

HS Series Signature 2000[®]

Stainless Steel



POWERED BY
PENTEK[®]



Precision-engineered, high-quality, rugged Signature 2000[®] 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.

†Except where noted.

Nylatron[®] is a registered trademark of Polymer Corp.

All other brand or product names are trademarks or registered trademarks of Pentair Ltd.

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ORDERING INFORMATION

GPM	MOTOR TYPE	HP	STGS.	PH	VOLT	ASSEMBLED PUMP			PUMP END			MOTOR		CONTROL BOX	
						CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
10**	2 WIRE	1/2	7	1	115	S10P4HS05121	22-3/4	27-1/2	L10P4CH	12-3/4	9	P42B0005A1	19		
		1/2	7	1	230	S10P4HS05221	22-3/4	27-1/2	L10P4CH	12-3/4	9	P42B0005A2	19		
		3/4	10	1	230	S10P4HS07221	25-3/4	30-1/2	L10P4DH	14-1/2	10	P42B0007A2	23		
		1	13	1	230	S10P4HS10221	28-3/4	34-1/2	L10P4EH	16-1/2	10-3/4	P42B0010A2	25		
		1-1/2	17	1	230	S10P4HS15221	34-3/4	41-1/2	L10P4FH	19-3/4	12-1/2	P42B0015A2	29		
	3 WIRE	1/2	7	1	115	S10P4HS05131	22-3/4	27-1/2	L10P4CH	12-3/4	9	P43B0005A1	19	SMC-IR0511	4
		1/2	7	1	230	S10P4HS05231	22-3/4	27-1/2	L10P4CH	12-3/4	9	P43B0005A2	18	SMC-CR0521	4
		3/4	10	1	230	S10P4HS07231	25-3/4	30-1/2	L10P4DH	14-1/2	10	P43B0007A2	21	SMC-CR0721	4
		1	13	1	230	S10P4HS10231	28-3/4	34-1/2	L10P4EH	16-1/2	10-3/4	P43B0010A2	23	SMC-CR1021	4
		1-1/2	17	1	230	S10P4HS15231	33-1/2	41-1/2	L10P4FH	19-3/4	12-1/2	P43B0015A2	27	SMC-CR1521	7
		1-1/2	17	3	230				L10P4FH	19-3/4	12-1/2	P43B0015A3	23		
		1-1/2	17	3	460				L10P4FH	19-3/4	12-1/2	P43B0015A4	23		
		2	22	1	230				L10P4GH	22	13-3/4	P43B0020A2	31	SMC-CR2021	7
		2	22	3	230				L10P4GH	22	13-3/4	P43B0020A3	23		
		2	22	3	460				L10P4GH	22	13-3/4	P43B0020A4	23		
		3	30	1	230				L10P4HH	22	16-3/4	P43B0030A2	40	SMC-CR3021	8
		3	30	3	230				L10P4HH	28	16-3/4	P43B0030A3	32		
		3	30	3	460				L10P4HH	28	16-3/4	P43B0030A4	32		
		5	50	1	230				L10P4JH	43-1/2	25-1/2	P43B0050A2	70	SMC-CR5021	12
		5	50	3	230				L10P4JH	43-1/2	25-1/2	P43B0050A3	55		
5	50	3	460				L10P4JH	43-1/2	25-1/2	P43B0050A4	55				
15**	2 WIRE	1/2	5	1	115	S15P4HS05121	22-1/4	27	L15P4CH	12-1/4	9	P42B0005A1	19		
		1/2	5	1	230	S15P4HS05221	22-1/4	27	L15P4CH	12-1/4	9	P42B0005A2	19		
		3/4	7	1	230	S15P4HS07221	25-3/4	31	L15P4DH	14-1/2	10	P42B0007A2	23		
		1	9	1	230	S15P4HS10221	29-1/4	35	L15P4EH	16-3/4	11	P42B0010A2	25		
		1-1/2	12	1	230	S15P4HS15221	35-1/4	43	L15P4FH	20-1/4	13	P42B0015A2	29		
	3 WIRE	1/2	5	1	115	S15P4HS05131	22-1/4	27	L15P4CH	12-1/4	9	P43B0005A1	19	SMC-IR0511	4
		1/2	5	1	230	S15P4HS05231	22-1/4	27	L15P4CH	12-1/4	9	P43B0005A2	18	SMC-CR0521	4
		3/4	7	1	230	S15P4HS07231	25-3/4	31	L15P4DH	14-1/2	10	P43B0007A2	21	SMC-CR0721	4
		1	9	1	230	S15P4HS10231	29-1/4	35	L15P4EH	16-3/4	11	P43B0010A2	23	SMC-CR1021	4
		1-1/2	12	1	230	S15P4HS15231	33-3/4	41	L15P4FH	20-1/4	13	P43B0015A2	27	SMC-CR1521	7
		1-1/2	12	3	230				L15P4FH	20-1/4	13	P43B0015A3	23		
		1-1/2	12	3	460				L15P4FH	20-1/4	13	P43B0015A4	23		
		2	15	1	230				L15P4GH	23-1/2	15	P43B0020A2	31	SMC-CR2021	7
		2	15	3	230				L15P4GH	23-1/2	15	P43B0020A3	23		
		2	15	3	460				L15P4GH	23-1/2	15	P43B0020A4	23		
		3	22	1	230				L15P4HH	31-1/4	18	P43B0030A2	40	SMC-CR3021	7
		3	22	3	230				L15P4HH	31-1/4	18	P43B0030A3	32		
		3	22	3	460				L15P4HH	31-1/4	18	P43B0030A4	32		

*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".

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ORDERING INFORMATION

GPM	MOTOR TYPE	HP	STGS.	PH	VOLT	ASSEMBLED PUMP			PUMP END			MOTOR		CONTROL BOX	
						CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
20**	2 WIRE	3/4	5	1	230	S20P4HS07221	23-3/4	30	L20P4DH	12-1/2	8-1/2	P42B0007A2	23		
		1	7	1	230	S20P4HS10221	27-1/4	34	L20P4EH	14-3/4	9-3/4	P42B0010A2	25		
		1-1/2	9	1	230	S20P4HS15221	32	39	L20P4FH	16-3/4	10-3/4	P42B0015A2	29		
	3 WIRE	3/4	5	1	230	S20P4HS07231	23-3/4	30	L20P4DH	12-1/2	8-1/2	P43B0007A2	23	SMC-CR0721	5
		1	7	1	230	S20P4HS10231	27-1/4	34	L20P4EH	14-3/4	9-3/4	P43B0010A2	25	SMC-CR1021	5
		1-1/2	9	1	230	S20P4HS15231	30-1/2	39	L20P4FH	16-3/4	10-3/4	P43B0015A2	29	SMC-CR1521	7
		1-1/2	9	3	230				L20P4FH	16-3/4	10-3/4	P43B0015A3	23		
		1-1/2	9	3	460				L20P4FH	16-3/4	10-3/4	P43B0015A4	23		
		2	12	1	230				L20P4GH	20-1/4	12-1/2	P43B0020A2	31	SMC-CR2021	7
		2	12	3	230				L20P4GH	20-1/4	12-1/2	P43B0020A3	32		
		2	12	3	460				L20P4GH	20-1/4	12-1/2	P43B0020A4	32		
		3	17	1	230				L20P4HH	25-3/4	15	P43B0030A2	40	SMC-CR3021	7
		3	17	3	230				L20P4HH	25-3/4	15	P43B0030A3	32		
		3	17	3	460				L20P4HH	25-3/4	15	P43B0030A4	32		
		5	28	1	230				L20P4JH	38	21	P43B0050A2	70	SMC-CR5021	8
		5	28	3	230				L20P4JH	38	21	P43B0050A3	55		
		5	28	3	460				L20P4JH	38	21	P43B0050A4	55		
		7-1/2	40	3	230				L20P4KH	53-3/4	30	P43B0075A3	70		
		7-1/2	40	3	460				L20P4KH	53-3/4	30	P43B0075A4	70		
		10	54	3	460				L20P4LH	71	41	P43B0100A4	78		
30***	2 WIRE	1	5	1	230	S30P4HS10221	26-1/2	35	L30P4EH	14	9-3/4	P42B0010A2	25		
		1-1/2	6	1	230	S30P4HS15221	30-1/2	39	L30P4FH	15-1/4	10-3/4	P42B0015A2	29		
	3 WIRE	1	5	1	230	S30P4HS10231	26-1/2	35	L30P4EH	14	10	P43B0010A2	25	SMC-CR1021	5
		1-1/2	6	1	230	S30P4HS15231	29	39	L30P4FH	15-1/4	11	P43B0015A2	29	SMC-CR-1521	7
		1-1/2	6	3	230				L30P4FH	15-1/4	11	P43B0015A3	23		
		1-1/2	6	3	460				L30P4FH	15-1/4	11	P43B0015A4	23		
		2	8	1	230				L30P4GH	18-1/4	12	P43B0020A2	31	SMC-CR2021	7
		2	8	3	230				L30P4GH	18-1/4	12	P43B0020A3	23		
		2	8	3	460				L30P4GH	18-1/4	12	P43B0020A4	23		
		3	12	1	230				L30P4HH	24	15	P43B0030A2	40	SMC-CR3021	7
		3	12	3	230				L30P4HH	24	15	P43B0030A3	32		
		3	12	3	460				L30P4HH	24	15	P43B0030A4	32		
		5	20	1	230				L30P4JH	35-3/4	20	P43B0050A2	70	SMC-CR5021	8
		5	20	3	230				L30P4JH	35-3/4	20	P43B0050A3	55		
		5	20	3	460				L30P4JH	35-3/4	20	P43B0050A4	55		
		7-1/2	28	3	230				L30P4KH	50	27	P43B0075A3	70		
		7-1/2	28	3	460				L30P4KH	50	27	P43B0075A4	70		
10	38	3	460				L30P4LH	65-1/2	35	P43B0100A4	70				

*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".

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ORDERING INFORMATION

GPM	MOTOR TYPE	HP	STGS.	PH	VOLT	PUMP END			MOTOR		CONTROL BOX	
						CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
50***	2 WIRE	1-1/2	4	1	230	L50P4FH	15-1/4	10	P42B0015A2	29		
	3 WIRE	1-1/2	4	1	230	L50P4FH	15-1/4	10	P43B0015A2	27	SMC-CR1521	7
		1-1/2	4	3	230	L50P4FH	15-1/4	10	P43B0015A3	23		
		1-1/2	4	3	460	L50P4FH	15-1/4	10	P43B0015A4	23		
		2	6	1	230	L50P4GH	19-1/4	12	P43B0020A2	31	SMC-CR2021	7
		2	6	3	230	L50P4GH	19-1/4	12	P43B0020A3	27		
		2	6	3	460	L50P4GH	19-1/4	12	P43B0020A4	27		
		3	8	1	230	L50P4HH	23-1/4	15	P43B0030A2	40	SMC-CR3021	7
		3	8	3	230	L50P4HH	23-1/4	15	P43B0030A3	32		
		3	8	3	460	L50P4HH	23-1/4	15	P43B0030A4	32		
		5	13	1	230	L50P4JH	33-1/2	20	P43B0050A2	70	SMC-CR5021	8
		5	13	3	230	L50P4JH	33-1/2	20	P43B0050A3	55		
		5	13	3	460	L50P4JH	33-1/2	20	P43B0050A4	55		
		7-1/2	20	3	230	L50P4KH	47-1/2	25	P43B0075A3	70		
		7-1/2	20	3	460	L50P4KH	47-1/2	25	P43B0075A4	70		
		10	25	3	460	L50P4LH	57-3/4	35	P43B0100A4	70		

*Length and Weight are approximate.

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

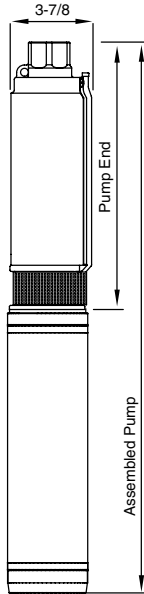
***For 30 GPM and 50 GPM discharge is 2" NPT.

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

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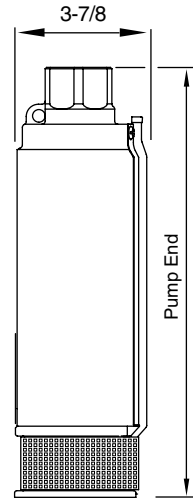
OUTLINE DIMENSIONS: 10, 15 AND 20 GPM



DISCHARGE

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

OUTLINE DIMENSIONS: 30 AND 50 GPM



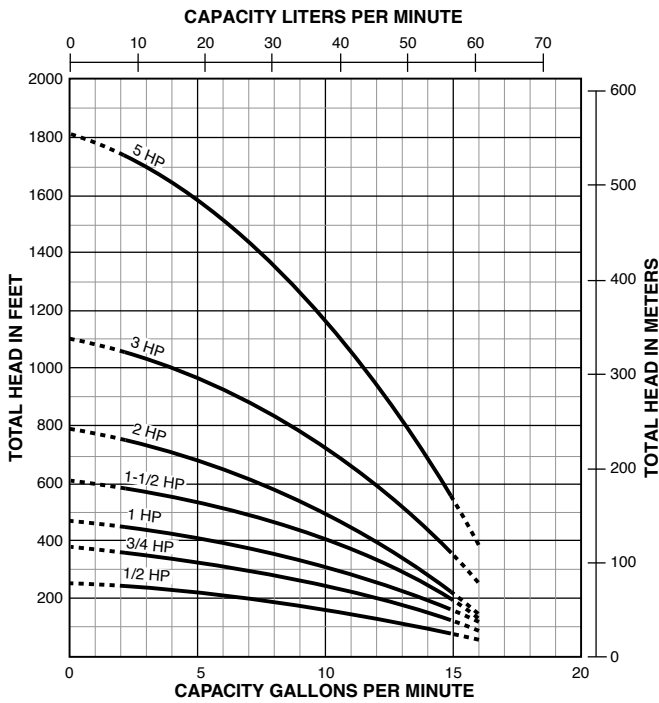
DISCHARGE

30 GPM	2" NPT
50 GPM	2" NPT

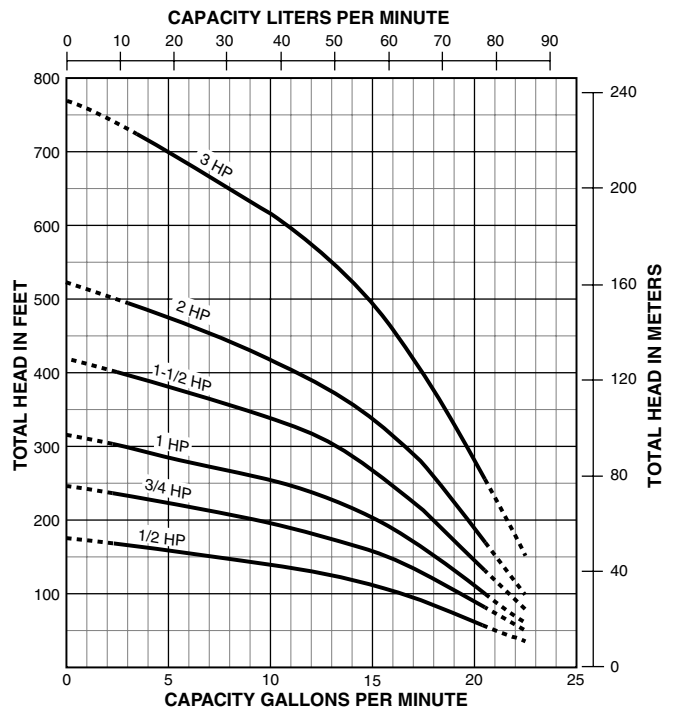
For lengths, refer to Ordering Information tables.
Dimensions (in inches) are for estimating purposes only.

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



PUMP PERFORMANCE: 15 GPM



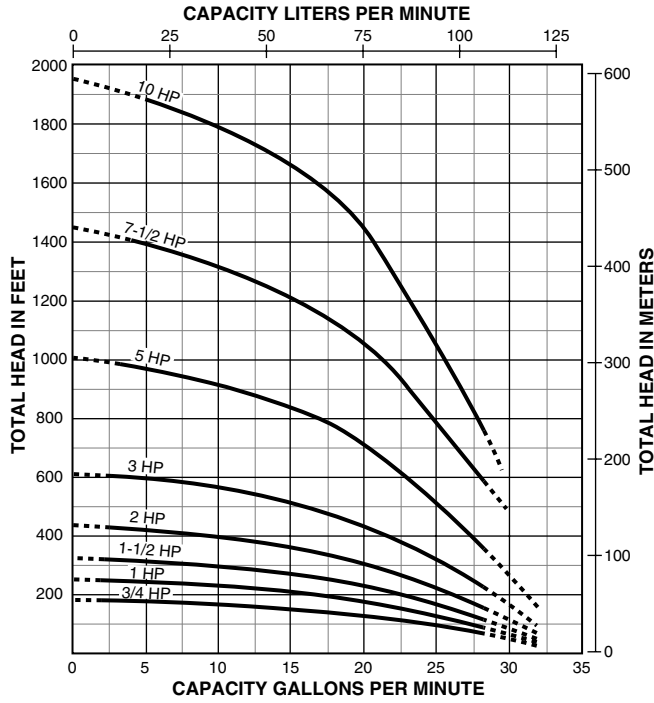
Tested and rated in accordance with Water Systems Council Standards.

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.

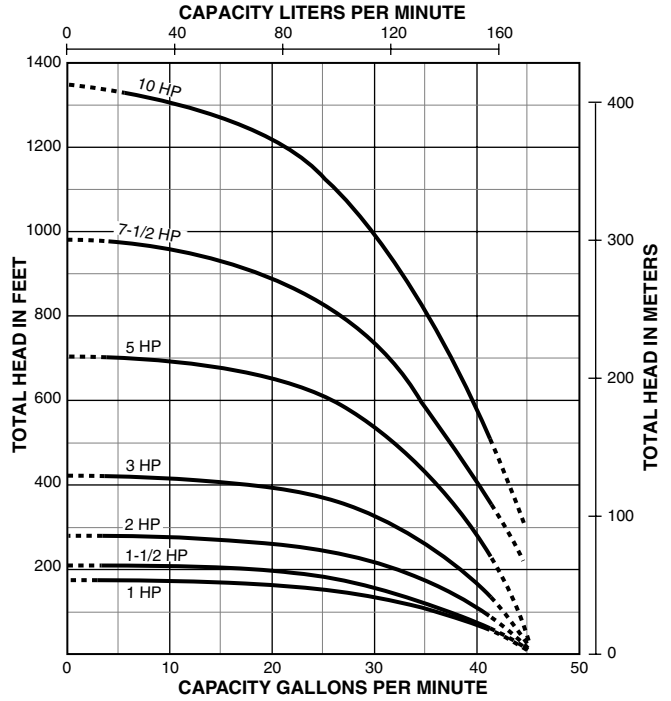
HS Series Signature 2000[®]

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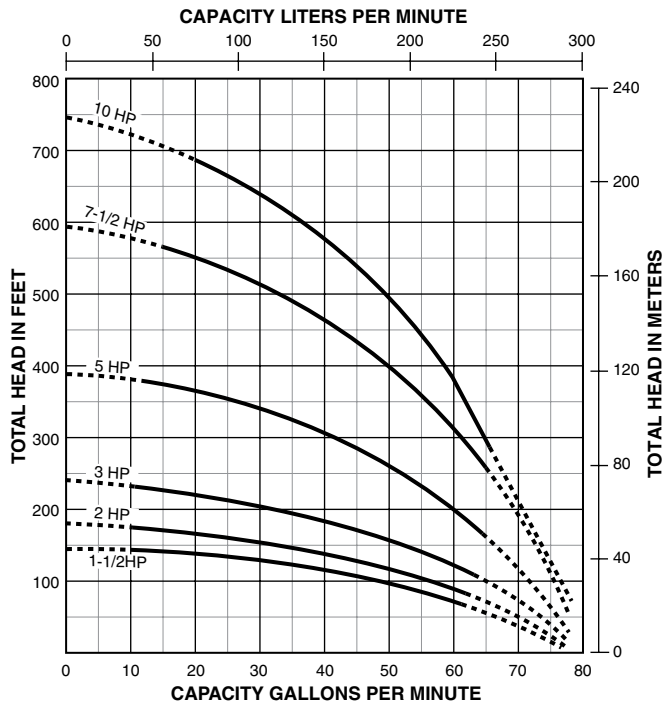
PUMP PERFORMANCE: 20 GPM



PUMP PERFORMANCE: 30 GPM



PUMP PERFORMANCE: 50 GPM



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10 GALLONS PER MINUTE																		PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)																	
HP	PSI	PUMPING DEPTH IN FEET																		SHUT-OFF HEAD															
		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	FEET	PSI							
1/2	0	—	—	14.1	13.5	12.8	12.0	10.8	9.5	7.4	4.7																255	110							
	20	14.0	13.3	12.7	12.0	11.0	9.6	7.8	5.2	1.4																									
	30	13.2	12.6	11.8	10.9	9.8	8.0	5.5	1.7																										
	40	12.4	11.7	10.8	9.7	8.2	8.8	2.0																											
	50	11.5	10.5	9.4	7.8	5.8	2.2																												
	60	10.4	9.2	7.5	5.4	2.8																													
3/4	0	—	—	—	14.8	14.4	13.8	13.0	12.0	11.0	8.4	4.7															340	147							
	20	—	14.7	14.3	13.7	13.0	12.2	11.2	9.9	8.6	5.0																								
	30	14.4	14.2	13.7	13.0	12.3	11.2	10.0	8.8	7.2	3.0																								
	40	14.2	13.5	12.9	12.1	11.3	10.2	8.9	7.4	5.3																									
	50	13.4	12.7	12.0	11.0	10.2	8.9	7.4	5.5	3.2																									
	60	12.6	11.9	11.0	10.0	9.1	7.5	5.7	4.4	1.4																									
1	0	—	—	—	—	14.9	14.4	13.8	13.3	12.8	11.5	10.1	8.2	5.8	2.1												467	202							
	20	—	—	14.7	14.4	14.0	13.4	12.9	12.3	11.7	10.2	8.3	6.0	2.6																					
	30	—	14.7	14.4	13.8	13.4	12.9	12.3	11.7	11.0	9.4	7.4	4.6																						
	40	14.6	14.2	13.8	13.3	13.0	12.5	11.8	11.1	10.3	8.5	6.2	3.0																						
	50	14.1	13.7	13.3	12.9	12.4	11.8	11.1	10.2	9.5	7.4	4.8																							
	60	13.7	13.2	12.8	12.4	11.9	11.2	10.3	9.5	8.7	6.3	3.2																							
1-1/2	0	—	—	—	—	—	14.7	14.4	14.0	13.2	12.2	11.2	10.1	8.6	7.1	5.2	2.5										636	275							
	20	—	—	—	—	14.8	14.4	14.0	13.6	13.2	12.4	11.3	10.2	8.7	7.3	5.3	2.8																		
	30	—	—	—	14.7	14.4	14.0	13.6	13.2	12.8	11.9	10.7	9.6	8.1	6.4	4.4																			
	40	—	15.0	14.7	14.4	14.1	13.7	13.3	12.8	12.4	11.4	10.2	8.9	7.3	5.5	3.0																			
	50	14.9	14.6	14.3	14.0	13.6	13.2	12.8	12.4	12.0	10.8	9.7	8.2	6.5	4.5																				
	60	14.5	14.3	14.0	13.6	13.3	12.8	12.4	12.0	11.5	10.2	9.0	7.5	5.6	3.3																				
2	0	—	—	—	—	—	14.9	14.6	14.0	13.3	12.7	12.0	11.1	10.2	9.2	8.0	6.6	5.1	3.1								806	349							
	20	—	—	—	—	14.9	14.6	14.4	14.0	13.4	12.7	12.0	11.1	10.2	9.2	8.0	6.6	5.1	3.1																
	30	—	—	—	—	15.0	14.7	14.4	14.0	13.8	13.1	12.4	11.7	10.7	9.8	8.8	7.5	6.1	4.5	2.0															
	40	—	—	—	14.9	14.6	14.4	14.2	13.8	13.3	12.8	12.1	11.3	10.2	9.2	8.0	6.6	5.1	3.1																
	50	—	—	14.9	14.6	14.4	14.1	13.8	13.4	13.1	12.4	11.6	10.8	9.8	8.8	7.6	6.1	4.7	2.2																
	60	15.1	14.9	14.6	14.4	14.1	13.8	13.4	13.1	12.8	12.1	11.3	10.3	9.5	8.3	6.9	5.3	3.7																	
3	0	—	—	—	—	—	—	—	—	14.7	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		1100	476								
	20	—	—	—	—	—	—	—	15.2	14.7	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											
	30	—	—	—	—	—	—	14.7	15.0	14.5	14.1	13.6	13.1	12.6	12.1	11.4	10.7	10.0	9.2	8.2	7.1	6.0	4.9	3.3											
	40	—	—	—	—	—	15.2	15.0	14.7	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												
	50	—	—	—	—	15.3	15.0	14.8	14.6	14.1	13.7	13.2	12.7	12.2	11.7	10.9	10.1	9.4	8.6	7.5	6.2	5.0	3.9												
	60	—	—	—	—	15.3	15.0	14.8	14.6	14.4	13.9	13.4	12.9	12.4	11.9	11.2	10.4	9.7	8.8	7.9	6.6	5.5	4.3												
5	0	—	—	15.3	14.6	14.2	13.5	12.9	12.3	11.6	10.8	9.9	8.9	7.7	6.3	4.9	2.9									1824	745								
	20	—	—	15.0	14.5	13.9	13.3	12.7	12.1	11.2	10.3	9.4	8.5	7.1	5.6	4.1																			
	30	—	—	14.9	14.3	13.8	13.1	12.5	11.9	11.1	10.2	9.2	8.2	6.7	5.2	3.7																			
	40	—	—	14.7	14.2	13.5	12.9	12.3	11.6	10.8	9.9	8.9	7.7	6.3	4.9	2.9																			
	50	—	—	14.6	14.1	13.4	12.8	12.2	11.5	10.7	9.8	8.8	7.5	6.1	4.7	2.7																			
	60	—	15.0	14.5	13.9	13.3	12.7	12.1	11.2	10.3	9.4	8.5	7.1	5.6	4.1																				

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.

HS Series Signature 2000®

Stainless Steel

15 GALLONS PER MINUTE		PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)																		SHUT-OFF HEAD								
HP	PSI	PUMPING DEPTH IN FEET																		FEET	PSI							
		20	40	60	80	100	125	150	175	200	250	300	350	400	450	500	550	600	650			700	750	800				
1/2	0	—	—	20.0	18.7	16.9	13.1	7.4																175	76			
	20	19.7	18.3	16.3	13.0	8.8																						
	30	18.0	15.6	12.4	7.9	2.0																						
	40	15.2	11.9	7.0																								
	50	11.2	5.8																									
	60	4.8																										
3/4	0	—	—	21.2	20.2	19.3	17.8	16.0	13.2	9.6														245	106			
	20	20.9	19.9	19.0	17.7	16.4	13.7	10.0	4.9																			
	30	19.8	18.8	17.6	16.1	14.0	10.7	5.5																				
	40	18.6	17.5	15.9	13.5	10.9	6.0																					
	50	17.2	15.4	13.1	10.0	6.4																						
	60	15.0	12.7	9.7	5.5																							
1	0	—	—	—	—	20.4	19.4	18.4	17.2	15.5	10.3	2.7												318	138			
	20	—	20.9	20.2	19.3	18.7	17.5	15.8	13.4	10.9	3.2																	
	30	20.8	20.0	19.1	18.5	17.6	16.0	13.7	11.1	7.5																		
	40	19.8	19.0	18.3	17.4	16.2	13.9	11.3	8.1	3.7																		
	50	18.9	18.2	17.1	15.8	14.0	11.4	8.2	4.0	0																		
	60	18.0	17.0	15.6	13.7	11.7	8.4	4.4																				
1-1/2	0	—	—	—	—	20.4	19.9	19.3	18.4	16.4	13.1	8.3	2.8											420	182			
	20	—	—	21.2	20.5	20.0	19.3	18.6	17.6	16.5	13.5	9.1	3.2															
	30	—	21.1	20.3	19.9	19.3	18.7	17.7	16.6	15.4	11.7	6.3																
	40	21.0	20.2	19.8	19.2	18.7	17.9	16.7	15.5	13.7	9.4	3.6																
	50	20.2	19.7	19.2	18.6	18.0	16.8	15.6	13.8	11.9	6.7																	
	60	19.6	19.0	18.5	17.7	16.9	15.7	13.9	12.0	9.7	3.8																	
2	0	—	—	—	—	—	—	20.7	20.2	19.6	18.3	16.9	14.4	11.6	7.4	2.7								525	227			
	20	—	—	—	21.2	20.9	20.2	19.7	19.1	18.4	17.0	14.7	11.8	7.8	3.2													
	30	—	—	21.2	20.8	20.3	19.7	19.1	18.5	17.9	16.1	13.5	10.2	5.5														
	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														
	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															
3	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			770	333			
	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								
	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								
	40	—	—	—	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									
	50	—	—	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										
	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											

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.

HS Series Signature 2000®

Stainless Steel

20 GALLONS PER MINUTE																	PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)																
HP	PSI	PUMPING DEPTH IN FEET																	SHUT-OFF HEAD														
		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	FEET	PSI					
3/4	0	—	—	29.2	26.9	23.5	19.0	13.7																			180	78					
	20	—	25.8	22.5	18.5	14.5	3.4																										
	30	25.2	22.0	18.3	13.9	4.5																											
	40	21.3	17.6	13.0	3.0																												
	50	17.2	11.4																														
	60	10.2																															
1	0	—	—	—	—	—	25.3	22.4	18.8	15.5																	251	109					
	20	—	—	27.4	25.1	22.8	19.5	16.1	10.1																								
	30	—	27.2	24.9	22.5	19.8	16.5	10.6																									
	40	27.0	24.5	22.0	19.4	16.8	11.6	2.6																									
	50	24.2	21.5	19.0	16.3	12.5	3.3																										
	60	21.3	18.6	16.0	11.1	3.7																											
1-1/2	0	—	—	—	—	—	26.4	24.0	21.6	16.4	5.4																323	140					
	20	—	—	—	—	26.8	24.4	22.0	19.5	16.8	6.8																						
	30	—	—	—	—	26.5	24.7	22.2	19.6	17.1	13.9																						
	40	—	27.8	26.2	24.3	22.3	19.8	17.3	14.2	8.0																							
	50	27.5	26.0	24.1	22.1	20.0	17.5	14.5	8.3																								
	60	25.6	23.9	21.9	19.8	17.5	14.8	9.1	2.2																								
2	0	—	—	—	—	—	27.3	26.0	23.2	20.2	16.2	8.5															420	275					
	20	—	—	—	—	—	26.1	24.9	23.4	20.6	16.7	9.5																					
	30	—	—	—	—	27.6	26.2	25.0	23.5	22.1	19.1	13.8	4.8																				
	40	—	—	—	27.5	26.4	25.1	23.7	22.2	20.8	17.2	10.1																					
	50	—	—	27.2	26.1	25.1	23.8	22.3	20.9	19.3	14.0	5.7																					
	60	—	27.1	26.0	25.0	23.9	22.4	21.0	19.4	17.3	10.8																						
3	0	—	—	—	—	—	—	—	—	27.2	25.3	23.5	21.3	19.1	16.0	11.3	3.6										605	349					
	20	—	—	—	—	—	—	—	—	27.3	25.4	23.6	21.6	19.3	16.1	12.0	5.0																
	30	—	—	—	—	—	—	—	—	27.4	26.6	24.8	22.7	20.6	18.1	14.5	9.0																
	40	—	—	—	—	—	—	27.5	26.7	25.5	23.8	21.7	19.6	16.8	12.5	5.3																	
	50	—	—	—	—	—	27.6	26.7	25.6	24.9	22.8	20.8	18.5	15.0	9.5																		
	60	—	—	—	—	27.7	26.8	25.7	24.9	23.9	21.8	19.8	16.9	12.7	5.6																		
5	0	—	—	—	—	—	—	—	—	—	—	—	27.5	26.5	25.2	24.0	22.8	21.5	20.2	18.9	17.0	14.3	11.0	6.8			1005	476					
	20	—	—	—	—	—	—	—	—	—	—	—	27.6	26.6	25.3	24.1	22.9	21.6	20.3	19.0	17.3	14.0	11.2	7.3									
	30	—	—	—	—	—	—	—	—	—	—	—	—	27.1	26.0	24.9	23.5	22.2	21.0	19.9	18.2	16.2	13.3	9.5	5.2								
	40	—	—	—	—	—	—	—	—	—	—	—	27.7	26.7	25.4	24.2	22.9	21.7	20.4	19.1	17.5	14.4	11.5	7.7	3.1								
	50	—	—	—	—	—	—	—	—	—	—	—	27.2	26.0	25.0	23.6	22.3	21.1	20.0	18.4	16.3	13.5	9.9	5.7									
	60	—	—	—	—	—	—	—	—	—	27.8	26.8	25.5	24.3	23.0	21.8	20.5	19.2	17.7	14.9	12.0	8.0	3.7										
7-1/2	0	—	—	—	—	—	—	—	—	—	—	—	—	—	27.3	25.7	24.3	23.1	21.5	19.9	16.4	11.3	4.1				1450	628					
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	26.7	25.3	23.7	22.3	20.8	18.9	14.7	8.5											
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	26.5	25.1	23.5	22.1	20.6	18.3	13.4	7.0											
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	27.5	26.3	24.7	23.3	21.7	20.2	17.3	12.1	5.3										
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	27.3	25.7	24.5	22.7	21.3	19.7	16.0	10.6	3.6										
	60	—	—	—	—	—	—	—	—	—	26.9	25.5	24.3	22.5	21.0	19.3	15.1	9.5															
10	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1950	844					
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	27.5	26.4	25.3	24.4	23.3	22.1	21.3	20.1	18.5	16.0									
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	27.3	26.2	25.0	24.1	23.0	21.9	21.0	19.9	18.0	15.0									
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	27.0	25.7	24.9	24.0	22.8	21.7	20.8	19.7	17.6	14.7									
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	27.8	26.7	25.5	24.7	23.6	22.5	21.5	20.6	19.4	17.0	14.0								
	60	—	—	—	—	—	—	—	—	—	27.5	26.4	25.3	24.4	23.3	22.2	21.3	20.2	18.5	16.1	12.5												

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.

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HS Series Signature 2000®

Stainless Steel

30 GALLONS PER MINUTE		PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)																						
HP	PSI	PUMPING DEPTH IN FEET																		SHUT-OFF HEAD				
		20	40	60	80	100	125	150	175	200	250	300	350	400	450	500	550	600	650	700	FEET	PSI		
1	0	—	42.5	40.9	39.1	36.8	32.5	26.0	8.0												175	76		
	20	40.4	38.8	36.0	32.4	27.7	13.3																	
	30	38.0	35.3	31.7	26.3	14.3																		
	40	35.0	31.4	25.9	12.1																			
	50	30.2	24.0	3.0																				
	60	21.9																						
1-1/2	0	—	—	41.9	39.9	37.5	34.1	30.9	26.9	17.0											210	91		
	20	41.2	39.1	36.5	34.0	31.5	27.8	21.5																
	30	38.9	36.1	33.8	31.0	27.9	21.8																	
	40	36.0	33.5	30.8	27.7	20.2																		
	50	32.9	30.1	26.8	21.5																			
	60	29.5	25.9	18.1																				
2	0	—	—	—	41.8	40.5	38.8	36.8	34.7	31.6	23.7										280	121		
	20	—	41.3	40.1	38.7	37.1	34.9	32.1	29.0	24.8														
	30	41.2	40.0	38.5	37.0	35.0	32.2	29.1	24.9	15.2														
	40	39.9	38.3	36.6	34.8	32.7	29.8	25.1	16.1															
	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																	
3	0	—	—	—	—	42.7	41.6	40.1	39.6	38.2	35.5	32.0	27.3								420	182		
	20	—	—	42.4	41.5	41.0	39.8	38.5	37.1	35.7	32.1	28.0	18.5											
	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											
	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													
5	0	—	—	—	—	—	—	—	42.6	42.0	40.7	39.2	38.0	36.0	34.2	31.9	29.2	26.0	20.0		705	305		
	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						
	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						
	40	—	—	—	—	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								
HP	PSI	PUMPING DEPTH IN FEET														SHUT-OFF HEAD								
		200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	FEET	PSI								
7-1/2	0	—	—	40.4	37.6	34.8	32.0	28.1	20.0												975	422		
	20	—	42.0	39.3	36.5	33.8	30.5	25.5	13.8															
	30	—	41.3	38.6	35.8	33.1	29.8	23.3	6.5															
	40	—	40.7	38.1	35.6	32.6	29.3	21.7																
	50	42.7	40.1	37.3	34.6	31.7	27.4	19.3																
	60	42.0	39.4	36.5	33.7	30.7	25.1	13.9																
10	0	—	—	—	41.3	39.5	37.3	35.1	33.1	30.4	27.1	22.5	11.9								1345	582		
	20	—	—	42.3	40.5	38.6	36.4	34.5	31.8	29.2	25.3	18.7												
	30	—	—	42.0	40.1	43.0	35.7	33.7	31.3	28.4	24.2	16.3												
	40	—	—	41.6	39.7	37.7	35.5	33.5	30.9	27.7	23.4	14.4												
	50	—	42.7	41.0	39.3	37.1	34.9	32.8	30.2	26.7	21.7	7.7												
	60	—	42.3	40.6	38.7	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.

HS Series Signature 2000®

Stainless Steel

50 GALLONS PER MINUTE		PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)															SHUT-OFF HEAD		
HP	PSI	PUMPING DEPTH IN FEET															FEET	PSI	
		20	40	60	80	100	125	150	175	200	250	300	350	450	550	650			700
1-1/2	0	—	—	—	58.2	49.3	33.5											145	63
	20	—	55.9	46.5	32.5														
	30	54.8	45.0	30.0															
	40	43.3	26.9																
	50	21.9																	
	60																		
2	0	—	—	—	63.3	57.0	47.8	33.9										180	78
	20	—	62.2	55.1	46.8	37.1	13.0												
	30	61.1	53.6	46.0	34.3	14.1													
	40	52.8	45.0	32.5	11.0														
	50	42.7	27.9																
	60	25.2																	
3	0	—	—	—	—	64.5	59.4	52.5	45.0	33.8								235	102
	20	—	—	63.7	59.0	53.5	46.5	36.2	18.2										
	30	—	62.9	58.1	53.0	47.0	37.0	20.5											
	40	62.5	57.6	52.0	46.2	38.8	22.1												
	50	56.5	51.0	44.7	36.2	22.8													
	60	50.0	43.7	34.0	20.5														
5	0	—	—	—	—	—	—	65.9	63.2	59.9	51.9	41.9	22.5					385	166
	20	—	—	—	—	—	63.5	60.8	56.1	52.4	42.5	24.9							
	30	—	—	—	—	63.8	60.9	56.9	53.0	47.9	35.5	12.9							
	40	—	—	65.5	63.2	61.0	57.0	53.2	48.0	43.5	27.0								
	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									
7-1/2	0	—	—	—	—	—	—	—	—	—	66.0	61.0	55.3	43.1	20.0			595	257
	20	—	—	—	—	—	—	—	—	64.8	61.1	56.0	50.0	34.9					
	30	—	—	—	—	—	—	—	64.9	63.3	58.7	53.2	47.2	28.8					
	40	—	—	—	—	—	—	65.0	63.6	61.7	56.2	50.9	44.1	22.0					
	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						
10	0	—	—	—	—	—	—	—	—	—	65.0	62.1	54.2	44.7	29.0	15.2		745	322
	20	—	—	—	—	—	—	—	—	65.5	62.5	59.1	50.1	39.2	17.1				
	30	—	—	—	—	—	—	—	66.9	64.1	61.2	56.9	47.5	35.0	10.5				
	40	—	—	—	—	—	—	67.0	65.8	63.0	59.3	54.9	45.2	30.5					
	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.