

JP Series Signature 2000®

Composite



POWERED BY
PENTEK®



Precision-engineered, corrosion-resistant Signature 2000® 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, trouble-free 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: 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 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: 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 poppet-type check valve.

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

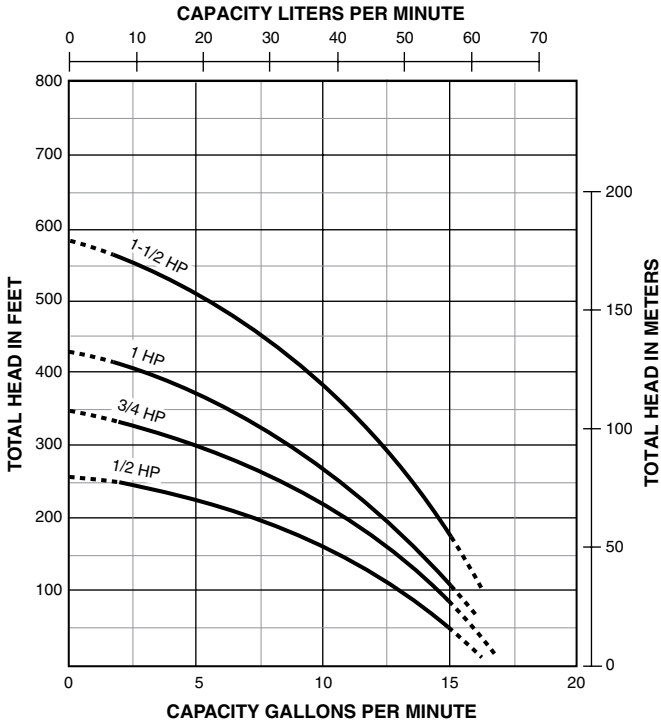
Intake Screen: Corrosion-proof polypropylene.

Pentek® XE Series™ Motor: 2 and 3 wire NEMA standard all stainless construction water-filled motors.

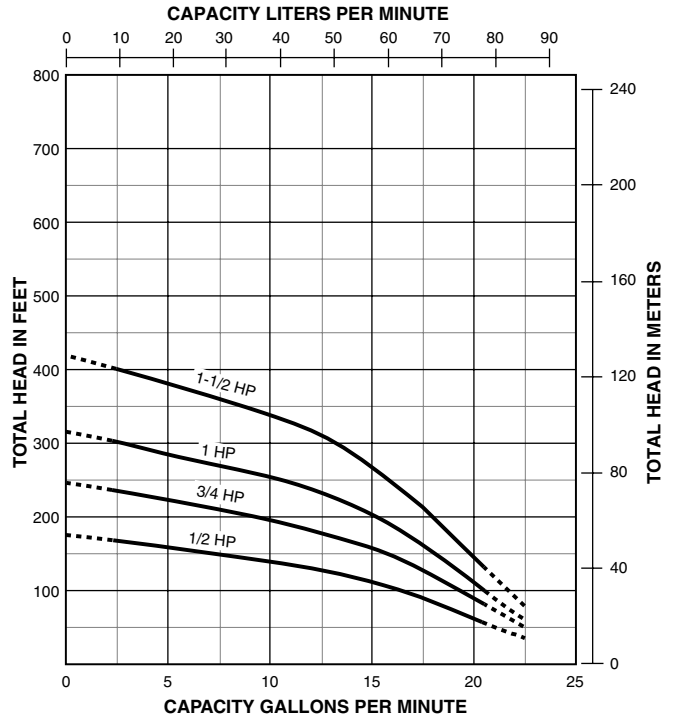
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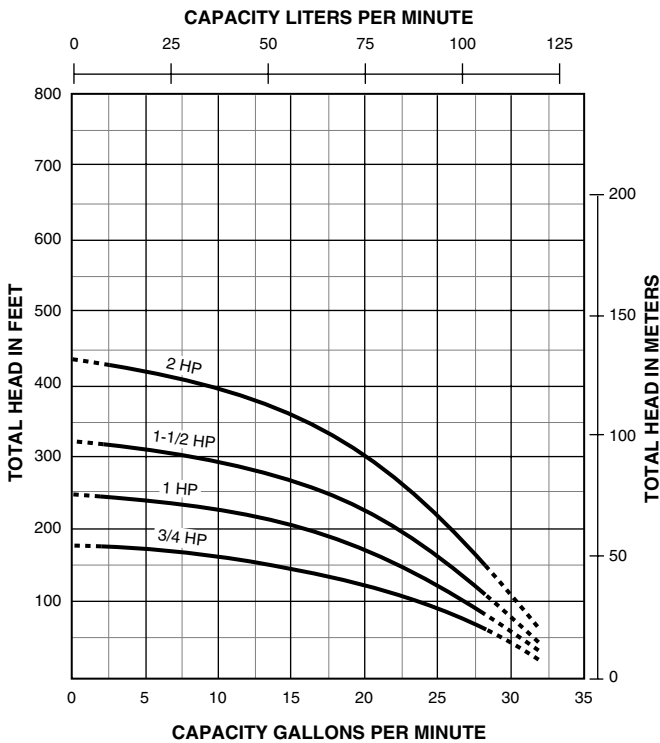
PUMP PERFORMANCE: 10 GPM



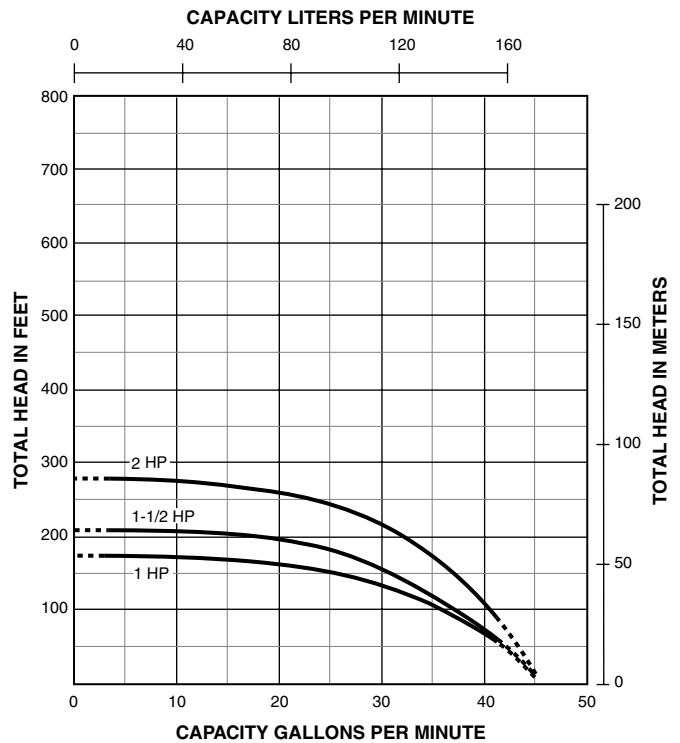
PUMP PERFORMANCE: 15 GPM



PUMP PERFORMANCE: 20 GPM



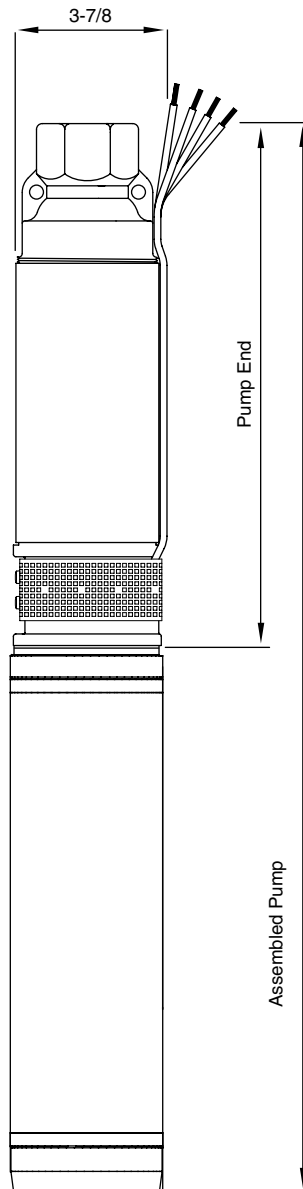
PUMP PERFORMANCE: 30 GPM



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OUTLINE DIMENSIONS



DISCHARGE

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.

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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	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																						

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.

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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		
1/2	0	—	21.5	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	1.8												
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									
	60	18.0	17.0	15.6	13.7	11.7	8.4	4.4										
1-1/2	0	—	—	—	—	—	20.5	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							

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Tested and rated in accordance with Water Systems Council Standards.

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20 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		
3/4	0	—	—	—	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	—	—	—	25.1	22.8	19.5	16.1	10.1								
	30	—	—	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	—	—	26.2	24.3	22.3	19.8	17.3	14.2	8.0							
	50	—	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	0	—	—	—	—	—	—	—	27.3	26.0	23.2	20.2	16.2	8.5	435	188	
	20	—	—	—	—	—	—	26.1	24.9	23.4	20.6	16.7	9.5				
	30	—	—	—	—	—	26.2	25.0	23.5	22.1	19.1	13.8	4.8				
	40	—	—	—	—	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						

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30 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		
1	0	—	—	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										

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