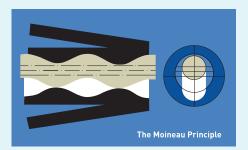


ENGINEERED TO DO ONE JOB PERFECTLY

At the heart of the E/One Sewer System is the toughest, hardest working pump in the industry. The standard in excellence, durability, and longevity, the E/One Extreme Series Grinder Pump. Its evolution reflects everything we've learned in more than 55 years as the originator and leader in the category of pressure sewer systems.

E/One's pump stations incorporate the grinder pump, motor controls and level sensing device integrated into a compact unit, easily removable for servicing when necessary.

And, the geometry of the pump not only produces a near-vertical pump curve, but allows passage of ground solids without clogging. Because of the low rpm and highest quality components, we experience the lowest service call rate in the industry. An average mean time of IO years between service calls is typical.



The progressing cavity pump itself is based on the Moineau principle. A rotor turns within a stator, creating a sequence of sealed chambers. The precision-cast and polished stainless steel rotor moves wastewater through these chambers at a nearly constant flow, over a wide range of conditions – from negative to abnormally high heads. Turning at just 1,725 rpm, the one-horsepower motor can pump fluid through more than two miles of small-diameter piping or elevation changes of over 185 feet.

SOME KEY ADVANTAGES:

- HIGH HEADS/NEGATIVE HEADS. Reliable operation from negative head to 185 feet of total head for continuous duty reduces the number of lift stations and pipe sizes. This cuts costs – both initially and in long-term operation and maintenance.
- CONSTANT FLOW. The system pressures to be overcome by any given grinder pump
 in a pressure system vary dramatically over the course of a day. E/One's progressing
 cavity pump readily accommodates these pressure variations while maintaining a
 nearly constant flow without ever operating at "near shut off" thus avoiding the
 wear and motor burn-out suffered by other pump types.
- HIGH GRINDING TORQUE. Our unique pump system, driven by a one-horsepower motor turning at 1,725 rpm, produces grinding torque greater than a two-horsepower pump turning at twice the speed.
- ENERGY EFFICIENT. The pump is activated automatically and runs for short periods. Typical annual energy consumption is less than many household appliances.
- LOW MAINTENANCE SUBMERSIBLE MOTOR. Low maintenance and long life are the hallmarks of our air-filled motor. Permanently lubricated ball bearings and Class F insulation eliminate the need for periodic oil changes and oil disposal costs required by oil-filled submersible motors.
- LARGE-DIAMETER GRINDER ASSEMBLY. Almost twice the diameter of most other types of grinder pumps, contributing to a dramatic reduction of inflow velocity for less wear and no binding, clogging or jamming.
- NO PREVENTIVE MAINTENANCE. Non-fouling static level sensors require no
 preventive maintenance. Because of our unique, near constant discharge rate,
 no main line flushing is required in a properly designed system.
- CORROSION RESISTANCE. E/One's stainless steel ball-type discharge valve and piping won't corrode like copper or galvanized, and hold up years longer. No corrosion, no maintenance.
- DEPENDABILITY. E/One pumps typically run ten years between service calls with more than 55 years of in-ground experience.
- PROVIDES FOR ENVIRONMENTALLY SOUND WASTEWATER MANAGEMENT. The E/One Extreme Series grinds waste material into small particles. This enables the use of inexpensive, small-diameter pressure pipes, buried at shallow depths, to transport wastewater to a suitable processing site.
- SERVICEABILITY. Our unique core design minimizes in-field troubleshooting and facilitates in-field or remote pump servicing. This flexibility means lower maintenance costs and minimum homeowner inconvenience.

ANATOMY OF A LEADER:

THE INSIDE STORY ON THE E/ONE GRINDER PUMP STATION. LOW-PROFILE COVER

Aesthetically pleasing. Provides easy access for service while blending with surroundings.

E/ONE EQUALIZER

Compensates for fluctuations in atmospheric pressure to enable accurate level sensing while assuring the level sensing system is watertight.

3 ELECTRICAL QUICK DISCONNECT

For safe and easy service. UL-listed, compatible with OSHA regulations for confined space entry.

4 UNIQUE CORE DESIGN

Eliminates the need for in-field troubleshooting and service. Modular controls simplify service.

DURPOSE-DESIGNED TANK

Constructed from polyethylene for rugged reliability. Designed with a tapered base to reduce the volume of retained wastewater.

6 PRESSURE SWITCH LEVEL CONTROL Self-cleaning level sensors require no preventive maintenance.

PROGRESSING CAVITY PUMP

A deceptively simple design produces a nearly constant flow under a wide range of continuously varying conditions.

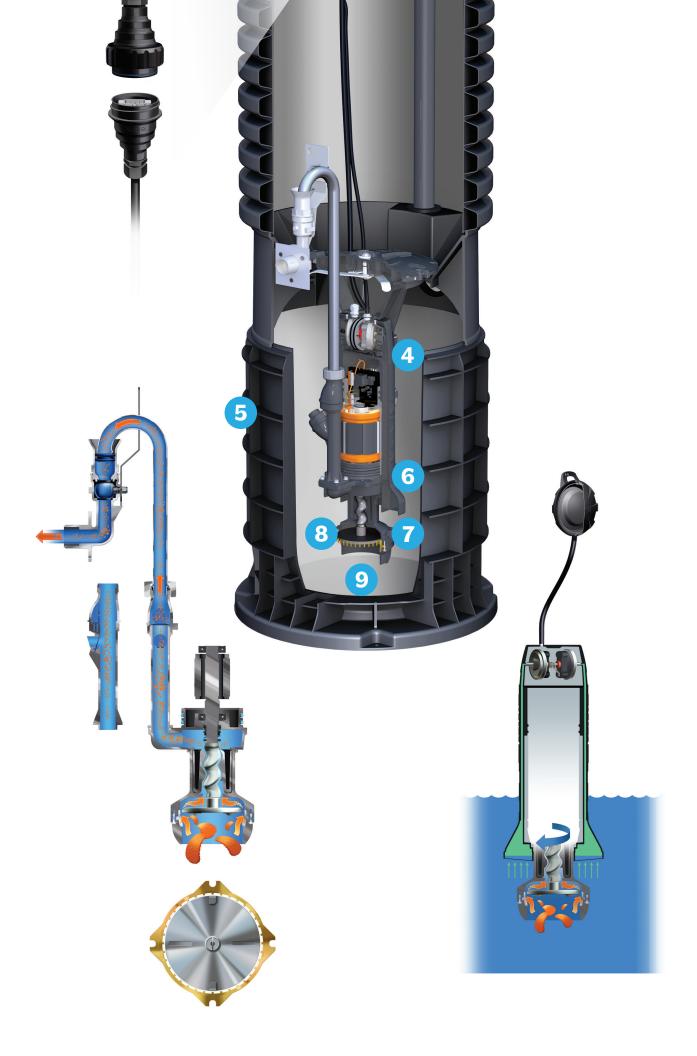
COMPOSITE PARTS

Engineered thermoplastic composite replaces cast iron suction housing and control cover. Improved serviceability and corrosion resistant.

CUTTER WHEEL AND SHEDDER RING

Hardened corrosion-resistant cutter bars and teeth process sewage, grinding wastewater solids, as well as wood, plastic and cloth. Will not jam or clog!

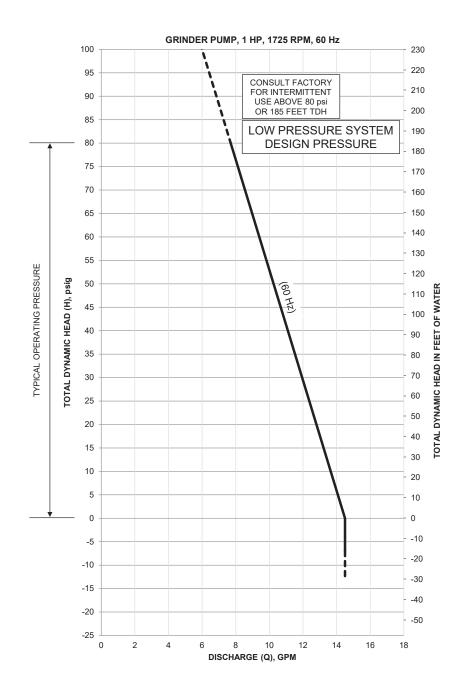




GRAVITY SEWERS ARE NO LONGER THE RULE FOR SOLVING WASTEWATER PROBLEMS.

At the heart of the system is the E/One progressing cavity grinder pump – with high heads that can eliminate costly lift stations, and a robust, powerful design that translates into the industry's highest levels of reliability, availability and maintainability.

E/ONE SPD PUMP PERFORMANCE CURVE



ENGINEERED PRESSURE SYSTEMS

REPEALING THE LAW OF GRAVITY

NOBODY CAN TOUCH OUR CURVE.

In a pressure system, constant, predictable pump output is the foundation for proper hydraulic design. It enables the engineer to minimize retention time, pump wear, and keep scouring action at effective levels.

Environment One's semi-positive displacement, progressing cavity pump has a nearly vertical H-Q curve. It is by far the most "forgiving" pump design – providing predictable flow over the full range of typical system pressures; strengths critical in a large-scale, pressure sewer.

E/One's superior high head capability allows a system with few, if any, lift stations. And, it easily accommodates additional future connections without compromising system performance.

These E/One pump characteristics translate into:

- predictable hydraulic design
- lower collection system capital costs
- less maintenance
- lower operating costs

LEADING THE INDUSTRY WE INVENTED.

Environment One not only developed the pressure sewer system, but consistently leads the industry both in system deployment and innovation. The company is dedicated to Total Quality, Continuous Improvement, and Customer Satisfaction, as evidenced by the E/One Extreme Series. Today, there are nearly 3 million end users worldwide.



Driven by the remarkable E/One Extreme grinder pump, E/One Sewers give engineers, developers, municipal sanitarians, and land planners unprecedented new freedom in land usage and septic tank replacement.

With a smaller footprint and a softer touch on the land, they're so much easier to install. Front-end costs can be reduced by as much as 80%. Total installed costs by half. And O&M costs by up to 75%.

The E/One Extreme grinder pump reduces all forms of sanitary waste to a non-clogging slurry and pumps it through a network of small-diameter pipes. Since gravity is replaced by the power of the pump, sewer systems need not run downhill nor require large-diameter pipes, deep trenches, multiple booster stations – or their associated costs.

A system powered by the E/One Extreme grinder pump converts formerly cost-prohibitive building sites into cost-effective reality. "Problem areas," with high ground water, elevation changes or impenetrable bedrock, are transformed into valuable, developable real estate.

Of course, E/One's low upfront costs apply to conventional building sites as well.

In addition, E/One units are easy to install and virtually maintenance-free – refined through more than 55 years of experience with the largest installed base in the industry.



SAVE THOUSANDS, VIRTUALLY SERVICE-FREE.

Contact your local distributor:



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A Precision Castparts Company
LM000364 Rev E

