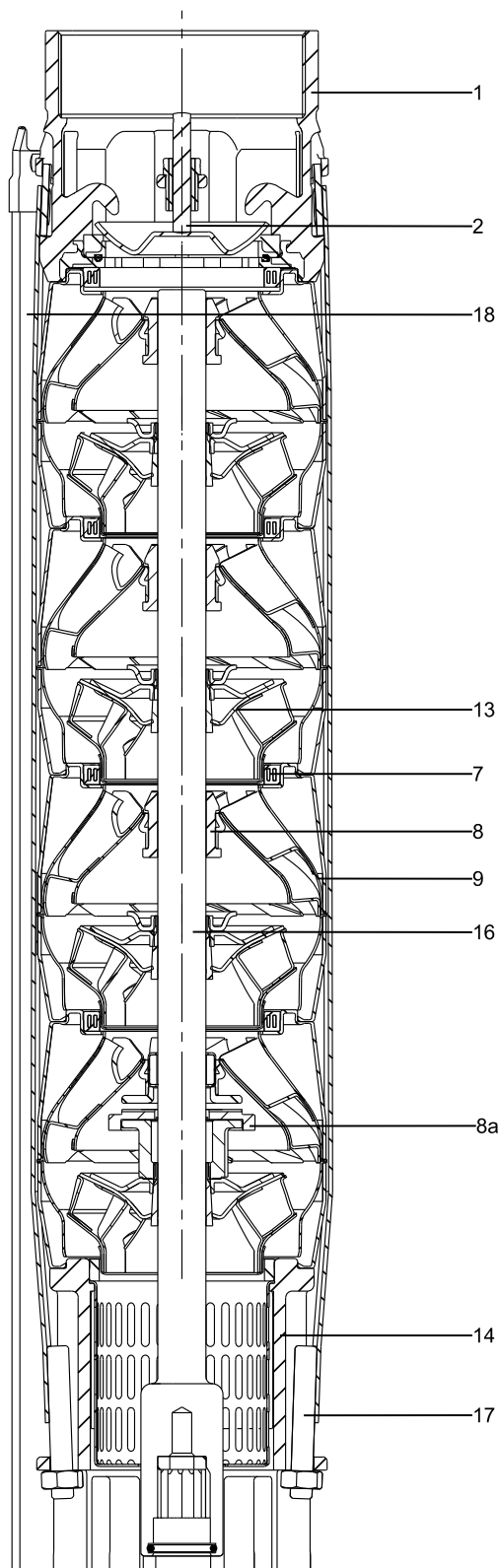


Sectional drawing, SP pump 6" (SP 85S - 300S)



Material specification

Pos.	Component	Material	Standard	N-version	R-version
			[AISI (EN)]		
1	Valve casing	Stainless steel	304 (1.4301)	316 (1.4401)	904L (1.4539)
2	Valve cup	Stainless steel	304 (1.4301)	316 (1.4401)	904L (1.4539)
	Valve seat	NBR-FKM	NBR-FKM	NBR-FKM	NBR-FKM
7	Neck ring	NBR-FKM	NBR-FKM	NBR-FKM	NBR-FKM
8	Bearing	NBR-FKM-LSR	NBR-FKM-LSR	NBR-FKM-LSR	NBR-FKM-LSR
	Washer for stop ring	Carbon/graphite HY22 in PTFE mass			
9	Chamber	Stainless steel	304 (1.4301)	316 (1.4401)	904L (1.4539)
13	Impeller	Stainless steel	304 (1.4301)	316 (1.4401)	904L (1.4539)
14	Suction interconnector	Cast stainless steel	304 (1.4308)	316 (1.4408)	904L (1.4517)
	Strainer	Stainless steel	304 (1.4301)	316 (1.4401)	904L (1.4539)
16	Shaft complete	Stainless steel	431 (1.4057)	329 (1.4460)	904L (1.4462)
17	Strap	Stainless steel	304 (1.4301)	316 (1.4401)	904L (1.4539)
18	Cable guard	Stainless steel	304 (1.4301)	316 (1.4401)	904L (1.4539)

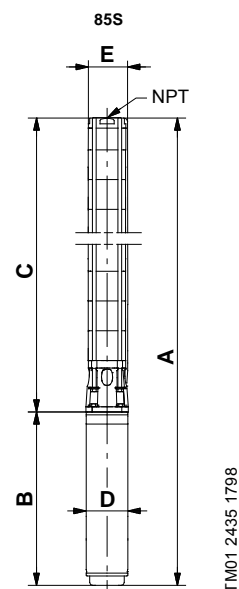
Fig. 15 Example, 6" (SP 85S - 300S)

TM06 1521 1614

6" and larger wells - continued

SP 85S (85 gpm) / 4, 6 inch motors

Pump model	Nom. head [ft]	Ph	Volts [V]	Motor [Hp]	Dimensions					Net weight (complete) [lb (kg)]	
					A [in. (mm)]	B [in. (mm)]	C [in. (mm)]	D [in. (mm)]	E [in. (mm)]		
85S - Motor dia. 4 inch, 3 wire motor, 60 Hz, rated flow 85 gpm (3" NPT)											
85S15-1	35	1	230	1.5	■	28.04 (712)	15.24 (387)	12.80 (325)	3.75 (95)	5.28 (134)	29.7
		3	230	1.5	■	26.46 (672)	13.67 (347)	12.80 (325)	3.75 (95)	5.28 (134)	29.7
		3	460	1.5	■	26.46 (672)	13.67 (347)	12.80 (325)	3.75 (95)	5.28 (134)	29.7
85S30-2	74	1	230	3	●	37.88 (962)	22.72 (577)	15.16 (385)	3.75 (95)	5.28 (134)	55.8
		3	230	3	●	33.12 (841)	17.96 (456)	15.16 (385)	3.75 (95)	5.28 (134)	47.7
		3	460	3	●	33.12 (841)	17.96 (456)	15.16 (385)	3.75 (95)	5.28 (134)	47.7
85S50-3	114	1	230	5	●	44.22 (1123)	26.66 (677)	17.56 (446)	3.75 (95)	5.28 (134)	67.5
		3	230	5	●	40.24 (1022)	22.68 (576)	17.56 (446)	3.75 (95)	5.28 (134)	51.3
		3	460	5	●	40.24 (1022)	22.68 (576)	17.56 (446)	3.75 (95)	5.28 (134)	51.3
85S50-4	154	1	230	5	●	46.58 (1183)	26.66 (677)	19.93 (506)	3.75 (95)	5.28 (134)	69.3
		3	230	5	●	42.60 (1082)	22.68 (576)	19.93 (506)	3.75 (95)	5.28 (134)	61.2
		3	460	5	●	42.60 (1082)	22.68 (576)	19.93 (506)	3.75 (95)	5.28 (134)	61.2
85S75-5	194	3	230	7.5	●	48.94 (1243)	26.62 (676)	22.33 (567)	3.75 (95)	5.28 (134)	73.8
		3	460	7.5	●	48.94 (1243)	26.62 (676)	22.33 (567)	3.75 (95)	5.28 (134)	73.8
85S75-6	234	3	230	7.5	●	51.30 (1303)	26.62 (676)	24.69 (627)	3.75 (95)	5.28 (134)	85.5
		3	460	7.5	●	51.30 (1303)	26.62 (676)	24.69 (627)	3.75 (95)	5.28 (134)	76.5
85S100-7	274	3	460	10	●	57.64 (1464)	30.56 (776)	27.09 (688)	3.75 (95)	5.28 (134)	136.8
85S100-8	314	3	460	10	●	60.00 (1524)	30.56 (776)	29.45 (748)	3.75 (95)	5.28 (134)	138.6
85S100-9	353	3	460	10	●	62.41 (1585)	30.56 (776)	31.86 (809)	3.75 (95)	5.28 (134)	140.4
85S - Motor dia. 6 inch, 3 wire motor, 60 Hz, rated flow 85 gpm (3" NPT)											
85S75-5	194	3	230	7.5	▲	46.58 (1183)	23.51 (597)	23.08 (586)	5.52 (140)	5.52 (140)	98.1
		3	460	7.5	▲	46.58 (1183)	23.51 (597)	23.08 (586)	5.52 (140)	5.52 (140)	98.1
85S75-6	234	3	230	7.5	▲	48.94 (1243)	23.51 (597)	25.44 (646)	5.52 (140)	5.52 (140)	99.9
		3	460	7.5	▲	48.94 (1243)	23.51 (597)	25.44 (646)	5.52 (140)	5.52 (140)	99.9
85S100-7	274	3	230	10	▲	52.52 (1334)	24.69 (627)	27.84 (707)	5.52 (140)	5.52 (140)	103.5
		3	460	10	▲	52.52 (1334)	24.69 (627)	27.84 (707)	5.52 (140)	5.52 (140)	103.5
85S100-8	314	3	230	10	▲	54.89 (1394)	24.69 (627)	30.20 (767)	5.52 (140)	5.52 (140)	105.3
		3	460	10	▲	54.89 (1394)	24.69 (627)	30.20 (767)	5.52 (140)	5.52 (140)	105.3
85S100-9	353	3	230	10	▲	57.29 (1455)	24.69 (627)	32.60 (828)	5.52 (140)	5.52 (140)	108.0
		3	460	10	▲	57.29 (1455)	24.69 (627)	32.60 (828)	5.52 (140)	5.52 (140)	108.0
85S150-10	393	3	230	15	▲	62.01 (1575)	27.05 (687)	34.97 (888)	5.52 (140)	5.52 (140)	122.4
		3	460	15	▲	62.01 (1575)	27.05 (687)	34.97 (888)	5.52 (140)	5.52 (140)	122.4
85S150-11	433	3	230	15	▲	64.41 (1636)	27.05 (687)	37.37 (949)	5.52 (140)	5.52 (140)	126.0
		3	460	15	▲	64.41 (1636)	27.05 (687)	37.37 (949)	5.52 (140)	5.52 (140)	126.0
85S150-12	473	3	230	15	▲	66.78 (1696)	27.05 (687)	39.73 (1009)	5.52 (140)	5.52 (140)	133.2
		3	460	15	▲	66.78 (1696)	27.05 (687)	39.73 (1009)	5.52 (140)	5.52 (140)	133.2
85S150-13	513	3	230	15	▲	69.18 (1757)	27.05 (687)	42.13 (1070)	5.52 (140)	5.52 (140)	135.0
		3	460	15	▲	69.18 (1757)	27.05 (687)	42.13 (1070)	5.52 (140)	5.52 (140)	135.0



E = Maximum diameter of pump including cable guard and motor.

TM01 2435 1798

Notes:

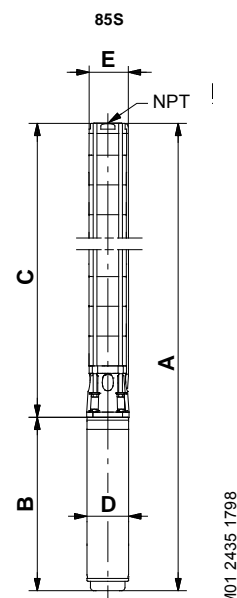
Control box is required for 3-wire, single-phase applications. Data does not include control box. Performance conforms to ISO 9906. 1999 (E) Annex A. Minimum submergence is 2 feet.

- MS 402 motor.
- MS 4000 motor.
- ▲ MS 6000C motor.

6" and larger wells - continued

SP 85S (85 gpm) / 6, 8 inch motors

Pump model	Nom. head [ft]	Ph	Volts [V]	Motor [Hp]	Dimensions					Net weight (complete) [lb]	
					A [in. (mm)]	B [in. (mm)]	C [in. (mm)]	D [in. (mm)]	E [in. (mm)]		
85S - Motor dia. 6 inch, 60 Hz, rated flow 85 gpm (3" NPT)											
85S200-14	533	3	230	20	▲	74.10 (1882)	29.61 (752)	44.49 (1130)	5.52 (140)	5.52 (140)	143.1
		3	460	20	▲	74.10 (1882)	29.61 (752)	44.49 (1130)	5.52 (140)	5.52 (140)	143.1
85S200-15	593	3	230	20	▲	76.50 (1943)	29.61 (752)	46.89 (1191)	5.52 (140)	5.52 (140)	147.6
		3	460	20	▲	76.50 (1943)	29.61 (752)	46.89 (1191)	5.52 (140)	5.52 (140)	147.6
85S200-16	633	3	230	20	▲	78.86 (2003)	29.61 (752)	49.26 (1251)	5.52 (140)	5.52 (140)	157.5
		3	460	20	▲	78.86 (2003)	29.61 (752)	49.26 (1251)	5.52 (140)	5.52 (140)	157.5
85S200-17	672	3	230	20	▲	81.26 (2064)	29.61 (752)	51.66 (1312)	5.52 (140)	5.52 (140)	160.2
		3	460	20	▲	81.26 (2064)	29.61 (752)	51.66 (1312)	5.52 (140)	5.52 (140)	160.2
85S200-18	712	3	230	20	▲	83.63 (2124)	29.61 (752)	54.02 (1372)	5.52 (140)	5.52 (140)	161.1
		3	460	20	▲	83.63 (2124)	29.61 (752)	54.02 (1372)	5.52 (140)	5.52 (140)	179.0
85S250-19	752	3	230	25	▲	88.19 (2240)	31.78 (807)	56.42 (1433)	5.52 (140)	5.52 (140)	191.7
		3	460	25	▲	88.19 (2240)	31.78 (807)	56.42 (1433)	5.52 (140)	5.52 (140)	191.7
85S250-20	792	3	230	25	▲	90.56 (2300)	31.78 (807)	58.78 (1493)	5.52 (140)	5.52 (140)	195.3
		3	460	25	▲	90.56 (2300)	31.78 (807)	58.78 (1493)	5.52 (140)	5.52 (140)	195.3
85S250-21	832	3	230	25	▲	92.96 (2361)	31.78 (807)	61.19 (1554)	5.52 (140)	5.52 (140)	198.0
		3	460	25	▲	92.96 (2361)	31.78 (807)	61.19 (1554)	5.52 (140)	5.52 (140)	198.0
85S250-22	872	3	230	25	▲	95.32 (2421)	31.78 (807)	63.55 (1614)	5.52 (140)	5.52 (140)	199.8
		3	460	25	▲	95.32 (2421)	31.78 (807)	63.55 (1614)	5.52 (140)	5.52 (140)	199.8
85S300-23	912	3	230	30	▲	100.08 (2542)	34.14 (867)	65.95 (1675)	5.52 (140)	5.52 (140)	199.8
		3	460	30	▲	100.08 (2542)	34.14 (867)	65.95 (1675)	5.52 (140)	5.52 (140)	199.8
85S300-24	952	3	230	30	▲	102.45 (2602)	34.14 (867)	68.31 (1735)	5.52 (140)	5.52 (140)	216.0
		3	460	30	▲	102.45 (2602)	34.14 (867)	68.31 (1735)	5.52 (140)	5.52 (140)	216.0
85S300-25	991	3	230	30	▲	104.85 (2663)	34.14 (867)	70.71 (1796)	5.52 (140)	5.52 (140)	219.6
		3	460	30	▲	104.85 (2663)	34.14 (867)	70.71 (1796)	5.52 (140)	5.52 (140)	219.6
85S300-26	1031	3	230	30	▲	107.21 (2723)	34.14 (867)	73.08 (1856)	5.52 (140)	5.52 (140)	221.4
		3	460	30	▲	107.21 (2723)	34.14 (867)	73.08 (1856)	5.52 (140)	5.52 (140)	221.4
85S400-27	1071	3	460	40	▲	109.61 (2784)	34.14 (867)	75.48 (1917)	5.52 (140)	5.52 (140)	234.9
85S400-28	1111	3	460	40	▲	117.09 (2974)	39.26 (997)	77.84 (1977)	5.52 (140)	5.52 (140)	246.6
85S400-29	1151	3	460	40	▲	119.49 (3035)	39.26 (997)	80.24 (2038)	5.52 (140)	5.52 (140)	248.4
85S400-30	1191	3	460	40	▲	121.86 (3095)	39.26 (997)	82.60 (2098)	5.52 (140)	5.52 (140)	270.0
85S400-33DS	1310	3	460	40	▲	142.88 (3629)	39.26 (997)	103.63 (2632)	5.52 (140)	6.89 (175)	515.5
85S400-36DS	1430	3	460	40	▲	150.00 (3810)	39.26 (997)	110.75 (2813)	5.52 (140)	6.89 (175)	454.8
85S500-39DS	1510	3	460	50	▲	173.94 (4418)	56.03 (1423)	117.92 (2995)	5.63 (143)	6.89 (175)	469.0
85S - Motor dia. 8 inch, 60 Hz, rated flow 85 gpm (3" NPT)											
85S400-33DS	1310	3	460	40	★	145.12 (3686)	43.71 (1110)	101.42 (2576)	7.56 (192)	7.56 (192)	652.7
85S400-36DS	1310	3	460	40	★	152.25 (3867)	43.71 (1110)	108.55 (2757)	7.56 (192)	7.56 (192)	592.0
85S400-39DS	1510	3	460	50	★	159.41 (4049)	43.71 (1110)	115.71 (2939)	7.56 (192)	7.56 (192)	537.2



E = Maximum diameter of pump including cable guard and motor.

TM01 2435 1798

Notes:

Control box is required for 3-wire, single-phase applications. Data does not include control box.

DS designation = Built into sleeve, 1 - 1/2" NPT, 6" minimum well diameter.

Performance conforms to ISO 9906: 1999 (E) Annex A. Minimum submergence is 2 feet.

- ▲ MS 6000C motor.
- ★ MMS 8000 motor.