



**ENGINEERED
TO DO ONE JOB
PERFECTLY**

E/ONE
EXTREME
S E R I E S

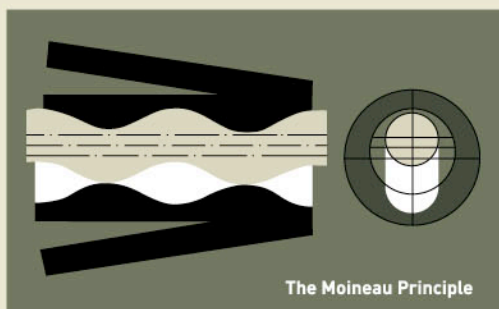
**PRESSURE
SEWER
SYSTEMS**

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 new standard in excellence, durability, and longevity, the E/One Extreme Series Grinder Pump. Its evolution reflects everything we've learned in nearly 40 years as the originator and leader in the category of low pressure sewer systems.

The pumps 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 10 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 1,425 rpm, the 0.75 kilowatt motor can pump fluid through more than 3km of small-diameter piping or elevation changes of over 56 metres.

SOME KEY ADVANTAGES:

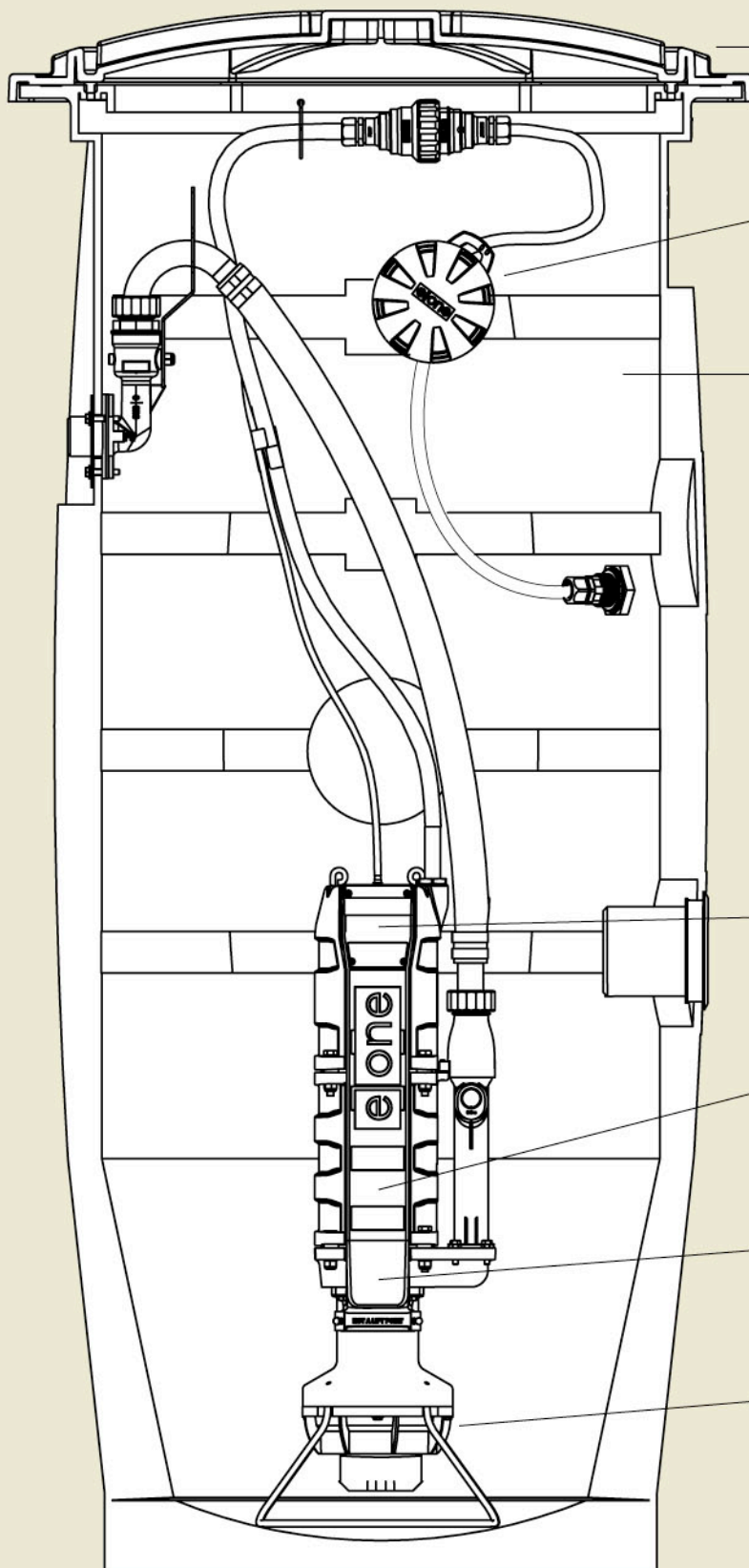
- **HIGH HEADS/NEGATIVE HEADS.** Reliable operation from negative head to 56 metres of total head for continuous duty reduces the number of lift stations and pipe sizes. This cuts costs – both initially and in long-term operation and maintenance.
- **CONSTANT FLOW.** The system pressures to be overcome by any given grinder pump in a low 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 0.75 kilowatt motor turning at 1425 rpm, produces grinding torque greater than a 1.5 kilowatt pump turning at twice the speed.
- **ENERGY EFFICIENT.** The pump is activated automatically and runs for short periods. Typical annual energy consumption is comparable to a 40-watt light bulb.
- **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 blinding, 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.
- **DEPENDABILITY.** E/One pumps typically run ten years between service calls with almost 40 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. Result: Ground water contamination from failing septic tanks can be eliminated.
- **SERVICEABILITY.** Our unique core design eliminates the need for in-field troubleshooting and pump servicing. This means lower maintenance costs and minimum homeowner inconvenience.

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

At the heart of the systems 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.

ENGINEERED LOW PRESSURE SYSTEMS

REPEALING THE LAW OF GRAVITY



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.

PURPOSE-DESIGNED TANK: Constructed from polyethylene or FRP for rugged reliability. All vessels are designed with a tapered base to reduce the volume of retained wastewater.

STAINLESS STEEL HARDWARE (not shown): E/One's SS discharge ball valve won't corrode. No corrosion, no maintenance, no tools required.

DOUBLE O-RING SEALS (not shown): Make assemblies waterproof and novel joint geometry minimizes the effects of crevice corrosion.

UNIQUE CORE DESIGN: Eliminates the need for in-field troubleshooting and service. Modular controls simplify service.

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

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

GRINDER WHEEL AND SHREDDER RING: Forged alloy cutter wheel with induction-hardened teeth. Proven cast shredder ring with offset tooth pattern.

LEADING THE INDUSTRY WE INVENTED.

Environment One not only pioneered the low 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 a million end users, worldwide.

SEWER ANYWHERE

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 cost advances apply to conventional building sites, as well.

In addition, E/One units are easy to install and virtually maintenance-free – refined through nearly 40 years experience with the largest installed base in the industry.



SAVE THOUSANDS, VIRTUALLY SERVICE-FREE.

Contact your local distributor:

e one
SEWER SYSTEMS

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A Precision Castparts Company