



# LISTER PETTER

## SUBMERSIBLE BOREHOLE PUMP SETS (60HZ)

### LPS 4/6/8 SERIES

60Hz – 3450/3600 rpm

**DURABLE, RELIABLE, LOW MAINTENANCE, STAINLESS STEEL SUBMERSIBLE WELL/BOREHOLE PUMPS**

#### DESCRIPTION

A Lister Petter Submersible Borehole Pump assembly is designed to pump water from a depth in a borehole well to an outlet on the surface or at a chosen height. The pump assembly comprises a pump and a motor. They are supplied separately to be coupled on site and every pump assembly must have a pump and a matching motor.

When selecting a suitable pump from the ranges, three criteria are important:

- Diameter required (to match the borehole)
- Flow rate required (to match the production rate of the borehole/well)
- Head required (to match the height to which water must be pumped).

The Lister Petter series of Submersible Borehole Pumps are available in 4 inch diameter (LPS4S series), 6 inch diameter (LPS6S series) or 8 inch diameter (LPS8S series) to match the commonly occurring borehole sizes. They are manufactured from stainless steel (for corrosion resistance and durability).

To power the pumps, a matching range of Lister Petter Submersible Borehole Motors is available in corresponding diameters and power ratings. These are also of stainless



steel construction and are designed to operate submerged beneath the surface of the water. The Lister Petter submersible borehole pumps are coupled to Lister Petter 'LPO' series, oil filled, rewindable submersible motors or to Lister Petter 'LPW' series, water filled, submersible motors.

The pumps are made of corrosion resistance stainless steel with built in check valve. All vital components of these pump models are made of high quality 304 grade stainless steel and the shaft is of S.S.341 grade for all models. The optimal design of impellers and diffusers enables the best possible

hydraulic efficiency.

The pumps are of multistage centrifugal type, which are firmly-coupled to the matching submersible electric motor, operating submerged beneath the surface of water. A built in check valve prevents back flow, and reduces the risk of water hammer. All mounting dimensions of pumps and motors are in accordance with NEMA standards.

**APPLICATIONS**

Pumping water from boreholes/wells to obtain groundwater for:

- Domestic and civil water supply
- Irrigation
- Rural water supply
- Industrial processes and plants
- Sprinkler systems
- etc.

**PUMPED LIQUIDS**

Clean, thin, non-aggressive, non-explosive, clear, cold fresh water without abrasives, solid particles or fibre having the following characteristics:

Temperature	30°C max
Permissible amount of sand	50 g/m <sup>3</sup> (max)
Chlorine ion density	500 ppm (max)
Allowable solids	3000 ppm (max)
Specific gravity	1.004 (max)
Hardness (drinking water)	300 ppm (max)
Viscosity	1.75 x 10 <sup>6</sup> m <sup>2</sup> /ec (max)
Turbidity	50 ppm silica scale (max)
pH	6.5 to 8.5

**OIL FILLED REWINDABLE SUBMERSIBLE MOTOR SPECIFICATIONS**

The **Lister Petter** ‘LPO’ series motors are wet type, oil filled, rewindable. The stator windings are of copper windings wires. The motor is pre-filled with non-toxic colourless white oil meeting the requirements of international authorities for pharmaceutical white oils. Before commissioning, check the level of oil inside the motor. If any loss of volume is noticed, refill with approved white oil through oil filling plugs/valves provided in the upper housing. Dynamically balanced rotors of the ‘LPO’ series motors maintain uniform clearance by giving better efficiency and increase the life cycle of the water lubricated bush bearings. Specially designed high performance thrust bearings are used, that can withstand high axial thrust loads with minimum wear and tear. The motor is sealed by means of ‘O’ rings, shaft seals and sand guards to avoid ingress of well water, sand and fibre particles into the motor.

**WATER FILLED SUBMERSIBLE MOTOR SPECIFICATIONS**

The **Lister Petter** ‘LPW’ series motors are wet type, water filled.

- 6” motors are of canned type design. The space between the stator, stainless steel protective can and frame is filled with epoxy resin, allowing faster and greater heat dissipation resulting in longer motor life. The motor lubrication is provided by the internal cooling water consisting of a water, antifreeze and antirust mixture. 6” motors are encapsulated, non-rewindable.
- 8” motors are of the traditional design and are rewindable.

The stator windings are of water proof synthetic film insulated copper windings wires. It features water lubricated thrust and journal bearings. The motor is pre-filled with clear, cold, pure, fresh, filtered

water. Before commissioning, check the level of water inside the motor. If any loss of volume is noticed, refill with clear, cold, pure, fresh, filtered water through water filling plugs/valves provided in the upper housing. Dynamically balanced rotors of the 'LPW' series motors maintain uniform clearance by giving better efficiency and increase the life cycle of the water lubricated bush bearings. Specially designed high performance thrust bearings are used, that can withstand high axial thrust loads with minimum wear and tear. The motor is sealed by means of 'O' rings, shaft seals and sand guards to avoid ingress of well water, sand and fibre particles into the motor.

Where mains electricity is not available, unreliable, has insufficient supply capacity or is not going to be used, Lister Petter can supply matching Lister Petter generator sets that are configured to start automatically when water is available in the well to be stored or used and to stop automatically when the water level in the well is too low or water storage is full.

**NOTE:-**

All pumps installations will require the following extra installation equipment:

- Sufficient and suitable electrical supply cables to supply electricity to the motor from the surface to the pump motor at the base of the well.
- Appropriate waterproof electrical jointing for the cable connection to the pump motor.
- The water outlet of the pump must be connected to the surface by means of a vertical pipe. Therefore the installation will require sufficient and suitable pipework of the correct diameter with standard connecting unions for the pump to pipe and pipe to pipe connections. (see outlet

diameter on the pump data). Please note that as the depth increases the water pressure in the pipe will increase at the rate of 1 atmosphere for every 10 metres of depth and pipes and unions must be able to withstand this internal pressure.

- A control box or control panel to enable the motor to be powered from the electricity supply when pumping is required. Note the following points:

- Single phase circuits use two live wires plus a neutral and an earth protection wire. One of the live wires (as designated in the wiring diagram) must be connected to the supply via a motor-run capacitor.

- The motor must not be permitted to run dry, also wells must not be pumped dry. Therefore it is normal practice to install a water level switch in the well at a height just above the top of the motor. This signal is wired back to the control box to switch off the power if the water level falls too low.

- Control boxes are normally built and installed by the on-site electrical contractor as part of the electrical installation.

- Motors (for submersible pumps of any design) must not be repeatedly stopped and started. It will shorten their life.

- In order to lower and lift the pump assembly when required, the pump unit has lifting rings on the top. These must be connected to suitable corrosion resistant cables which will be left connected. These cables may also be the means by which the pump is suspended over the bed of the borehole (to prevent the motor sitting on the well floor). The cable must have sufficient tensile strength to support the pump assembly and pipework.

**ELECTRIC MOTOR SPECIFICATIONS**

<b>NOMINAL DIAMETER</b>	<b>4" (100 MM)</b>
Maximum outer diameter	98 mm (max)
Power Range	0.5 to 5 HP – Single Phase 0,5 to 10 HP – Three Phase
Speed	3450 rpm
Version	Single Phase – 110 or 230V, 60 Hz, A.C. supply Three phase – 230 or 400V, 60 Hz, A.C. supply
Class of Insulation	F
Degree of Protection	IP68
Direction of Rotation	CCW – single Phase Electrically reversible – Three Phase
Type of Duty	1 (continuous)
Maximum Down Thrust Load	0,5 to 2 HP – 2000 N 3 HP – 3000N 5 to 10 HP – 5000 N
Maximum Temperature of Liquid	35°C
Start per hour	40 times
Shaft Mounting Standard	Splined as per NEMA standard NEMA Standard
Method of Starting	Single Phase – Capacitor Start Capacitor Run (CSCR) Three Phase – Direct On Line (DOL)
Cable Leadout	Permanently Connected and Sealed ¾ core EPDM rubber Flat Cable

<b>NOMINAL DIAMETER</b>	<b>6" (150 MM)</b>
Maximum outer diameter	143 mm (max)
Power Range	5 to 15 HP – Single Phase 5 to 60 HP - Three Phase
Speed	3600rpm
Version	Single phase – 208-230 V, 60 Hz, A.C. supply Three phase – 380/400/415/460 V, 60 Hz, A.C. supply
Class of Insulation	F
Degree of Protection	IP68
Direction of Rotation	CCW – single Phase Electrically reversible – Three Phase
Type of Duty	1 (continuous)
Maximum Down Thrust Load	5 to 30 HP – 15900N 40 to 60 HP – 22700 N
Maximum Temperature of Liquid	5 to 50 HP - 35°C 60 HP - 25°C
Start per hour	20 times
Shaft Mounting Standard	Splined as per NEMA Standard NEMA Standard
Method of Starting	5 to 50 HP – Direct On Line (DOL) 60 HP – Star Delta (S.D.)
Cable Leadout	Permanently Connected and sealed ¾ core EPDM rubber Flat Cable

<b>NOMINAL DIAMETER</b>	<b>8" (200 MM)</b>
Maximum outer diameter	194 mm (max)
Power Range	50 to 125 HP – Three Phase
Speed	3600rpm
Version	Three phase – 380/400/415/460 V, 60 Hz, A.C. supply
Class of Insulation	F
Degree of Protection	IP68
Direction of Rotation	Electrically reversible – Three Phase
Type of Duty	1 (continuous)
Maximum Down Thrust Load	10000 lb/45500 N
Maximum Temperature of Liquid	25°C
Start per hour	10 times
Shaft Mounting Standard	Splined as per NEMA Standard NEMA Standard
Method of Starting	Three Phase – Direct On Line (DOL) & Star Delta (S.D.)
Cable Leadout	Permanently Connected and sealed ¾ core EPDM rubber Flat Cable

**CATALOGUE NUMBERING FOR PUMPS**

The catalogue number is as follows:

**LPSXS-XXX/XX-X**

This is made up as follows:

	LPS	X	S	-	XXX	/	XX	-	A	B
_____										
Lister Petter Submersible										
Nominal Diameter (inches)										
Stainless Steel										
_____										
Nominal Flow (US gal/min)										
_____										
Number of impellers										
_____										
First impeller with reduced diameter (A, B or C)										
Second impeller with reduced diameter (A, B or C)										

**CATALOGUE NUMBERING FOR SUBMERSIBLE MOTORS**

The catalogue number is as follows:

**LPXXS-XX-XXX**

This is made up as follows:

	LP	X	X	X	-	XX	-	X	XX
_____									
Lister Petter motor									
O = Oil Filled									
W = Water filled									
Nominal Diameter (inches)									
Type of Stainless Steel Construction									
_____									
Power HP x 10									
_____									
Voltage:									
1 = 110V									
2 = 230V									
4 = 460/415/400/380V									
_____									
Phase (s):									
SP = Single Phase									
TP = Three Phase									

**ELECTRIC MOTOR RANGE**

<b>4 INCH MOTOR</b>				
Product code	HP	Phase	Height (in)	Weight (lbs)
LPO4S-05-1SP	0.5	1 Phase 110V	14	16.1
LPO4S-07-1SP	0.75	1 Phase 110V	14	18.0
LPO4S-10-1SP	1	1 Phase 110V	15	19.4
LPO4S-05-2SP	0.5	1 Phase 230V	14	16.1
LPO4S-07-2SP	0.75	1 Phase 230V	14	18.0
LPO4S-10-2SP	1	1 Phase 230V	15	19.4
LPO4S-15-2SP	1.5	1 Phase 230V	16	22.0
LPO4S-20-2SP	2	1 Phase 230V	17	25.3
LPO4S-30-2SP	3	1 Phase 230V	19	30.8
LPO4S-50-2SP	5	1 Phase 230V	27	49.9
LPO4S-05-2TP	0.5	3 Phase 230V	13	14.7
LPO4S-07-2TP	0.75	3 Phase 230V	14	16.3
LPO4S-10-2TP	1	3 Phase 230V	14	18.0
LPO4S-15-2TP	1.5	3 Phase 230V	15	19.6
LPO4S-20-2TP	2	3 Phase 230V	16	22.0
LPO4S-30-2TP	3	3 Phase 230V	17	25.5
LPO4S-50-2TP	5	3 Phase 230V	20	33.4
LPO4S-75-2TP	7.5	3 Phase 230V	27	50.8
LPO4S-100-2TP	10	3 Phase 230V	31	60.5
LPO4S-05-4TP	0.5	3 Phase 400V	13	14.7
LPO4S-07-4TP	0.75	3 Phase 400V	14	16.3
LPO4S-10-4TP	1	3 Phase 400V	14	18.0
LPO4S-15-4TP	1.5	3 Phase 400V	15	19.6
LPO4S-20-4TP	2	3 Phase 400V	16	22.0
LPO4S-30-4TP	3	3 Phase 400V	17	25.5
LPO4S-50-4TP	5	3 Phase 400V	20	33.4
LPO4S-75-4TP	7.5	3 Phase 400V	27	50.8
LPO4S-100-4TP	10	3 Phase 400V	31	60.5

**SUBMERSIBLE BOREHOLE PUMP SETS (60HZ) TECHNICAL DATA SHEET**

<b>6 INCH MOTOR</b>				
Product code	HP	Phase	Height (in)	Weight (lbs)
LPW6S-50-2TP	5	3 phase 230V	23	94.6
LPW6S-75-2TP	7.5	3 phase 230V	25	99.0
LPW6S-100-2TP	10	3 phase 230V	27	110.0
LPW6S-150-2TP	15	3 phase 230V	30	127.6
LPW6S-200-2TP	20	3 phase 230V	31	136.4
LPW6S-250-2TP	25	3 phase 230V	36	160.6
LPW6S-300-2TP	30	3 phase 230V	38	176.0
LPW6S-50-4TP	5	3 phase 460/380V	23	94.6
LPW6S-75-4TP	7.5	3 phase 460/380V	25	99.0
LPW6S-100-4TP	10	3 phase 460/380V	27	110.0
LPW6S-150-4TP	15	3 phase 460/380V	30	127.6
LPW6S-200-4TP	20	3 phase 460/380V	31	136.4
LPW6S-250-4TP	25	3 phase 460/380V	36	160.6
LPW6S-300-4TP	30	3 phase 460/380V	38	176.0
LPW6S-400-4TP	40	3 phase 460/380V	41	187.0
LPW6S-500-4TP	50	3 phase 460/380V	42	198.0

<b>8 INCH MOTOR</b>				
Product code	HP	Phase	Height (in)	Weight (lbs)
LPW8S-500-4TP	50	3 phase 460/380V	TBA	TBA
LPW8S-600-4TP	60	3 phase 460/380V	TBA	TBA
LPW8S-750-4TP	75	3 phase 460/380V	TBA	TBA
LPW8S-1000-4TP	100	3 phase 460/380V	TBA	TBA
LPW8S-1250-4TP	125	3 phase 460/380V	TBA	TBA



**PUMP (WET END) RANGE**

**4 INCH DIAMETER PUMP RANGE - PUMP (WET END)**

4 Inch Range		Nominal Diameter 4", Nominal Flow 5 gal/min, Outlet 1.25" NPT								
Nominal Head (ft)	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
180	LPS4S-5/09	9	0.33	4	22	236	7	1	14	6.4
259	LPS4S-5/13	13	0.5	4	33	335	7	1	17	7.9
354	LPS4S-5/18	18	0.75	4	49	472	7	1	21	9.7
433	LPS4S-5/22	22	1	4	61	581	7	1	25	11.2
512	LPS4S-5/26	26	1.5	4	79	686	7	1	28	12.8
594	LPS4S-5/31	31	1.5	4	101	817	7	1	33	19.4

**4 Inch Range**      **Nominal Diameter 4", Nominal Flow 10 gal/min , Outlet 1.25" NPT**

Nominal Head (ft)	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
112	LPS4S-10/06	6	0.33	4	72	151	13	5	12	5.3
174	LPS4S-10/09	9	0.5	4	108	226	13	5	14	6.6
230	LPS4S-10/12	12	0.75	4	161	308	13	5	16	7.9
295	LPS4S-10/15	15	1	4	200	377	13	5	19	9.2
407	LPS4S-10/21	21	1.5	4	259	525	13	5	24	11.7
515	LPS4S-10/27	27	2	4	331	659	13	5	29	14.1
656	LPS4S-10/34	34	3	4	413	836	13	5	36	22.0

**4 Inch Range**      **Nominal Diameter 4", Nominal Flow 15 gal/min , Outlet 1.25" NPT**

Nominal Head (ft)	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
102	LPS4S-15/05	5	0.5	4	66	128	21	9	11	5.1
157	LPS4S-15/07	7	0.75	4	102	177	21	9	12	5.7
200	LPS4S-15/09	9	1	4	128	233	21	9	14	6.6
295	LPS4S-15/13	13	1.5	4	187	338	21	9	17	8.4
377	LPS4S-15/17	17	2	4	230	436	21	9	21	9.9
508	LPS4S-15/23	23	3	4	295	581	21	9	26	12.5
679	LPS4S-15/31	31	4	4	400	784	21	9	33	20.2
787	LPS4S-15/36	36	5	4	499	935	21	9	37	23.1

**4 Inch Range**      **Nominal Diameter 4", Nominal Flow 25 gal/min , Outlet 1.5" NPT**

Nominal Head (ft)	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
79	LPS4S-25/04	4	0.5	4	56	98	24	16	10	4.4
98	LPS4S-25/05	5	0.75	4	72	125	24	16	11	4.8
134	LPS4S-25/07	7	1	4	98	171	24	16	12	5.7
180	LPS4S-25/09	9	1.5	4	131	223	24	16	14	6.6
223	LPS4S-25/11	11	2	4	167	272	24	16	16	7.5
312	LPS4S-25/15	15	3	4	230	361	24	16	19	9.0
426	LPS4S-25/21	21	4	4	318	502	24	16	24	11.7
525	LPS4S-25/26	26	5	4	397	630	24	16	28	13.6
807	LPS4S-25/39	39	7.5	4	597	951	24	16	39	24.4

**SUBMERSIBLE BOREHOLE PUMP SETS (60HZ) TECHNICAL DATA SHEET**

4 Inch Range		Nominal Diameter 4", Nominal Flow 40 gal/min , Outlet 2" NPT								
Nominal Head (ft)	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
85	LPS4S-40/04	4	1	4	59	102	53	21	15	8.4
102	LPS4S-40/05	5	1.5	4	72	128	53	21	16	9.5
144	LPS4S-40/07	7	2	4	105	171	53	21	20	11.7
187	LPS4S-40/09	9	3	4	138	210	53	21	23	13.9
253	LPS4S-40/12	12	4	4	200	295	53	21	28	17.2
312	LPS4S-40/15	15	5	4	25	367	53	21	33	20.5
436	LPS4S-40/21	21	7.5	4	354	515	53	21	43	27.1
515	LPS4S-40/25	25	7.5	4	407	600	53	21	49	31.5
623	LPS4S-40/30	30	10	4	492	722	53	21	57	37.0

4 Inch Range		Nominal Diameter 4", Nominal Flow 70 gal/min , Outlet 2" NPT								
Nominal Head (ft)	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
72	LPS4S-70/03	3	2	4	43	85	92	37	15	8.1
118	LPS4S-70/05	5	3	4	69	134	92	37	20	11.0
194	LPS4S-70/08	8	5	4	112	213	92	37	28	15.4
285	LPS4S-70/12	12	7.5	4	171	328	92	37	38	20.9
387	LPS4S-70/16	16	10	4	226	430	92	37	48	26.6

6 INCH DIAMETER PUMP RANGE - PUMP (WET END)										
6 Inch Range		Nominal Diameter 6", Nominal Flow 90 gal/min , Outlet 2.5" NPT								
Nominal Head (ft)	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
36	LPS6S-90/01	1	1.5	4	26	56	119	26	14	11.0
75	LPS6S-90/02	2	3	4	52	105	119	26	16	14.1
112	LPS6S-90/03	3	4	4	72	157	119	26	18	17.4
154	LPS6S-90/04	4	5	4	92	203	119	26	21	20.5
194	LPS6S-90/05	5	7.5	4 or 6	121	259	119	26	23	23.8
230	LPS6S-90/06	6	7.5	4 or 6	151	305	119	26	25	26.8
266	LPS6S-90/07	7	10	6	174	361	119	26	28	30.1
305	LPS6S-90/08	8	10	6	203	410	119	26	30	33.2
344	LPS6S-90/09	9	10	6	230	462	119	26	33	36.5
380	LPS6S-90/10	10	12.5	6	256	515	119	26	35	39.6
420	LPS6S-90/11	11	12.5	6	276	564	119	26	37	42.9
459	LPS6S-90/12	12	15	6	305	617	119	26	40	46.0
492	LPS6S-90/13	13	15	6	328	666	119	26	42	49.3
446	LPS6S-90/14	14	17.5	6	361	722	119	26	44	52.4
574	LPS6S-90/15	15	17.5	6	390	771	119	26	47	55.7
689	LPS6S-90/18	18	20	6	459	928	119	26	54	65.1
768	LPS6S-90/20	20	25	6	508	1020	119	26	59	71.5

(continued on the next page)

**SUBMERSIBLE BOREHOLE PUMP SETS (60HZ) TECHNICAL DATA SHEET**

*(continued)*

Nominal Head (ft)	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
846	LPS6S-90/22	22	25	6	558	1118	119	26	64	77.9
918	LPS6S-90/24	24	30	6	610	1233	119	26	68	84.3
1004	LPS6S-90/26	26	30	6	672	1338	119	26	73	90.6
1079	LPS6S-90/28	28	35	6	722	1443	119	26	78	97.0
1151	LPS6S-90/30	30	35	6	774	1551	119	26	83	103.4

<b>6 Inch Range</b>		<b>Nominal Diameter 6", Nominal Flow 150 gal/min , Outlet 3" NPT</b>								
Nominal Head (ft)	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
33	LPS6S-150/01	1	2	4	16	52	211	53	14	14.7
72	LPS6S-150/02	2	4	4	43	105	211	53	18	18.5
102	LPS6S-150/03-A	3	5	4	56	144	211	53	22	22.2
105	LPS6S-150/03	3	5.5	4	59	154	211	53	22	22.2
154	LPS6S-150/04	4	7.5	4 or 6	92	207	211	53	26	26.0
197	LPS6S-150/05	5	10	4 or 6	118	259	211	53	30	29.7
282	LPS6S-150/07	7	12.5	4 or 6	180	371	211	53	37	37.2
318	LPS6S-150/08	8	15	4 or 6	200	420	211	53	41	40.9
400	LPS6S-150/10	10	17.5	6	253	525	211	53	48	48.4
443	LPS6S-150/11	11	20	6	282	581	211	53	52	51.9
485	LPS6S-150/12	12	25	6	312	633	211	53	56	55.7
564	LPS6S-150/14	14	25	6	351	731	211	53	64	63.1
613	LPS6S-150/15	15	30	6	394	794	211	53	67	66.9
682	LPS6S-150/17	17	30	6	426	892	211	53	75	74.4
823	LPS6S-150/21	21	40	6	531	1105	211	53	90	89.3
899	LPS6S-150/23	23	40	6	574	1204	211	53	98	96.8
971	LPS6S-150/24	24	50	6	623	1273	211	53	101	100.3
1050	LPS6S-150/26	26	50	6	656	1364	211	53	109	107.8
1115	LPS6S-150/28	28	50	6	715	1466	211	53	116	115.3

<b>6 Inch Range</b>		<b>Nominal Diameter 6", Nominal Flow 230 gal/min , Outlet 3" or 4" NPT</b>								
Nominal Head (ft)	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
33	LPS6S-230/01-B	1	2	4	10	49	317	79	15	15.2
39	LPS6S-230/01-A	1	3	4	10	56	317	79	15	15.2
39	LPS6S-230/01	1	4	4	13	59	317	79	15	15.2
59	LPS6S-230/02-AB	2	5	4 or 6	13	98	317	79	20	20.2
79	LPS6S-230/02	2	7.5	4 or 6	43	118	317	79	20	20.2
98	LPS6S-230/03-BB	3	7.5	4 or 6	33	154	317	79	24	25.3
125	LPS6S-230/03	3	10	4 or 6	69	187	317	79	24	25.3
138	LPS6S-230/04-BC	4	10	4 or 6	59	223	317	79	28	30.1
200	LPS6S-230/05-C	5	15	6	112	298	317	79	33	35.2
262	LPS6S-230/06	6	20	6	164	384	317	79	37	40.3

*(continued on the next page)*

## SUBMERSIBLE BOREHOLE PUMP SETS (60HZ) TECHNICAL DATA SHEET

(continued)

Nominal Head (ft)	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
285	LPS6S-230/07-C	7	20	6	167	413	317	79	42	45.3
305	LPS6S-230/07	7	25	6	187	446	317	79	42	45.3
348	LPS6S-230/08	8	25	6	216	502	317	79	46	50.4
390	LPS6S-230/09	9	30	6	243	564	317	79	51	55.2
433	LPS6S-230/10	10	30	6	272	636	317	79	55	60.3
564	LPS6S-230/13	13	40	6	344	810	317	79	68	75.5
656	LPS6S-230/15	15	50	6	410	935	317	79	77	85.4
731	LPS6S-230/17	17	50	6	459	1056	317	79	86	95.5
787	LPS6S-230/18	18	60	6	492	1105	317	79	91	100.5
853	LPS6S-230/20	20	60	6	528	1233	317	79	100	110.4

		<b>6 Inch Range      Nominal Diameter 6", Nominal Flow 300 gal/min , Outlet 3" or 4" NPT</b>								
Nominal Head (ft)	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
26	LPS6S-300/01-B	1	3	4 or 6	0	46	396	106	15	15.2
33	LPS6S-300/01	1	5	4 or 6	10	62	396	106	15	15.2
75	LPS6S-300/02	2	7.5	4 or 6	36	125	396	106	20	20.2
112	LPS6S-300/03-A	3	10	4 or 6	52	177	396	106	24	25.3
128	LPS6S-300/03	3	12.5	6	66	194	396	106	24	25.3
164	LPS6S-300/04	4	15	6	92	253	396	106	28	30.1
213	LPS6S-300/05	5	17.5	6	118	321	396	106	33	35.2
236	LPS6S-300/06-B	6	20	6	121	354	396	106	37	40.3
259	LPS6S-300/06	6	25	6	141	384	396	106	37	40.3
298	LPS6S-300/07	7	25	6	167	440	396	106	42	45.3
348	LPS6S-300/08	8	30	6	200	512	396	106	46	50.4
371	LPS6S-300/09-B	9	30	6	203	551	396	106	51	55.2
387	LPS6S-300/09	9	35	6	213	571	396	106	51	55.2
423	LPS6S-300/10	10	35	6	236	620	396	106	55	60.3
479	LPS6S-300/11	11	40	6	276	702	396	106	60	65.3
535	LPS6S-300/12	12	50	6	318	774	396	106	64	70.4
567	LPS6S-300/13	13	50	6	341	836	396	106	68	75.5
613	LPS6S-300/14	14	50	6	358	892	396	106	73	80.3
656	LPS6S-300/15	15	60	6	387	964	396	106	77	85.4
695	LPS6S-300/16	16	60	6	413	1014	396	106	82	90.4
728	LPS6S-300/17	17	60	6	430	1076	396	106	86	95.5

**SUBMERSIBLE BOREHOLE PUMP SETS (60HZ) TECHNICAL DATA SHEET**

**8 INCH DIAMETER PUMP RANGE - PUMP (WET END)**

Nominal Head (ft)	8 Inch Range									
	Nominal Diameter 8", Nominal Flow 400 gal/min , Outlet 5" NPT									
	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
52	LPS8S-400/01	1	7.5	6	33	92	528	79	24	55.2
56	LPS8S-400/02-AB	2	10	6	10	128	528	79	29	63.1
89	LPS8S-400/02-A	2	12.5	6	49	161	528	79	29	63.1
108	LPS8S-400/02	2	15	6	72	184	528	79	29	63.1
115	LPS8S-400/03-AA	3	17.5	6	52	223	528	79	34	71.1
141	LPS8S-400/03-A	3	20	6	82	249	528	79	34	71.1
164	LPS8S-400/03	3	25	6	108	276	528	79	34	71.1
184	LPS8S-400/04-B	4	25	6	105	335	528	79	39	79.0
223	LPS8S-400/04	4	30	6	144	371	528	79	39	79.0
216	LPS8S-400/05-BB	5	30	6	115	400	528	79	45	86.9
279	LPS8S-400/05	5	35	6	184	462	528	79	45	86.9
302	LPS8S-400/06-B	6	40	6	187	518	528	79	50	94.6
331	LPS8S-400/06	6	50	8	220	554	528	79	50	94.6
394	LPS8S-400/07	7	50	8	262	649	528	79	55	102.5
462	LPS8S-400/08	8	60	8	321	758	528	79	60	113.5
525	LPS8S-400/09	9	75	8	361	859	528	79	65	121.4
584	LPS8S-400/10	10	75	8	403	951	528	79	70	129.4
643	LPS8S-400/11	11	85	8	443	1040	528	79	75	137.3
705	LPS8S-400/12	12	85	8	482	1138	528	79	80	145.2
754	LPS8S-400/13	13	100	8	525	1230	528	79	85	153.1

Nominal Head (ft)	8 Inch Range									
	Nominal Diameter 8", Nominal Flow 500 gal/min , Outlet 5" NPT									
	Product code	Stages	HP	Motor Dia (inches)	Head min. (ft)	Head max. (ft)	Flow max. (gal/min)	Flow min. (gal/min)	Height (inch)	Weight (lbs)
30	LPS8S-500/01-A	1	7.5	6	0	69	660	79	24	55.2
56	LPS8S-500/01	1	10	6	30	98	660	79	24	55.2
59	LPS8S-500/02-AB	2	12.5	6	0	134	660	79	29	63.1
85	LPS8S-500/02-B	2	15	6	23	164	660	79	29	63.1
118	LPS8S-500/02	2	17.5	6	62	197	660	79	29	63.1
115	LPS8S-500/03-BB	3	20	6	20	230	660	79	34	71.1
148	LPS8S-500/03-B	3	25	6	56	266	660	79	34	71.1
177	LPS8S-500/03	3	30	6	98	298	660	79	34	71.1
177	LPS8S-500/04-AB	4	30	6	56	335	660	79	39	79.0
233	LPS8S-500/04	4	35	6	131	394	660	79	39	79.0
262	LPS8S-500/05-B	5	40	6	128	459	660	79	45	86.9
295	LPS8S-500/05	5	50	8	164	492	660	79	45	86.9
348	LPS8S-500/06	6	50	8	194	584	660	79	50	94.6
413	LPS8S-500/07	7	60	8	233	686	660	79	55	105.6
469	LPS8S-500/08	8	75	8	262	784	660	79	60	113.5
528	LPS8S-500/09	9	85	8	295	889	660	79	65	121.4
590	LPS8S-500/10	10	85	8	338	991	660	79	70	129.4
649	LPS8S-500/11	11	100	8	374	1086	660	79	75	137.3
702	LPS8S-500/12	12	125	8	407	1181	660	79	80	145.2
764	LPS8S-500/13	13	125	8	446	1279	660	79	85	153.1

**QUICK SELECTION TABLE**

Pump (Nominal Diameter)		4" (100mm)	6" (150mm)	8" (200mm)
Power range		0.33 - 10 HP	1.5 - 60 HP	7.5 - 125 HP
Speed		3450rpm	3600rpm	3600rpm
Discharge Range	US gal/min	7 - 92	26 - 396	79 - 660
Total head Range	ft	4 - 500	4.5 - 520	8 - 410
Outlet size in inches		1 ¼, 1 ½ & 2	2 ½, 3 & 4	5

**MATERIAL OF CONSTRUCTION**

	4" – Standard	6" – Standard	8" – Standard
Shaft Seal	Nitrile Rubber (NBR)	Nitrile Rubber (NBR)	Nitrile Rubber (NBR)
Suction Interconnector	S.S. 304	S.S. 304	S.S. 304
Shaft	S.S. 341	S.S. 341	S.S. 341
Impeller	S.S. 304	S.S. 304	S.S. 304
Diffuser	S.S. 304	S.S. 304	S.S. 304
Valve Seat	NBR	NBR	NBR

**UK**

LISTER PETTER LIMITED  
 Long Street, Dursley, Gloucestershire, GL11 4HS, England  
 TEL: +44 (0)1453 544141; FAX: +44 (0)1453 546732  
 E-mail: sales@lister-petter.co.uk  
 www.lister-petter.co.uk

**UAE**

LISTER PETTER FZE  
 Dubai Silicon Oasis Headquarters,  
 PO Box 341077, Dubai, UAE  
 TEL: +971 4 372 4331; FAX: +971 4 372 4318  
 E-mail: sales@listerpettergroup.com  
 www.lister-petter.co.uk

**DISTRIBUTOR'S ADDRESS**

*Lister Petter have made efforts to ensure that the information in this data sheet is accurate but reserve the right to amend specifications and information without notice and without obligation or liability.*