:

5HN = 1.7; 7HN = 1.1; 10HN = 1.3

Average Priming Time (in minutes) at 25 Feet:

5HN = 4.4; 7HN = 4.4; 10HN = 2.6

Body: Close-grained cast iron **Nozzle:** High-strength Lexan®

Venturi: Lexan® Impeller: Noryl®

Diffuser: Reinforced polypropylene

Shaft: One-piece threaded, 416 grade

stainless steel

Base: Steel, 12 gauge

ORDERING INFORMATION PIPE TAPPIPNG SIZES APPROX. **CATALOG SWITCH MOTOR NUMBER** HP **SETTING** DESCRIPTION SUCTION DISCHARGE **VOLTAGE** WT. LBS. 5HN 1/2 30-50 Shallow Well Jet 1-1/4" 115/230 47 1" 1-1/4" 1" 7HN 3/4 30-50 Shallow Well Jet 115/230 65 10HN 30-50 Shallow Well Jet 1-1/4" 1" 115/230 70

FEATURES

Quality Construction: Close-grained cast iron body, specially treated for corrosion resistance. Drain port provided for easy winterizing.

Built-in Jet: High-strength Lexan nozzle and venturi for maximum resistance to corrosion and abrasion. Cleanout plug provided for ease of service.

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

Precision-Molded Diffuser: Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

Mechanical Shaft Seal: Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design quarantees continuous water lubrication.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assure prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency, dynamically balanced.

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

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

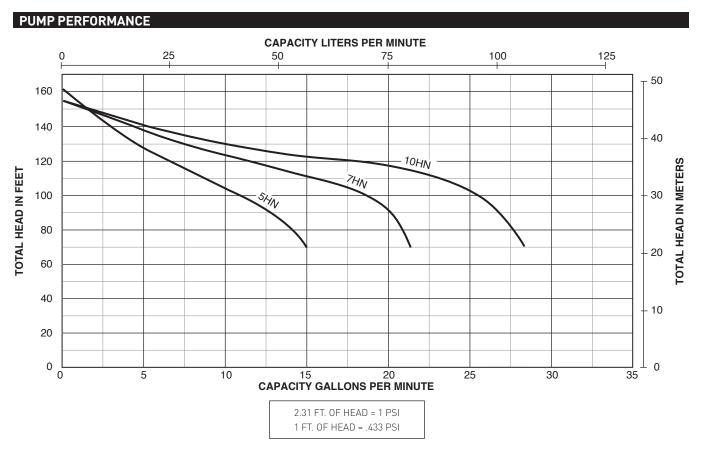
Pressure Switch: Professional quality, allows cut-in and differential adjustments.

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100 CB5135WS

ProJet[™] HN Series

Cast iron, self-priming shallow well jet pumps



PUMP PERF	PUMP PERFORMANCE (Capacity in gallons per minute)									
CATALOG		DISCH. PRESSURE PSI		SHUT-OFF						
NUMBER	HP		5'	10'	15'	20'	25'	PRESSURE PSI		
		30	15.0	13.0	11.6	8.7	6.9	70		
5HN	1/2	40	12.5	11.4	10.1	8.2	6.8			
		50	8.0	6.8	6.1	4.8	3.5			
	3/4	30	21.4	19.1	16.5	13.3	9.5	67		
7HN		40	20.8	18.7	15.8	13.2	9.3			
		50	13.5	11.6	10.1	7.4	2.4]		
	1		30	28.5	25.0	21.4	17.4	12.6		
10HN		40	28.3	24.4	21.0	17.2	12.3	67		
		50	21.5	18.3	10.9	3.1	1.6			

Pump 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.

101

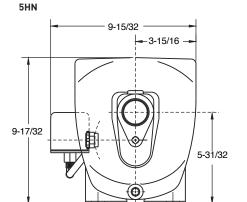
CB5135WS

ProJet[™] **HN Series**

Cast iron, self-priming shallow well jet pumps

OUTLINE DIMENSIONS

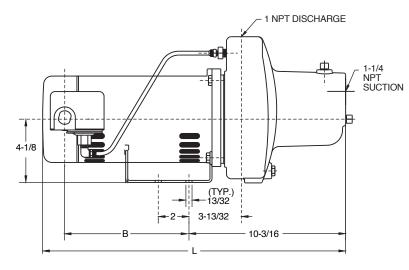
CATALOG NUMBER	L	В
5HN	18.7	7.1
7HN	21.3	7.0
10HN	22.4	8.0



4-7/8 -

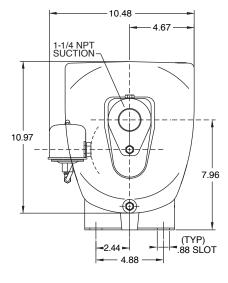
(TYP.)

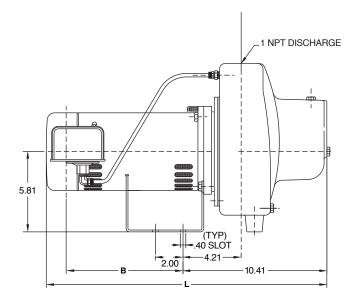
7/8 SLOT



7HN and 10HN

2-7/16





Dimensions (in inches) are for estimating purposes only.

102 CB5135WS

ProJet[™] SN Series

Cast iron, self-priming shallow well jet pumps



The ProJet SN Series Pumps provide excellent performance with good pressure for wells to 25' deep. Self-priming after the priming chamber has been filled with water.

APPLICATIONS

Water systems and sprinkling...

for homes, farms and cottages.

SPECIFICATIONS

Max. Liquid Temperature: 140°F

Max. Inlet Pressure: 50 PSI

Average Priming Time (in minutes) at 15 Feet:

5SN = 2.3; 7SN = 1.7 10SN = 1.3; 15SN = 1.1

Average Priming Time (in minutes) at 25 Feet:

5SN = 6.4; 7SN = 4.4 10SN = 4.4; 15SN = 2.6

Body: Close-grained cast iron **Nozzle:** High-strength Lexan®

Venturi: Lexan Impeller: Noryl®

Diffuser: Reinforced polypropylene **Shaft:** One-piece threaded, 416 grade

stainless steel

Base: Steel, 12 gauge

ORDERING INFORMATION PIPE TAPPIPNG SIZES **CATALOG SWITCH MOTOR** APPROX. NUMBER HP **SETTING** DESCRIPTION SUCTION DISCHARGE WT. LBS. **VOLTAGE** 5SN 1/2 30-50 Shallow Well Jet 1-1/4" 115/230 1" 45 30-50 7SN 3/4 Shallow Well Jet 1-1/4" 115/230 47 Shallow Well Jet 1-1/4" 1" 115/230 55 10SN 1 30-50 15SN 1-1/2 30-50 Shallow Well Jet 1-1/4" 115/230 60

FEATURES

Quality Construction: Close-grained cast iron body. Drain port provided for easy winterizing.

Built-in Jet: High-strength Lexan nozzle and venturi for maximum resistance to corrosion and abrasion. Cleanout plug provided for ease of service.

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

Precision-Molded Diffuser:

Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

Mechanical Shaft Seal: Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assure prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency, dynamically balanced.

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

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

Dustproof Cover: All electrical components are protected from dirt, dust and insects by a dustproof canopy; ventilating air cannot contaminate vital switching components.

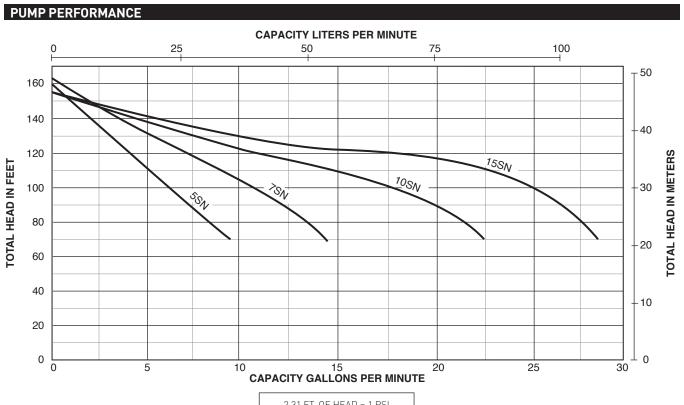
Pressure Switch: Professional quality, allows cut-in adjustments.

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103 CB5134WS

ProJet[™] SN Series

Cast iron, self-priming shallow well jet pumps



2.31 FT. OF HEAD = 1 PSI 1 FT. OF HEAD = .433 PSI

PUMP PERFORMANCE (Capacity in gallons per minute)								
CATALOG		DISCH.		SHUT-OFF				
NUMBER	HP	PRESSURE PSI	5'	10'	15'	20'	25'	PRESSURE PSI
		30	9.7	8.3	7.4	5.9	4.3	70
5SN	1/2	40	7.9	7.2	6.4	5.6	4.1	
		50	4.5	3.8	3.1	2.7	1.8	
	3/4	30	15.0	13.0	11.6	8.7	6.9	70
7SN		40	12.5	11.4	10.1	8.2	6.8	
		50	8.0	6.8	6.1	4.8	3.5	
	1	30	21.4	19.1	16.5	13.3	9.5	67
10SN		40	20.8	18.7	15.8	13.2	9.3	
		50	13.5	11.6	10.1	7.4	2.4	
15SN	1-1/2	30	28.5	25.0	21.4	17.4	12.6	
		1-1/2 40	28.3	24.4	21.0	17.2	12.3	67
		50	21.5	18.3	10.9	3.1	1.6	

Pump 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.

104 CB5134WS

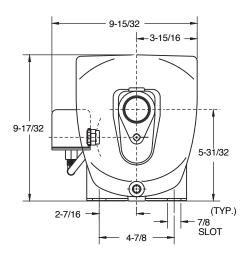
ProJet[™] SN Series

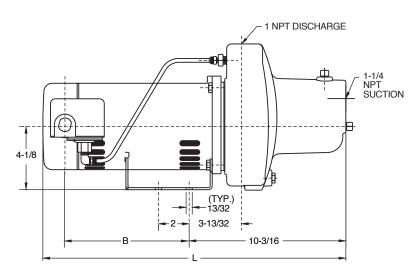
Cast iron, self-priming shallow well jet pumps

OUTLINE DIMENSIONS

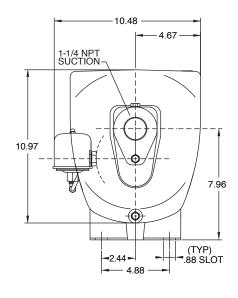
CATALOG NUMBER	L	В
5SN	18.7	7.1
7SN	18.7	7.1
10SN	21.3	7.0
15SN	22.4	8.0

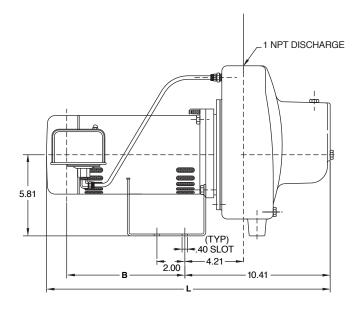
5SN and 7SN





10SN and 15SN





Dimensions (in inches) are for estimating purposes only.

105 CB5134WS

FN Series

Cast iron, self-priming shallow well jet pumps



The FN Series provides strong performance with good pressure for wells to 25' deep. Self-priming after the priming chamber has been filled with water.

APPLICATIONS

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

SPECIFICATIONS

5FN Priming Time (in minutes):

at 15': 2.25 minutes max. at 25': 6.5 minutes max.

7FN Priming Time (in minutes):

at 15': 1.7 minutes max. at 25': 4.4 minutes max.

Max. Liquid Temperature: 140°F 5FN Max. Inlet Pressure: 60 PSI 7FN Max. Inlet Pressure: 50 PSI

Max. Inlet PSI + Pump Discharge PSI: Not to exceed 100 PSI

Body and Base: Close-grained cast iron **Nozzle:** High-strength polycarbonate

Venturi: Polycarbonate **Impeller:** Noryl®

Diffuser: Reinforced polypropylene **Shaft:** One-piece threaded stainless steel

FEATURES

Quality Construction: Close-grained cast iron body and base, specially treated for corrosion resistance. Drain port provided for easy winterizing.

Built-in Jet: High-strength polycarbonate nozzle and venturi for maximum resistance to corrosion and abrasion. Cleanout plug provided for ease of service.

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

Precision-Molded Diffuser: Pump primes faster, handles more air, with multiport, precision-molded, reinforced polypropylene diffuser.

Mechanical Shaft Seal: Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design quarantees continuous water lubrication.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assure prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency, dynamically balanced.

Heavy-Duty Ball Bearings: Sealed, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

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

Dustproof Cover: All electrical components are protected from dirt, dust and insects by a dustproof canopy; ventilating air cannot contaminate vital switching components.

Pressure Switch: Adjustable cut-in and fixed differential (20 PSI).

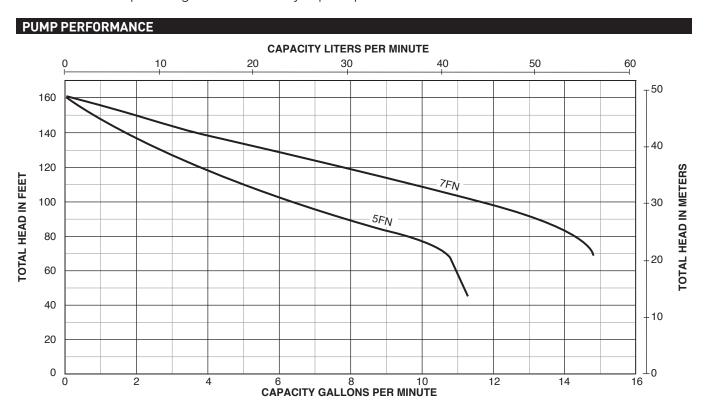
ORDERING INFORMATION									
CATALOG SWITCH				PIPE TAPP	IPNG SIZES	MOTOR	APPROX.		
NUMBER	HP	SETTING	DESCRIPTION	SUCTION	DISCHARGE	VOLTAGE	WT. LBS.		
5FN	1/2	30-50	Shallow Well Jet	1-1/4"	1"	115/230	46		
7FN	3/4	30-50	Shallow Well Jet	1-1/4"	1"	115/230	47		

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106 CB5155WS

FN Series

Cast iron, self-priming shallow well jet pumps



PUMP PERFORMANCE (Capacity in gallons per minute)										
CATALOG NUMBER	HP	DISCH. PRESSURE			SHUT-OFF					
		PSI	FEET HEAD	5'	10'	15'	20'	25'	PRESSURE PSI	
		20	46.2	9.8	8.8	7.5	6.2	4.5	69	
5FN	1/2	30	69.3	9.2	8.2	7.2	5.9	4.2		
		40	92.4	6.9	6.0	5.3	4.5	4.0		
		50	115.5	3.8	3.5	2.7	1.9	1.4		
7FN		30	69.3	15.0	13.0	11.6	8.7	6.9		
	3/4	40	92.4	12.5	11.4	10.1	8.2	6.8	70	
		50	115.5	8.0	6.8	6.1	4.8	3.5]	

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Pump will operate at all depths shown, with pressure switch set at 30-50 PSI.

Tested and rated in accordance with Water Systems Council Standards.

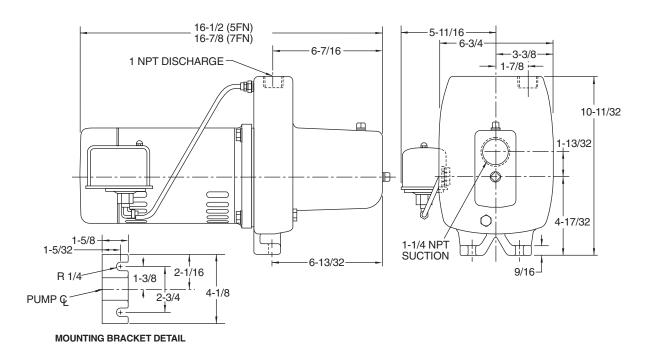
NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve.
Pumps installed with a conventional tank require a 75 PSI relief valve.
Relief valve must be capable of relieving entire flow of pump at relief pressure.

CB5155WS

FN Series

Cast iron, self-priming shallow well jet pumps

OUTLINE DIMENSIONS



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Dimensions (in inches) are for estimating purposes only.

CB5155WS

PN Series

Corrosion-resistant, self-priming shallow well jet pumps





PN 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. 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 Use

Mist Sprayers - Poultry

Fountains and Water Features

SPECIFICATIONS

Body and Seal Plate: Fiberglass-

reinforced thermoplastic

Impeller: Engineered polymer

Base: 12-gauge steel

Nozzle, Venturi, Diffuser: Polypropylene

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 polypropylene nozzle and venturi.

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

Precision-Molded Diffuser:

Polypropylene 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:

Dual voltage motors are shipped at the 230-volt setting.

Professional Quality, Pre-set 30-50 PSI: Allows for cut-in pressure adjustments.

New Nozzle Cleanout: Easy plug removal and access for ease of service.

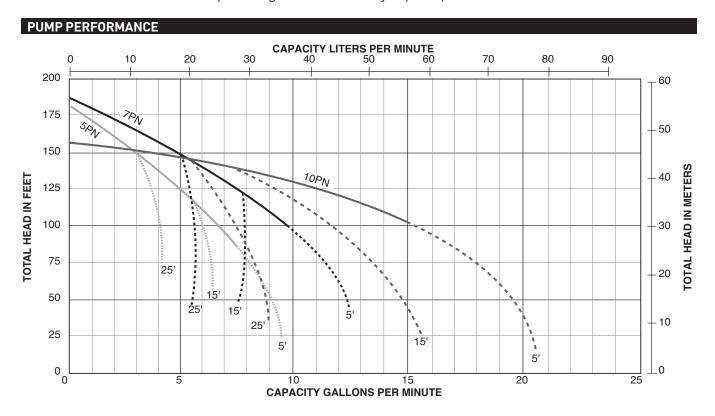
New Drain Plug: Bottom-mounted for easy draining and winterization.

ORDER	ING IN	NFORMATION				
CATALOG			PIPE TAPE	PIPNG SIZES	MOTOR	APPROX. WT.
NUMBER	HP	DESCRIPTION	SUCTION	DISCHARGE	VOLTAGE	LBS./KG
5PN	1/2	Shallow Well Jet	1-1/4"	1"	115/230	21/9.5
7PN	3/4	Shallow Well Jet	1-1/4"	1"	115/230	24/11
10PN	1	Shallow Well Jet	1-1/4"	1"	115/230	26/12

109 CB5624WS

PN Series

Corrosion-resistant, self-priming shallow well jet pumps



CATALOG		DISCH.		DY	NAMIC SUCTION L	IFT		SHUT-OFF
NUMBER	HP	PRESSURE PSI	5'	10'	15'	20'	25'	PRESSURE PS
		30	8.5	7.1	6.5	5.4	4.1	
5PN	1/2	40	7.4	6.4	6.1	5.1	4.0	77
		50	5.2	5.1	4.5	4.1	3.4	
		30	12.1	10.7	9.0	7.6	5.3	
7PN	3/4	40	10.7	10.2	8.5	7.3	5.7	78
		50	8.5	8.4	8.1	7.1	5.1]
		30	18.0	17.1	14.9	12.6	8.8	
10PN	1	40	16.8	16.1	14.4	12.2	8.5	67
		50	13.5	13.4	13.0	12.0	8.1	

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.

110

NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve.

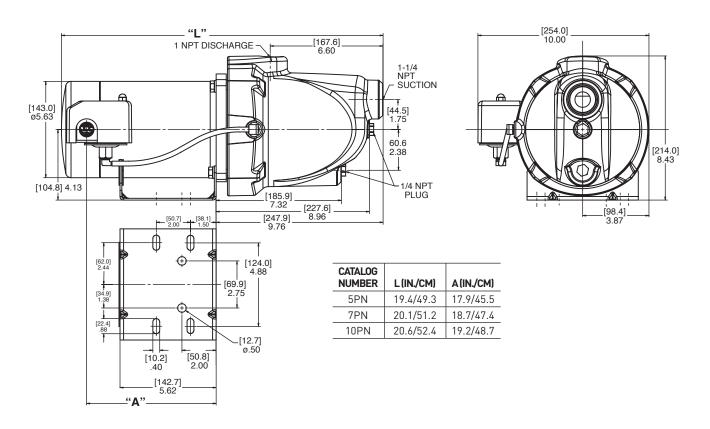
Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

CB5624WS

PN Series

Corrosion-resistant, self-priming shallow well jet pumps

OUTLINE DIMENSIONS

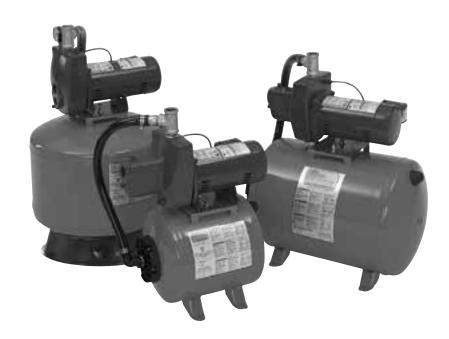


Dimensions (in inches) are for estimating purposes only.

111 CB5624WS

Pro-Source® Jet/Tank Packages

Cast Iron





Pro-Source™ Water System Packages are handy and economical pump/tank packages for the professional contractor. The Pro-Source Water System Packages utilize the ProJet™ cast iron jet pumps and the dependable Pro-Source quality pressurized steel tanks. Plumbing connections are made using galvanized fittings and 3-ply nylon reinforced vinyl tubing with stainless steel hose clamps. Ideal for installations where there is limited space.

APPLICATIONS

Water systems, sprinkling and pressure boosting...for homes, farms and cottages.

SPECIFICATIONS

Max. Liquid Temperature: 120°F [49°C]

Max. Inlet Pressure: 50 PSI

Pump Discharge PSI: Not to exceed

100 PSI

FEATURES

ProJet™ Jet Pumps

Body: Close-grained cast iron

Nozzle: High-strength polycarbonate

Venturi: Polycarbonate **Impeller:** Noryl®

Diffuser: Reinforced polypropylene

Shaft: 416 stainless steel **Base:** Steel, 10 gauge

Pro-Source™ Pressurized Tanks

Shell: Heavy-gauge steel

Base: High-impact composite;

polypropylene

Finish: Baked-on polyester paint
Water Cell: PVC made from FDA

listed material

Flange: Reinforced polypropylene

Connections: Galvanized

Tubing: 3-ply nylon reinforced vinyl with

stainless steel hose clamps

ORDERING	INFOR	RMATION							
JET/TANK CATALOG NUMBER	HP	JET PUMP TYPE	PUMP CAT. NO.	TANK CAT. NO.	TANK STYLE	TANK CAPACITY U.S. GAL.	DRAWDOWN @ 30-50 PSI SWITCH SET.	CONNECTION SIZE FEMALE	APPROX. WT. LBS.
5HNP42	1/2	Shallow Well	5HN	PS19H-S00	Horizontal	19	5.8	1" NPT	95
5SNP42	1/2	Shallow Well	5SN	PS19S-T02	Vertical	19	5.8	1" NPT	120
5SLP42*	1/2	Deep Well	5SL	PS19S-T02	Vertical	19	5.8	1" NPT	127
7SLP42*	3/4	Deep Well	7SL	PS19S-T02	Vertical	19	5.8	1" NPT	130

112

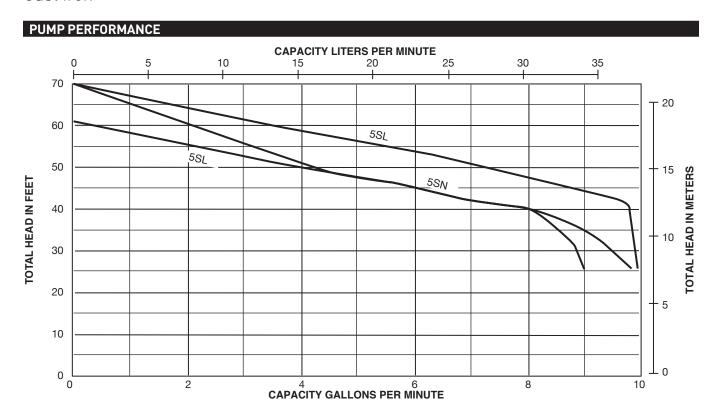
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CB10352WS

^{*}Shallow well/deep well Jet Package included.

Pro-Source® Jet/Tank Packages

Cast Iron



TANK DR			
TANK CATALOG	PRES	SSURE SW SETTING	ІТСН
NUMBER	20-40	30-50	40-60
PS6H-S05	2.2	1.8	1.6
PS19S-T02	6.9	5.8	5.0
PS19H-S00	6.9	5.8	5.0

SHALLOV	V WE	LL PUMP PERI	FORMANC	E (Capacity	in gallons p	er minute)
CATALOG		TOTAL	DISCHAR	GE PRESSU	JRE (PSI)	SHUT-OFF
NUMBER	HP	SUCTION LIFT	30	40	50	PSI
		5'	9.7	7.9	4.5	67
		10'	8.3	7.2	3.8	65
5SN	1/2	15'	7.4	6.4	3.1	62
		20'	5.9	5.6	2.7	60
		25'	4.3	4.1	1.8	58

NOTE: Pump will operate at all depths shown, with pressure switch set at 30–50 PSI. Pumps installed with Pro-Source $^{\circ}$ tank require a 100 PSI relief valve.

PUMP P	ERFO	RMANCE (Ca	pacity in gallons	per minute)							
CATALOG		USE	EJECTOR				W WELL JE				1
NUMBER	HP	VENTURI/	PKG.*	TOTAL			CHARGE P		(PSI)		SHUT-OFF
		NOZZLE		SUCTION LIFT	30)	40	50		60	PSI
		N120 //D		5'	9.0		7.9	4.1		-	61
5SL	1/2	N32P-66B J34P-41	29SD	15'	7.2		6.3	3.3		-	56
		JJ41 -41		25'	4.7	'	4.1	2.1		=	52
	N32P-66B	NOOD //D		5'	9.9		9.8	7.3		3.5	70
7SL	3/4	J34P-41	29SD	15'	7.9)	7.8	5.8		2.8	64
		J34F-41		25'	5.1		5.0	3.8		1.7	59
CATALOG		USE	EJECTOR			DEEP	WELL JET	COMBINA	TIONS		_
NUMBER	HP	VENTURI/	PKG.*	DISCHARGE		DIS	CHARGE F	RESSURE	(PSI)		SHUT-0FF
HOMBER		NOZZLE	i ito.	PRESSURE PSI	30	40	50	60	70	80	MIN. DEPTH
5SI	1/2	J32P-24	4SD	30	7.3	5.8	4.5	3.3	2.3	-	68
JJL	1/2	J34P-41	430	40	4.5	3.4	2.3	-	-	-	
7SL	3/4	J32P-24	4SD	30	8.9	7.3	6.4	5.0	4.0	2.5	75
/ JL	J/4	J34P-41	400	40	6.5	5.1	4.0	3.0	1.8	0.8	

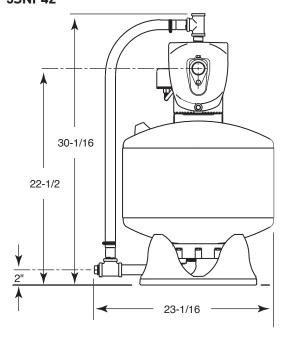
113 CB10352WS

Pro-Source® Jet/Tank Packages

Cast Iron

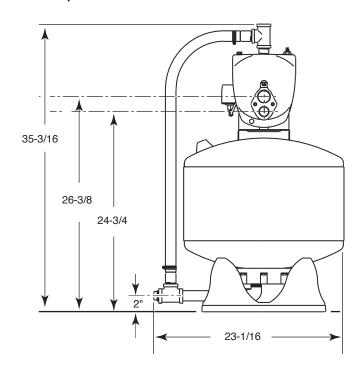
OUTLINE DIMENSIONS: SHALLOW WELL

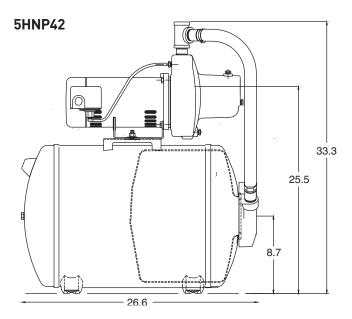
5SNP42



OUTLINE DIMENSIONS: DEEP WELL

5SLP42, 7SLP42





Dimensions (in inches) are for estimating purposes only.

114 CB10352WS

Cast iron, self-priming convertible jet pumps





Pressure Gauge

The ProJet HL convertible jet pumps offer a proven cast iron self-priming design available in 1/2 – 1 HP models. The ProJet HL convertible jets utilize built-in regulators offering easier priming and better range of performance from a complete line of shallow well, 4" double pipe, 2" and 3" single pipe jet packages.

APPLICATIONS

Water systems and sprinkling...

for homes, farms and cottages.

SPECIFICATIONS

Body and Seal Plate: Close-grained

cast iron

Impeller: High-strength Noryl®

Diffuser: Reinforced polypropylene

with brass wear ring

Shaft: One-piece threaded 416

stainless steel

Base: Steel, 12 gauge

Max. Liquid Temperature: 140°F

Max. Inlet Pressure: 50 PSI

Pressure Switch Pre-Set: 30-50 PSI Suction Ports: "Suction-over-Drive"

Pressure Gauge: 0-100 PSI

FEATURES

Quality Construction: Close-grained cast iron pump body is a rugged one-piece unit, specially treated to resist corrosion. Drain port provided for easy winterizing.

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

Precision-Molded Diffuser: Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

Pressure Switch: High quality, cut-in and differential pressure setting are adjustable.

Mechanical Shaft Seal: Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication for maximum protection.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assures prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency...dynamically balanced.

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

Pump and Motor Shaft: 416 stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment.

ORDER	ING IN	NFORMATION					
CATALOG			PIPE	TAPPIPNG S	IZES	MOTOR	APPROX.
NUMBER	HP	DESCRIPTION	SUCTION	DRIVE	DISCHARGE	VOLTAGE	WT. LBS.
5HL	1/2	Deep Well Jet	1-1/4"	1"	1"	115/230	42
7HL	3/4	Deep Well Jet	1-1/4"	1"	1"	115/230	60
10HL	1	Deep Well Jet	1-1/4"	1"	1"	115/230	65

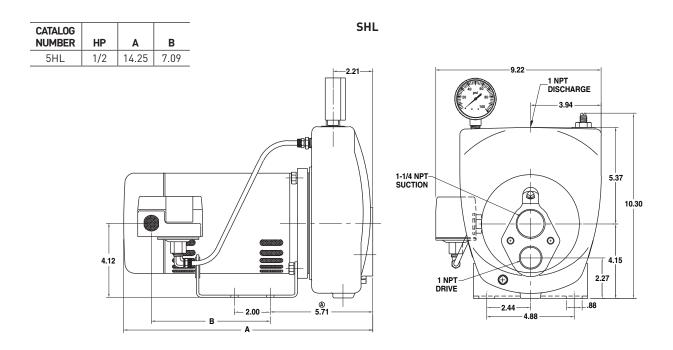
A Jet Package should be ordered with every Series HL Pump.

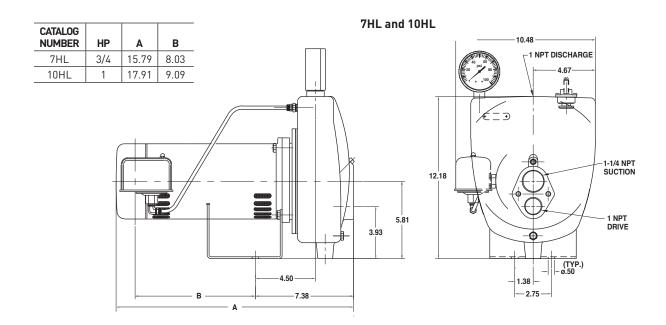
NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving flow of pump at relief pressure.

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Cast iron, self-priming convertible jet pumps

OUTLINE DIMENSIONS





Dimensions (in inches) are for estimating purposes only.

NOTE: 1/4 NPT, 0-100 PSI pressure gauge supplied uninstalled to prevent shipping damage.

Cast iron, self-priming convertible jet pumps

Pl	JMP	PERFORM OW WELL	AN(CE (C	apac 15'	ity in	gallo	ons p	er m	inute	e)	nee	тцс	:													
	IALL		- 5	, 10	, 15	, 20	AN	ט עט	FU	MIF					ц то	WAT	ED II	N EEI	т.								
CAT. NO.	НР	DISCH. PRESS.		5	FT. L	IFT			10	FT. I		ויוויונ			FT. I		LIVII	1		FT. I	IFT			25	FT. I	IFT	
140.		JET PACKAGE	11SD		29SD	CK5		11SD		29SD	CK5		11SD	10SD		CK5		11SD	10SD	29SD	CK5		11SD		29SD		
		Venturi N32P	-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B	
FIII	1/0	Nozzle J43P	-44	-44	-41	-45		-44	-44	-41	-45		-44	-44	-41	-45		-44	-44	-41	-45		-44	-44	-41	-45	
5HL	1/2	20 PSI	20.6	14.4	10.1	6.6		19.0	13.2	9.3	6.1		16.5	11.5	8.1	5.3		13.3	9.5	6.9	4.5		9.8	6.9	5.3	3.4	
		30 PSI	19.6	14.3	9.9	6.5		18.1	13.1	9.1	6.0		15.7	11.4	7.9	5.2		13.3	9.5	6.7	4.4		9.8	6.9	5.1	3.4	
		40 PSI	10.3	12.1	9.8	6.4		9.4	11.2	9.0	5.9		8.2	9.7	7.8	5.1		6.4	8.3	6.6	4.3		3.1	6.3	5.1	3.3	
		50 PSI		4.6 7.3 6.3 4.3 6.7 5.8 3.7 5.8 5.0 2.6 4.9 4.3														1.0	3.8	3.3							
		60 PSI			3.5 5.8 3.2 5.3 2.8 4.6 2.4 3.9 59 70 72 53 57 66 67 50 55 64 65 48 53 61 63																3.0						
		Shut-off-PSI	55	59														46	51	59	61						
		JET PACKAGE	12SD	11SD CK1 CK5 CK1 12SD 11SD CK1 CK5 CK1 12SD 11SD CK1 CK5 CK1 12SD 11SD CK1 CK5 CK1													12SD	11SD	CK1	CK5	CK1						
		Venturi N32P	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-72
		Nozzle J34P	-44	-44	-43	-45	-43	-44	-44	-43	-45	-43	-44	-44	-43	-45	-43	-44	-44	-43	-45	-43	-44	-44	-43	-45	-43
7HL	3/4	20 PSI	24.2		14.5	12.6	8.6	23.2	19.4	13.9	12.1	8.3	20.2	16.9		10.5		17.7	13.6	10.3	8.2	6.1	12.5	10.4	7.9	6.2	4.7
		30 PSI	24.0	20.3	14.4	12.4	8.5	23.0	19.4	13.8	11.8	8.2	20.0	16.9	12.0	10.3		17.7	13.6	10.2	8.0	6.0	12.5	10.4	7.8	6.0	4.6
		40 PSI	16.7	16.4	13.7	12.2	8.3	16.0	15.8	13.1	11.7	7.9	13.9	13.7		10.2	-	16.0	11.5	9.7	7.8	5.9	10.3	8.3	7.4	5.8	4.5
		50 PSI			12.6	12.0	8.2			12.1	11.5	7.8			10.5	10.0	6.8			8.9	7.7	5.8			6.8	5.7	4.4
		60 PSI			6.0	8.2	6.1			5.8	7.8	5.9			5.0	6.8	5.1			4.3	5.8	4.3			3.3	4.8	3.3
		70 PSI				4.2	2.9				4.0	2.8				3.5	2.4				2.8	2.0				2.0	1.6
		Shut-off-PSI	61	62	71	80	82	59	60	69	78	79	57	58	67	76	77	54	55	65	74	75	52	53	63	72	73
		JET PACKAGE	12SD	CK2	60SD			12SD	CK2	60SD			12SD	CK2	60SD			12SD	CK2	60SD			12SD	CK2	60SD		
		Venturi N32P	-65	-64	-64			-65	-64	-64			-65	-64	-64			-65	-64	-64			-65	-64	-64		
		Nozzle J34P	-44	-44	-45			-44	-44	-45			-44	-44	-45			-44	-44	-45			-44	-44	-45		
10HL	1	20 PSI	26.8	21.6	18.4			24.6	19.9	16.9			21.4	17.3	14.7			18.2	14.7	12.5			13.9	11.2	9.6		
		30 PSI	26.5	21.5	18.1			24.4	_	16.7			21.2	17.2	14.5			18.0	14.6	12.3			13.8	11.2	9.4		
		40 PSI	22.9	21.3	17.5			21.0	19.6	16.1			18.3	17.0	14.0			15.6	14.5	11.9			11.9	11.1	9.1		
		50 PSI	15.1	16.8	17.3			13.9	15.4	15.9			12.1	13.4	13.8			10.3	11.4	11.7			7.9	8.7	9.0		
		60 PSI		4.0	15.6				3.7	14.4				3.2	12.5				2.7	10.6				2.1	8.1		
		70 PSI			4.1					3.8					3.3					2.8							
		Shut-off-PSI	61	71	77			59	69	75			57	67	73			55	65	71			53	63	68		

NOTE: Pumps are supplied with 30–50 pressure switch setting. Cut-in/Cut-out pressure settings are adjustable.

Cast iron, self-priming convertible jet pumps

			NCE (Capacity in Inc. NCE Capacity in Inc. NCE NCE		minu	te)											
								PUI	MPIN	G DE	PTH	IN FE	ET				MP SHUT-OFF SSURE PSI
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	20'	30,	40'	50'	60'	70'	80,	90'	100'	110'	120'	JET AT 20 FT. DEPTH	JET AT MAX. DEPTH
		CK3	J32P-26	J34P-41	9.4	8.0	6.6									77	68
5HL	1/2	54SD	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2						94	70
SHL	1/2	CK5	N32P-66B	J34P-45	7.3	6.2	5.0	4.0								83	69
		55SD	J32P-18	J34P-43	5.0	4.3	3.7	3.2	2.6	2.2	1.8	1.5				96	63
		CK1	N32P-72	J34P-43	13.2	10.8	8.4	6.3	4.2							74	56
7HL	3/4	CK2	J32P-24	J34P-44	13.0	11.5	9.9	8.7	7.5	6.6	5.4					105	80
		54SD	J32P-22	J34P-44	8.2	7.7	6.7	6.3	5.8	5.4	4.8	4.0	3.7	3.4	2.7	122	73
10HL	1	54SD	J32P-22	J34P-44	9.5	8.5	7.4	6.9	6.5	6.0	5.4	4.8	4.2	3.6	2.9	127	76

NOTE: Tank body on 10HL pump tapped 1-1/4" x 1". On 10HL pump, drop pipe should be increased to 1-1/2" x 1-1/4" to ensure adequate capacity from pump.

			NCE (Capacity i		minu	te)											
								PUI	MPIN	G DE	PTH	IN FE	ET				MP SHUT-OFF SURE PSI
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	20'	30.	40'	50'	60·	70'	80,	90'	100'	110'	120'	JET AT 20 FT. DEPTH	JET AT MAX. DEPTH
5HL	1/2	54AP	J32P-22	J34P-44	7.4	6.3	5.2	3.9	2.5	2.0						82	54
7 ⊔ 1	2//	10AP	J32P-24	J34P-44	10.5	10.0	8.1	6.2								96	79
/IIL	7HL 3/4	54AP	J32P-22	J34P-44	6.0	5.3	4.8	4.2	4.1	3.7	3.5	2.8	2.1	1.6		95	53
10HL	1	9AP	J32P-29	J34P-44	11.7	11.1	9.8	6.8								69	57
TUNL	ı	8AP	J32P-18	J34P-42	6.7	5.8	5.3	4.7	4.5	4.1	3.8	3.1	2.6	2.0	1.6	129	72
DE	EP W	ELL (40 PS	i) 3" SINGLE	PIPE													
5HL	1/2	9CP	J32P-26	J34P-41	9.4	8.0	6.6									77	68
JHL	1/2	54CP	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2						94	70
		18CP	J32P-24	J34P-44	13.0	11.5	9.9	8.7	7.5	6.6	5.4					106	80
7HL	3/4	54CP	J32P-22	J34P-44	8.5	7.7	6.7	6.3	5.8	5.4	4.8	4.0	3.7	3.4	2.7	122	73
		57CP	J32P-33	P122-108	18.0	15.4	12.8	10.8								81	68
10HL	1	54CP	J32P-22	J34P-44	9.5	8.5	7.4	6.9	6.5	6.0	5.4	4.8	4.2	3.6	2.9	127	76

Tank body on HLE pump tapped $1-1/4" \times 1"$. Drop pipe should be increased to $1-1/2" \times 1-1/4"$ to ensure adequate capacity from pump. 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.

ProJet[™] SL/SLJ Series

Cast iron, self-priming convertible jet pumps





The ProJet SL convertible jet pumps offer a proven cast iron self-priming design available in 1/2 to 1-1/2 HP models. The ProJet SL convertible jets utilize the built-in regulators, offering easier priming and better range of performance from a complete line of shallow well, 4" double pipe, 2" and 3" single pipe jet packages.

APPLICATIONS

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

SPECIFICATIONS

Body and Seal Plate: Close-grained cast iron

Impeller: High-strength Noryl®

Diffuser: Reinforced polypropylene with brass wear ring

brass wear ring

Shaft: One-piece threaded 416

stainless steel

Base: Steel, 12 gauge

Max. Liquid Temperature: 140°F

Max. Inlet Pressure: 50 PSI

Pressure Switch Pre-Set: 30–50 PSI Suction Ports: "Suction-over-Drive"

ORDERING INFORMATION PIPE TAPPIPNG SIZES CATALOG MOTOR APPROX. **NUMBER** HP DESCRIPTION SUCT. DRIVE DISCH. **VOLTAGE** WT. LBS. 5SL/5SLJ* 1/2 Deep Well Jet 1-1/4" 115/230 40 7SL/7SLJ* 3/4 Deep Well Jet 1-1/4" 1" 1" 115/230 42 10SL/10SLJ* Deep Well Jet 1-1/4" 1" 1" 115/230 60 1 Deep Well Jet 1-1/4" 1" 1" 15SL/15SLJ* 1-1/2115/230 65

FEATURES

Quality Construction: Close-grained cast iron pump body is rugged one-piece unit, specially treated to resist corrosion. Drain port provided for easy winterizing.

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

Precision-Molded Diffuser: Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

Pressure Switch: High-quality, cut-in pressure setting is adjustable. Fixed 20 PSI differential.

Mechanical Shaft Seal: Precision-lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication for maximum protection.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assures prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency...dynamically balanced.

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

Pump and Motor Shaft: 416 stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment.

Dustproof Cover: Dustproof canopy protects all electrical components from dirt, dust and insects; ventilating air cannot contaminate vital switching components... eliminates the most common cause of motor failure.

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^{*} SLJ Models include ejector package.

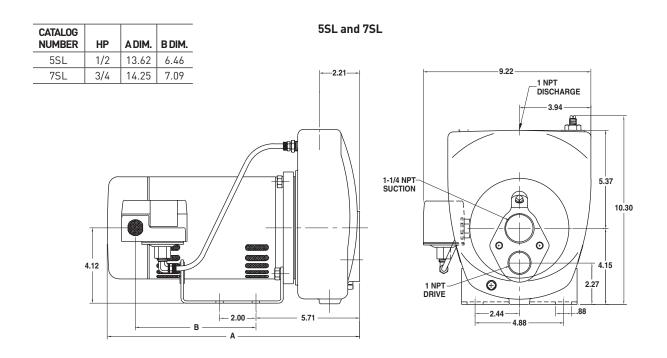
A Jet Package should be ordered with every SL Series Pump.

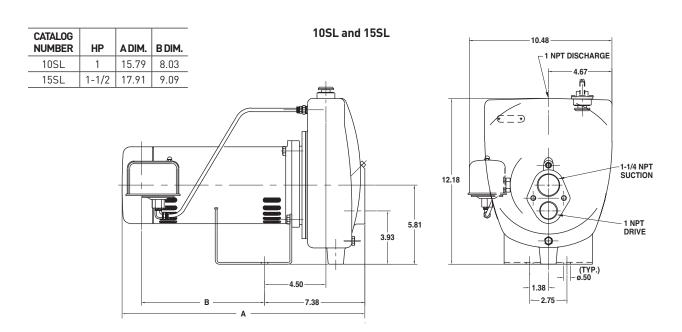
NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving flow of pump at relief pressure.

ProJet[™] **SL/SLJ Series**

Cast iron, self-priming convertible jet pumps

OUTLINE DIMENSIONS





Dimensions (in inches) are for estimating purposes only.

ProJet[™] **SL/SLJ Series**

Cast iron, self-priming convertible jet pumps

		PERFORMA OW WELL -									IC L	EDI	ruc														
CAT.	IALL	DISCH.	- J,	10,	10,	20 /	ANL	25	FUI	YIF III				FPTI	1 TO	WΔTI	FR IN	I FEE	Т								
NO.	НР	PRESS.		5	FT. L	IFT			10	FT. L		1-11 11			FT. L					FT. I	LIFT			25	FT. L	IFT	_
		JET PACKAGE	10SD	29SD	СКЗ			10SD	29SD	СКЗ			10SD	29SD	скз			10SD	29SD	СКЗ			10SD	29SD	СКЗ		
		Venturi N32P	-67B	-66B	-78B			-67B	-66B	-78B			-67B	-66B	-78B			-67B	-66B	-78B			-67B	-66B	-78B		
		Nozzle J34P	-44	-41	-41			-44	-41	-41			-44	-41	-41			-44	-41	-41			-44	-41	-41		
FCI	1/0	20 PSI	12.0	9.1	5.9			9.7	8.4	5.4			12.0	7.3	4.7			9.7	6.2	4.0			6.7	4.7	3.1		
5SL	1/2	30 PSI	10.8	9.0	5.8			9.5	8.3	5.3			10.8	7.2	4.6			9.5	6.1	3.9			6.7	4.7	3.0		
		40 PSI	5.2	7.9	5.6			4.2	7.2	5.2			5.2	6.3	4.5			4.2	5.4	3.8			2.5	4.1	2.9		
		50 PSI		4.1	4.5				3.8	4.1				3.3	3.6				2.8	3.1				2.1	2.3		
		60 PSI			2.4					2.2					1.9					1.6							
		Shut-off-PSI	53	61	70			51	58	66			49	56	64			47	54	61			45	52	58		
		JET PACKAGE	11SD	10SD	29SD	CK5		11SD	10SD	29SD	CK5		11SD	10SD	29SD	CK5		11SD	10SD	29SD	CK5		11SD	10SD	29SD	CK5	
		Venturi N32P	-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B	
		Nozzle J34P	-44	-44	-41	-45		-44	-44	-41	-45		-44	-44	-41	-45		-44	-44	-41	-45		-44	-44	-41	-45	L
		20 PSI	20.6	14.4	10.1	6.6		19.0	13.2	9.3	6.1		16.5	11.5	8.1	5.3		13.3	9.5	6.9	4.5		9.8	6.9	5.3	3.4	L
7SL	3/4	30 PSI	19.6	14.3	9.9	6.5		18.1	13.1	9.1	6.0		15.7	11.4	7.9	5.2		13.3	9.5	6.7	4.4		9.8	6.9	5.1	3.4	L
		40 PSI	10.3	12.1	9.8	6.4		9.4	11.2	9.0	5.9		8.2	9.7	7.8	5.1		6.4	8.3	6.6	4.3		3.1	6.3	5.1	3.3	
		50 PSI		4.6	7.3	6.3			4.3	6.7	5.8			3.7	5.8	5.0			2.6	4.9	4.3			1.0	3.8	3.3	L
		60 PSI			3.5	5.8				3.2	5.3				2.8	4.6				2.4	3.9					3.0	L
		Shut-off-PSI	55	59	70	72		53	57	66	67		50	55	64	65		48	53	61	63		46	51	59	61	
		JET PACKAGE Venturi	12SD	11SD	CK1	CK5	CK1	12SD	11SD	CK1	CK5	CK1	12SD	11SD	CK1	CK5	CK1	12SD	11SD	CK1	CK5	CK1	12SD	11SD	CK1	CK5	CK1
		N32P Nozzle J34P-	-65 -44	-68B -44	-72E -43	-67B -45	-72 -43	-65 -44	-68B -44	-72E -43	-67B -45	-72 -43	-65 -44	-68B -44	-72E -43	-67B 45	-72 -43	-65 -44	-68B -44	-72E -43	-67B -45	-72 -43	-65 -44	-68B -44	-72E -43	-67B -45	-72 -43
		20 PSI	24.2	20.3	14.5	12.6	8.6	23.2	19.4	13.9	12.1	8.3	20.2	16.9	12.1	10.5	7.2	17.7	13.6	10.3	8.2	6.1	12.5	10.4	7.9	6.2	4.7
		30 PSI	24.0	20.3	14.4	12.4	8.5	23.0	19.4	13.8	11.8	8.2	20.0	16.9	12.0	10.3	7.1	17.7	13.6	10.2	8.0	6.0	12.5	10.4	7.8	6.0	4.6
10SL	1	40 PSI	16.7	16.4	13.7	12.2	8.3	16.0	15.8	13.1	11.7	7.9	13.9	13.7	11.4	10.2	6.9	11.8	11.5	9.7	7.8	5.9	10.3	8.3	7.4	5.8	4.5
		50 PSI			12.6	12.0	8.2			12.1	11.5	7.8			10.5	10.0	6.8			8.9	7.7	5.8			6.8	5.7	4.4
		60 PSI			6.0	8.2	6.1			5.8	7.8	5.9			5.0	6.8	5.1			4.3	5.8	4.3			3.3	4.8	3.3
		70 PSI				4.2	2.9				4.0	2.8				3.5	2.4				2.8	2.0				2.0	1.6
		Shut-off-PSI	61	62	71	80	82	59	60	69	78	79	57	58	67	76	77	54	55	65	74	75	52	53	63	72	73
		JET PACKAGE	12SD	CK2	60SD			12SD	CK2	60SD			12SD	CK2	60SD			12SD	CK2	60SD			12SD	CK2	60SD		匚
		Venturi N32P	-65	-64	-64			-65	-64	-64			-65	-64	-64			-65	-64	-64			-65	-64	-64		
		Nozzle J34P	-44	-44	-45			-44	-44	-45			-44	-44	-45			-44	-44	-45			-44	-44	-45		
		20 PSI	26.8	21.6	18.4			24.6	19.9	16.9			21.4	17.3	14.7			18.2	14.7	12.5			13.9	11.2	9.6		
1501	1 1/2	30 PSI	26.5	21.5	18.1			24.4	19.8	16.7			21.2	17.2	14.5			18.0	14.6	12.3			13.8	11.2	9.4		L
15SL	1-1/2	40 PSI	22.9	21.3	17.5			21.0	19.6	16.1			18.3	17.0	14.0			15.6	14.5	11.9			11.9	11.1	9.1		
		50 PSI	15.1	16.8	17.3			13.9	15.4	15.9			12.1	13.4	13.8			10.3	11.4	11.7			7.9	8.7	9.0		
		60 PSI		4.0	15.6				3.7	14.4				3.2	12.5				2.7	10.6				2.1	8.1		
		70 PSI			4.1					3.8					3.3					2.8							
		Shut-off-PSI	61	71	77			59	69	75			57	67	73			55	65	71			53	63	68		

PUMP PERFORMAL	NCE - SLJ MODELS*	:			
Catalog	Ejector Package	Shallo	ow Well	Deep	Well
Number	(Included)	Nozzle	Venturi	Nozzle	Venturi
5SLJ	J198-26	J34P-41	N32P-66B	J34P-42	J32P-18
7SLJ	J198-27	J34P-41	N32P-66B	J34P-43	J32P-18
10SLJ	J198-28	J34P-43	N32P-72E	J34P-44	J32P-22
15SLJ	J198-29	J34P-44	N32P-64	J34P-44	J32P-22

Pumps are supplied with 30–50 pressure switch setting. Cut-in pressure settings are adjustable.

Cast iron, self-priming convertible jet pumps

PU DE	MP PI EP W	ERFORMA ELL (40 PS	NCE (Capacity in Inc. 1) 4" DOUBLE	n gallons per	minut	e)											
								PUM	PING	DEPT	HINF	EET					MP SHUT-OFF SURE PSI
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	20'	30,	40'	50'	60'	70'	80,	90'	100'	110'	120'	JET AT 20 FT. DEPTH	JET AT MAX. DEPTH
5SL	1/2	4SD	J32P-24	J34P-41	5.9	4.5	3.4	2.3								68	54
JJL	1/2	15SD	J32P-18	J34P-42	4.6	3.9	3.3	2.8	2.3	1.7						84	59
		CK3	J32P-26	J34P-41	9.4	8.0	6.6									77	68
7SL	3/4	54SD	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2						94	70
/3L	3/4	CK5	N32P-66B	J34P-45	7.3	6.2	5.0	4.0								83	69
		55SD	J32P-18	J34P-43	5.0	4.3	3.7	3.2	2.6	2.2	1.8	1.5				96	63
		CK1	N32P-72	J34P-43	13.2	10.8	8.4	6.3	4.2							74	56
10SL	1	CK2	J32P-24	J34P-44	13.0	11.5	9.9	8.7	7.5	6.6	5.4					105	80
		54SD	J32P-22	J34P-44	8.5	7.7	6.7	6.3	5.8	5.4	4.8	4.0	3.7	3.4	2.7	122	73
15SL	1-1/2	54SD	J32P-22	J34P-44	9.5	8.5	7.4	6.9	6.5	6.0	5.5	4.8	4.2	3.6	2.9	127	76

Tank body on SLF pump tapped 1-1/4" x 1". On SLF pump, drop pipe should be increased to 1-1/2" x 1-1/4" to ensure adequate capacity from pump.

PU DE	MP PI EP WI	ERFORMA ELL (40 PS	NCE (Capacity in SINGLE	n gallons per PIPE	minut	e)											
								PUM	PING	DEPT	HINE	EET					MP SHUT-OFF SURE PSI
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	JET AT 20 FT. DEPTH	JET AT MAX. DEPTH
5SL	1/2	8AP	J32P-18	J34P-42	4.7	4.1	3.4	2.5	1.9	1.5						84	58
7SL	3/4	54AP	J32P-22	J34P-44	7.4	6.3	5.2	3.9	2.5	2.0						82	54
10SL	1	10AP	J32P-24	J34P-44	10.5	10.0	8.1	6.2								96	79
105L	' [54AP	J32P-22	J34P-44	6.0	5.3	4.8	4.2	4.1	3.7	3.5	2.8	2.1	1.6		95	53
1501	1 1/0	9AP	J32P-29	J34P-44	11.7	11.1	9.8	6.8								69	57
155L	1-1/2	8AP	J32P-18	J34P-42	6.7	5.8	5.3	4.7	4.5	4.1	3.8	3.1	2.6	2.0	1.6	129	72
DEE	P WE	LL (40 PSI) 3" SINGLE P	IPE													
		19CP	J32P-24	J34P-41	5.9	4.5	3.4	2.3								68	54
5SL	1/2	16CP	J32P-18	J34P-42	4.6	3.9	3.3	2.8	2.3	1.7						84	59
		9CP	J32P-26	J34P-41	9.4	8.0	6.6									77	68
7SL	3/4	54CP	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2						94	70
		18CP	J32P-24	J34P-44	13.0	11.5	9.9	8.7	7.5	6.6	5.4					106	80
10SL	1	54CP	J32P-22	J34P-44	8.5	7.7	6.7	6.3	5.8	5.4	4.8	4.0	3.7	3.4	2.7	122	73
		57CP	J32P-33	P122-10B	18.0	15.4	12.8	10.8								81	68
15SL	1-1/2	54CP	J32P-22	J34P-44	9.5	8.5	7.4	6.9	6.5	6.0	5.4	4.8	4.2	3.6	2.9	127	76

Tank body on SLF pump tapped $1-1/4" \times 1"$. Drop pipe should be increased to $1-1/2" \times 1-1/4"$ to ensure adequate capacity from pump. 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.

FL/FLJ Series

Cast iron, self-priming convertible jet pumps





FL Series Pumps feature a proven selfpriming "convertible" design. The same convertible jet can be attached to pump for use on shallow well installation, or be utilized in 4" or larger wells for use as a double pipe deep well jet.

FL Series Pumps provide high capacities up to 11 GPM...depths to 90 feet. They are rated for 30–50 PSI operation.

APPLICATIONS

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

SPECIFICATIONS

Body and Base: Close-grained cast iron

Impeller: Lexan®

Diffuser: Reinforced polypropylene

Shaft: One-piece threaded 416

stainless stee

Pressure Switch Pre-Set: 30–50 PSI

115/230

45

Suction Ports: Drive-over-Suction

ORDERING INFORMATION PIPE TAPPIPNG SIZES MOTOR APPROX. CATALOG **NUMBER** HP DESCRIPTION SUCT. **DRIVE** DISCH. **VOLTAGE** WT. LBS. 5FL/5FLJ* 1/2 Deep Well Jet 1-1/4" 115/230 44

FEATURES

Quality Construction: Close-grained cast iron pump body and base are rugged one-piece unit, specially treated to resist corrosion. Drain port provided for easy winterizing.

Pressure Regulator: Simple, built-in regulator is performance proven. Adjustable for best performance on all deep well installations.

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

Precision-Molded Diffuser: Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

Mechanical Shaft Seal: Precision-lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication for maximum protection.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assures prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency...dynamically balanced.

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

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

Dustproof Cover: Dustproof canopy protects all electrical components from dirt, dust and insects; ventilating air cannot contaminate vital switching components... eliminates the most common cause of motor failure.

3/4

7FL/7FLJ*

Deep Well Jet

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1-1/4"

CB5633WS

^{*}FLJ Models include ejector package.

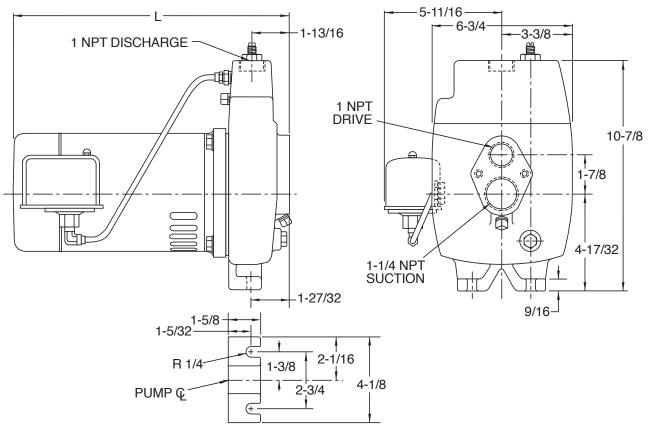
A Jet Package should be ordered with every FL Series Pump.

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 flow of pump at relief pressure.

FL/FLJ Series

Cast iron, self-priming convertible jet pumps

OUTLINE DIMENSIONS



MOUNTING BRACKET DETAIL

CATALOG NUMBER	L
5FL	11-13/16
7FL	12-9/16

Dimensions (in inches) are for estimating purposes only.

PUMP PERFORMA	NCE - FLJ MODELS*				
Catalog	Ejector Package	Shallo	w Well	Deep	Well
Number	(Included)	Nozzle	Venturi	Nozzle	Venturi
5FLJ	J198-26	J34P-41	N32P-66B	J34P-42	J32P-18
7FLJ	J198-27	J34P-41	N32P-66B	J34P-43	J32P-18

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FL/FLJ Series

Cast iron, self-priming convertible jet pumps

Pl	JMP	PERFORMAI	NCE (C	apacity	in gallor	ns per m	ninute)										
SI-	IALL	OW WELL -	5', 10',	, 15', 20	O' AND	25' Pl	JMPIN			РТН ТО	WATER	IN FEE	T				
NO.	НР	PRESSURE	į	5 FT. LIF	T	1	0 FT. LI	FT	1	5 FT. LI	FT	2	0 FT. LI	FT		25 FT. LII	FT
		JET PACKAGE	10SD	29SD		10SD	29SD		10SD	29SD		10SD	29SD		10SD	29SD	
		Venturi N32P	-67B	-66B		-67B	-66B		-67B	-66B		-67B	-66B		-67B	-66B	
		Nozzle J34P	-44	-41		-44	-41		-44	-41		-44	-41		-44	-41	
5FL	1/2	20 PSI	12.0	9.1		9.7	8.4		12.0	7.3		9.7	6.2		6.7	4.7	
		30 PSI	10.8	9.0		9.5	8.3		10.8	7.2		9.5	6.1		6.7	4.7	
		40 PSI	5.2	7.9		4.2	7.2		5.2	6.3		4.2	5.4		2.5	4.1	
		50 PSI		4.1			3.8			3.3			2.8			2.1	
		60 PSI															
		Shut-off-PSI	53	61		51	58		49	56		47	54		45	52	
		JET PACKAGE	11SD	10SD	29SD	11SD	10SD	29SD	11SD	10SD	29SD	11SD	10SD	29SD	11SD	10SD	29SD
		Venturi N32P	-68B	-67B	-66B	-68B	-67B	-66B	-68B	-67B	-66B	-68B	-67B	-66B	-68B	-67B	-66B
		Nozzle J43P	-44	-44	-41	-44	-44	-41	-44	-44	-41	-44	-44	-41	-44	-44	-41
7FL	3/4	20 PSI	20.6	14.4	10.1	19.0	13.2	9.3	16.5	11.5	8.1	13.3	9.5	6.9	9.8	6.9	5.3
		30 PSI	19.6	14.3	9.9	18.1	13.1	9.1	15.7	11.4	7.9	13.3	9.5	6.7	9.8	6.9	5.1
		40 PSI	10.3	12.1	9.8	9.4	11.2	9.0	8.2	9.7	7.8	6.4	8.3	6.6	3.1	6.3	5.1
		50 PSI		4.6	7.3		4.3	6.7		3.7	5.8		2.6	4.9		1.0	3.8
		60 PSI			3.5			3.2			2.8			2.4			
		Shut-off-PSI	55	59	70	53	57	66	50	55	64	48	53	61	46	51	59

NOTE: Pumps are supplied with 30–50 pressure switch setting. Cut-in pressure settings are adjustable.

			CE (Capacity in gal 4" DOUBLE PIF		ite)									
							PUMPI	NG DE	PTH II	N FEE	Г		MAX. PUMP PRESSU	
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	20'	30'	40'	50'	60'	70'	80'	90'	JET AT 20 FT. DEPTH	JET AT MAX. DEPTH
5FL	1/2	4SD	J32P-24	J34P-41	5.9	4.5	3.4	2.3					68	54
SFL	1/2	15SD	J32P-18	J34P-42	4.6	3.9	3.3	2.8	2.3	1.7			84	59
751	2//	54SD	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2			94	70
7FL	3/4	55SD	J32P-18	J34P-43	5.0	4.3	3.7	3.2	2.6	2.2	1.8	1.5	96	63
DEE	P WE	LL (40 PSI)	2" SINGLE PIP	Ε										
5FL	1/2	8AP	J32P-18	J34P-42	4.7	4.1	3.4	2.5	1.9	1.5			84	58
7FL	3/4	54AP	J32P-22	J34P-44	7.4	6.3	5.2	3.9	2.5	2.0			82	54
DEE	P WE	LL (40 PSI)	3" SINGLE PIP	Ξ										
5FL	1/2	19CP	J32P-24	J34P-41	5.9	4.5	3.4	2.3					68	54
JFL	1/2	16CP	J32P-18	J34P-42	4.6	3.9	3.3	2.8	2.3	1.7			84	59
7FL	3/4	9CP	J32P-26	J34P-41	9.4	8.0	6.6						77	68
/rL	3/4	54CP	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2			94	70

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.

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PL Series

Corrosion-resistant, convertible deep well jet pumps





Durability and corrosion resistance are built into every PL 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 troublefree operation.

APPLICATIONS

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

SPECIFICATIONS

Pump Body and Seal Plate: Dura-Glas®

Impeller: Noryl® Nozzle: Noryl Venturi: Noryl O-Ring: Buna-N

Clamp: Stainless steel **Shaft:** Stainless steel

Diffuser: Reinforced polypropylene 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 polypropylene design primes faster and handles more air.

Precision-Molded Impeller: Precision-molded Noryl 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: PL 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.

ORDER	RING II	NFORMATION					
CATALOG			PIPE	TAPPIPNG S	IZES	MOTOR	APPROX.
NUMBER	HP	DESCRIPTION	SUCT.	DRIVE	DISCH.	VOLTAGE	WT. LBS.
5PL	1/2	Deep Well Jet	1-1/4"	1"	1"	115/230	27
7PL	3/4	Deep Well Jet	1-1/4"	1"	1"	115/230	28
10PL	1	Deep Well Jet	1-1/4"	1"	1"	115/230	30
15PL	1-1/2	Deep Well Jet	1-1/4"	1"	1"	115/230	36

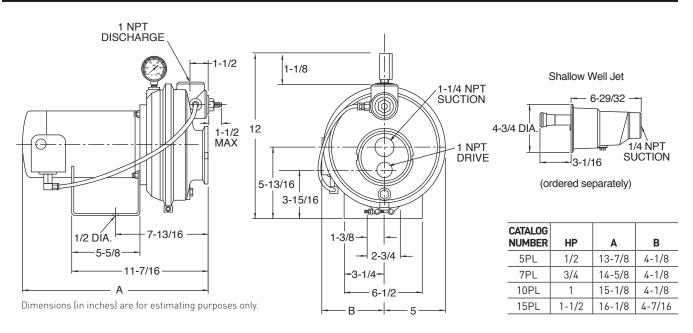
A Jet Package should be ordered with every PL Series pump.
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PL Series

Corrosion-resistant, convertible deep well jet pumps

OUTLINE DIMENSIONS



PUMP P SHALLO			acity in gallons per r	ninute)						
				DYNAMIC		DISCHAR	GE PRES	SURE PSI		
CATALOG NUMBER	НР	S.W. JET NUMBER	PRESS. SWITCH SETTING	SUCTION LIFT FT.	20'	30,	40'	50'	60'	SHUT-OFF PRESSURE PSI
				5'	9.5	9.2	9.0	5.8	3.0	72
				10'	8.2	8.0	7.8	5.2	2.3	70
5PL	1/2	PKG 1 - 21N	30-50	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
				5'	16.2	15.8	15.3	8.7	1.3	62
				10'	14.2	14.0	13.8	7.2		60
7PL	3/4	PKG 1- 22N	30-50	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
				5'	21.3	21.0	20.7	13.2	4.2	62
				10'	18.8	18.7	18.3	11.1	1.7	60
10PL	1	PKG 1- 23N	30–50	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
				5'	26.3	26.2	26.2	21.3	7.7	64
				10'	23.7	23.3	23.2	19.2	3.5	62
15PL	1-1/2	PKG 1- 24N	30-50	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 at 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.

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PL Series

Corrosion-resistant, convertible deep well jet pumps

			CE (Capacity in gallo									
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	30'	40'	50'	60'	70'	80'	90'	100'
- FDI	1/0	4SD	J32P-24	J34P-41	4.5	3.5	2.3	1.3				
5PL	1/2	10SD	N32P-67B	J34P-44	9.5	7.0	4.5	2.0				
7PL	3/4	4SD	J32P-24	J34P-41	6.5	5.1	4.0	3.0	1.8	0.8		
10PL	1	4SD	J32P-24	J34P-41	8.4	7.3	6.2	5.0	4.1	2.9	2.0	1.1
15PL	1-1/2	11SD	N32P-68B	J34P-44	11.5	9.4	8.0	6.5	5.3	3.8	2.5	1.1

			CE (Capacity in gallo 2" SINGLE PIPE												
CAT.	I WE	LL (40 F31)	Z SINGLE FIFE					PU	MPING	DEPTI	H IN FE	ET			
NO.	HP	JET NO.	USES VENTURI	USES NOZZLE	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'
		13AP	J32P-26	J34P-44	5.8	3.8	1.0								
5PL	1/2	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						
		14AP	J32P-32	J34P-45	9.2	6.7	4.3								
7PL	3/4	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			
		15AP	J32P-33	J34P-41	12.3	9.2	5.7								
10PL	1	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		
		16AP	J32P-38	J34P-45	15.3	11.8	8.5	5.2							
15PL	1-1/2	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
DEE	P WE	LL (40 PSI)	3" SINGLE PIPE												
5PL	1/0	25CP	J32P-26	J34P-44	5.8	4.0	2.1								
SPL	1/2	19CP	J32P-24	J34P-41	-	4.5	3.5	2.3	1.3						
7PL	3/4	11CP	J32P-32	J34P-45	9.5	7.0	4.5	2.0							
/PL	3/4	19CP	J32P-24	J34P-41	-	6.5	5.1	4.0	3.0	1.8	0.8				
		26CP	J32P-33	J34P-41	13.0	9.8	6.0								
10PL	1	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		
15PL	1-1/2	10CP	J32P-38	J34P-45	16.6	13.3	9.5	6.0							
131 L	1 1/2	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.

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Cast iron, horizontal multi-stage



C US

LT2 Series Multi-Stage Jet Pumps are the highest performing pumps available in its category. The LT2 Series Convertible Jets utilize the built-in regulator, offering easier priming and better range of performance from a complete line of Shallow Well, 4" Double Pipe, 2" and 3" Single Pipe Jet Packages. Pump may also be operated as a self-priming centrifugal (to 25 ft.) to provide a wide range of high pressure applications.

APPLICATIONS

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

SPECIFICATIONS

Body: One-piece rugged cast iron

Pump and Motor Shaft:

416 stainless steel

Impeller: Polycarbonate

Diffuser: Corrosion-resistant cast iron **Pressure Switch Pre-Set:** 30–50 PSI **Suction Ports:** Drive-over-Suction

ORDERI	NG IN	IFORMATION							
CATALOG	НР	DESCRIPTION			SIZES	STAGES	MOTOR	APPROX.	
NUMBER		DESCRIPTION	SUCT.	DRIVE	DISCH.	SIAOLS	VOLTAGE	WT. LBS.	
7LT2	3/4	Deep Well Jet	1-1/4"	1"	1"	2	115/230	50	
10LT2	1	Deep Well Jet	1-1/4"	1"	1"	2	115/230	80	
15LT2	1-1/2	Deep Well Jet	1-1/4"	1"	1"	2	115/230	85	

AUTOMA	ATIC PRESSURE REGULATOR -	- DEEP WELL	
CATALOG NUMBER	DESCRIPTION	APPLICATION	APPROX. WT. LBS.
PKG 107	Regulator, tubing, pipe plug and compression fitting	Required for ALL deep well installations	4

FEATURES

Automatic Pressure Regulator: Fasteracting and quieter, design eliminates "hunting" for correct drive pressure. New improved stem and guide are precisely molded to assure efficient, trouble-free performance on all deep wells. See ordering information (deep well only).

Quality Construction: Close-grained cast iron pump body is rugged, one-piece unit, specially treated to resist corrosion. Drain port provided for easy winterizing.

Precision-Machined Diffusers:

Assure faster priming.

Mechanical Shaft Seal: Precision-lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication for maximum protection.

Polycarbonate Impellers: Precision-molded for perfect balance, and ultrasmooth for highest performance and efficiency.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants to ensure prolonged motor life.

Dustproof Cover: All electrical components are protected from dirt, dust and insects by a dustproof canopy. Ventilating air cannot contaminate vital switching components. This eliminates the most common cause of motor failure.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency...dynamically balanced.

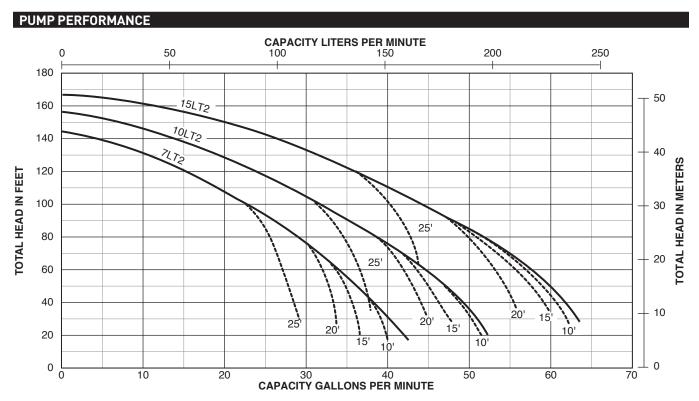
Heavy-Duty Ball Bearings: Shielded, permanently lubricated bearings are extensively tested to ensure extended life and smooth, quiet operation.

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

Order pump and pressure regulator, if required, from ordering information tables above.

A Jet Package and the Automatic Pressure Regulator, described above, are required on all deep well installations.

Cast iron, horizontal multi-stage



NOTE: Dotted lines indicate performance reduction at high suction lift.

	FORMANCE (C GAL APPLICAT		ns per minute)					
CATALOG	НР	TOTAL SUCTION		DISCH	IARGE PRESSU	RE PSI		SHUT-OFF PRESSURE
NUMBER	пР	LIFT FT.	20'	30'	40'	50'	60'	PSI
		5	37	30	24	15		60
		10	35	29	21	13		60
7LT2	3/4	15	33	27	19	9		60
		20	32	26	17	6		60
		25	31	24	15			60
		5	47	40	33	24	10	65
		10	46	38	31	21	7	65
10LT2	1	15	44	36	28	18		65
		20	42	35	26	15		65
		25	41	33	24	12		65
		5	60	53	46	36	23	68
		10	58	52	43	33	21	68
15LT2	1-1/2	15	56	49	41	30	16	68
		20	55	47	39	27	12	68
		25	54	41	36	25		68

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. PKG 107 Regulator, tubing, pipe plug and compression fitting is required for all DEEP WELL installations.

Cast iron, horizontal multi-stage

PUMP PERF	ORMA	NCE: SHALLOV	V WELL							
CATALOG	НР	JET*	USES	USES	DISCH.		TOTAL	SUCTION LI	FT FT.	
NUMBER	пг	NUMBER	VENTURI	NOZZLE	PRESS. PSI	5'	10'	15'	20'	25'
					20	9.6	8.2	7.0	5.8	3.9
					30	9.1	7.9	6.5	5.6	3.9
					40	8.8	7.7	6.3	5.6	3.9
7LT2	3/4	PKG 1 - 29SD	N32P-66B	J34P-41	50	8.5	7.6	6.2	5.6	3.9
/LIZ	3/4	PNG 1 - 275D	N32F-00D	J34F-41	60	7.7	7.3	6.2	5.6	3.9
					70	5.5	5.1	4.7	4.2	3.6
					80	3.5	3.1	2.8	2.3	1.9
					Shut-off	102	96	96	96	90
					20	13.0	11.2	9.8	7.8	5.8
				30	12.5	11.0	9.5	7.6	5.7	
					40	12.2	10.9	9.4	7.6	5.7
10LT2	1	PKG 1 - 10SD	N32P-67B	J34P-44	50	12.1	10.8	9.2	7.6	5.7
TOLIZ	'	11101 1030	14321 076	3341 44	60	12.0	10.8	9.2	7.6	5.7
					70	10.2	9.6	8.6	7.4	5.7
					80	7.4	6.8	6.2	5.5	4.8
					Shut-off	108	108	108	102	102
					20	15.9	13.3	12.2	9.6	7.0
					30	15.6	13.2	12.2	9.5	7.0
					40	15.3	13.1	12.1	9.4	6.9
					50	14.9	13.0	11.9	9.3	6.8
					60	14.4	12.9	11.7	9.2	6.7
15LT2	1-1/2	PKG 1 - 10SD	N32P-67B	J34P-44	70	13.7	12.7	11.5	9.0	6.6
					80	12.6	12.1	10.8	8.7	6.4
					90	9.5	8.5	7.8	7.2	5.7
					100	5.9	5.0	4.4	3.8	3.2
					Shut-off	120	120	114	114	108

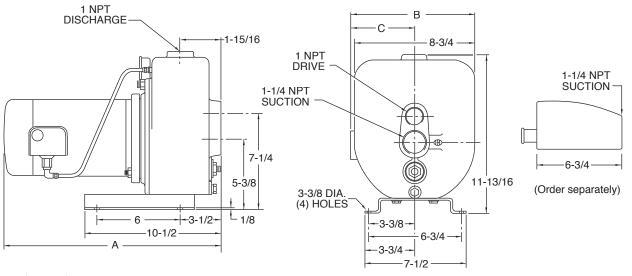
^{*} Order Jet Package separately.

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.

OUTLINE DIMENSIONS

CAT. NO.	Α	В	С
7LT2	16-7/8	9-1/2	5-1/8
10LT2	17-3/4	9-1/2	5-1/8
15LT2	18-1/4	10	5-5/8



Dimensions (in inches) are for estimating purposes only.

Cast iron, horizontal multi-stage

PUMP I	PERFO	ORMAN 2" SING	CE (Capaci	ty in gallon 40 PSI	s per r	ninute)												
			USES	USES						PUI	MPING	DEPT	H IN F	EET					
CAT. NO.	HP	JET NO.	VENTURI	NOZZLE	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'
		13AP	J32P-26	J34P-44	12.0	10.8	9.6	8.1	6.9	5.5									
7LT2	3/4	22AP	J32P-22	J34P-43					7.9	6.7	5.5	4.7	3.9	3.0					
		8AP	J32P-18	J34P-42									4.0	3.6	3.1	2.7	2.2		
		5AP	J32P-29	J34P-41	16.3	15.6	14.1	12.0	9.9	8.2	6.0								
10LT2	1	4AP	J32P-24	J34P-41					8.9	7.9	7.0	5.8	4.7	3.6	2.5				
		19AP	J32P-20	J34P-43											4.0	3.2	2.3	1.8	1.3
		15AP	J32P-33	J34P-41	20.0	18.5	17.0	13.6	10.4	7.6	5.0								
15LT2	1-1/2	9CP	J32P-26	J34P-41					10.6	9.2	8.0	6.0	4.5	3.7	3.0	2.2			
		23AP	J32P-20	J34P-44											4.3	3.5	2.7	2.4	2.0
DEEP V	WELL:	3" SING	LE PIPE:	40 PSI															
		17CP	J32P-29	J34P-44	12.8	11.5	10.2	8.9	7.6	6.1									
7LT2	3/4	18CP	J32P-24	J34P-44					7.8	6.9	6.0	5.3	4.5	3.6					
/L12	3/4	16CP	Factory Installed										5.0	4.4	3.9	3.4	3.0	2.5	2.0
401.70	1	7CP	J32P-32	J34P-41	17.8	16.2	14.6	13.0	11.4	9.6	7.7								
10LT2	1	9CP	J32P-26	J34P-41					10.7	9.8	9.0	7.9	6.7	5.8	5.0	4.1			
		10CP	J32P-38	J34P-45	21.7	19.7	17.9	15.9	14.0	11.0	8.0								
15LT2	1-1/2	9CP	J32P-26	J34P-41					11.1	10.8	10.6	9.7	8.9	7.5	6.5	5.5			
TOLIZ	1 1/2	19CP	Factory Installed	J34P-41											6.9	6.1	5.3	4.6	4.1
DEEP V	WELL.	4" DOU	BLE PIPE	: 40 PSI															
		CK2	J32P-29	J34P-44	12.8	11.5	10.2	8.9	7.6	6.1									
7LT2	3/4	CK2	J32P-24	J34P-44					7.8	6.9	6.0	5.3	4.5	3.6					
/L12	3/4	15SD	Factory Installed										5.0	4.4	3.9	3.4	3.0	2.5	2.0
		CK3	J32P-32	J34P-41	17.8	16.2	14.6	13.0	11.4	9.6	7.7								
10LT2	1	CK3	J32P-26	J34P-41					10.7	9.8	9.0	7.9	6.7	5.8	5.0	4.1			
		CK1	J32P-20	J34P-43											5.0	4.5	3.9	3.5	3.0
		CK4	J32P-38	J34P-45	21.7	19.7	17.9	15.9	14.0	11.0	8.0								
15LT2	1-1/2	CK3	J32P-26	J34P-41					11.1	10.8	10.6	9.7	8.9	7.5	6.5	5.5			
10212	1,72	4SD	Factory Installed												6.9	6.1	5.3	4.6	4.1

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.

AUTOM	ATIC PRESSURE REGULATOR -	- DEEP WELL	
CATALOG NUMBER	DESCRIPTION	APPLICATION	APPROX. WT. LBS.
PKG 107	Regulator, tubing, pipe plug and compression fitting	Required for ALL deep well installations	4

MS Series

Cast Iron



The MS Series Vertical Jet Pumps are the industry standard deep well jet pumps for over-the-well "bolt-on" installations.

The MS Series Jet Pumps include the pre-plumbed external automatic regulator, pressure gauge, pressure switch, and a complete line of casing adapters to drive the 4" double pipe or 2" and 3" single pipe jet packages.

APPLICATIONS

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

SPECIFICATIONS

Body: Rugged cast iron **Pump and Motor Shaft:**416 stainless steel

Impellers: Noryl®

Diffuser: Close-grained cast iron

ORDER	NG II	NFORMATION						
CATALOG		DECODIDATION	MAX. PRESS.	PIPE T	APPING	SIZES	MOTOR	APPROX.
NUMBER	HP	DESCRIPTION	REG. SETTING	SUCT.	DRIVE	DISCH.	VOLTAGE	WT. LBS.
10MS	1	Deep Well Jet	60 PSI	1-1/4"	1-1/4"	1"	115/230	73
15MS	1-1/2	Deep Well Jet	85 PSI	1-1/4"	1-1/4"	1"	230	120
20MS	2	Deep Well Jet	95 PSI	1-1/4"	1-1/4"	1"	230	125

ADAPTE	R FLANGE	
CATALOG		
NUMBER	DESCRIPTION	USED WITH
J216-26	1-1/4" x 1"	Offset single pipe, 4" double pipe through 3/4 HP
J216-27	1-1/4" x 1-1/4"	4" double pipe 1, 1-1/2 and 2 HP

FEATURES

Automatic Pressure Regulator: Fasteracting and quieter, design eliminates "hunting" for correct drive pressure. New, improved stem and guide are precisely molded to assure efficient, trouble-free performance on all deep wells.

Quality Construction: Precision-machined, close-grained cast iron pump body and base are specially treated to resist corrosion.

Noryl Impellers: Precision-molded for perfect balance, and ultra-smooth for highest performance and efficiency.

Pressure Switch: High quality. Differential and cut-in/cut-out pressure settings are adjustable.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants to ensure prolonged motor life.

Mechanical Shaft Seal: Precision-lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication for maximum protection.

Dustproof Cover: All electrical components are protected from dirt, dust and insects by a dustproof canopy. Ventilating air cannot contaminate vital switching components. This eliminates the most common cause of motor failure.

Balanced Rotor: Rotor is diecast under high pressures for uniform performance and greater efficiency...dynamically balanced.

Heavy-Duty Ball Bearings: Permanently lubricated sealed bearings are extensively tested to ensure extended life and smooth, quiet operation.

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

Order pump from ordering information table above. A Jet Package should be ordered with every MS Series Pump. All installations require an appropriate size adapter flange or casing adapter if bolt-on feature is desired.

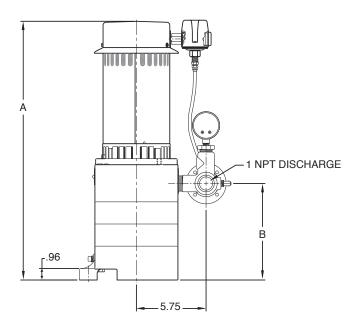
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MS Series

Cast Iron

OUTLINE DIMENSION



CAT. NO.	Α	В
10MS	18-3/8	5-5/8
15MS	20-7/16	7-1/2
20MS	20-15/16	7-1/2

Dimensions (in inches) are for estimating purposes only.

			FORMAN L (40 PS					s per	min	ute)																
												PUN	1PIN	G DE	РТН	IN F	EET								MAX. SHUT PRES	-OFF
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	30,	40'	50'	60'	70'	80,	90'	100'	110 [°]	120'	130'	140'	180'	200'	220'	240'	260'	280'	300,	320'	JET AT MIN. DEPTH	MAX.
10MS	1	23SD	J32P-24	J34P-42	12.1	11.7	11.6	11.1	10.2	9.2	7.8	6.4	5.0	4.0	3.0										120	76
101413	ı	15SD	J32P-18	J34P-42	5.5	5.5	5.5	5.4	5.3	5.3	5.2	5.1	5.1	5.0	4.8	4.5	3.3	2.7	2.0	1.3	1.0				200	97
1EMC	1 1/0	23SD	J32P-24	J34P-42	12.2	12.2	12.2	12.2	11.7	11.3	10.7	9.9	9.0	8.3	7.0	4.0	1.3								164	95
15MS	1-1/2	15SD	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.2	5.1	5.1	5.0	4.8	4.7	4.5	4.3	4.0	3.3	2.7		314	172
20140	0	23SD	J32P-24	J34P-42	12.2	12.2	12.2	12.2	11.8	11.3	11.2	11.1	11.0	10.0	8.7	7.0	4.0	2.0							195	110
20MS	Z	15SD	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.2	5.1	5.1	5.0	5.0	4.8	4.8	4.5	4.3	4.0	3.3	2.7	314	172

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.

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MS Series

Cast Iron

			FORMAN L (40 PSI)				ns pe	r mir	nute)														
											PUMI	PING	DEPT	'H IN	FEET								PUMP r-0FF S. PSI
CAT.	НР	JET NO.	USES VENTURI	USES NOZZLE	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	180'	200'	220'	240'	260'	JET AT MIN. DEPTH	JET AT MAX. DEPTH
10140	1	12AP	J32P-24	J34P-42	12.1	11.3	11.2	10.0	8.8	7.6	6.5	5.6	3.3	1.8								118	80
10MS		8AP	J32P-18	J34P-42	5.5	5.5	5.3	5.3	5.2	5.1	5.0	5.0	5.0	5.0	4.5	4.2	2.0					198	126
15146	1 1/0	12AP	J32P-24	J34P-42	12.2	12.0	12.0	12.0	11.5	11.2	9.7	8.3	6.8	5.5	4.2	3.3						162	110
15MS	1-1/2	8AP	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.3	5.2	5.1	5.0	5.0	5.0	4.8	4.3	3.5	2.7	1.7		266	158
00146		12AP	J32P-24	J34P-42	12.2	12.0	12.0	12.0	11.7	11.2	11.0	10.3	8.3	7.5	6.3	5.3						193	139
20MS	2	8AP	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.3	5.2	5.2	5.1	5.1	5.0	4.8	4.7	4.3	3.7	3.2	2.5	312	192

PUMP PERFORMANCE (Capacity in gallons per minute) DEEP WELL (40 PSI) 3" SINGLE PIPE																										
												PUM	IPIN	G DE	РТН	IN F	EET								SHUT	PUMP I-OFF S. PSI
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	30'	40'	50'	60'	70'	80,	90'	100'	110 [.]	120'	130'	140'	180'	200'	220'	240'	260'	280'	300'	320'	JET AT MIN. DEPTH	JET AT MAX. DEPTH
10MS	1	23CP	J32P-24	J34P-42	12.1	11.7	11.6	11.1	10.2	9.2	7.8	6.4	5.0	4.0	3.0										120	76
101413	1	16CP	J32P-18	J34P-42	5.5	5.5	5.5	5.4	5.3	5.3	5.2	5.1	5.1	5.0	4.8	4.5	3.3	2.7	2.0	1.3	1.0				200	97
		23CP	J32P-24	J34P-42	12.2	12.2	12.2	12.2	11.7	11.3	10.7	9.9	9.0	8.3	7.0	4.0	1.3								164	95
15MS	1-1/2	22CP	J32P-20	J34P-42	7.7	7.7	7.7	7.5	7.5	7.4	7.3	7.3	7.2	7.2	7.0	7.0	4.3	4.0	3.2	2.2					210	110
		16CP	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.2	5.2	5.1	5.0	5.0	4.9	4.7	4.0	3.8	3.0	2.3	1.7		268	132
		23CP	J32P-24	J34P-42	12.2	12.2	12.2	12.2	11.8	11.3	11.2	11.1	11.0	10.0	8.7	7.0	4.0	2.0							195	110
20MS	2	22CP	J32P-20	J34P-42	7.7	7.7	7.7	7.5	7.5	7.4	7.3	7.3	7.2	7.2	7.0	7.0	5.3	5.0	4.7	4.0	3.0	2.2			250	128
		16CP	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.2	5.1	5.1	5.0	5.0	4.8	4.7	4.5	4.3	4.0	3.3	2.7	314	172

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.

135 CB5635WS

Intelliboost® R Series

Multi-stage variable frequency drive booster pump



The Intelliboost® is the only TRUE variable speed booster with an LCD screen that gives you an easy to use, all-in-one solution for not only boosting, but also delivering a constant pressure throughout the system. This dependable unit quickly enhances your customer's system with smart controls that adjusts to their water usage.

APPLICATIONS

• Residential Boosting

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- Water Transfer
- Turf Irrigation

SPECIFICATIONS

Pump Case: Stainless Steel

Diffuser: Reinforced Polypropylene **Impeller:** Reinforced Polypropylene

Mechanical Shaft Seal: Carbon, Ceramic,

Stainless Steel

Mounting Base: Steel

FEATURES

TRUE Variable Speed: The Intelliboost features a variable speed control that adjusts itself as demand changes to hold water pressure (up to 60psi) at the desired level.

All-In-One Unit: Includes pump, variable speed drive and tank all in one unit for quick and easy install.

Simple Startup: Unit is preset to boost 60psi, allowing you to plumb it, wire it, power up and go!

Built-in Check Valve: Includes a check valve after the discharge to further protect your system.

LCD Screen: No blinking lights! The Intelliboost has an easy-to-read LCD screen that tells you the status of your unit in plain text.

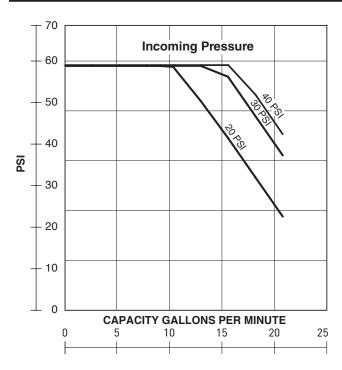
ORDERING I	ORDERING INFORMATION													
Ontolon		I		Pipe Tap	ping Size	A								
Catalog Number	HP	Input Voltage	Phase	Suction	Discharge	Approx. Wt. Lbs.								
MIB0715B	3/4	230	1	1"	1"	30								

B12016WS

Intelliboost® R Series

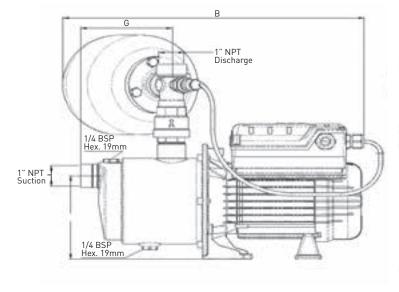
Multi-stage variable frequency drive booster pump

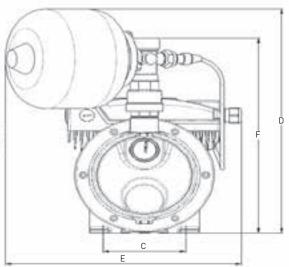
PUMP PERFORMANCE



	Booster Set At:				
Incoming Household Pressure	50 PSI	60 PSI			
	Boosted Hous	ehold Pressure			
20 PSI	50 PSI	60 PSI			
20 P31	Household Water Usage				
	Up to 13 GPM	Up to 10 GPM			
	Boosted Household Pressure				
30 PSI	50 PSI	60 PSI			
30 P31	Household Water Usage				
	Up to 19 PM	Up to 15 GPM			
	Boosted Household Pressure				
40 PSI	50 PSI	60 PSI			
40 P31	Household Water Usage				
	Up to 21 GPM	Up to 19 GPM			

OUTLINE DIMENSIONS





Dimensions (inch)

А	В	С	D	Е	F	G
5.1	15.0	3.9	13.7	11.8	12.0	4.6

137 B12016WS







The MGP/MGPS 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

Max. Suction Lift: 15 feet

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

Discharge:

MGP Series: cast iron

MGPS Series: stainless steel

Motor Adapter and Base:

MGP Series: cast iron MGPS Series: stainless steel

Shell: Stainless steel 304 grade

Impeller: Acetal

Diffuser: Polycarbonate

Shaft: Stainless steel 304 grade

O-Rings: Buna-N

Mechanical Seal: Carbon/ceramic,

Buna-N

FEATURES

SignaSeal Staging System: The proven SignaSeal staging system utilizes a ceramic wear surface that, when incorporated with Sta-Rite's "true" independent floating impellers, dominates with 1st-in-class performance, superior sand handling and thrust management staging system.

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

Mechanical Shaft Seal: Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assure prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency; dynamically balanced.

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

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

Dustproof Cover: All electrical components are protected from dirt, dust and insects by a dustproof canopy; ventilating air cannot contaminate.

TEFC Models available. Contact Customer Service.

Catalog Number						Pipe Tapping Sizes		Matar	Chinning
Cast Iron	Stainless Steel		HP Phase	Phase	Stages	Inlet	Outlet	Motor Voltage	Shipping Wt. (lbs.)
MGP7C	MGPS7C		1/2	1	9	3/4"	3/4"	115/230	42
MGP7C3	MGPS7C3		1/2	3	9	3/4"	3/4"	208-230/460	42
MGP7D	MGPS7D	7	3/4	1	12	3/4"	3/4"	115/230	48
MGP7D3	MGPS7D3	7	3/4	3	12	3/4"	3/4"	208-230/460	48
MGP7E	MGPS7E		1	1	16	3/4"	3/4"	115/230	59
MGP7E3	MGPS7E3		1	3	16	3/4"	3/4"	208-230/460	59
MGP10C	MGPS10C		1/2	1	6	3/4"	3/4"	115/230	40
MGP10C3	MGPS10C3		1/2	3	6	3/4"	3/4"	208-230/460	40
MGP10D	MGPS10D		3/4	1	8	3/4"	3/4"	115/230	46
MGP10D3	MGPS10D3		3/4	3	8	3/4"	3/4"	208-230/460	46
MGP10E	MGPS10E	10	1	1	10	3/4"	3/4"	115/230	57
MGP10E3	MGPS10E3	10	1	3	10	3/4"	3/4"	208-230/460	57
MGP10F	MGPS10F		1-1/2	1	14	3/4"	3/4"	230	71
MGP10F3	MGPS10F3	_	1-1/2	3	14	3/4"	3/4"	208-230/460	71
MGP10G	MGPS10G		2	1	16	3/4"	3/4"	230	79
MGP10G3	MGPS10G3		2	3	16	3/4"	3/4"	208-230/460	79
MGP20E	MGPS20E		1	1	7	1"	1"	115/230	55
MGP20E3	MGPS20E3		1	3	7	1"	1"	208-230/460	55
MGP20F	MGPS20F		1-1/2	1	9	1"	1"	230	68
MGP20F3	MGPS20F3	200	1-1/2	3	9	1"	1"	208-230/460	68
MGP20G	MGPS20G	20	2	1	11	1"	1"	230	74
MGP20G3	MGPS20G3		2	3	11	1"	1"	208-230/460	74
MGP20H	MGPS20H		3	1	15	1"	1"	208-230-1	59
MGP20H3	MGPS20H3		3	3	15	1"	1"	208-230/460-3	55
MGP30E	MGPS30E		1	1	5	1-1/4"	1-1/4"	115/230-1	47
MGP30E3	MGPS30E3		1	3	5	1-1/4"	1-1/4"	208-230/460-3	44
MGP30F	MGPS30F	30	1-1/2	1	6	1-1/4"	1-1/4"	230-1	54
MGP30F3	MGPS30F3		1-1/2	3	6	1-1/4"	1-1/4"	208-230/460-3	49
MGP30G	MGPS30G		2	1	7	1-1/4"	1-1/4"	230-1	57
MGP30G3	MGPS30G3		2	3	7	1-1/4"	1-1/4"	208-230/460-3	53
MGP30H	MGPS30H		3	1	11	1-1/4"	1-1/4"	208-230-1	59
MGP30H3	MGPS30H3		3	3	11	1-1/4"	1-1/4"	208-230/460-3	55

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

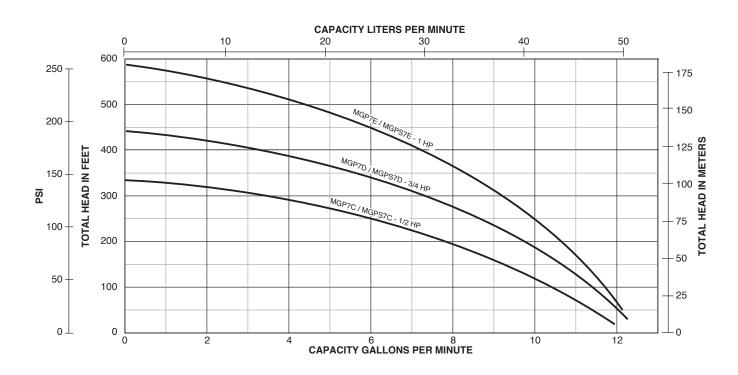
ORDERING INFORMATION (ACCESSORIES)						
Pkg. No.	Description	Approx. Wt. Lbs.				
SUCTION						
83	Suction hose – 3/4" 150 PSI hose, 6 ft. section with two (2) female hose fittings	3				
85	Two (2) garden hose/NPT adapters – 3/4" NPT male to 3/4" garden hose male	3				
150 PSI RATED* DISCHARGE						
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				

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

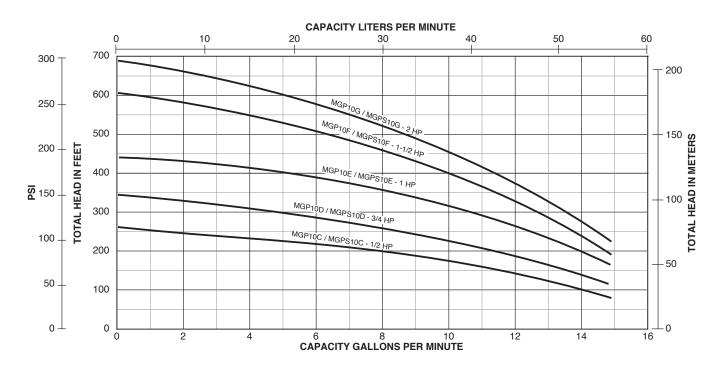
Example: Incoming pressure 20 PSI + pump output pressure (HP7C at 0 GPM, 300') 87 PSI = Total 150 PSI at discharge = 150 PSI rated discharge accessories

140 S00000

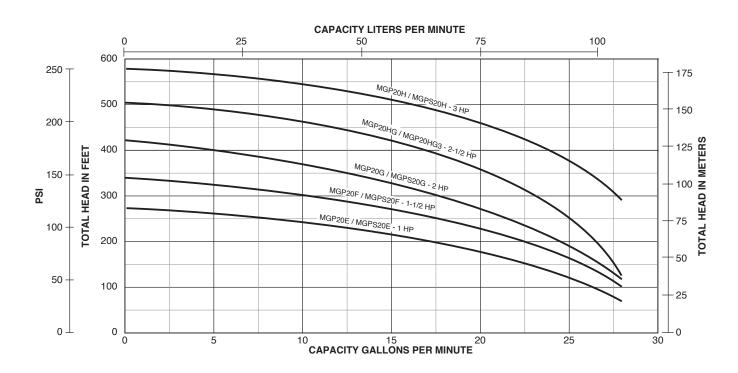
PUMP PERFORMANCE: 7 GPM



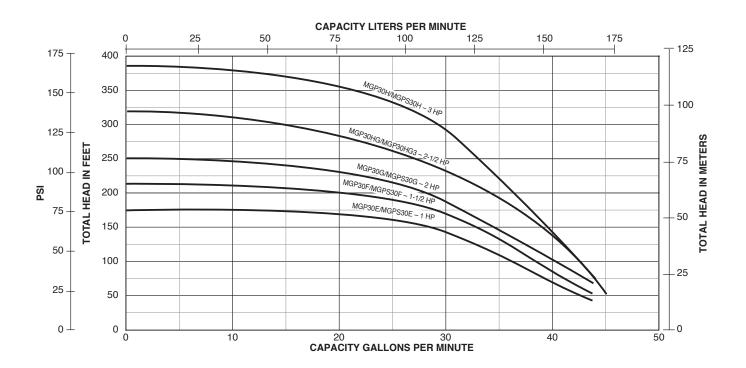
PUMP PERFORMANCE: 10 GPM



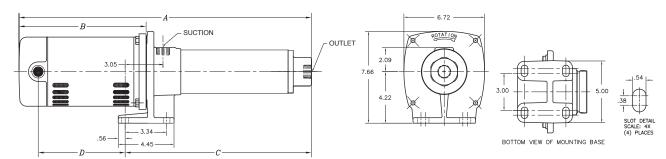
PUMP PERFORMANCE: 20 GPM



PUMP PERFORMANCE: 30 GPM



OUTLINE DIMENSIONS



DIMENSIONS IN INCHES						
CAST IRON						
Catalog Number	НР	Α	В	С	D	
MGP7C	1/2	24.28	10.38	15.76	6.68	
MGP7C3	1/2	26.41	9.88	18.39	6.68	
MGP7D	3/4	27.41	10.88	18.39	7.69	
MGP7D3	3/4	30.41	10.38	21.89	7.28	
MGP7E	1	31.91	11.88	21.89	8.69	
MGP7E3	1	22.15	10.88	13.13	7.68	
MGP10C	1/2	22.87	11.60	13.13	8.44	
MGP10C3	1/2	21.15	9.88	13.13	6.68	
MGP10D	3/4	24.99	11.97	14.88	8.81	
MGP10D3	3/4	25.15	10.38	16.63	7.28	
MGP10E	1	27.80	13.03	16.63	9.87	
MGP10E3	1	24.78	10.88	15.76	7.68	
MGP10F	1-1/2	31.18	13.78	19.26	10.31	
MGP10FG	1-1/2	31.91	11.88	21.89	8.69	
MGP10G	2	36.44	13.78	24.52	10.62	
MGP10G3	2	32.66	12.63	21.89	9.44	
MGP20E	1	26.85	13.03	15.68	9.87	
MGP20E3	1	26.93	10.88	17.91	7.68	
MGP20F	1-1/2	29.83	13.78	17.91	10.31	
MGP20F3	1-1/2	30.16	11.88	20.14	8.69	
MGP20G	2	32.06	13.78	20.14	10.62	
MGP20G3	2	26.53	12.63	15.76	9.44	
MGP30E	1	25.08	11.88	14.92	8.69	
MGP30E3	1	24.08	10.88	14.92	7.69	
MGP30F	1-1/2	27.26	12.63	16.35	9.44	
MGP30F3	1-1/2	26.51	11.88	16.35	8.69	
MGP30G	2	28.49	12.42	17.79	9.47	
MGP30G3	2	28.70	12.63	17.79	9.44	
MGP30HG	2-1/2	32.24	13.18	20.78	10.25	
MGP30HG3	2-1/2	32.26	13.20	20.78	10.28	
MGP30H	3	35.86	14.05	23.53	11.12	
MGP30H3	3	33.73	11.92	23.53	8.97	

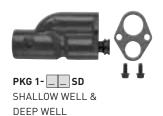
STAINLESS STEEL						
Catalog Number	HP	Α	В	С	D	
MGPS7C	1/2	25.39	11.60	15.65	8.44	
MGPS7C3	1/2	26.27	9.88	18.25	6.68	
MGPS7D	3/4	28.36	11.97	18.25	8.81	
MGPS7D3	3/4	26.77	10.38	18.25	7.28	
MGPS7E	1	31.89	11.97	21.78	8.81	
MGPS7E3	1	30.80	10.88	21.78	11.94	
MGPS10C	1/2	22.76	11.60	13.02	8.44	
MGPS10C3	1/2	22.79	9.88	14.77	6.68	
MGPS10D	3/4	24.88	11.97	14.77	8.81	
MGPS10D3	3/4	25.04	10.38	16.52	7.28	
MGPS10E	1	27.69	13.03	16.52	9.87	
MGPS10E3	1	29.05	10.88	20.03	7.68	
MGPS10F	1-1/2	31.95	13.78	20.03	10.31	
MGPS10F3	1-1/2	31.80	11.88	21.78	8.69	
MGPS10G	2	33.70	13.78	21.78	10.62	
MGPS10G3	2	27.22	12.63	16.45	9.44	
MGPS20E	1	26.74	13.03	15.57	9.87	
MGPS20E3	1	26.82	10.88	17.80	7.68	
MGPS20F	1-1/2	29.72	13.78	17.80	10.31	
MGPS20F3	1-1/2	30.05	11.88	20.03	8.69	
MGPS20G	2	31.95	13.78	20.03	10.62	
MGPS20G3	2	26.42	12.63	15.65	9.44	
MGPS30E	1	26.23	13.03	14.92	9.87	
MGPS30E3	1	24.08	10.88	14.92	7.69	
MGPS30F	1-1/2	28.10	13.47	16.35	10.31	
MGPS30F3	1-1/2	26.51	11.88	16.35	8.69	
MGPS30G	2	29.85	13.78	17.79	10.62	
MGPS30G3	2	28.70	12.63	17.79	9.44	
MGPS30HG	2-1/2	32.24	13.18	20.78	10.28	
MGPS30HG3	2-1/2	32.26	13.20	20.78	10.28	
MGPS30H	3	35.86	14.05	23.53	11.12	
MGPS30H3	3	33.73	11.92	23.53	8.97	

A jet package should be ordered with every convertible deep well jet pump.

ORDERING INFORMATI	ON	
Package	Jet Number	Used with Pump Series
SHALLO	W WELL AND 4" DEEP WELL DO	OUBLE PIPE
	PKG 1-4SD	SL, HL, FL, LT2
	PKG 1-10SD	SL, HL, FL, LT2
	PKG 1-11SD	SL, HL, FL, LT2
PKG 1 SD	PKG 1-12SD	SL, HL, FL, LT2
For shallow	PKG 1-15SD	SL, HL, FL, LT2
vell applications	PKG 1-23SD	MS, PL
For all 4" double	PKG 1-27SD	SL, HL, FL
or all 4 double oipe applications	PKG 1-29SD	SL, HL, FL, LT2
	PKG 1-54SD	SL, HL, FL
	PKG 1-55SD	SL, HL, FL
	PKG 1-60SD	SL, HL
SHALLOW	WELL AND 4" DEEP WELL DOUB	LE PIPE - KITS
	PKG CK1	SL, HL, LT2, SSJ
PKG CK _	PKG CK2	SL, HL, LT2, SSJ
	PKG CK3	SL, HL, LT2, SSJ, FL
Same as SD jets above, with three (3) venturis	PKG CK4	LT2, SSJ
	PKG CK5	SL, HL, LT2, SSJ
4" DEEP WE	LL DOUBLE PIPE WITH ACCESS	ORY PACKAGES
	PKG 2A-4SD	SL, HL, FL, LT2
	PKG 2A-15SD	SL, HL, FL, LT2
PKG 2A SD	PKG 2A-23SD	MS, PL
	PKG 2A-54SD	SL, HL, FL
	PKG 2A-55SD	SL, HL, FL
PL SERIE	ES PLASTIC SHALLOW WELL JET	T PACKAGES
	PKG 1-21N	PL
PKG 1 - _ _ N	PKG 1-22N	PL
For all shallow well	PKG 1-23N	PL
applications	PKG 1-24N	PL

Continued On Next Page.

ORDERING INFORMATION										
ACCESSORY PACKAGE										
Catalog Number	Description	Approx. Wt. Lbs.								
PKG 2A	Poly Pipe and Foot Valve Kit (1-1/4" Brass)	3								









DOUBLE PIPE

PKG 1- N PL SHALLOW WELL



PKG 2AACCESSORY PACKAGE

A jet package should be ordered with every convertible deep well jet pump.

Package	Jet Number	Suction	Used with Pump Series
		Tapping SLE PIPE*	
	PKG 1-54 AP	LE PIPE*	CL III FI
			SL, HL, FL LT2
	PKG 1-23 AP		
	PKG 1-22 AP		LT2
	PKG 1-18 AP		LT2
PKG 1 ** AP PKG 1 APB 4 lbs.)	PKG 1-19 AP		LT2
	PKG 1-16 AP & APB		PL, SSJ
	PKG 1-15 AP		PL, LT2, SSJ
	PKG 1-14 AP	1-1/4" M	PL, SSJ
let with built-in :heck valve	PKG 1-13 AP	and 1" F	PL, LT2
	PKG 1-12 AP & APB		MS
For all 2" single pipe deep well applications	PKG 1-10 AP & APB		SL, HL, PL, SSJ
	PKG 1-9 AP & APB		SL, HL, PL, SSJ
	PKG 1-8 AP & APB		SL, HL, PL, LT2, SSJ, MS, FL
	PKG 1-7 AP & APB		LT2
	PKG 1-5 AP		LT2
	PKG 1-4 AP		LT2
	PKG 1-2 AP		LT2
	3" SINC	ELE PIPE	
	PKG 1-57 CP		SL, HL
	PKG 1-54 CP		SL, HL, FL
	PKG 1-26 CP		PL, SSJ
	PKG 1-25 CP		PL
PKG 1 ** CP	PKG 1-23 CP		MS
6 lbs.)	PKG 1-22 CP		LT2, MS
and the second second	PKG 1-19 CP		SL, HL, PL, LT2, SSJ, FL
let with built-in heck valve	PKG 1-18 CP	1-1/4" M and 1" F	SL, HL, LT2
	PKG 1-17 CP	allu i F	PL, LT2, SSJ, MS
or all 3" single pipe leep well	PKG 1-16 CP		SL, HL, LT2, SSJ, MS, FL
pplications	PKG 1-15 CP		PL, SSJ
	PKG 1-11 CP		PL, SSJ
	PKG 1-10 CP		PL, LT2
	PKG 1-9 CP		SL, HL, LT2, FL
	PKG 1-7 CP	1	LT2



PKG 1- ___ AP

2" SINGLE PIPE CAST IRON

OR

PKG 1- APB
2" SINGLE PIPE BRASS

PKG 1- __ CP 3" SINGLE PIPE

^{**}For casing adapter, please see following page.

ORDERING INFORMATIO	ORDERING INFORMATION										
TURNED COUPLING											
Catalog Number	Description	Approx. Wt. Lbs.									
U11-1	Turned Coupling (1-1/4" NPT)	1									



PKG U11-1 TURNED COUPLING

^{*}Order one (1) U11-1 turned coupling for each length of drop pipe.



View A Vertical – Straight Offset Casing Adapter



View B Vertical – Bolt-on Casing Adapter



View C Horizontal – Right Angle Casing Adapter Drive-Over-Suction



View D Horizontal – Right Angle Casing Adapter Suction-Over-Drive

Catalog Number	View	Description	Approx. Wt. Lbs.	Use with Pump Series
		CASING ADAPT	ERS	
J216-13A	А	2" vertical – straight offset	6	General Usage
J216-21	В	2" vertical – bolt-on	6	SSJ, MS
J216-23	В	3" vertical – bolt-on	7	SSJ, MS
J216-16A	С	2" horizontal – right angle – drive-over- suction	7	FL, LT2
J216-18A	С	3" horizontal – right angle – drive-over- suction	9	FL, LT2
J37-4	-	Offset nipple (1" NPT x 4-3/4")	1	General Usage
J216-29B	_	2" concentric pipe – pitless adapter	6	SSJ, MS
J216-42	-	2" concentric pipe – pitless adapter	6	FL, LT2
J216-44	D	2" horizontal – right angle –suction- over-drive	7	SL, HL
		FOOT VALVE	5	
U212-28	Е	3/4" foot valve and strainer	1	
U212-93	Е	1" foot valve and strainer	1	
U212-94	Е	1-1/4" foot valve and strainer	2	View E
U212-92	Е	1-1/2" foot valve and strainer	3	Foot Valves
U212-16	Е	2" foot valve and strainer	3	
		PRESSURE REGULATOR		View F
PKG 107	F	Regulator, tubing, pipe plug and compression fitting	4	View F Pressure Regulator

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ACCESSORIES (CONT'D.)							
	AIR VOLUME CONTROLS							
Catalog Number	Description	Approx. Wt. Lbs.						
U238-5A	AVC, 1/4" compression fitting for copper tube, nipple, instruction sheet, jet type	1						
U238-5B	AVC, 1/4" compression fitting for plastic tube, nipple, instruction sheet, jet type	1						
J238-10B	AVC 1//" plactic tubing compression fittings							
E238-2	Air volume control – submersible	1						
U238-4	AVC bulk. No fittings.	1						
U238-5E	AVC boxed. No fittings or nipple.	1						
U78-774P	Plastic AVC reducer bushing, 1-1/4" x 1/4"	1						
	TANK MOUNTING PACKAGES -PRO-SOURCE® TANKS	,						
PKG 111	For tank mounting PL and PN Series jet pumps	2						
PKG 112	For tank mounting HN, SN, FN, HL, SL, and FL Series Jet Pumps	2						
PKG 198	Jet Pump to Tank Mounting Bracket	3						
PKG 207	Pump-to-Tank Fitting Package – all galvanized fittings	4						
	REVERSING ADAPTER							
PKG 108	Adapter, gasket, capscrews, 1" x 1-1/4"	4						
	PRESSURE GAUGES							
U239-2	Pressure gauge, bottom mount 1/4", 0-100 PSI	1						
U239-3	Pressure gauge, bottom mount 1/8", 0-100 PSI	1						
U239-3A	U239-3 with 1/4" x 1/8" reducer bushing	1						
U239-8	Pressure gauge, bottom mount 1/4", 0-200 PSI	1						
U78-107DT	Reducer bushing for U239-3 1/4" x 1/8"	1						



U238-5 Air Volume Controls (Jet pump type)



E238-2 Air Volume Control (Submersible type)



Reducer Bushing



Tank Mounting Packages



Pressure Gauge



PKG 108 Reversing Adapter Drive over suction to suction over drive



PKG 198 Universal Jet Pump to Tank Mounting Bracket



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.

NSF/ANSI 61 Drinking Water

ORDERING I	RDERING INFORMATION													
Catalog	Tank Capacity	Tank	Tank	Discharge	Water Yield Per	Pump Cycle Pressui	re Switch Setting							
Number	Gal./Liter	Diameter Inch / cm	Height Inch / cm		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							

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

Certified to ANSI/NSF 61, Drinking Water System Components

CB4567WS

APPLICATIONS

Use wherever pressurized tanks are needed in water systems applications.

SPECIFICATIONS

Inner Liner: One-piece high-density polyethylene

Outer Shell: Fiberglass-wound, ovencured, 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 heavygauge engineered polymer. Meets Water Quality Assocation 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). Replaceable on PSC line of Fibrewound.

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.

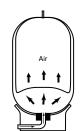
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OPERATING CYCLE

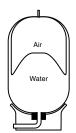
1.Pro-Source®
Composite tank is nearly
empty: air cell
is fully expanded



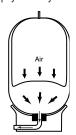
2. Water is pumped into tank: air in cell is compressed



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



HART A													
			TANK SELECTION CH	ART									
	SYSTEM PRESSURE SWITCH SETTING - PSI												
Pump	20	-40	30	-50	40	-60							
GPM			Runt	imes									
	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.

	DRAWDOWN VOLUME MULTIPLIER* (APPROXIMATE)												
Pump Off				PUMP START F	RESSURE - PSI								
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:

 Pump GPM x Min Runtime = Minimum Tank

 Multiplier (X) Capacity Required

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

CB4567WS

Contact



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NSF/ANSI 61 Drinking Water

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 overlapping, 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

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. Corrosionand 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** Maximum Height Inlet/ Maximum Assembly Catalog Operating Diameter Overall Height Top System **Bottom System** Outlet to Floor Weight Capacity Number Inch/cm Connection Pressure Inch/cm Connection Gal./Liter Inch/cm Lbs./kg PSI/kPa/Bar FCT40 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 FCT80 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 FCT120 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

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

Certified to ANSI/NSF 61, Drinking Water System Components. In order to provide the best products possible, specifications are subject to change.

CB6052WS

Sideport Contact/Air Over Water

SP Series Sideport Contact Tanks





NSF/ANSI 61 Drinking Water

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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

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. Corrosionand impact-resistant. Base rotates 360° for ease-of-service hook-up.

Composite Service Connection:

Threaded for ease of installation.

ORDERING INFORMATION SP SERIES SIDEPORT CONTACT TANKS Maximum Drawdown Height Inlet/ **Height Sideport** Overall Height Diameter Unit Ship Weight **Outlet to Floor** to Floor Catalog Number Capacity 30-50 Setting Inch/cm Inch/cm Lbs./kg Gal./Liter Gallons/Liters Inch/cm Inch/cm SP-7 30/114 16/41 43.75/111 1.5/3.8 14/35.6 26/11.8 7/26 9/34 SP-9 40/151 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 26/98 24/61 20.2/51.3 97/44.1 **SP-26** 120/454 72.5/184 2/5.1

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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)

Certified to ANSI/NSF 61, Drinking Water System Components. In order to provide the best products possible, specifications are subject to change.

CB6052WS

Pro-Source® Plus Steel Tanks

Premium, heavy-gauge steel tanks



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



PKG 198 Universal Jet Pump to Tank Bracket SOLD SEPERATE



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 IN	ORDERING INFORMATION														
Catalog Number	Maximum Capacity	Diameter*	Height*	Precharge Connection PSI/kPa Size Female	3 1 1 1 1 1 1 1 1 1		Drawdown In Gallons/Liters			Maximum Operating					
Number	Gal./Liter	IIICII/CIII	IIICII/CIII	P3I/KPa	Size Female	20-40	30-50	40-60	Lbs./kg	PSI					
	VERTICAL MODELS														
PSP19S-T02	19/72	20/51	21.5/55	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	27.8/71	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	33.2/84	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	40.1/102	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	51.5/131	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	68.6/174	40/276	1-1/4" NPT	41.3/156.3	35.4/134.0	31.0/117.3	140/63.5	125					

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

CB5680WS

^{*}Subject to change without notice.

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

Pro-Source® Plus Steel Tanks

Premium, heavy-gauge steel tanks

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.

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 pump 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											
	S	STEM PR	ESSURE S	WITCH SE	TTING - P	SI					
Pump GPM	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:	CHART B: DRAWDOWN VOLUME MULTIPLIER* (APPROX.)												
Pump Off	PUMP START PRESSURE – PSI												
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.

EXAMPLE:

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PROCEDURE: 1. Identify drawdown multiplier relating to specific application.

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

Pump GPM x Min Runtime
Multiplier (X) = Minimum Tank
Capacity Required

An example of a 20 GPM pump with a minimum runtime of

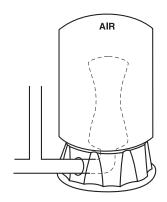
Referring to "Ordering Information" chart, the model PSP85-T52 has the closest U.S. gallon capacity that is greater or equal to the minimum volume requirement of 83.3 U.S. gallons.

CB5680WS

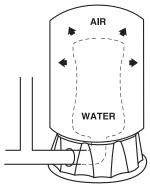
Pro-Source® Plus Steel Tanks

Premium, heavy-gauge

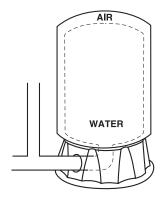
OPERATING CYCLE



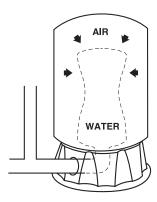
1. Separator is completely empty: A new cycle is ready to begin. Simple, positive action produces maximum drawdown on every cycle.



2. Water begins to enter the tank: Air $\,$ 3. Pump-up cycle completed: is compressed around the water separator as it fills with water.



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



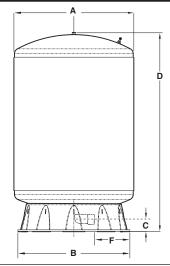
Universal Jet Pump to Tank Bracket



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

ORDERING	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							

OUTLINE DIMENSIONS



Catalog Number	Discharge NPT	Α	В	С	D	E
PSP19S-T02	1"	20.1	15.5	2.0	21.5	2.3
PSP19T-T02	1"	16.1	15.5	2.0	27.8	3.9
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.

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CB5680WS

Pro-Source Steel Tanks



Universal Jet Pump to Tank Bracket SOLD SEPERATE

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	INFORMATI	ION								
Catalog	Maximum Capacity	Diameter*	Height	Length	Precharge	Connection Size	Drawdo	wn in Gallor	s/Liter	Weight
Number	Gal/Liter	Inch/cm	Inch/cm	Inch/cm	PSI/kPa	Female	20-40	30-50	40-60	lbs/kg
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	20/51	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 MO	DELS				
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
				HORI	ZONTAL MODE	LS				
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)

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Pro-Source® Steel Tanks

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 pump 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												
_	SY	SYSTEM PRESSURE SWITCH SETTING - PSI										
Pump GPM	20-	-40	30-	-50	40-60							
0111	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:	CHART B: DRAWDOWN VOLUME MULTIPLIER* (APPROX.)										
Pump Off	PUMP START PRESSURE – PSI										
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.

 $\textbf{PROCEDURE:} \quad \textbf{1. Identify drawdown multiplier relating to specific application}.$

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

Pump GPM x Min Runtime
Multiplier (X) = 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:

20 GPM x 1 minute

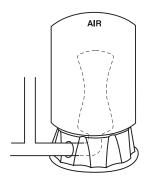
.24 (factor) from Chart B = 83.3 minimum U.S. gal. tank capacity required

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.

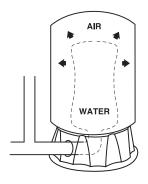
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Pro-Source Steel Tanks

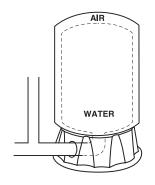
OPERATING CYCLE



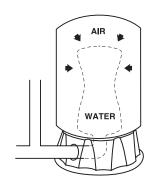
Separator is completely empty:
 A new cycle is ready to begin.
 Simple, positive action produces maximum drawdown on every cycle.



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.

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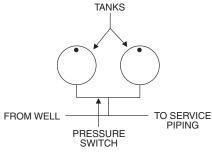


Figure 1

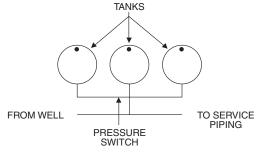
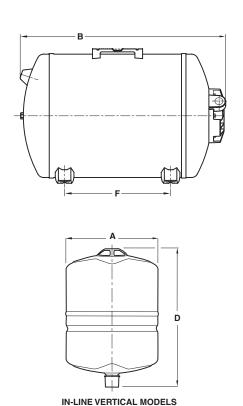


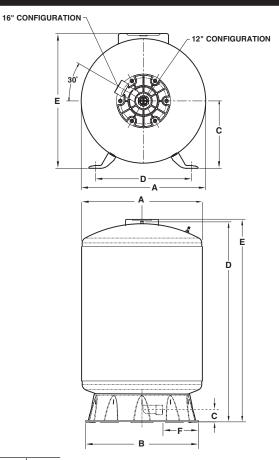
Figure 2

CB5530WS

Pro-Source Steel Tanks

OUTLINE DIMENSIONS





Catalog Number	Discharge NPT	Α	В	С	D	Е	F
VERTICAL MODE	LS						
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 VERTICA	L MODELS						
PS2-S01	3/4"	18.4	-	_	12.6	-	-
PS5-S02	3/4"	10.6	-	_	16.2	-	-
HORIZONTAL MO	DELS						
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.

CB5530WS

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Pro-Source® Air-Over-Water Tanks

Steel, epoxy-lined



The Pro-Source® Epoxy-Lined
Tank is an excellent corrosionresistant 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

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

Max liquid temperature = 120 deg F Max Operating Pressure = 75 PSI

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.

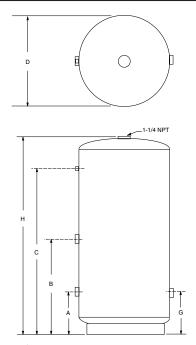
Sturdy Base: Bases for horizontal models are constructed of heavy-gauge steel, with slots for ventilation to avoid condensation problems.

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Pro-Source® Air-Over-Water Tanks

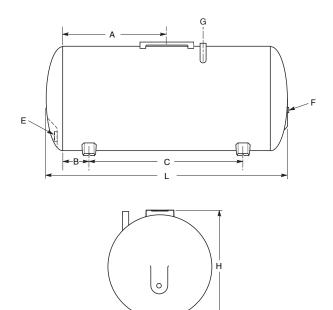
Steel, epoxy-lined

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 EPOXY-LINED TANKS

	VERTIONE ET ONT EINED TAINED											
Catalog Number Ga	0.11	Dimensions in Inches										
	Gallons	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 EPOXY-LINED TANKS

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

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	Capacity	Drav	vdown in Ga	llons					
Number	U.S. Gal.	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					



U238-5 Air Volume Controls (Jet pump type)

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E238-2 Air Volume Control (Submersible type)

CB5531WS

SSHM-2 Series

Multi-stage



The SSHM-2 multi-stage series of sprinkler pumps delivers high-performance without priming problems and delays.

The SSHM-2 multi-stage series is designed for minimal electrical consumption and quiet operation from the professional-grade motor. The SSHM-2 multi-stage series offers first-in-class priming capabilities of up to 15 foot lifts!

APPLICATIONS

Residential and commercial turf irrigation Residential water systems Shower and washing systems Water transfer Heating and air conditioning systems Water features and fountains

SPECIFICATIONS

Motor Bracket and Integral Pump Base: Close-grained cast iron, 1-1/2" NPT inlet connection, stable heavy-duty design for rigid pipe and solid base mountings

Discharge: Close-grained cast iron, 1-1/4" NPT discharge connection, with easy-access drain port for end of season draining and winterization

Impellers and Diffusers: Noryl® precision-molded extra-smooth ports to maximize efficiency and performance

Outer Shell: Polished 304 stainless steel

Shaft: 303 stainless steel

Priming Valve: Special brass priming valve for trouble-free operation during the initial pump priming

Mechanical Seal: High-pressure seal, carbon-ceramic seal faces, Buna-N elastomers

Heavy-Duty Motor: 2 HP, single-phase, 3450 RPM, 230-volt, high-service factor, capacitor-start/capacitor-run, open dripproof motor, rated for continuous-duty operation. 230/460 TEFC available

Maximum Inlet Pressure: 20 PSI

Maximum Discharge Pressure: 155 PSI

Maximum Operating Temperature: 120°F (49°C) Maximum Suction Lift: 15 feet Number of Stages: 3 or 4

ORDERING INFORMATION										
Catalog	Stages	НР	Pipe Tapp	ing Sizes	Motor Voltage	Approx. Wt.				
Number	Stayes	ПР	Suction	Discharge	Motor voltage	Lbs.				
B86073	3	2	1-1/2" NPT	1-1/4" NPT	230 1ø	95				
B86074	3	2	1-1/2" NPT	1-1/4" NPT	230/460 TEFC	95				
B82456-01	4	2	1-1/2" NPT	1-1/4" NPT	230 1ø	95				
B82639	4	2	1-1/2" NPT	1-1/4" NPT	230/460 TEFC	95				

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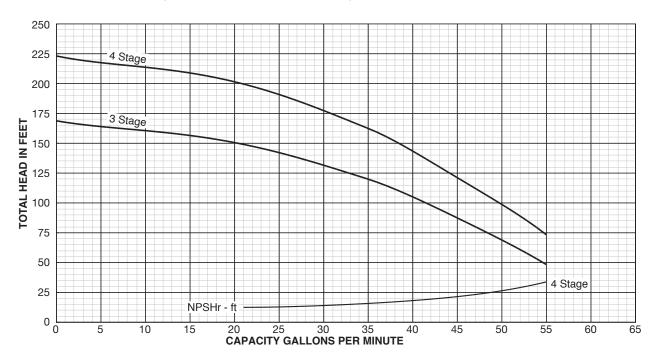
162 CB6044WS

SSHM-2 Series

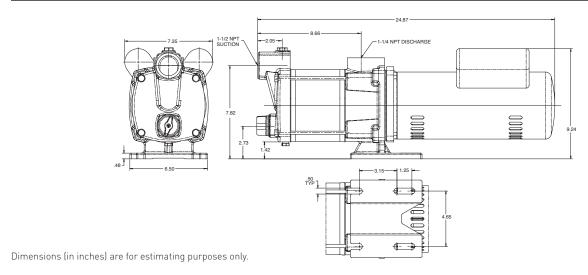
Multi-stage

PUMP PERFORMANCE

NOMINAL RPM: 3450, BASED ON FRESH WATER @ 68°F, MAXIMUM WORKING PRESSURE: 175 PSI



OUTLINE DIMENSIONS



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LTHH Series

Self-priming centrifugal



The LTHH Series* of cast iron sprinklers offers superior unmatched performance, available in 1 HP through 2-1/2 HP models.

The LTHH models offer "single-bodyfill" priming to 25-foot lifts, in less than 5 minutes!

The LTHH models exceed the strict safety requirements of Underwriters Laboratories UL778, and CSA. Required by many state and local codes.

The LTHH models are completely interchangeable with the original

LTH Series models, saving costly plumbing "change-out" dollars and installation headaches!

*Single- and three-phase available

APPLICATIONS

Residential irrigation pump...can be safely operated by timer or other automatic device

Contractors...for dewatering excavation, water transfer and supply

Agriculture...seed bed and plot irrigation, stock watering

Industrial...sump drainage, marine pumping, liquid transfer and supply operations

SPECIFICATIONS

Body and Seal Plate: Close-grained

cast iron

Impeller: Noryl®

Diffuser: Reinforced polypropylene

Shaft: One-piece threaded 300 grade

stainless steel

Base: Steel, 10 gauge **Motor:** 2-compartment

FEATURES

Rugged Construction: Close-grained cast iron body, specially treated for corrosion resistance.

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

Precision-Molded Diffuser: Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

High Head Models: Deliver up to 145' of head with capacities to 95 GPM.

Easy Serviceability: Normal wearing parts are easily accessible for service and replacement, without disturbing piping or mounting.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...ensures prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency, dynamically balanced.

Drain Port: Provided for easy winterizing.

Max. Operating Pressure: 100 PSI

ORDERING INFORMATION

ORDERING	I OILI	ATION							
			High Hea	d					
Catalog	un	Voltage	Dhasa	Pipe Tap	Pipe Tapping Sizes				
Number	HP	Voltage	Phase	Suction	Discharge	Wt. Lbs.			
10LTHH	1	115/230	1	2"	1-1/2"	52			
10LTHH3	1	208-230/460	3	2"	1-1/2"	52			
10LTHH3-575T	1	115/230	3	2"	1-1/2"	57			
15LTHH	1-1/2	208-230/460	1	2"	1-1/2"	58			
15LTHH3	1-1/2	115/230	3	2"	1-1/2"	58			
15LTHH3-575T	1-1/2	208-230/460	3	2"	1-1/2"	63			
20LTHH	2	115/230	1	2"	2"	83			
20LTHH3	2	208-230/460	3	2"	2"	83			
20LTHH3-575T	2		3	2"	2"	88			
25LTHH	2-1/2		1	2"	2"	85			
25LTHH3	2-1/2		3	2"	2"	85			
25LTHH3-575T	2-1/2		3	2"	2"	90			

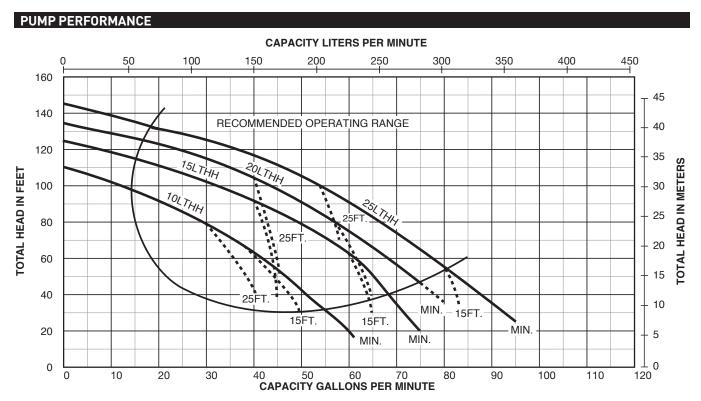
NOTE: All single-phase motors shipped from the factory set at 230 volt.

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164 CB5563WS

LTHH Series

Self-priming centrifugal



NOTE: Dotted lines indicate performance reduction at high suction lift.

PUMP PE	RFORMAN	CE (Capacity in	gallons per minu	te)								
Catalog			Pressure	Suction Lift in Feet								
Number	HP	PSI	Feet Head	5'	10'	15'	20'	25'				
		20	46.2	48	45	40	37	33				
10LTHH 1	30	69.3	33	30	26	22	16					
		40	92.4	15	10	_	_	_				
		20	46.2	64	62	60	57	54				
15LTHH	1-1/2	30	69.3	53	50	46	42	37				
		40	92.4	35	30	25	19	_				
		20	46.2	72	70	67	65	62				
201 71111	2	30	69.3	60	58	54	51	47				
20LTHH	_ Z	40	92.4	45	42	37	30	27				
		50	115.5	23	16	_	_	_				
		20	46.2	83	80	77	74	71				
25LTHH 2-1/	2 1/2	30	69.3	70	67	63	60	55				
	Z-1/Z	40	92.4	56	52	48	40	35				
		50	115.5	36	28	20	_	_				

Tested and rated in accordance with Water Systems Council Standards.

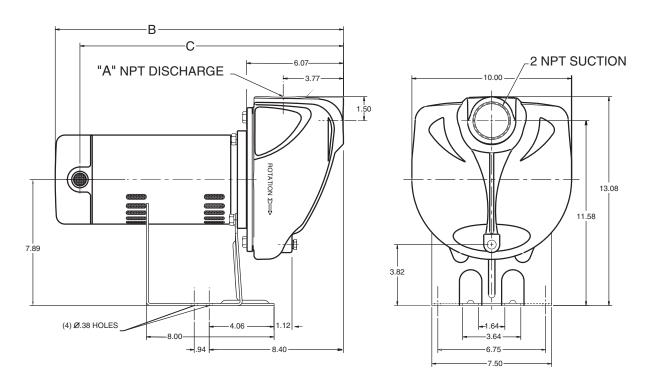
NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

165 CB5563WS

LTHH Series

Self-priming centrifugal

OUTLINE DIMENSIONS



Catalog Number	A NPT	В	С
10LTHH	1-1/2" NPT	17.04	16.57
10LTHH3	1-1/2" NPT	15.45	15.04
10LTHH3-575T	1-1/2" NPT	17.35	13.29
15LTHH	1-1/2" NPT	18.10	17.63
15LTHH3	1-1/2" NPT	15.95	15.45
15LTHH3-575T	1-1/2" NPT	18.60	14.54
20LTHH	2" NPT	18.54	18.38
20LTHH3	2" NPT	18.22	16.75
20LTHH3-575T	2" NPT	16.95	14.85
25LTHH	2" NPT	18.85	18.69
25LTHH3	2" NPT	17.69	17.50
25LTHH3-575T	2" NPT	18.91	14.85

Dimensions (in inches) are for estimating purposes only.

166 CB5563WS

BPD Series

Corrosion-resistant, self-priming sprinkler pumps



Quick priming BPD 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

Lawn and landscape sprinkling; self-primer out of tanks or cisterns. Light chemical transfer for compatible fluids.

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ORDERING	ORDERING INFORMATION											
Catalog	НР	Pipe Tapp	oing Sizes	Motor Voltage	Approx. Wt.							
Number	ПР	Suction	Discharge	Motor voltage	Lbs.							
BPDH10	1	2"	1-1/2"	115/230	38							
BPDH15	1-1/2	2"	1-1/2"	115/230	41							
BPDH20	2	2"	2"	115/230	52							
BPHD25	2-1/2	2"	2"	115/230	54							

NOTE: All motors are shipped from the factory set at 230 volt.

SPECIFICATIONS

Body and Base: Fiberglassreinforced thermoplastic **Impeller:** Engineered polymer

Diffuser: Polypropylene

Shaft: 300 grade stainless steel

FEATURES

Quality Construction: Fiberglass-reinforced thermoplastic provides total corrosion resistance and high resistance to sandy water.

Lightweight Design: Space-age materials make these pumps more portable than conventional cast iron pumps.

Composite Impeller: Highest performance and efficiency from ultrasmooth materials Precision-Molded for perfect balance.

Easily Serviced: Normal wearing parts are easily accessible for service and replacement, without disturbing piping or mounting.

Dustproof Cover: Electrical components protected from dust and insects.

Heavy-Duty Motor: Heavy-duty 1 through 2-1/2 HP motors. Designed for continuous operation. Stainless steel shaft.

Dual Voltage Capability: 1 and 1-1/2 HP motors have dual voltage motors and are shipped at the 230-volt setting. 2 and 2-1/2 HP are 230-volt setting only.

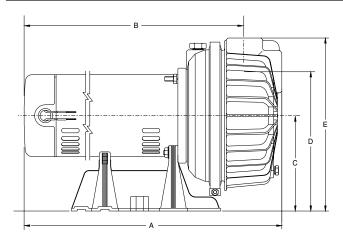
Max. Operating Pressure: 60 PSI

CB4870WS

BPD Series

Corrosion-resistant, self-priming sprinkler pumps

OUTLINE DIMENSIONS

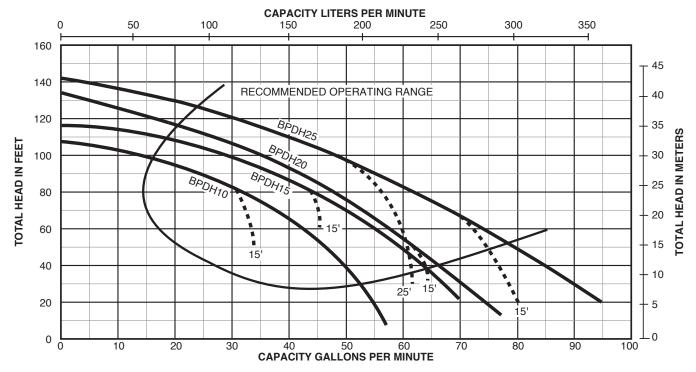


Catalog Number	Α	В	С	D	E
BPDH10	17-5/8	15-1/8	6-9/16	9-9/16	11-13/16
BPDH15	18-3/4	16-1/4	6-9/16	9-9/16	11-13/16
BPDH20	20	16-3/16	6-9/16	8-7/8	12-3/8
BPDH25	20	16-3/16	6-9/16	8-7/8	12-3/8

Dimensions (in inches) are for estimating purposes only.

PERFOF	PERFORMANCE (Capacity in gallons per minute)																			
Disch.			H10 –			BPDH15 – 1.5 HP BPDH20 – 2 HP						BPDH25 - 2.5 HP								
Press.		Distance Above Water																		
PSI	5'	10'	15'	20'	25'	5'	10'	15'	20'	25'	5'	10'	15'	20'	25'	5'	10'	15'	20'	25'
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



NOTE: Dotted lines indicate performance reduction at high suction lift.

168 CB4870WS

Self-priming centrifugal pumps





Suction flange with flapper check included.



Some of the fastest priming pumps on the market. Available in high head or medium head series. Features mechanical seals, easy service design, heavy-duty motors, rugged construction. Available in 3 and 5 HP.

Optional 6" and 8" Trap Packages are available.

APPLICATIONS

Lawn Sprinkling... operate from 1 to 30 or more heads. Can be safely operated by timer or other automatic device.

Contractors...for dewatering excavation, jetting, water transfer and supply operations.

Agriculture...seed bed and plot irrigation, stock watering, fire protection.

Industrial...sump drainage, fire protection, marine pumping, liquid transfer and supply operations.

SPECIFICATIONS

Body and Base: Close-grained

cast iron

Impeller: Bronze
Diffuser: Cast iron

Shaft: Carbon steel inside removable shaft sleeve of stainless steel.

Max Inlet Pressure: 20 PSI

Max Discharge Pressure: 100 PSI

Max Liquid Temperature: 60°C/140°F

Max Ambient Air Temperature:

40°C/104°F

FEATURES

3 and 5 HP: Both high head and medium head models offer heavy-duty motors, easy service design, and air volume control tapping.

Drain Port: Provided for easy winterizing. **Medium Head Models:** Deliver up to 115'

of head with capacities to 159 GPM.

High Head Models: Deliver up to 138' of head with capacities to 162 GPM.

Easy Serviceability: Normal wearing parts are easily accessible for service and replacement, without disturbing piping or mounting.

Heavy-Duty Motors: Designed for continuous operation. Capacitor start, will not cause electrical interference with TV or other appliances. Nationally known motors have ball bearing, stainless steel shaft. For single- and three-phase operation, 3450 RPM.

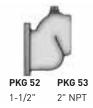
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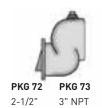
Self-priming centrifugal pumps

ORDERING	INFORMA [*]	TION					
			HIGH HEAI)			
Catalog	HP	Pipe Tapp	ing Sizes	Motor Voltage	Phase	Max. Load	Approx. Wt. Lbs.
Number	пР	Suction Flanges	Top Discharge	Motor voltage	Phase	Amps	Approx. wt. Lbs.
S40094	3	2"	1-1/2"	230	1	13.4	144
S40093	3	2"	1-1/2"	208-230/460	3	8.6/4.3	144
S40097	5	2-1/2"	2"	230	1	22	184
S40096	5	2-1/2"	2"	208-230/460	3	13.2/6.6	184
			MEDIUM HE	AD			
S40100	3	2-1/2"	2"	230	1	13.4	137
S40099	3	2-1/2"	/2"	208-230/460	3	8.6/4.3	137
S40102	5	3"	2-1/2"	230	1	22	184
S40103	5	3"	2-1/2"	2230/460	3	13.2/6.6	184

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SUCTION FLANGES (Order separately – required for suction tap sizes)									
Package 52 -	Package 53 -	Package 72 -	Package 73 -						
1-1/2" 2" 2-1/2" 3"									



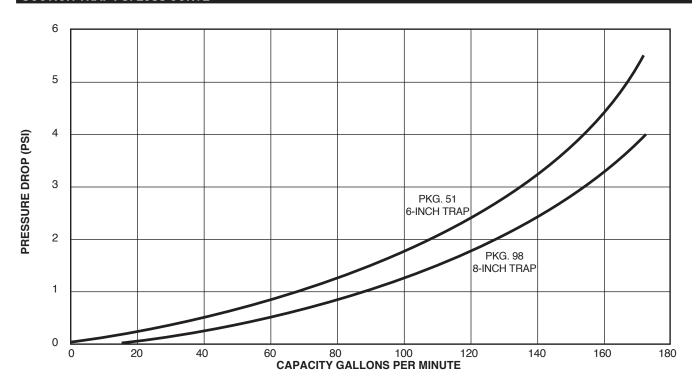


Self-priming centrifugal pumps

6" AND 8" TRAP PACKAGES											
Catalog Number	Description	Suction Port Size	Approx. Wt. Lbs.								
PKG 51	6" Cast Iron Trap with Basket (For C, CC, and D Series Pumps)	2" NPT	20								
PKG 76	Cast Iron Flange for Remote Installation	3" NPT	4								
PKG 98	8" Cast Iron Trap with Basket (For C, CC, and D Series Pumps)	3" NPT	40								

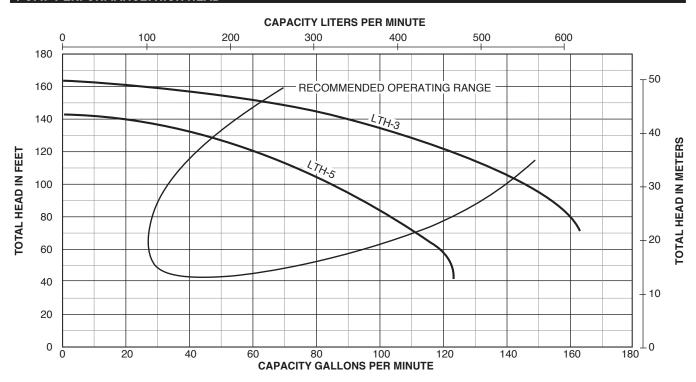


SUCTION TRAP PSI LOSS CURVE



Self-priming centrifugal pumps

PUMP PERFORMANCE: HIGH HEAD

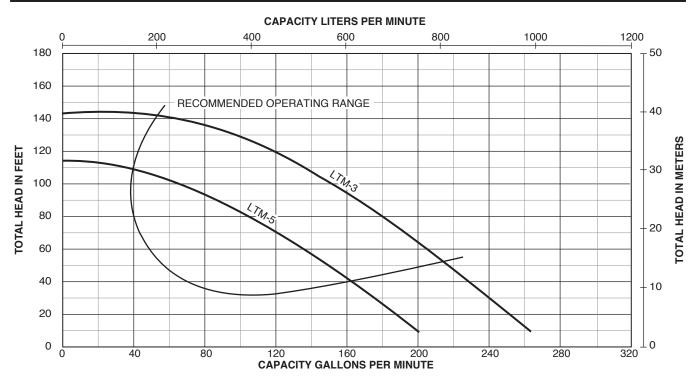


PUMP PERF	UMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)												
	LTH HIGH HEAD												
Cat. No.	НР	Discl	narge		S	uction Lift in Fe	et						
Cat. No.	пР	PSI	Feet Head	5'	10'	15'	20'	25'					
		20	46.2	121	119	105	96	68					
S40094/	3	30	69.3	106	103	98	92	66					
S40093	3	40	92.4	85	80	74	69	60					
		50	115.5	58	51	42	32	13					
		20	46.2	162	161	138	138	98					
		30	69.3	160	158	150	136	98					
S40097/ S40096	5	40	92.4	146	141	136	130	96					
540070		50	115.5	119	114	105	95	85					
		60	138.6	81	70	55	30	-					

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Self-priming centrifugal pumps

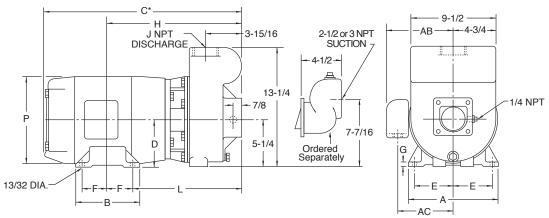
PUMP PERFORMANCE: MEDIUM HEAD



PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE) LTH MEDIUM HEAD Suction Lift in Feet Discharge Cat. No. HP PSI Feet Head 5' 10' 15' 20' 25' 46.2 S40099/ 69.3 S40100 92.4 46.2 69.3 S40102/ S40103 92.4 115.5

Self-priming centrifugal pumps

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

DIMENSIONS IN INCHES														
Catalog Number	HP	Α	В	C*	D	Е	F	G	Н	J	L	Р	AB	AC
LTH	3	9	6	20-3/4	4-1/2	3-3/4	2-1/4	1/2	15	1 - 1/2"	12-3/4	9-3/4	8-1/8	6-1/2
LTH	5	9	7	21-3/4	4-1/2	3-3/4	2-3/4	1/2	15-1/2	2"	12-3/4	9-3/4	9	7
LTM	3	9	6	20-3/4	4-1/2	3-3/4	2-1/4	1/2	15	2"	12-3/4	9-3/4	8-1/8	6-1/2
LTM	5	9	7	21-3/4	4-1/2	3-3/4	2-3/4	1/2	15-1/2	2 - 1/2"	12-3/4	9-3/4	9	7

^{*}Overall length (C) is shown for single-phase motors. Three-phase motors are slightly smaller. Dimensions are for estimating purposes only.

^{**}Pump body has additional built in 1-1/2" NPT side discharge tap.

Type C Straight Centrifugal



The Type C Pump is a compact, horizontal, single stage, centrifugal pump close-coupled to an electric motor. The removal of readily accessible bolts (back pull-out construction), permits the removal of the pumping element, exposing the impeller and seal for inspection, without disturbing the piping.

APPLICATIONS

General farm or home irrigation, air conditioning and refrigeration

SPECIFICATIONS

Body and Base – Gray cast iron
Bracket – Cast iron
Impeller – Silicon bronze
Shaft – Threaded stainless steel

ORDERING II	NFOF	RMATION					
Model Number	НР	Catalog Number	Phase	Volts	Suct.	Disch.	Approx. Wt. Lbs.
		B53602S	1	230			
C1-1/4TPMS	3	B53603S	3	208/230/460	1-1/2"	1-1/4"	55
		B53603SMS2	3	575			
		B59212S	1	230			
C1-1/2TPMS	3	B59213S	3	208/230/460	2"	1-1/2"	56
		B59213SMS2	3	575			
		B53616S	1	230			
C2MPS	3	B53617S	3	208/230/460	2-1/2"	2"	58
		B53617SMS2	3	575			

FEATURES

Flow Rates – To 160 U.S. gallons per minute.

Discharge sizes – 1-1/4" through 2".

Temperature – Applications up to 200°F

Manufacture – Carefully manufactured with materials best suited for water pump applications assures a unit with long life and dependability.

Bracket – Sturdy cast iron bracket houses seal and maintains positive alignment between motor and volute case.

Volute Case – Precision machined gray cast iron, with NPT tapped openings for suction and discharge. Standard discharge position is horizontal, as pictured. Volute may be rotated for vertical-up discharge.

Impeller – Enclosed multi-vane silicon bronze impeller is balanced to eliminate vibration and provide smooth, quiet operation. Impeller is threaded on motor shaft for positive alignment.

Shaft Seal - Self-adjusting, water-cooled, mechanical shaft seal prevents leakage and eliminates need for drain piping. Run-in and periodic adjustment is not required.

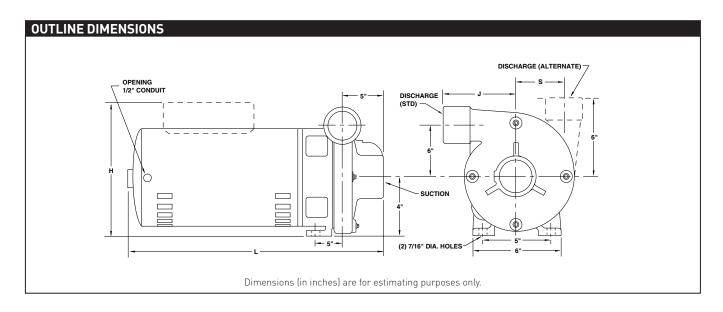
Motor Shaft – Stainless steel shaft is threaded for direct mounting of impeller. Shaft extension to impeller is short to increase shaft rigidity and to extend bearing life.

Motor – Heavy-duty, 3 HP, flange-mounted, motor designed for continuous 3600 RPM operation.
Two ball bearings are permanently lubricated, eliminating the need for re-lubrication service. Open, drip-proof enclosures are standard. All models can be furnished with either single-phase (230V) or three-phase (230/460) motors. Totally enclosed fan-cooled motor is available for three-phase power.

Max. Operating Pressure - 100 PSI

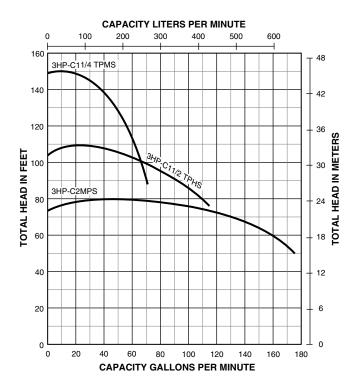
175 S5040WS

Type C Straight Centrifugal



DIMENSIONAL DATA										
Model Number	HP	Suction (NPT)	Discharge Phase	H*	J	K	L*	S	М	
C1-1/4TPMS	3	1-1/2	1-1/4	9-1/4	5	2-1/2	16-15/16	3-5/16	1-7/8	
C1-1/2TPHS	3	2	1-1/2	8-1/4	5	2-11/16	17-1/4	3-1/2	2	
C2MPS	3	2-1/2	2	9-1/4	4-7/8	2-5/16	17-1/4	3-1/16	2-7/16	

PUMP PERFORMANCE



176 S5040WS

ECC5 Series

Self-priming centrifugal pump





The ECC5 Series self-priming centrifugal pump is a rugged cast iron pump capable of priming up to 20' vertically and will handle solids up to 0.225" diameter. The unit is equipped with a 1/2 HP 115-volt motor and features 1-1/4" suction and discharge.

APPLICATIONS

Effluent and Wastewater Removal
Sump Drainage
Dewatering
Circulation
Fountains

SPECIFICATIONS

Volute: Cast iron

Impeller: Polycarbonate **Diffuser:** Thermoset

Shaft: One-piece threaded stainless steel

Base: Steel 12 gauge

Maximum Liquid Temperature Limits:

130°F (55°C)

FEATURES

Motor: 1/2 HP, 3450 RPM, 115-volt split phase, 60 Hz. Built-in thermal overload protection with automatic reset.

Mechanical Seal: Buna-N elastomers, carbon and ceramic sealing faces, stainless steel metal part.

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

Built-in Convenience: Comes complete with built-in overload protection with automatic reset and a built-in check valve.

Power Cord: 10', 115 volt.

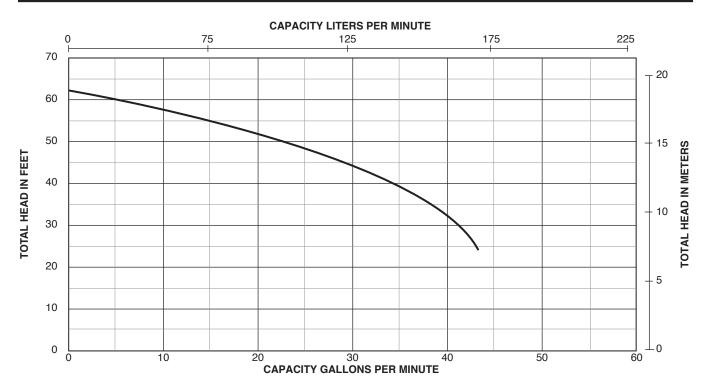
ORDERING INFORMATION									
Catalog Number	HP	Volts	Phase/Cycles						
ECC5510MB	1/2	115	1/60						

177 CB5636WS

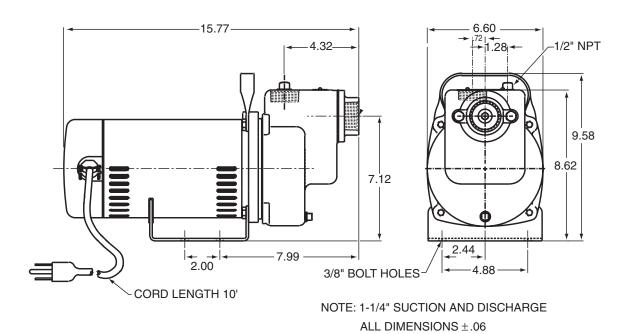
ECC5 Series

Self-priming centrifugal pump

PUMP PERFORMANCE



OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

178 CB5636WS

SSCXN Series - Stainless Steel



The SSCXN Series Centrifugal Pumps feature high-head performance and quiet operation. These pumps are remarkably versatile and have corrosion-resistant dependability.

APPLICATIONS

Ideal choice for a wide range of pump applications and varying temperature conditions

SPECIFICATIONS

Pump Body - Stainless steel Impeller - Noryl* Multiple Seal Options

FEATURES

Stainless Steel Housing and Shaft -

Maximum corrosion resistance in chemical as well as water applications; smooth flow path assures quiet operation.

High Temperature Rating – The SSCXN Series centrifugal pumps are designed for temperatures up to 185°F.

Mechanical Shaft Seal – Precision lapped and highly polished carbonceramic, stainless steel construction with buna elastomers; delivers long-life reliability.

Multiple Seal Options – Choice of three seal options to meet a wide variety of pump applications.

- The standard seal in a SSCX Series is a Buna carbon/ceramic. The volute uses a Buna O-ring to seal the pumping chamber sections.
- Viton with carbon/ceramic faces, includes Viton O-ring change out in pump volute.
- Viton with carbon/silicon carbide faces, includes Viton O-ring change out in pump volute.

Noryl* Composite Impeller – Precision molded for perfect balance and lasting quality; ultra-smooth flow ports maximize performance and efficiency. 304SS impeller insert for increased durability.

Drain/Vent Ports – Priming and draining is easier, faster.

Max. Operating Pressure - 125 PSI

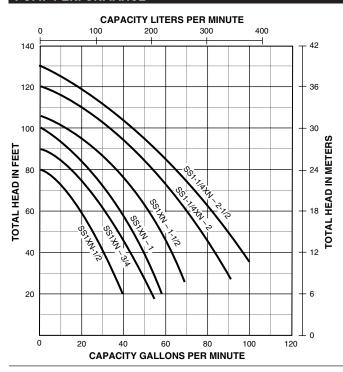
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179 CB2051WS

SSCXN Series - Stainless Steel

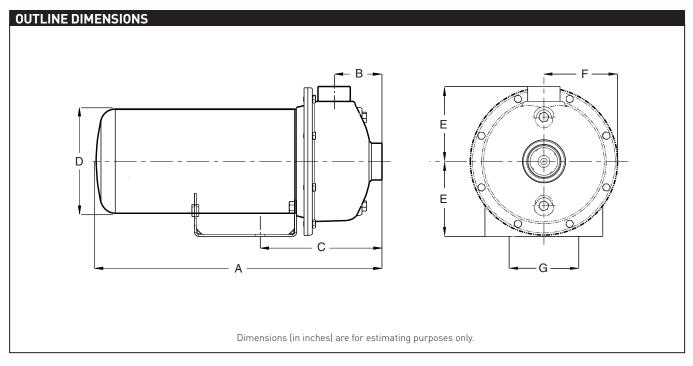
ORDERING INFO	RMATION							
MODEL NUMBER	CATALOG NUMBER	HP	SUCTION	DISCHARGE	MOTOR VOLTAGE	PHASE	ENCLOSURE	APPROX. WT. LBS.
	B78635				115/230	1	ODP	29
SS1XN-1/2	B78636	1/2	1-1/4"	1"	230/460	3	ODP	29
551XIN-1/2	B78647	1/2	1-1/4	'	115/230	1	TEFC	32
	B78648				230/460	3	TEFC	32
	B78637				115/230	1	ODP	38
CC1VN 2//	B78638	2//	1 1//"	1"	230/460	3	ODP	38
SS1XN-3/4	B78649	3/4	1-1/4"	'	115/230	1	TEFC	41
	B78650				230/460	3	TEFC	41
	B78639				115/230	1	ODP	47
CC1VN 1	B78640	1	1 1//"	1"	230/460	3	ODP	47
SS1XN-1	B78651	l	1-1/4"		115/230	1	TEFC	50
	B78652				230/460	3	TEFC	50
	B78641				115/230	1	ODP	62
CC1VN 1 1/0	B78642	1 1/0	4 4 / / !!	4.11	230/460	3	ODP	62
SS1XN-1-1/2	B78653	1-1/2	1-1/4"	1"	115/230	1	TEFC	65
	B78654				230/460	3	TEFC	65
CC1 1//VN 0	B78643	2	1 1/0"	1 1//"	230	1	ODP	77
SS1-1/4XN-2	B78644	2	1-1/2"	1-1/4"	230/460	3	ODP	77
CC1 1//VN 2 1/2	B78645	2 1/2	1 1/0"	1 1//"	230	1	ODP	90
SS1-1/4XN-2-1/2	B78646	2-1/2	1-1/2"	1-1/4"	230/460	3	ODP	90

PUMP PERFORMANCE



180 CB2051WS

SSCXN Series - Stainless Steel



DIMENSI	ONS IN INC	HES - SSC	XN OPD							
HP	NPT Suct.	NPT Disch.	A (1 phase)	A (3 phase)	В	С	D	Е	F	G
1/2	1-1/4	1	13.2	13.5	2.43	6.51	5.63	4.13	4.06	4.875
3/4	1-1/4	1	13.2	13.5	2.43	6.51	5.63	4.13	4.06	4.875
1	1-1/4	1	14.2	14.0	2.43	6.51	5.63	4.13	4.06	4.875
1-1/2	1-1/4	1	14.5	14.5	2.43	6.51	5.63	4.13	4.06	4.875
2	1-1/2	1-1/4	16.0	15.7	2.63	6.71	5.63	4.13	4.06	4.875
2-1/2	1-1/2	1-1/4	16.9	16.4	2.63	6.71	5.63	4.13	4.06	4.875

DIMENSI	ONS IN INC	HES - SSC	XN TEFC							
HP	NPT Suct.	NPT Disch.	A (1 phase)	A (3 phase)	В	С	D	Е	F	G
1/2	1-1/4	1	14.0	14.2	2.43	6.51	6.44	4.13	4.06	4.875
3/4	1-1/4	1	14.9	14.2	2.43	6.51	6.44	4.13	4.06	4.875
1	1-1/4	1	15.7	15.2	2.43	6.51	6.44	4.13	4.06	4.875
1-1/2	1-1/4	1	16.2	15.2	2.43	6.51	6.44	4.13	4.06	4.875

181 CB2051WS

General purpose centrifugal pumps



The CP/CB Series Pumps have a heavyduty cast iron construction and are offered in high and medium head models, with Noryl® or silicon bronze impeller.

APPLICATIONS

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

SPECIFICATIONS

Body and Seal Plate: Close-grained cast iron

Base: Steel 12 gauge

Impeller: CP Series – Noryl Impeller: CB Series - Brass Shaft: 416 stainless steel

Mechanical Seal: Carbon/ceramic,

Buna-N

FEATURES

1/3 through 2-1/2 HP: High head and medium head models, with heavy-duty motors, easy service design and fourposition discharge.

Drain Port: Provided for easy winterizing.

Medium Head Models: Deliver up to 110' of head with capacities to 140 GPM.

High Head Models: Deliver up to 140' of head with capacities to 90 GPM.

Easy Serviceability: All models include replaceable wear ring and feature back pull-out design.

CP Series with Noryl Impellers:

Abrasion-resistant for normal applications with working temperatures to 140°F.

CB Series with Silicon Bronze:

JB pumps equipped with shaft seals rated for temperatures to 225°F.

Max. Operating Pressure: 100 PSI

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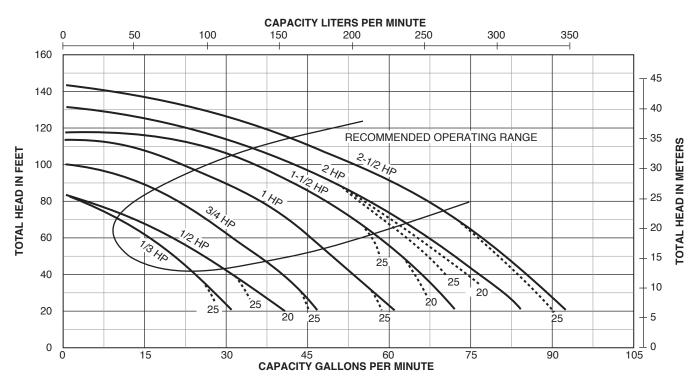
CP/CB Series General Purpose

General Purpose - Cast Iron

IGH HEAD		C::: P	nze Impeller			I			
Noryl° I Model	Catalog	Model Model	Catalog	-	Pipe Tapp	ing Sizes	Motor		Approx. Wt.
Number	Number	Number	Number	НР	Suct.	Disch.	Voltage	Phase	Lbs.
CP1XPHS	S39516	CB1XPHS	S39529		1-1/4"	1"	115/230	1	39
CP1XPHS	S39517	CB1XPHS	S39530	1/2	1-1/4"	1"	208-230/460	3	39
CP1XPHS	S39517-575T	CB1XPHS	S39530-575T	1	1-1/4"	1"	575	3	40
CP1XPHS	S39518	CB1XPHS	S39531		1-1/4"	1"	115/230	1	42
CP1XPHS	S39519	CB1XPHS	S39532	3/4	1-1/4"	1"	208-230/460	3	42
CP1XPHS	S39519-575T	CB1XPHS	S39532-575T		1-1/4"	1"	575	3	43
CP1XPHS	S39520	CB1XPHS	S39533		1-1/4"	1"	115/230	1	45
CP1XPHS	S39521	CB1XPHS	S39534	1	1-1/4"	1"	208-230/460	3	45
CP1XPHS	S39521-575T	CB1XPHS	S39534-575T		1-1/4"	1"	575	3	46
CP1XPHS	S39522	CB1XPHS	S39535		1-1/4"	1"	115/230	1	49
CP1XPHS	S39523	CB1XPHS	S39536	1-1/2	1-1/4"	1"	208-230/460	3	49
CP1XPHS	S39523-575T	CB1XPHS	S39536-575T		1-1/4"	1"	575	3	50
CP1-1/4TPHS	S39524	CB1-1/4TPHS	S39537		1-1/2"	1-1/4"	230	1	69
CP1-1/4TPHS	S39525	CB1-1/4TPHS	S39538	2	1-1/2"	1-1/4"	208-230/460	3	69
CP1-1/4TPHS	S39525-575T	CB1-1/4TPHS	S39538-575T		1-1/2"	1-1/4"	575	3	70
CP1-1/2TPHS	S39526	CB1-1/2TPHS	S39539		2"	1-1/2"	230	1	74
CP1-1/2TPHS	S39527	CB1-1/2TPHS	S39540	2-1/2	2"	1-1/2"	208-230/460	3	74
CP1-1/2TPHS	S39527-575T	CB1-1/2TPHS	S39540-575T		2"	1-1/2"	575	3	75
EDIUM HEAD									
Noryl° I	mpeller	Silicon Bror	ze Impeller		Pipe Tapp	ing Sizes			Approx.
Model	Catalog	Model	Catalog	1	. ipe rapp	1119 01200	Motor		Wt.
Number	Number	Number	Number	HP	Suct.	Disch.	Voltage	Phase	Lbs.
CP1MPS	S39489	-	-	1/3	1-1/4"	1"	115	1	39
CP1MPS	S39490	CB1MPS	S39503	1/0	1-1/4"	1"	115/230	1	39
CP1MPS	S39491	CB1MPS	S39504	1/2	1-1/4"	1"	208-230/460	3	39
CP1MPS	S39491-575T	CB1MPS	S39504-575T		1-1/4"	1"	575	3	40
CP1MPS	S39492	CB1MPS	S39505		1-1/4"	1"	115/230	1	42
CP1MPS	S39493	CB1MPS	S39506	3/4	1-1/4"	1"	208-230/460	3	42
CP1MPS	S39493-575T	CB1MPS	S39506-575T		1-1/4"	1"	575	3	43
CP1-1/4XPS	S39494	CB1-1/4XPS	S39507	1	1-1/2"	1-1/4"	115/230	1	43
CP1-1/4XPS	S39495	CB1-1/4XPS	S39508	1	1-1/2"	1-1/4"	208-230/460	3	43
CP1-1/4XPS	S39495-575T	CB1-1/4XPS	S39508-575T		1-1/2"	1-1/4"	575	3	44
CP1-1/4XPS	S39496	CB1-1/4XPS	S39509	/ .	1-1/2"	1-1/4"	115/230	1	54
CP1-1/4XPS	S39497	CB1-1/4XPS	S39510	1-1/2	1-1/2"	1-1/4"	208-230/460	3	54
CP1-1/4XPS	S39497-575T	CB1-1/4XPS	S39510-575T		1-1/2"	1-1/4"	575	3	55
CP1-1/4XPS	S39498	CB1-1/4XPS	S39511	1	1-1/2"	1-1/4"	230	1	66
CP1-1/4XPS	S39499	CB1-1/4XPS	S39512	2	1-1/2"	1-1/4"	208-230/460	3	66
CP1-1/4XPS	S39499-575T	CB1-1/4XPS	S39512-575T		1-1/2"	1-1/4"	575	3	67
		CB1-1/2XPS	S39513	0.4/0	2"	1-1/2"	230	1	74
			L COOF4/	1 7 177					П.
		CB1-1/2XPS CB1-1/2XPS	S39514 S39514-575T	2-1/2	2"	1-1/2" 1-1/2"	208-230/460 575	3	74 75

General purpose centrifugal pumps

PUMP PERFORMANCE: HIGH HEAD



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NOTE: Dotted lines indicate performance reduction at high suction lift.

PUM	P PER	FORMAN	CE (Cap	acity in g	allons pe	er minute	e)	
			HIGH	HEAD				
НР		Discharge Dynamic Suction Lift						
	PSI	Feet Head	5'	10'	15'	20'	25'	
	10	23.1	_	26	24	22	20	
1/3	20	46.2	20	18	15	11	10	
	30	69.3	6	_	_	_	_	
	10	23.1	-	34	32	29	26	
1/2	20	46.2	25	21	18	15	11	
	30	69.3	10	_	_	_	_	
	10	23.1	_	_	42	39	37	
3/4	20	46.2	35	32	30	28	26	
	30	69.3	24	22	19	15	10	
	20	46.2	48	46	45	43	40	
1	30	69.3	38	35	31	28	25	
	40	92.4	23	20	15	_	_	

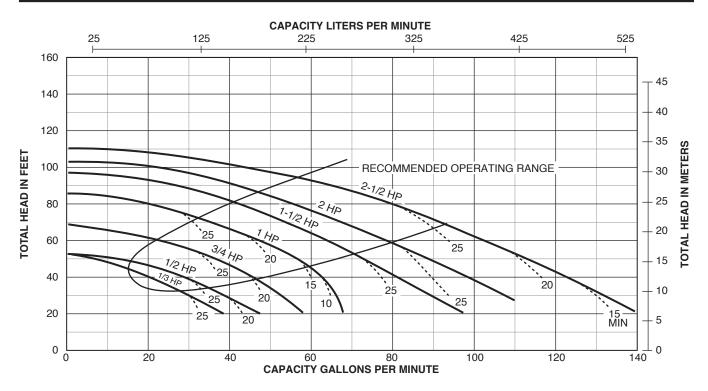
PUM	UMP PERFORMANCE (Capacity in gallons per minute)										
			HIGH	HEAD							
НР		scharge essure		Dynamic Suction Lift							
	PSI	Feet Head	5'	10'	15'	20'	25'				
	20	46.2	62	60	58	55	52				
1-1/2	30	69.3	50	48	44	40	37				
	40	92.4	37	32	29	22	_				
	20	46.2	71	68	66	62	60				
2	30	69.3	60	57	52	59	45				
2	40	92.4	45	40	36	31	24				
	50	115.5	22	15	_	_	_				
	20	46.2	81	79	76	74	71				
2-1/2	30	69.3	69	67	63	60	56				
Z-1/Z	40	92.4	56	51	47	44	38				
	50	115.5	33	30	22	15	_				

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.

General purpose centrifugal pumps

PUMP PERFORMANCE: MEDIUM HEAD



NOTE: Dotted lines indicate performance reduction at high suction lift.

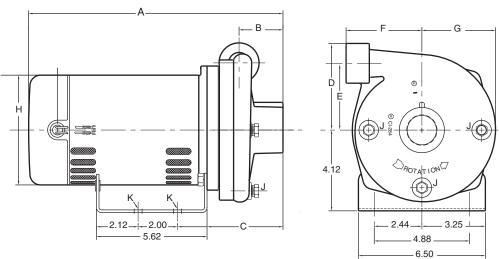
			MEDIU	M HEAD					
НР	Discharge Pressure		Dynamic Suction Lift						
	PSI	Feet Head	5'	10'	15'	20'	25'		
1/3	10	23.1	32	27	18	_	_		
1/3	20	46.2	_	_	_	_	_		
1/0	10	23.1	40	37	32	27	17		
1/2	20	46.2	_	_	_	_	_		
2//	10	23.1	_	50	46	42	32		
3/4	20	46.2	37	29	21	_	_		
1	20	46.2	54	51	44	40	33		
1	30	69.3	33	28	18	_	_		
1 1/0	20	46.2	71	69	62	57	51		
1-1/2	30	69.3	52	47	34	30	20		
	20	46.2	88	84	78	70	66		
2	30	69.3	67	60	50	45	40		
	40	92.4	25	13	_	_	_		
	20	46.2	111	106	101	95	90		
2-1/2	30	69.3	90	83	77	70	60		
	40	92.4	46	38	20	_	_		

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.

General purpose centrifugal pumps

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

					DIME	NSIONS	(IN INC	HES)					
						HIGH H	EAD						
НР	NPT Suct.	NPT Disch.	A (1 Phase)	A (3 Phase)	В	С	D	E	F	G	Н	NPT J	К
1/3	1-1/4	1	13	13-3/8	2-1/16	5-9/16	4-1/2	3-7/16	3-7/8	3-15/16	5-5/8	1/4	3/8 Dia.
1/2	1-1/4	1	11-21/32	13-3/8	2-1/16	5-9/16	4-1/2	3-7/16	3-7/8	3-15/16	5-5/8	1/4	3/8 Dia.
3/4	1-1/4	1	11-25/32	13-3/8	2-1/16	5-9/16	4-1/2	3-7/16	3-7/8	3-15/16	5-5/8	1/4	3/8 Dia.
1	1-1/4	1	12-25/32	13-7/8	2-1/16	5-9/16	4-1/2	3-7/16	3-7/8	3-15/16	5-5/8	1/4	3/8 Dia.
1-1/2	1-1/4	1	13-39/64	14-3/8	2-1/16	5-9/16	4-1/2	3-7/16	3-7/8	3-15/16	5-5/8	1/4	3/8 Dia.
2	1-1/2	1-1/4	16-3/4	16-15/16	2-13/16	6-5/16	4-27/32	3-13/32	4-5/8	4	6-7/16	1/4	3/8 Dia.
2-1/2	2	1-1/2	17-3/4	17-1/4	2-13/16	6-5/16	4-27/32	3-13/32	4-5/8	4	6-7/16	1/4	3/8 Dia.
						MEDIUM	HEAD						
1/3	1-1/4	1	12-9/16	12-15/16	1-7/16	5-1/8	4-7/16	3-1/4	2-1/4	3-1/4	5-5/8	1/4	3/8 Dia.
1/2	1-1/4	1	11-7/32	12-15/16	1-7/16	5-1/8	4-7/16	3-1/4	2-1/4	3-1/4	5-5/8	1/4	3/8 Dia.
3/4	1-1/4	1	11-31/32	12-15/16	1-7/16	5-1/8	4-7/16	3-1/4	2-1/4	3-1/4	5-5/8	1/4	3/8 Dia.
1	1-1/2	1-1/4	12-11/32	13-7/16	1-7/16	5-1/8	4-7/16	3-1/4	2-1/4	3-1/4	5-5/8	1/4	3/8 Dia.
1-1/2	1-1/2	1-1/4	13-25/32	14-9/16	2	5-3/4	4-13/16	3-1/2	4-1/4	3-15/16	5-5/8	1/4	3/8 Dia.
2	1-1/2	1-1/4	16-3/16	16-3/8	2	5-3/4	4-13/16	3-1/2	4-1/4	3-15/16	6-7/16	1/4	3/8 Dia.
2-1/2	2	1-1/2	17-3/16	16-11/16	2	5-3/4	4-13/16	3-1/2	4-1/4	3-15/16	6-7/16	1/4	3/8 Dia.

Pro-Source® Pumper Series

Engine-driven pumps



Lightweight, corrosion-resistant, engineered composite pump construction make this enginedriven 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 noisedampening, 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

Discharge

Hose Kit

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ORDER	ING I	NFORMATION			
Catalog Number	НР	Description	Pipe Tap	oing Sizes	Approx. Wt.
Number	пг	Description	Suction	Discharge	Lbs./Kg
EDP55RV	6-1/2	Engine-driven pump w/rollcage	2" NPT	2" NPT	46/20.9

ACCESS	SORIES	
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



SPECIFICATIONS

Body: Reinforced corrosion-resistant thermoplastic

Impeller: Polymer

Diffuser: Reinforced corrosion-resistant thermoplastic

Seals: Viton mechanical

O-rings: Viton
Check Valve: Viton

Rollcage: 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 Lightweight 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

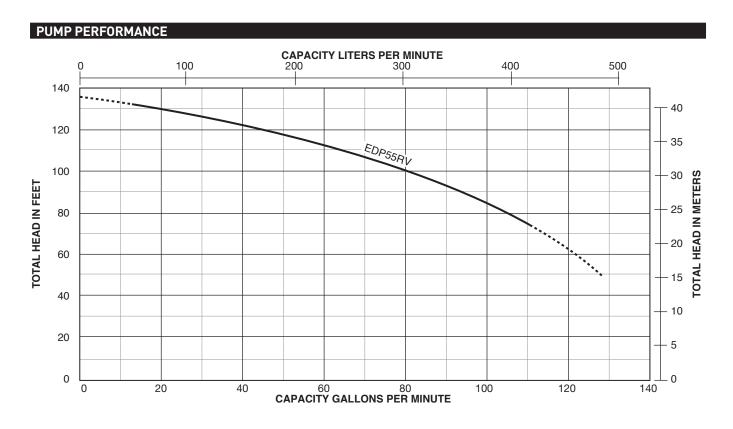
Discharge Hose Kit: Built-in

2" NPTF swivel fitting and 2" NPTM fitting for easy hookup; collapsible for easy roll-up and storage; reinforced wall adds durability

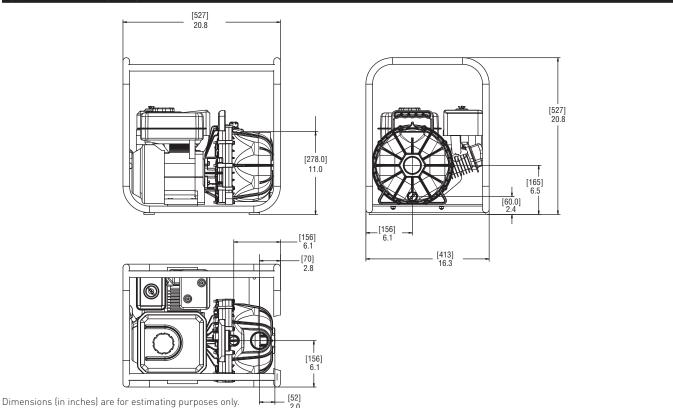
CB6212WS

Pro-Source® Pumper Series

Engine-driven pumps



OUTLINE DIMENSIONS



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CB6212WS

EDD/EEDD Series

Engine-driven self-priming pumps





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ORDER	ING IN	FORMATION				
Catalog			Fuel Tank	Pipe Tapp	ing Sizes	Approx.
Number	HP	Description	Size	Suction	Discharge	Wt. Lbs.
EDDH	3	Gasoline-powered pump	3 Quarts	2"	2"	65
EEDDH	3	Gasoline-powered pump	3 Quarts	2"	2"	70
EEDD	-	Gasoline-powered pump	-	2"	2"	38

Design Series EDDH – Engine-driven without stub shaft Design Series EEDDH – Engine-driven with stub shaft Design Series EEDD – Stub shaft pump only These engine-driven centrifugal pumps can be used where electrical power is not available. Powerful 4-cycle gasoline engines get the job done faster and more efficiently.

Close-coupled EDDH has pump and engine close-coupled on all-steel base...16" long, 14" wide and 13-1/8" high. EDDH features 5/8" diameter, ductile iron threaded shaft extension.

Frame-mounted EEDDH features pump and engine frame-mounted on all-steel base...18-11/16" long, 14" wide and 13-1/8" high. Stub shaft allows easy replacement with other gasoline-powered engines. EEDDH has 3/4" diameter keyed ductile iron shaft extension.

Order Catalog No. EEDD for pump end only, supplied without engine, to be used with 5/8" or 3/4" shaft in gasolineengine-driven applications. Pump is identical in design to stub-shaft EEDDH.

SPECIFICATIONS

Body: Close-grained cast iron

Impeller: Cast iron
Diffuser: Cast iron
Diffuser Ring: Buna-N
Stub Shaft (EEDD only):
416 stainless steel

CB4524WS

EDD/EEDD Series

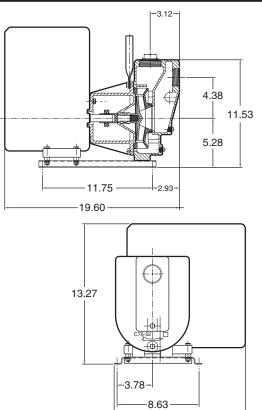
Engine-driven self-priming pumps

OUTLINE DIMENSIONS: EEDD

3.12 4.38 4.53 1/4 NPT SQUARE 1.07 -2.98-HEAD PIPE PLUG -3.81-.12 3/4" NPT SQUARE HEAD PIPE PLUG 2" NPT 12.29 10.78 8.91 3.34 1.16 (2) 3/8-16 UNC-2B x .56 DEEP -3.947.88

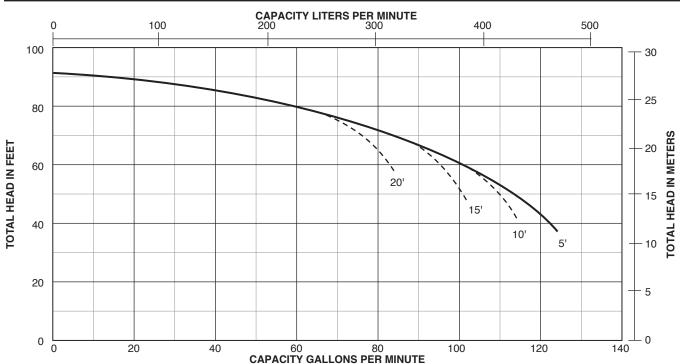
Dimensions (in inches) are for estimating purposes only.

OUTLINE DIMENSIONS: EEDDH



13.12

PUMP PERFORMANCE



NOTE: Dotted lines indicate performance reduction at high suction lift.

190 CB4524WS

Water Systems Product Nomenclature

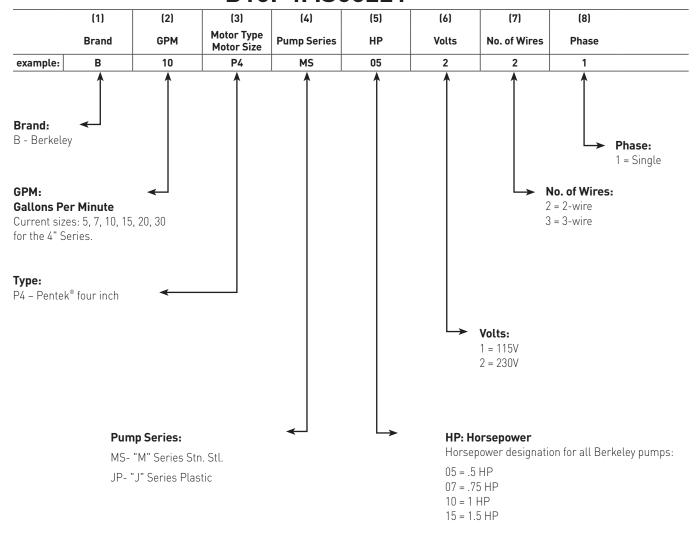
Berkeley® Catalog Numbers define products for you.

The following paragraphs describe number assignments and their meanings for 4" submersibles, jets and small centrifugal pumps.

4" SUBMERSIBLE PUMP CATALOG NUMBERS

Submersible pump catalog numbers are patterned like this:

B10P4MS05221



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Water Systems Product Nomenclature

JET PUMP CATALOG NUMBERS

Jet pump catalog numbers are patterned like this:

5SN-L

	(1)	(2)	(3)
	type	HP	dash#
example:	5	SN	-L

(1) HP: HORSEPOWER

Horsepower designation for all Berkeley Pumps:

5 = 1/2 HP 15 = 1-1/2 HP 7 = 3/4 HP 20 = 2 HP 10 = 1 HP 25 = 2-1/2 HP

(2) type - First Letter in DESIGN SERIES
Second Letter (N) - Shallow Well
(L) - Deep Well

(3) dash#: ENGINEERING SERIES NUMBER (dash number)

Indicates small product improvements.

SMALL CENTRIFUGAL PUMP CATALOG NUMBERS

Centrifugal pump catalog numbers are patterned like this:

10LTHH

	(1)	(2)	(3)	(4)	(5)
	HP	type	head	PH	dash#
example:	10	LTH	Н	3	-01

(1) HP - HORSEPOWER

Horsepower designation for all BERKELEY pumps:

5 = 1/2 HP 15 = 1-1/2 HP 7 = 3/4 HP 20 = 2 HP 10 = 1 HP 25 = 2-1/2 HP

(2) type – PUMP DESIGN SERIES

(3) head - HEAD DESIGN

H = high head

M = medium head

(4) PH - PHASE

3 = 3 phase

(5) dash# - ENGINEERING SERIES NUMBER (dash number)

Indicates product improvements.

STEEL TANK CATALOG NUMBERS

Steel tank catalog numbers are patterned like this:

PS19T

	(1)	(2)	(3)
	type	size	dash#
example:	PS	19T	-T02

(1) type: TANK DESIGN SERIES

(2) S = "short" stand-up type
T = "tall" stand-up type
H = "horizontal" pump mount type

(3) dash#: ENGINEERING SERIES NUMBER (dash number)

Indicates small product improvements.

FIBREWOUND TANKS

Fibrewound tank catalog numbers are patterned like this:

PSC-35-10

	(1)	(2)	(2) (3)	
	type	size	drawdown	dash#
example:	PSC	35	-10	-01

- (1) type: TANK DESIGN SERIES
- (2) size: Tank vessel capacity in U.S. gallons
- (3) drawdown: U.S. gallons drawdown with a 30-50 system pressure

(4) dash#: ENGINEERING SERIES NUMBER (dash number)

Indicates small product improvements.

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Sizing Home Water Systems

Pentair has developed the following "Rule of Thumb" formula for sizing home water systems that will be applicable in many instances:

Simply count the fixtures and water outlets in the home. This method bases the approximate pumping capacity on use at the rate of a gallon per minute per fixture, and avoids the possibility of undersizing.

For instance, let us assume you count the following list of fixtures and water outlets in your home:

Kitchen:	Sink/Dishwasher (count as 1 fixture)	1
Bath:	Lavatory Tub Toilet	1 1 1
Powder Room:	Lavatory Toilet	1
Laundry and Uti	lity Room: Automatic washing machine	

(count as one fixture) 1
Laundry tubs 1
Shower 1
Outdoor faucets 2

Total fixtures and outlets

Be sure that your pump installer provides a water system that will deliver 12 gallons per minute at the desired pressure.

Average Water Requirements for General Service Around the Home and Farm

Each person per day, for all purposes	50 gal.
Each horse, dry cow or beef animal per day	12 gal.
Each milking cow per day	35 gal.
Each hog per day	4 gal.
Each sheep per day	2 gal.
Each 100 chickens per day	4 gal.

Average Amount of Water Required By Various Home and Yard Fixtures

Drinking fountain, continuously flowing, 50 to	100 gal. per day
Each shower bath	Up to 60 gal.
To fill bathtub	30 gal.
To flush toilet	6 gal.
To fill lavatory	2 gal.
To sprinkle 1/4" of water on each	
1000 sq. feet of lawn	160 gal.
Dishwasher – per load	3 gal.
Automatic washer – per load	Up to 50 gal.
Regeneration of domestic water softener	50-100 gal.

Average Flow Rate Requirements by Various Fixtures

(GPM equals gallons per minute; GPH equals gallons per hour)

Shower	4 to 6 GPM
Bathtub	4 to 8 GPM
Toilet	4 to 5 GPM
Lavatory	1 to 3 GPM
Kitchen sink	2 to 3 GPM
1/2" hose and nozzle	200 GPH
3/4" hose and nozzle	300 GPH
Lawn sprinkler	120 GPH

Pounds Pressure - Feet of Head

Each pound of pressure developed by a pumping system is equal to 2.31 feet of head (feet of lift). Therefore, 10 pounds of pressure (PSI) will lift water vertically 23.1 feet. The following chart converts pressure to feet of head at various settings from 1 to 100 PSI.

This can be calculated for any setting using the following formula:

Pounds per Sq. Inch = $\frac{\text{Head in Feet}}{2.31}$

Head in Feet = Pounds per Sq. In. x 2.31

CONVERSION TABLE POUNDS PRESSURE/FEET OF HEAD Pounds Pressure Feet of Head 2.31 5 11.6 10 23.1 15 34.7 20 46.2 25 57.7 30 69.3 35 8.08 40 92.4 45 103.9 50 115.5 60 138.6 65 150.1 70 161.7 75 173.2 184.8 80 85 196.3 90 207.9 219.4 231.0

Pipe Friction Loss Charts

1/2"-1-1/4" I.D.

LOSS	5 OF H	EAD I	N FEE	T DUE	TO F	RICTIC	N PEI	R 100	FEET (OF PIF	PΕ								
		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.

Type Fitting and	Pipe and Fitting	Equivalent Length of Pipe – Nominal Size Fitting and Pipe										
Application	Material (Note 1)	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2				
Threaded Adapter	Copper	1	1	1	1	1	1	1				
Plastic or Copper to Thread	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				
	Steel	4	5	6	8	9	11	14				
Standard Tee	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 FEE	T DUE T	O FRICT	ION PE	R 100 FE	ET OF F	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					

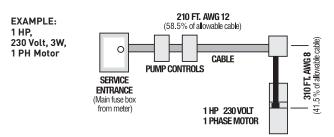
NOTE: Recommended velocity is 5 FPS (feet per second) with a maximum of 7 FPS.

Cable Selection

Stainless steel, 4" submersible motors

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 guestion 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 LE	MOTOR LEAD LENGTHS: PENTEK® 2-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	107	171	273	432	672	1071	1346	1700	2142	2703	3411	4305	5424
	1/2	457	726	1158	1835	2855	4551	5721	7225	9102	11489			
220	3/4	342	545	869	1376	2141	3413	4291	5419	6826	8617	10871		
230	1	267	425	678	1074	1671	2664	3349	4229	5328	6725	8485	10711	
	1-1/2	209	332	530	839	1305	2080	2615	3303	4161	5252	6626	8365	
MOTOR LEAD LENGTHS: PENTEK 3-WIRE MOTORS														

CCID	CONTROL	DOVEC
USIR	CONTROL	BUXES

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	94	150	240	380	591	942	1184	1495	1883	2377	2999	3786	4770
	1/2	348	553	883	1398	2175	3467	4359	5505	6935	8753			
230	3/4	277	441	704	1115	1734	2765	3476	4390	5530	6981	8807		
	1	231	367	585	927	1442	2299	2891	3651	4599	5805	7324		

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
	1/2	438	697	1112	1761	2740	4369	5492	6936	8738	11029			
	3/4	359	571	912	1444	2246	3581	4502	5685	7162	9040	11406		
	1	296	471	751	1190	1852	2952	3711	4686	5904	7452	9402		
230	1-1/2	199	317	505	801	1246	1986	2496	3153	3972	5013	6325		
	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.

(2) Cables #14 to 4/0 are AWG sizes.

⁽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.

Cable Selection

Stainless steel, 4" submersible motors

HZ MOTOF	RATING				60C	AND 75C	INSULAT	ION - AV	VG COPPI	R WIRE	SIZE			
VOLTS	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
200	0.5	629	1000	1595	2526	3931								
	3/4	468	745	1188	1881	2927								
	1	386	614	979	1551	2414	3848	4837						
	1.5	290	461	735	1163	1810	2886	3628						
200	2	237	376	600	951	1479	2358	2965	3744	4717	5954			
	3	183	292	465	737	1147	1828	2298	2902	3656	4614			
	5	109	173	276	438	681	1086	1365	1724	2172	2741	3458	4366	550
	7.5	73	117	186	295	459	731	919	1161	1462	1846	2329	2940	370
230	0.5	844	1342	2140	3389	5274	8408	10570						
	0.75	633	1006	1605	2542	3956	6306	7927	10011					
	1	516	821	1310	2075	3229	5148	6471	8172					
	1.5	383	610	973	1541	2397	3822	4804	6067	7643	9648			
	2	316	503	803	1271	1978	3153	3964	5006	6306	7960	10042		
	3	251	399	636	1007	1567	2497	3140	3965	4995	6305	7954	10042	126
	5			367	581	904	1441	1812	2288	2883	3639	4591	5795	730
	7.5				385	599	955	1201	1517	1911	2412	3043	3842	484
	0.5	3374	5367	8561										
	0.75	2531	4025	6420	10168									
	1	2024	3220	5136	8135									
	1.5	1489	2368	3777	5981									
460	2	1234	1964	3132	4960	7718								
	3	955	1519	2423	3837	5971								
	5	595	947	1511	2393	3723	5935							
	7.5	375	596	951	1506	2344	3737	4698	5933	7474				
	10	294	468	747	1182	1840	2933	3687	4656	5866				
	1.5	2433	3870	6173										
	2	1917	3049	4864	7703									
575	3	1543	2454	3915	6200									
	5	832	1324	2112	3345	5205								
	7.5	633	1006	1605	2542	3956								

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 4/0 are AWG sizes.



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