

8S Submersible Borehole Pumps For 8" Well

Construction

Submersible borehole 8"(200mm) pumps for deep wells are constructed with LTB various flow impellers and diffusers. The specially designed Impeller and diffuser achieve both high head and discharge performances. The Cast Iron and hydraulic material prevents the impeller from clogging even after long stationary periods.

Applications

- Agriculture
- Domestic Building Services
- Public Utilities

Operating Conditions

- Liquid temperature : upto 50 °C
- Total Solids : 3000ppm (Max.)
- Durability : 50ppm (Silica Scale Max.)
- Continuous duty

Water filled Rewindable motor

- 2-pole Induction motor, 50Hz (n= 2900 rpm)
- For single phase 230V and for Three Phase 440V
- Voltage tolerances : +6% -15%
- Insulation class : B

Special features

- Versions for star/delta start (SD)
- Special Winding designs for different voltage supplies

MATERIAL SPECIFICATIONS

PUMP

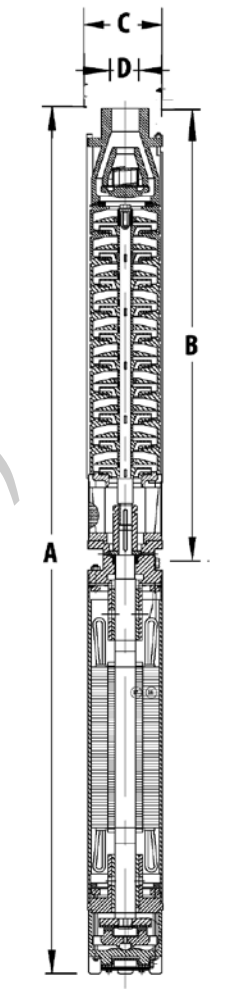
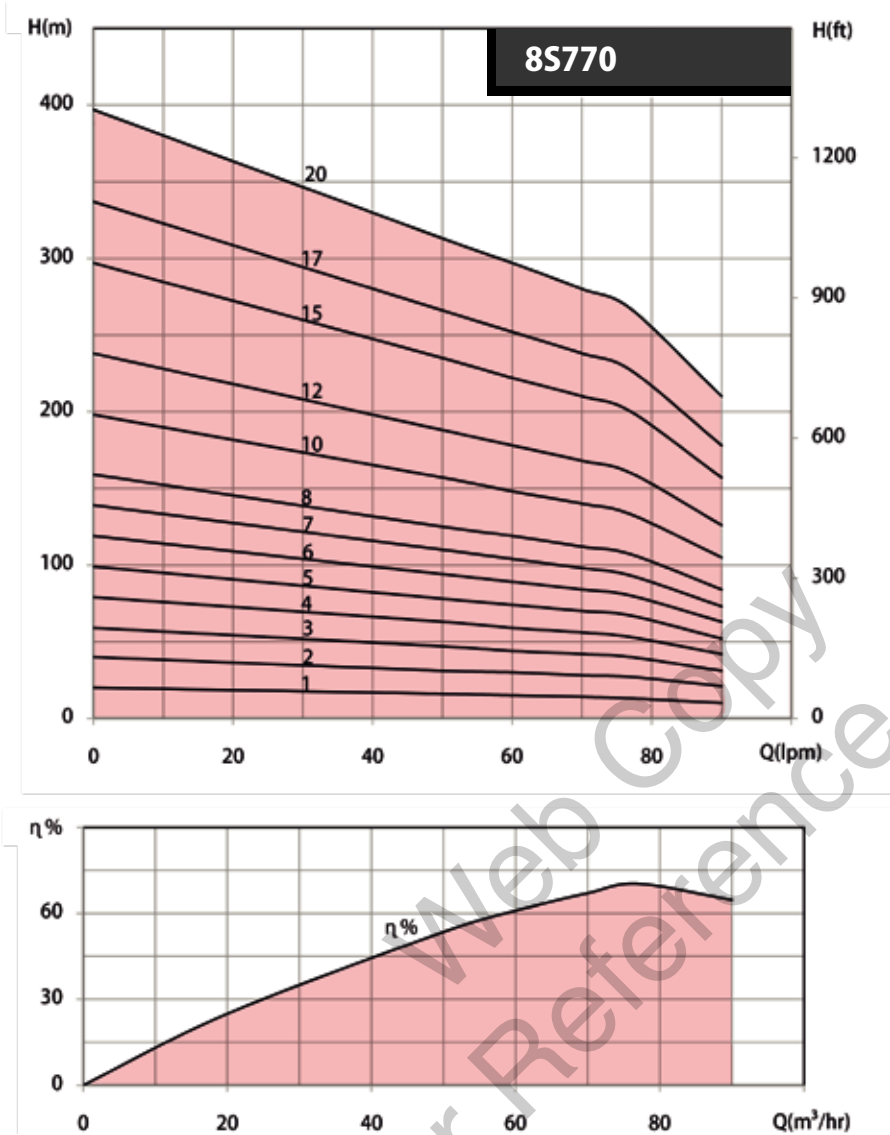
Components	Materials
Suction Housing	SS 304
Diffuser	SS 304
Impeller	SS 410
Pump Shaft	SS 420
Sleeve	SS 410
NRV Body	SS 304
Locking Strip	SS 304
Guide Bushes	LTB4, Rubber
Strainer	SS 202

MOTOR

Components	Materials
Body	SS 304
Housings	Cast Iron FG 200
Rotor shaft	SS 420 (Hardened)
Thrust Bearing	Carbon , SS410
Bearing Bush	LTB4
Seal	Oil Seal, Nitrile Rubber



Characteristic Curves

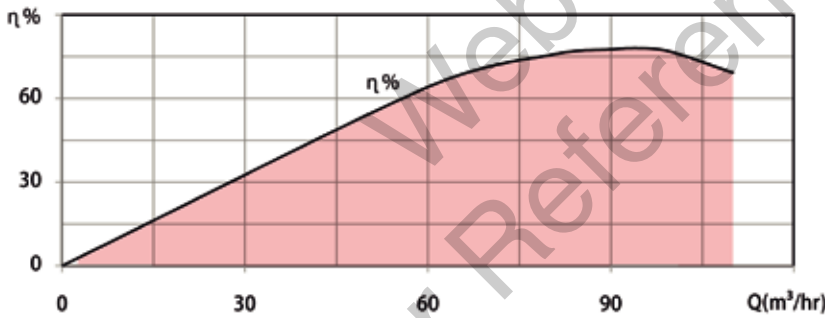
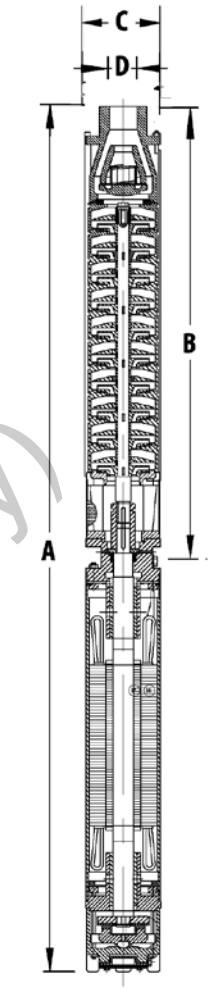
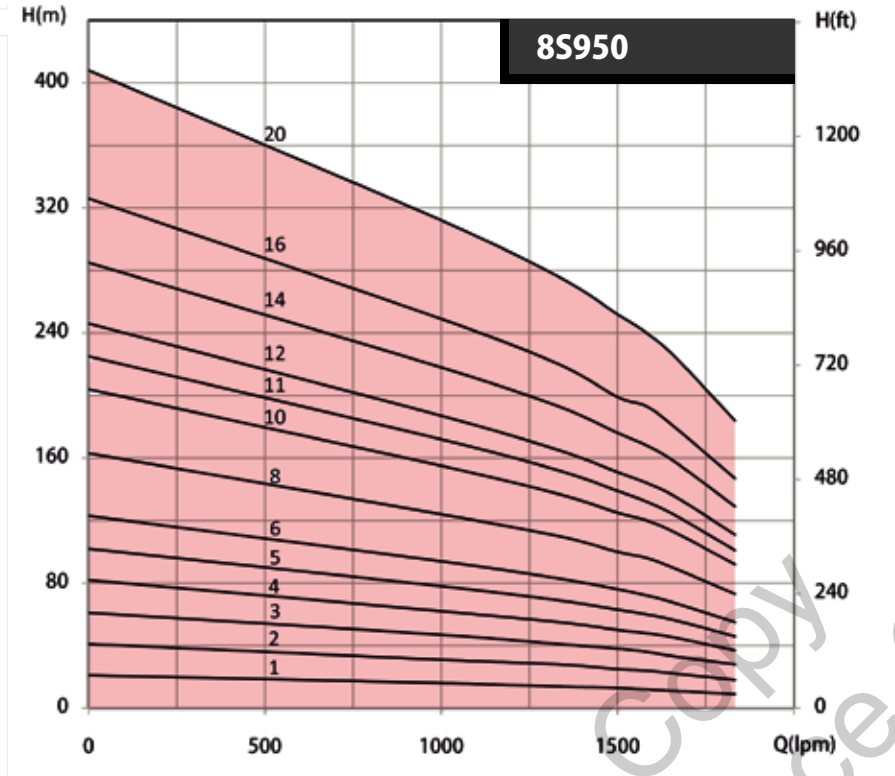


Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m³/hr	0	20.0	50.0	60.0	70.0	77.0	90.0	Dimension in mm				DNM
				Q - LPM	0	333	833	1000	1166	1283	1500	A	B	C	
8S770/1	7.5	5.5	Total Head in Metres	20	18	16	15	14	13	10	920	563	180	5"	
8S770/2	10.0	7.5		40	38	31	30	28	27	21	973	691	180	5"	
8S770/3	15.0	13.2		59	55	47	44	42	40	31	1023	819	180	5"	
8S770/4	20.0	15.0		79	72	63	59	56	53	42	1073	947	180	5"	
8S770/5	25.0	17.3		99	90	78	74	70	67	52	1123	1075	180	5"	
8S770/6	30.0	22.0		119	110	94	89	84	80	63	1123	1203	180	5"	
8S770/7	35.0	26.5		139	130	110	104	98	93	73	1173	1331	180	5"	
8S770/8	40.0	30.0		159	143	125	119	112	107	84	1223	1459	180	5"	
8S770/10	50.0	37.0		198	182	157	148	140	133	105	1223	1715	180	5"	
8S770/12	60.0	45.0		238	220	188	178	168	160	126	1280	1971	180	5"	
8S770/15	75.0	55.0		297	275	235	222	210	200	157	1433	2355	180	5"	
8S770/17	85.0	60.0		337	310	266	252	238	227	178	1520	2611	180	5"	
8S770/20	100.0	75.0		397	365	313	297	280	267	210	1570	2995	180	5"	

* M - Single Phase, T - Three Phase, Q - Discharge, DNM - Nominal Diameter

Characteristic Curves



Hydraulic Performance & Dimensions

Product Code	HP	kW	Q - m ³ /hr	0	60.0	80.0	90.0	95.0	100.0	110.0	Dimension in mm			DNM
			Q - LPM	0	1000	1333	1500	1583	1666	1833	A	B	C	
8S950/1	7.5	5.5	Total Head in Metres	21	16	14	13	12	11	9	920	563	180	5"
8S950/2	12.5	9.3		41	31	28	25	24	22	18	973	691	180	5"
8S950/3	17.5	13.0		61	47	41	38	36	33	28	1023	819	180	5"
8S950/4	25.0	18.5		82	62	55	50	48	45	37	1073	947	180	5"
8S950/5	30.0	22.0		102	78	69	63	60	56	46	1123	1075	180	5"
8S950/6	35.0	26.0		123	94	83	76	72	67	55	1173	1203	180	5"
8S950/8	50.0	37.0		163	124	110	100	96	89	73	1223	1459	180	5"
8S950/10	60.0	45.0		204	155	137	125	120	112	92	1280	1715	180	5"
8S950/11	75.0	56.0		225	172	152	139	132	123	101	1433	1843	180	5"
8S950/12	75.0	56.0		246	187	165	151	144	135	111	1433	1971	180	5"
8S950/14	85.0	63.0		285	218	193	176	168	157	129	1520	2227	180	5"
8S950/16	100.0	75.0		326	249	220	199	193	179	147	1570	2483	180	5"

* M - Single Phase, T - Three Phase, Q - Discharge, DN - Nominal Diameter