



Smith & Loveless Inc.

Above All Others.™

CAPSULAR®

Underground Pump Station

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OVERSIZE

Another factory-built & tested CAPSULAR® Pump Station readies for shipment.

An innovative approach to wastewater pumping spread across North America when Smith & Loveless Inc. pioneered the factory-built pump station more than 60 years ago. Today, after tens of thousands of successful installations, the progressive vision that inspired Alden Smith & Compere Loveless flourishes through a complete array of pre-engineered Smith & Loveless pumping systems, including the largest capacity station in our line, the CAPSULAR® Underground Pump Station. With its exclusive, pre-engineered Safe-Stair entry module and efficient S&L Non-Clog Pumps, the CAPSULAR® Pump Station delivers an economical solution to today's large-flow pumping systems needs (multiple pumps up to 12" / 300 mm in size).

Benefits of S&L's Factory-Built Approach

- Experience - 20,000+ proven pump station installations by S&L
- Quality - Thorough pump/station testing prior to shipment
- Flexibility - Custom & standard designs meet customer requirements
- Value - Lower total installed & lifetime costs vs. built-in-place designs
- Durability - 50 years cathodic protection & decades of S&L Pump life
- Efficiency - S&L Pumps offer higher pump efficiencies than submersibles
- Practical - Complete station arrives to job-site ready for connection
- Safe - Designed for continuous human occupancy with HVAC & Safe-Stair entry
- Support - 60+ years of design, service & parts from one industry-reliable source



Factory Testing:
S&L Pump Test Facilities conform to Hydraulic Institute Standards for centrifugal pump testing & are powered by a Computer Automated Data Collection System.



CAPSULAR® Design Data & Options

Flow Rate:

- 75 gpm - 20,000 gpm (28.8 mgd)
- 5 lps - 1,280 lps

Head Conditions:

- Single Stage: 370 ft. / 113 m
- Multiple Stages: 500 ft. / 152 m

Options:

- Pump Sizes: 4" - 12" / 100 mm - 300 mm
- Three (3) or more Pumps per Station / **I-SERIES™** Immersible Pumps
- Safe-Stair Entry & Maintenance Lifts
- Soft Starts & Variable Frequency Drives (VFDs)
- Programmable Logic Controls
- Multiple Shell Configurations with Built-In Desks, Shelves & Sinks

CAPSULAR®

A Wise Investment

The CAPSULAR® Pump Station's pre-engineered design provides end-users real value both in terms of capital and life-cycle cost savings. When compared to built-in-place, concrete designs, 30% savings can be realized with the S&L factory-built approach. Engineering costs are lower because of the extensive engineering (including mechanical, electrical, structural, environmental) already accomplished for the base CAPSULAR® design. Special modifications for customer requirements are easily made or inserted. *Following are key design features that deliver value-added for cost considerations.*

1 Exclusive S&L Safe-Stair Entry Module [Option]

provides safe and easy access to the station, thereby reducing occupational requirements and the associated capital costs of buildings and concrete stations requiring underground access.

2 Future Adaptability

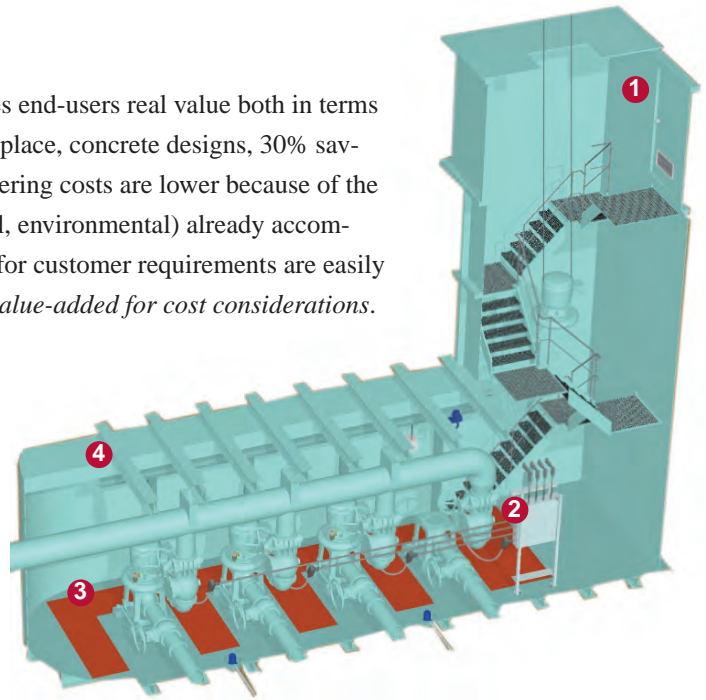
allows stations to be designed for future pumping conditions related to population growth, etc. Changes are easily accomplished through minor adaptations of rotating assemblies and/or controls.

3 Spacious Interiors with Internal HVAC

enables continuous human occupancy to safely inspect equipment. Functional options include internal shelving, work desks and sinks.

4 Fluted Wall Design with 50-Year Cathodic Protection

provides structural support without outside I-beams. This design combined with VERSAPOX® coating enhances corrosion protection.



Above-Grade Entry Module



Operator-Safe Interior



Multiple Configurations Available

S&L Pump Distinctives

The Non-Clog S&L Pump comprises the heart of Smith & Loveless Pump Stations. With its industry-superior components and construction, it became the first pump designed specifically for wastewater transfer. The design philosophy behind the S&L Pump engenders hassle-free maintenance, energy savings and long-lasting, reliable operation. This combination yields tremendous dollar savings for utilities and end-users striving to responsibly manage their equipment assets and promote beneficial life-cycle costing.

S&L Pump Features include:

1 Stainless Steel, Heavy-Duty,

Oversized Shaft & Bearings
reduces corrosion & deflection, thereby increasing potential seal & bearing life.

2 Split Bronze Seal Housing

provides superior heat dissipation & prevention of rust-forming particles.

3 Full Diameter Impeller Shrouds

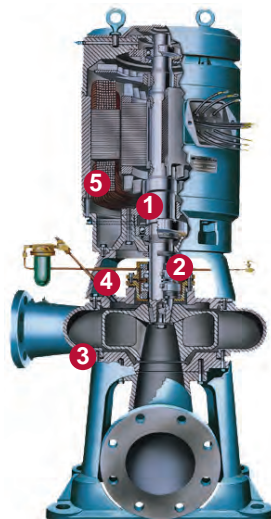
minimize internal recirculation & improves pumping efficiency.

4 Registered Fit Parts

allows for precise assembly & close tolerances.

5 Premium Efficient Motor Option

saves on energy costs while increasing the life of the motor.



Non-Clog S&L Flooded Suction Pump



3-Pump CAPSULAR® interior with connections for future fourth pump.

CAPSULAR[®]

Underground Pump Station

Options:

- Pump Sizes: 4" - 12" / 100 mm - 300 mm
- Three (3) or more Pumps per Station
- I-SERIES™ Immersible Pumps
- Safe-Stair Entry & Maintenance Lifts
- Soft Starts & Variable Frequency Drives (VFDs)
- Programmable Logic Controls (PLC)
- HVAC Options & Controls
- Multiple Shell Configurations with Built-Ins (Desks, Shelves, Sinks, Water Heaters)



Interior Features & Options

Each CAPSULAR[®] Pump Station Contains Standard & Custom Features to Meet the Needs of the End-User.



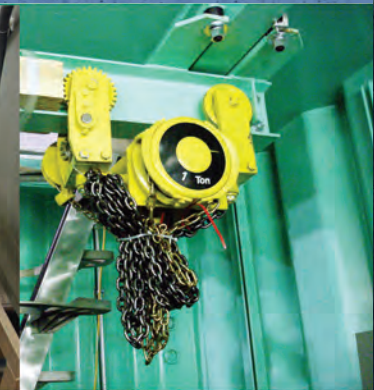
HVAC & Controls



Safe-Stair Entry



Water Basins & Desks



Traveling Beam Hoist

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