



K2PLSE-SS

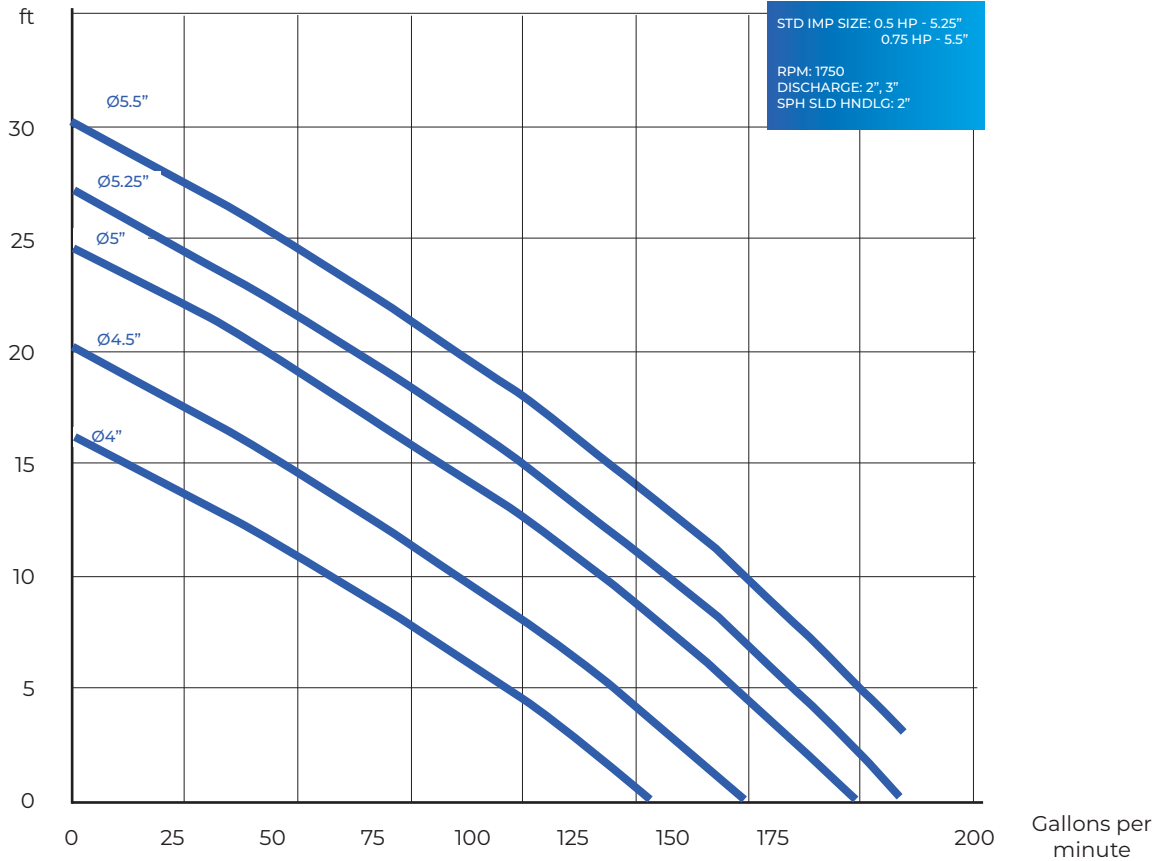
1/2HP & 3/4HP Sewage Pump

- 2" Solids Handling
- 2" - 3" NPT Vertical Discharge
- Please Specify
- Inboard Single Mechanical Seal
- Durable Cast Iron Construction
- Automatic and Manual Models

REV 01/2024

PUMP SERIES		K2PLSE-SS		1/2HP - 3/4HP 2 VANE SEMI-OPEN IMPELLER	
Speed	3500 RPM	Discharge	2"/3"	FULL IMPELLER	

GPM: _____ TDH: _____



MODEL	HP	VOLTS	PHASE	RPM	MAX AMPS	LOCKED ROTOR AMPS	NEMA CODE	CORD SIZE	CORD TYPE	CORD O.D.	WEIGHT (POUNDS)
K2PLSE51SS	0.5	115	1	1750	11.6	18.4	D	14/3	SJO	0.5"	91
K2PLSE51A	0.5	115	1	1750	11.6	18.4	D	14/3	SJO	0.5"	93
K2PLSE52SS	0.5	200/230	1	1750	5.9	14.9	B	14/3	SJO	0.5"	93
K2PLSE53SS	0.5	200/230	3	1750	4.6/4.2	9.7/11.1	K	14/3	SJO	0.5"	95
K2PLSE54SS	0.5	460	3	1750	2.2	5.3	K	14/3	SJO	0.5"	95
K2PLSE72SS	0.75 0.75	230	1	1750	10.5	17.5	D	14/3	SJO	0.5"	95
K2PLSE73SS	0.75	200/230	3	1750	5.5	16	D	12/4	SJO	0.625"	96
K2PLSE74SS		460	3	1750	3.2	8	D	12/4	SJO	0.625"	96

Available in 2" and 3" discharge - please specify

IMPORTANT!

- Never use this pump to handle explosive liquids.
- This pump is not approved to be used in swimming pools, recreational installations or any application where human contact may be common.
- Pump may be operated "dry" for extended periods without damage to motor and/or seals.
- Testing is performed with water specific gravity of 1.0 @ 68°F (20°C); other fluids may vary performance.



GENERAL - Furnish and install a quantity of ____ Keen® Pumps submersible sewage pump(s), Model K2PLSE____ SS, ____ HP, ____ RPM, ____ phase, 60 Hz, ____ volts, with a 2 inch (optional 3") vertical bolt-on discharge flange connection. Each pump shall be capable of delivering the following performance, ____ U.S. GPM at ____ ft total dynamic head, with a shut off head of ____ ft TDH minimum.

PUMP DESIGN - The centrifugal sewage pump(s) shall be capable of handling 2 inch diameter spherical solids of raw, unscreened domestic sewage consisting of water fibrous materials. The pump(s) shall be capable of handling liquids with temperatures to 104 °F continuous, and shall be capable of running dry for extended periods.

PUMP CONSTRUCTION/CASTINGS - The volute, seal plates, impeller and motor housing shall be constructed of ASTM A-48 class 30 cast iron.

COATING/HARDWARE - Exterior surfaces shall be painted with a water based air dry enamel. All exposed hardware shall be 300 series stainless steel.

GASKETS - All gaskets shall be of the compression square ring type eliminating critical slip fits and the possibility of damage during service associated with sliding o-ring sealing arrangements.

IMPELLER - The impeller shall be of 2 vane, open type, solid handling design with pump out vanes on the back side. Impellers shall be capable of being trimmed to meet special performance characteristics. The impeller shall be dynamically balanced to ISO G6.3 specifications.

MECHANICAL SEAL - A dual seal arrangement shall consist of a Buna-N exclusion seal and a single mechanical design operating in an oil-filled seal cavity. The seal shall be constructed of silicon carbide faces, 300 series stainless steel hardware, and all elastomer parts to be of Buna-N. The seal shall be commercially available and not a manufacturer's proprietary design.

MOTOR - Design shall be of the split capacitor design for single phase units. The pump shall be designed to be non-overloading throughout the entire pump curve. The rotor and stator assembly shall be of the standard frame design and secured to the pump seal plate by four threaded fasteners allowing for easy serviceability. The motor windings shall be of Class B insulation and operate

in a sealed environment containing clean dielectric oil, making it capable of operating in a totally, partially, or non-submerged condition for extended periods of time without damage due to the heat being generated. The used dielectric oil must be disposed of as non-hazardous waste. The motor shall meet the standard NEMA L for single phase and NEMA B for three phase.

THERMAL PROTECTION - All single phase motors shall have thermal protection with automatic reset. Three phase motors shall be equipped with a thermal switch embedded in the stator windings and require external overload protection in the control panel.

SHAFT - The pump shaft shall be of a one-piece design and shall be of 416 stainless steel.

BEARINGS - The lower bearing shall be of the single row ball type to accept radial and thrust loads, and the upper bearing of the single ball type for radial loads. Bearings shall operate in an oil bath atmosphere for superior life.

POWER CORD - Shall be ____ ft of type SJTOW on 115 volt and SOW on all other voltages and connected to the motor via Fast-Disconnect plug. Pin receptacles shall be crimped and molded to the power cord in a PVC plug. The plug shall be secured with a stainless steel compression plate to prevent water from entering the housing and to provide strain relief at the point of cord entry. A clamp shall compress the PVC molding against the cord jacket to prevent water from entering the jacket. A terminal block with brass pin inserts shall connect the power cord leads with the motor leads. The ground pin shall be longer than the other pins such that the ground connection is the first connection made and the last connection broken when the plug is inserted and removed, respectively. A Buna-N o-ring shall provide isolation sealing between the terminal block and the motor housing when the cord plug is removed. A three prong, grounded, 115 volt plug shall be molded to the power cord for automatic operation.

TESTS AND INSPECTIONS - Shall be performed by the pump manufacturer.

1. A ground continuity check and motor chamber shall be Hi-potted to test for electrical integrity.
2. Check that the motor voltage and frequency matches the name plate.