

Ranger 70 GPM Series

4" Multi-Stage Cast Iron Submersible Pumps



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: Noryl[®]

Upthrust Bearing: Nylatron[®]

Discharge Bearing: Nylatron

Bowl and Intake Bearings: Nitrile (proprietary spec.)

Pump Shaft: 300 Series Stainless steel

Lead Guard: 300 Series Stainless steel

Intake Bracket: Cast iron, ASTM A48 Class 30

Intake Screen: 300 Series Stainless steel

Pump/Motor Coupling: 300 Series Stainless steel

FEATURES

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

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

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

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

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

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

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

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

Motor Bracket: Incorporates an efficient hydraulic design for maximum volume and access to motor mounting nuts.

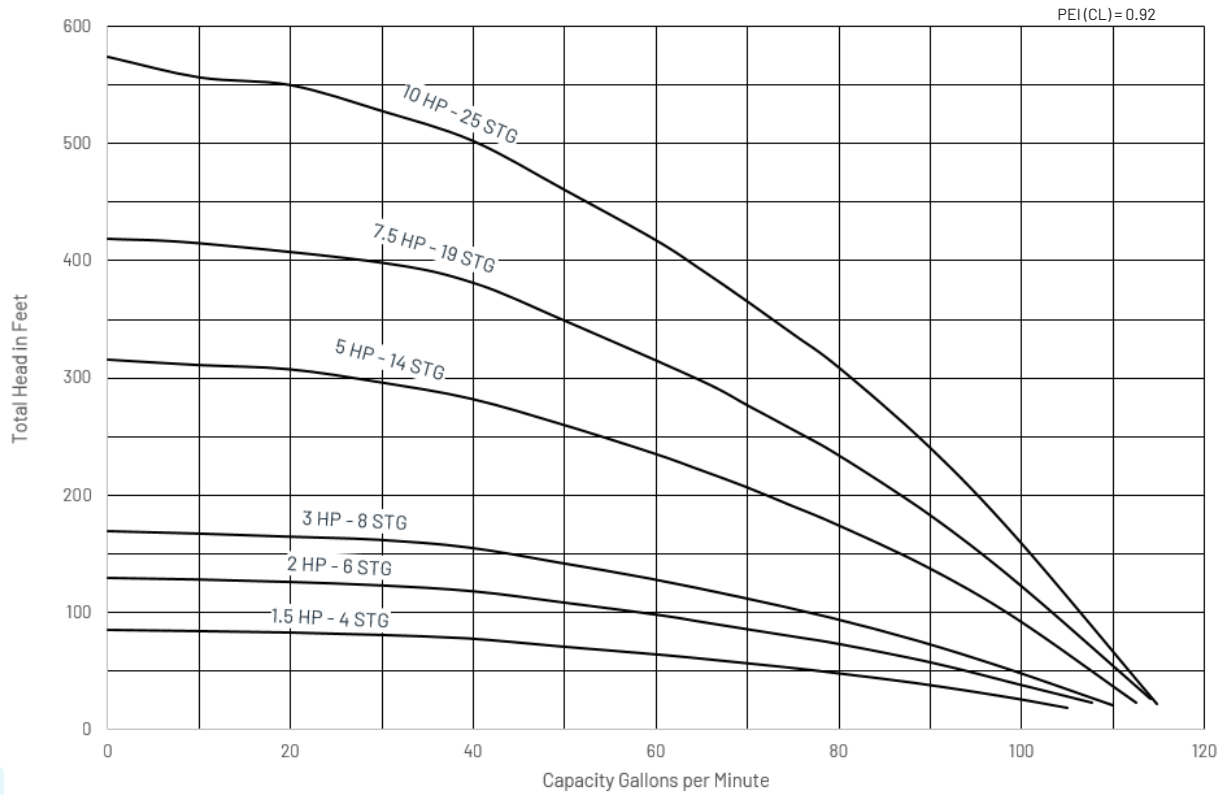
Pump/Motor Coupling: Pressed-on, sintered 300 grade stainless steel for maximum corrosion resistance provides trouble-free transfer of power between motor and pump shaft.

Precision-engineered, quality-built and rugged 70 GPM Series submersibles may be used in wells 4" or larger. Maximum outside diameter 3-7/8".

Ranger 70 GPM Series

4" Multi-Stage Cast Iron Submersible Pumps

PUMP PERFORMANCE



Tested and rated in accordance with Water Systems Council Standards.

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.

Ranger 70 GPM Series

4" Multi-Stage Cast Iron Submersible Pumps

70 GALLONS PER MINUTE		PUMP PERFORMANCE (Capacity in gallons per minute)																							
HP	PSI	PUMPING DEPTH IN FEET																							
		20	40	60	80	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	
1-1/2	0	105	88	66	33																				
	20	58	15																						
	30																								
	40																								
	50																								
	60																								
2	0	-	99	88	75	59	26																		
	20	84	70	53	23																				
	30	68	49	13																					
	40	46																							
	50																								
	60																								
3	0	-	103	95	86	77	63	43																	
	20	93	84	74	62	47																			
	30	82	72	60	44																				
	40	71	58	41																					
	50	56	37																						
	60	35																							
5	0	-	110	106	102	98	93	87	80	72	64	54	42	27											
	20	105	101	97	92	88	81	74	65	56	45	30													
	30	100	96	92	87	81	74	66	57	46	31														
	40	96	91	86	81	74	67	58	47	32															
	50	90	85	80	74	67	58	48	34																
	60	84	79	73	66	59	48	35																	
7-1/2	0	-	-	109	106	103	100	96	91	87	82	76	71	65	58	50	41	29							
	20	-	106	103	100	96	92	87	82	77	71	65	59	52	42	31									
	30	105	102	99	96	92	88	83	78	72	66	59	52	43	32										
	40	102	98	95	92	88	83	78	73	67	60	53	44	33											
	50	98	95	91	87	84	78	73	67	61	53	44	34												
	60	94	90	87	83	79	73	68	61	54	46	35													
10	0	-	-	-	109	107	104	101	98	95	92	88	85	81	77	73	69	64	59	53	46	39	30		
	20	-	-	106	104	101	98	96	92	89	85	82	78	74	69	64	59	54	48	40					
	30	-	105	103	101	99	96	92	89	86	82	78	74	70	65	60	54	48	41	33					
	40	105	103	101	98	96	93	89	86	82	78	74	70	65	60	55	49	41	34						
	50	103	100	98	96	93	90	86	83	78	75	70	66	61	55	49	42	34							
	60	100	98	95	93	90	86	83	79	75	71	66	61	56	49	43	35								

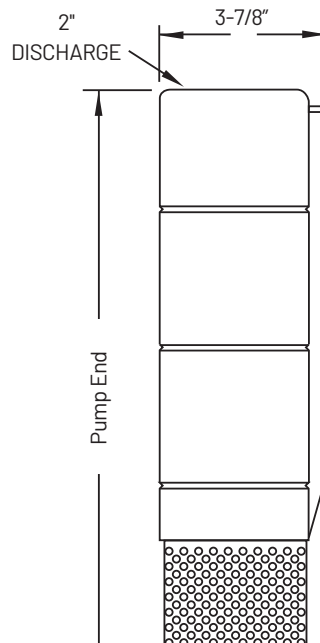
CAUTION: DO NOT use pump at flow rates indicated by the symbol '-'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions.

ORDERING INFORMATION

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*
2 WIRE	1-1/2	4	1	230	M70-15	21	28	P42B0015A2	29		
	1-1/2	4	1	230	M70-15	21	28	P42B0015A2	29	SMC-CR1521	7
	1-1/2	4	3	230	M70-15	21	28	P42B0015A3	23		
	1-1/2	4	3	460	M70-15	21	28	P42B0015A4	23		
	1-1/2	4	3	575	M70-15	21	28	P43B0015A5	23		
	2	6	1	230	M70-20	27-3/8	32	P43B0020A2	31	SMC-CR2021	7
	2	6	3	230	M70-20	27-3/8	32	P43B0020A3	31		
	2	6	3	460	M70-20	27-3/8	32	P43B0020A4	31		
	2	6	3	575	M70-20	27-3/8	32	P43B0020A5	32		
	3	8	1	230	M70-30	34	42	P43B0030A2	40	SMC-CR3021	7
	3	8	3	230	M70-30	34	42	P43B0030A3	32		
	3	8	3	460	M70-30	34	42	P43B0030A4	32		
	3	8	3	575	M70-30	34	42	P43B0030A5	32		
	3 WIRE	5	14	1	230	M70-50	54	68	P43B0050A2	70	SMC-CR5021
5		14	3	230	M70-50	54	68	P43B0050A3	55		
5		14	3	460	M70-50	54	68	P43B0050A4	55		
5		14	3	575	M70-50	54	68	P43B0050A5	70		
7-1/2		19	3	230	M70-75	70	116	P43B0075A3	70		
7-1/2		19	3	460	M70-75	70	116	P43B0075A4	70		
7-1/2		19	3	575	M70-75	70	116	P43B0075A5	70		
10		25	3	460	M70-100	90	156	P43B0100A4	78		

*Length and Weight are approximate. NOTE: Pump end and motor purchased separately. Check valve sold separately.

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

For lengths, refer to Ordering Information table.



293 Wright Street,
Delavan, WI 53115
USA
Ph: 888.782.7483
Orders Fax: 800.426.9446

490 Pinebush Road
Unit 4
Cambridge, Ontario N1T 0A5
Canada
Ph: 800.363.7867
Orders Fax: 888.606.5484

PENTAIR.COM

Noryl® is a registered trademark of SABIC Global Technologies B.V.
Nylatron® is a registered trademark of Mitsubishi Chemical Advanced Materials Inc.

All indicated Pentair trademarks and logos are property of Pentair. Third party registered and unregistered trademarks and logos are the property of their respective owners. Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice. Pentair is an equal opportunity employer.

M9111-70WS (04/01/21) ©2021 Pentair. All Rights Reserved.