

These Grundfos submersible pumps are made of stainless steel and retrofitted with PTFE to handle the rigors of contaminated groundwater pumping and continuous operation in remediation applications. Built to deliver optimum efficiency during periods of high demand, all Grundfos pumps provide low, long-term operating costs and high operating reliability regardless of the application.

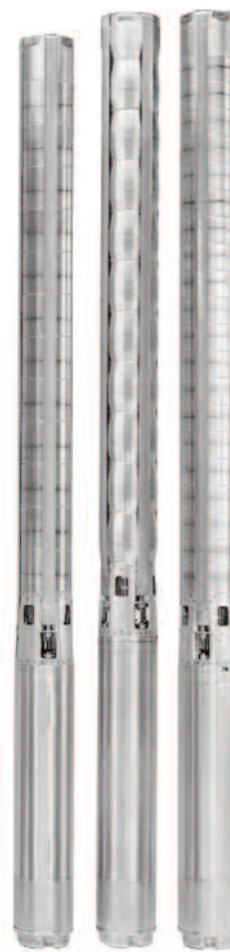
Grundfos Enviro retrofitted submersibles meet government guidelines for environmental equipment and have been proven through extensive use in the field.

FEATURES

- **Made For 6" (15 cm) and Larger Wells**
Flow rates of 18 to 118 GPM (68.1 to 446.7 LPM).
- **State-of-the-art Hydraulics**
Pump efficiency is maximized by constant improvement of the highperformance hydraulic design, and precise manufacturing process.
- **Manufactured With High-grade Stainless Steel**
Rugged stainless steel construction inside and out resists corrosion and attack from aggressive liquids.
- **Wear-resistant Design**
Designed to flush abrasive particles from the pump, and made from stainless steel to resist wear caused by abrasives.
- **Built-in Check Valve**
Prevents back-flow into the well once the pump is shut down.
- **User Friendly Cable Guard For Easy Installation**
- **1½ to 50 HP Motors**
Stainless steel construction and quality design.
- **Motor Controls and Protection**
Available controls to protect the motor against burnout and dry-running, plus the ability to monitor the system allowing the user to optimize settings.

OPERATION

Typical clean-up operations include water table depression techniques to isolate and remove dissolved contaminants. With correct placement of the recovery well and proper sizing of the depression pump, the water table is depressed to stop and reverse the movement of the contamination plume. Once isolated, the contaminant is removed for treatment, re-use, or proper disposal.



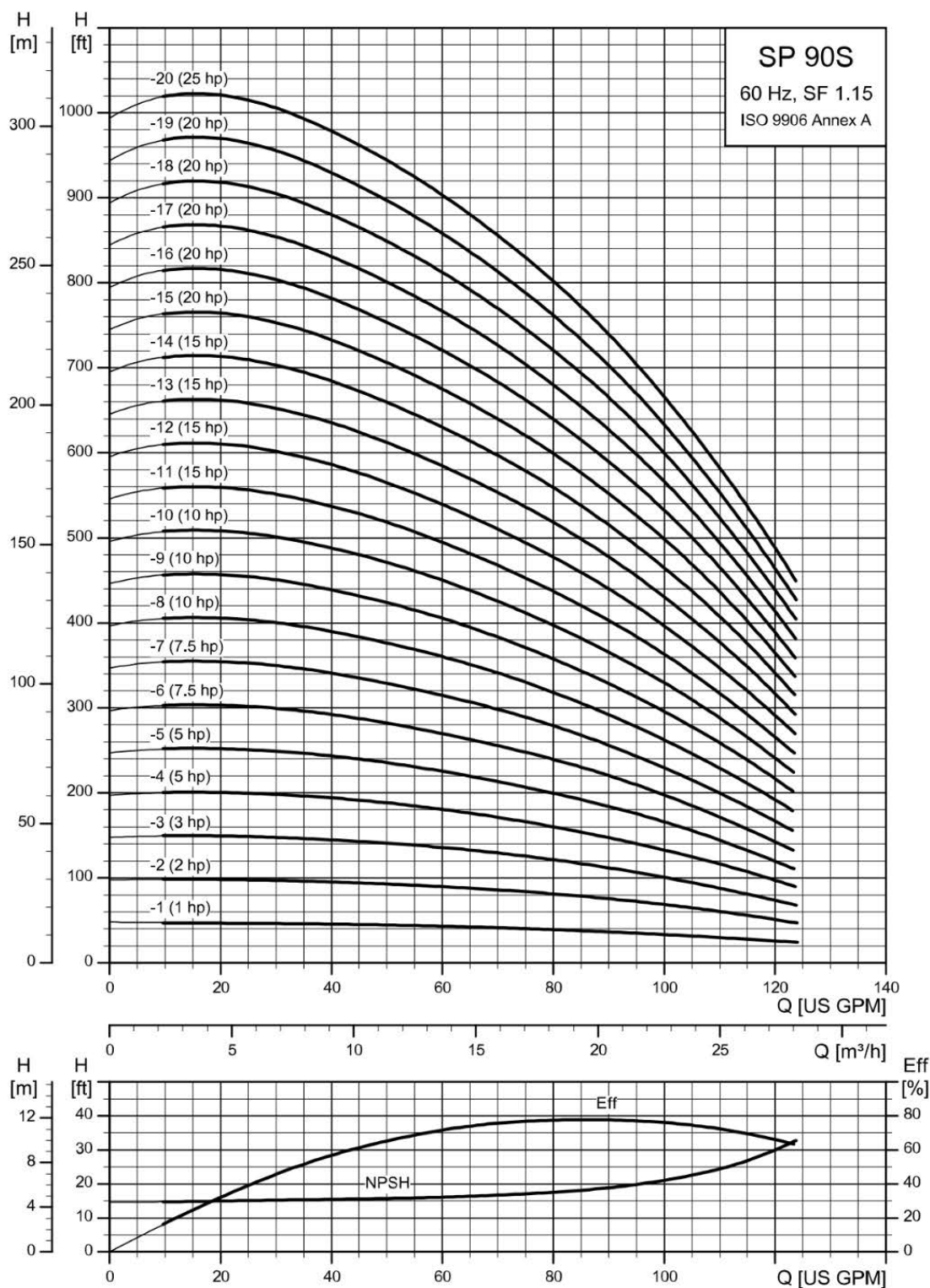
GRUNDFOS 

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6" and larger wells SP 90S (90 gpm)



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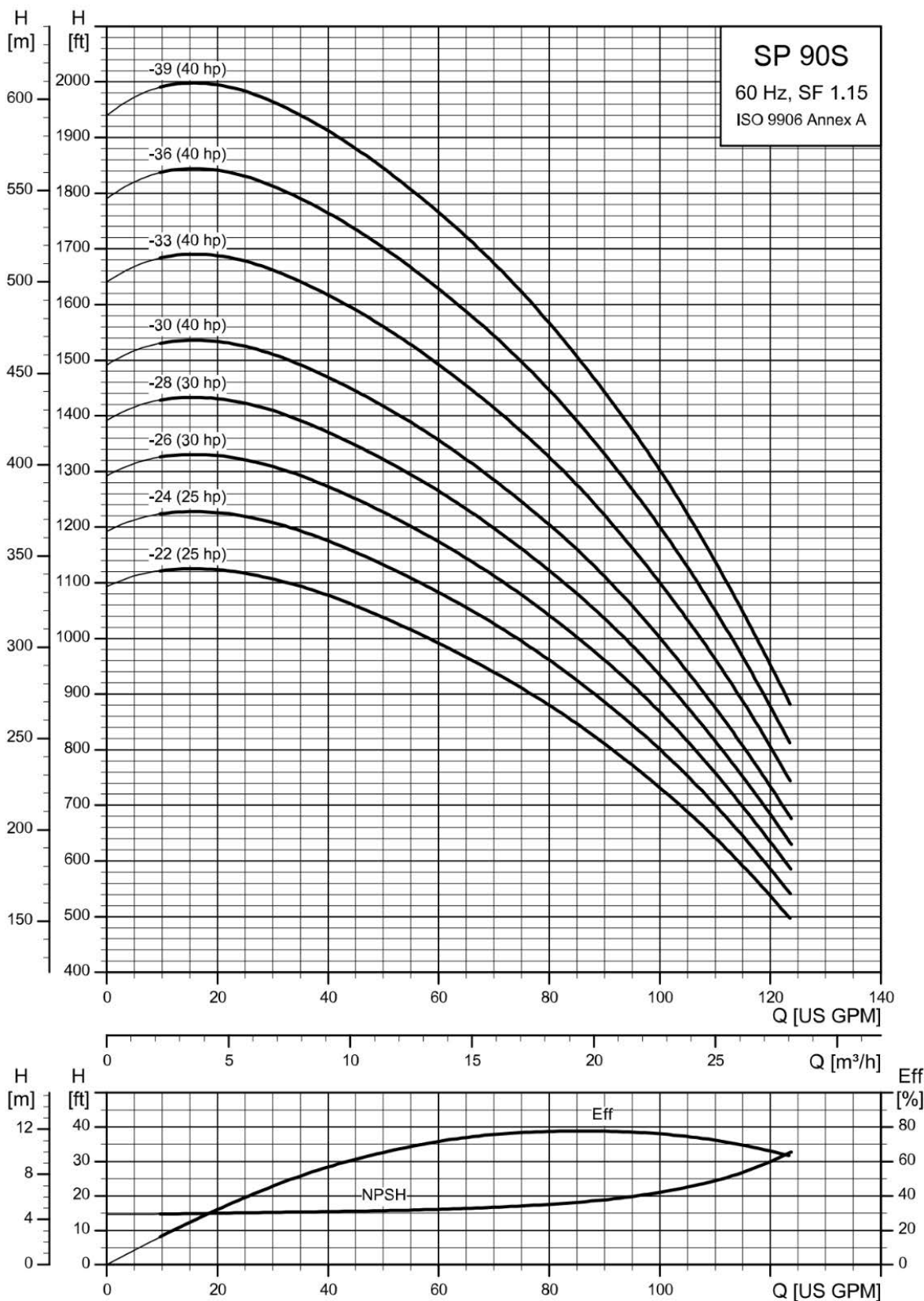
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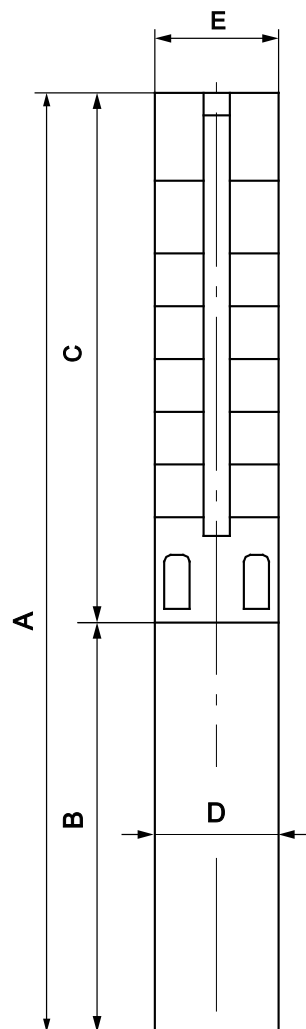
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SP 90S (90 gpm) pump with 4” motors																
Pump Model	Nom. head (ft)	Motor				Dimensions										Net weight (complete, lbs)
		Ph	Volts (V)	Hp	RPM	A		B		C		D		E		
						in	mm	in	mm	in	mm	in	mm	in	mm	
90S - Motor Diameter 4-inch, 3-wire motor, 60 Hz, rated flow rate 90 gpm (3” NPT)																
90S 10-1	42	1	230	1	3519	25	634	12.17	309	12.80	325	3.75	95	5.28	134	32.2
90S 10-1	42	3	230	1	3516	28.62	727	15.83	402	12.80	325	3.75	95	5.28	134	40.2
90S 10-1	42	3	460	1	3516	28.62	727	15.83	402	12.80	325	3.75	95	5.28	134	40.2
90S 20-2	87	1	230	2	3500	34.72	882	19.57	497	15.16	385	3.75	95	5.28	134	53.1
90S 20-2	87	3	230	2	3491	31.57	802	16.42	417	15.16	385	3.75	95	5.28	134	45.4
90S 20-2	88	3	460	2	3517	31.57	802	16.42	417	15.16	385	3.75	95	5.28	134	45.4
90S 30-3	135	1	230	3	3520	40.28	1023	22.72	577	17.56	446	3.75	95	5.28	134	64.9
90S 30-3	134	3	230	3	3531	35.55	903	17.99	457	17.56	446	3.75	95	5.28	134	51.7
90S 30-3	135	3	460	3	3530	35.55	903	17.99	457	17.56	446	3.75	95	5.28	134	52.8
90S 50-4	170	1	230	5	3482	46.58	1183	26.66	677	19.93	506	3.75	95	5.28	134	79
90S 50-4	171	3	230	5	3502	42.63	1083	22.68	577	19.93	506	3.75	95	5.28	134	68
90S 50-4	171	3	460	5	3500	42.63	1083	22.68	577	19.93	506	3.75	95	5.28	134	68
90S 50-5	215	3	230	5	3510	45.03	1144	22.68	577	22.33	567	3.75	95	5.28	134	71
90S 50-5	215	3	460	5	3510	45.03	1144	22.68	577	22.33	567	3.75	95	5.28	134	71
90S 75-6	256	3	230	7.5	3490	51.33	1304	26.65	677	24.69	627	3.75	95	5.28	134	85
90S 75-6	256	3	460	7.5	3490	51.33	1304	26.65	677	24.69	627	3.75	95	5.28	134	85
90S 75-7	301	3	460	7.5	3503	53.74	1365	26.65	677	27.09	688	3.75	95	5.28	134	88.1
90S 100-8	342	3	460	10	3488	60.03	1525	30.59	777	29.45	748	3.75	95	5.28	134	99.9
90S 100-9	382	3	460	10	3472	62.41	1585	30.59	777	31.86	809	3.75	95	5.28	134	102.9
SP 90S (90 gpm) pump with 6” motors																
90S - Motor Diameter 6-inch, 3-wire motor, 60 Hz, rated flow rate 90 gpm (3” NPT)																
-	-	3	208	5	3480	-	-	23.51	597	-	-	5.50	139.5	-	-	80
-	-	3	230	5	3510	-	-	23.51	597	-	-	5.50	139.5	-	-	80
-	-	3	460	5	3500	-	-	23.51	597	-	-	5.50	139.5	-	-	80
90S 50-5	216	3	230	5	3516	46.50	1181	23.51	597	23.08	584	5.52	140	5.59	142	113.4
90S 50-5	217	3	460	5	3523	46.50	1181	23.51	597	23.08	584	5.52	140	5.59	142	113.4
90S 75-6	257	3	230	7.5	3498	48.86	1241	23.51	597	25.44	644	5.52	140	5.59	142	114.8
90S 75-6	258	3	460	7.5	3507	48.86	1241	23.51	597	25.44	644	5.52	140	5.59	142	114.8
90S 75-7	301	3	230	7.5	3505	52.44	1332	24.69	627	27.84	705	5.52	140	5.59	142	116.1
90S 75-7	303	3	460	7.5	3513	52.44	1332	24.69	627	27.84	705	5.52	140	5.59	142	116.1
90S 100-8	342	3	230	10	3490	54.80	1392	24.69	627	30	765	5.52	140	5.59	142	124.2
90S 100-8	344	3	460	10	3500	54.80	1392	24.69	627	30	765	5.52	140	5.59	142	124.2
90S 100-9	383	3	230	10	3474	57.20	1453	24.69	627	32.52	826	5.52	140	5.59	142	127.2
90S 100-9	385	3	460	10	3486	57.20	1453	24.69	627	32.52	826	5.52	140	5.59	142	127.2
90S 100-10	432	3	230	10	3509	59.57	1513	24.69	627	34.88	886	5.52	140	5.59	142	130.2
90S 100-10	433	3	460	10	3513	59.57	1513	24.69	627	34.88	886	5.52	140	5.59	142	130.2
90S 150-11	473	3	230	15	3499	64.33	1634	27.05	687	37.28	947	5.52	140	5.59	142	153
90S 150-11	374	3	460	15	3503	64.33	1634	27.05	687	37.28	947	5.52	140	5.59	142	153
90S150-12	513	3	230	15	3489	66.69	1694	27.05	687	39.65	1007	5.52	140	5.59	142	156.1
90S150-12	514	3	460	15	3494	66.69	1694	27.05	687	39.65	1007	5.52	140	5.59	142	156.1
90S150-13	553	3	230	15	3479	69.09	1755	27.05	687	42.05	1068	5.52	140	5.59	142	159.1
90S150-13	554	3	460	15	3484	69.09	1755	27.05	687	42.05	1068	5.52	140	5.59	142	159.1



E = Maximum diameter of pump including cable guard and motor

Notes:
Data does not include control box.
1999 (E) Annex A. Minimum submergence is 5 ft. (1.5m)

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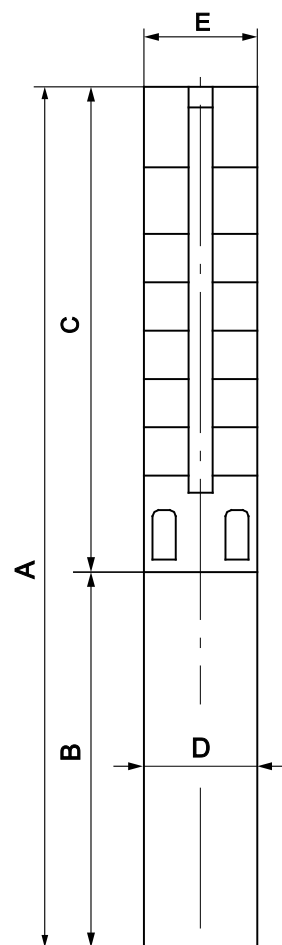
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SP 90S (90 gpm) pump with 6", 8" motors

		Motor				Dimensions											
Pump Model	Nom. head (ft)	Ph	Volts (V)	Hp	RPM	A		B		C		D		E		Net weight (complete, lbs)	
90S - Motor Diameter 6-inch, 3-wire motor, 60 Hz, rated flow rate 90 gpm (3" NPT)																	
90S 150-14	604	3	230	15	3505	71.46	1815	27.05	687	44.41	1128	5.52	140	5.59	142	162.1	
90S 150-14	607	3	460	15	3513	71.46	1815	27.05	687	44.41	1128	5.52	140	5.59	142	162.1	
90S 200-15	644	3	230	20	3497	76.42	1941	29.61	752	46.89	1189	5.52	140	5.59	142	180.1	
90S 200-15	648	3	460	20	3507	76.42	1941	29.61	752	46.89	1189	5.52	140	5.59	142	180.1	
90S 200-16	685	3	230	20	3490	78.78	2001	29.61	752	49.17	1249	5.52	140	5.59	142	183.6	
90S 200-16	689	3	460	20	3500	78.78	2001	29.61	752	49.17	1249	5.52	140	5.59	142	183.6	
90S 200-17	724	3	230	20	3482	81.18	2062	29.61	752	51.57	1310	5.52	140	5.59	142	186.6	
90S 200-17	729	3	460	20	3493	81.18	2062	29.61	752	51.57	1310	5.52	140	5.59	142	186.6	
90S 200-18	764	3	230	20	3474	83.54	2122	29.61	752	53.94	1370	5.52	140	5.59	142	189.6	
90S 200-18	769	3	460	20	3486	83.54	2122	29.61	752	53.94	1370	5.52	140	5.59	142	189.6	
90S 200-19	817	3	230	20	3497	85.94	2183	29.61	752	56.34	1431	5.52	140	5.59	142	192.6	
90S 200-19	821	3	460	20	3506	85.94	2183	29.61	752	56.34	1431	5.52	140	5.59	142	192.6	
90S 250-20	857	3	230	25	3491	90.47	2298	31.78	807	58.70	1491	5.52	140	5.59	142	205.6	
90S 250-20	862	3	460	25	3501	90.47	2298	31.78	807	58.70	1491	5.52	140	5.59	142	205.6	
90S 250-22	936	3	230	25	3479	95.24	2419	31.78	807	63.46	1612	5.52	140	5.59	142	211.6	
90S 250-22	942	3	460	25	3490	95.24	2419	31.78	807	63.46	1612	5.52	140	5.59	142	211.6	
90S 250-24	1023	3	230	25	3482	100	2540	31.78	807	68.23	1733	5.52	140	5.59	142	217.7	
90S 250-24	1030	3	460	25	3493	100	2540	31.78	807	68.23	1733	5.52	140	5.59	142	217.7	
90S 300-26	1102	3	230	30	3471	107.12	2721	34.14	867	72.99	1854	5.52	140	5.59	142	239.1	
90S 300-26	1110	3	460	30	3483	107.12	2721	34.14	867	72.99	1854	5.52	140	5.59	142	239.1	
90S 300-28	1212	3	460	30	3508	111.89	2842	34.14	867	77.76	1975	5.52	140	5.59	142	245.2	
90S 400-30	1294	3	460	40	3501	121.77	3093	39.26	997	82.52	2096	5.52	140	5.59	142	281.0	
90S 400-33DS	1416	3	460	40	3490	143.54	3646	39.26	997	104.29	2649	5.52	140	6.89	175	353.0	
90S 400-36DS	1535	3	460	40	3479	150.67	3827	39.26	997	111.42	2830	5.52	140	6.89	175	364.0	
90S - Motor diameter 8-Inch, 60Hz, rate flow rate 85 gpm (3"NPT)																	
90S 400-33DS	1427	3	460	40	3505	145.12	3756	46.46	1180	101.42	2576	7.56	192	7.56	192	522.7	
90S 400-36DS	1549	3	460	40	3496	155	3937	46.46	1180	108.55	2757	7.56	192	7.56	192	533.8	
90S 400-39DS	1690	3	460	50	3508	162	4119	46.46	1180	115.71	2939	7.56	192	7.56	192	544.8	



E = Maximum diameter of pump including cable guard and motor

Notes:

Built into sleeve 3" NPT dis-charge, 8" (20 cm) minimum well diameter. 1999 (e) Annex A. Minimum submergence is 5ft (1.5m).

Materials of Construction

Component	Cylindrical Shaft (1-39 Stgs.)	Component	Cylindrical Shaft (1-39 Stgs.)	Component	Cylindrical Shaft (1-39 Stgs.)
Check Valve Housing	304 Stainless Steel	Cable Guard	304 Stainless Steel	8" Motor Adaptor Plate	304 Stainless Steel
Check Valve		Priming Inducer		Sleeve *	316 Stainless Steel
Diffuser Chamber		Coupling	316/329 Stainless Steel **	Sleeve Flange	304 Stainless Steel
Split cone Nut		Pump Shaft	431 Stainless Steel	Notes: Specifications are subject to change without notice. *Required for 29-39 stage models. ** 4" Coupling Made of 316 Stainless Steel	
Split Cone		Intermediate Bearings	PTFE		
Impeller		Impeller Seal Ring	PTFE		
Suction Interconnector		Check Valve Seat	NBR/316 Stainless Steel		
Inlet Screen		Top Bearing	PTFE/304 Stainless Steel		
Seal Ring Support Plate		Upthrust Disc	Carbon/Graphite		
Straps		Upthrust Stop Washer	304 Stainless Steel		

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