


Amity Township, Berks County, Pennsylvania
Residential Grinder Pump Maintenance Policy

All residential sanitary sewage grinder pumps installed in Amity Township will be owned and maintained by the individual property owners. The low pressure sewer mains over 2" in diameter will be installed by the developer or property owner and dedicated to the Township. The Township will maintain the low pressure sewer main lines only.

Amity Township will accept responsibility for enforcement of the Sewer Use Ordinance and will require that any individual homeowner repair or replace a malfunctioning residential or commercial grinder pump system that could cause a nuisance or public health hazard.

The type of grinder pump systems that are required are detailed in Section 17 of the Amity Township Standard Specifications and Details for Sanitary Sewer Extensions and Repairs, a copy of which is attached.

Signed

A handwritten signature in black ink, appearing to read "Charles Lyon Township Manager", written over a horizontal line.

Charles Lyon, Township Manager

RECEIVED

DEC 14 2007



Pennsylvania Department of Environmental Protection

1005 Cross Roads Boulevard
Reading, PA 19605-9778
December 13, 2007

Reading District Office

610-916-0100
FAX: 610-916-0110

Amity Township
2004 Weavertown Road
Douglassville, PA 19518

Re: Planning Module for Land Development
Kramer Tract Subdivision
APS ID No. 632182
DEP Code No. A3-06917-169-3
Amity Township, Berks County

Ladies and Gentlemen:

The subject module received on 12/3/07 has been reviewed and is incomplete for the following reasons:

1. This module proposes that each of the houses in this subdivision will use a grinder pump. The Narrative should state if the Township or the property owners will own the individual grinder pumps. If the property owners will own the pump, the following requirements need to be met:
 - a. The municipality must accept responsibility for any enforcement necessary to abate any nuisance or public health hazard that may occur in privately owned pressure lines or pump units. The module must contain a statement by the municipality that they will accept this responsibility.
 - b. The municipality must maintain control over the type of pump units used so that full service capability is available locally on short notice and/or maintains extra pumps units and/or replacement parts for emergency use and repair.

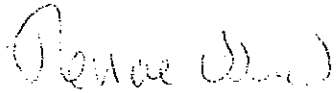
A copy of this letter must be attached to the planning module when resubmitted through the municipality to the Department. This letter is to be used as a checklist. The municipality must submit a complete module package. (See end of letter for certification statement.)

Please address these items and resubmit two copies of the module for our review. The 60 days review period does not begin until we are in receipt of a complete submission.

If we do not receive this information within 60 days of the date of this letter, the planning module for this project will be disapproved.

If you have any questions, please contact me.

Sincerely,

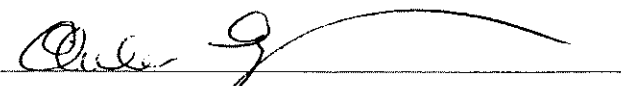


Renae Wood
Sewage Planning Specialist
Water Management Program

cc: Berks County Planning Commission
Bob Razier, Heritage Building Group
David Horton, Boucher & James Inc.
Tim Wagner
Plan File
T

CERTIFICATION STATEMENT:

I certify that this submittal is complete and includes all requested items. Failure to submit a complete module package will result in return of the package.

Signed:  Date: 12/20/07

Title: Township Manager

AMITY TOWNSHIP

Berks County, Pennsylvania

**STANDARD SPECIFICATIONS AND
DETAILS FOR**

**SANITARY SEWER EXTENSIONS
AND REPAIRS**

December 2005

5951.43

Prepared By:

ARRO Consulting, Inc.
400 Washington Street, Suite 602
Reading, Pennsylvania 19601
(610) 374-5285

Around the outside of the fence, plant arborvitae on four-foot center for screening. The disturbed area outside the fence shall be graded with topsoil and seeded.

- C. If the development is located outside of the Township, the flow from the pump station must be metered before it enters the Township's sanitary sewer system. The flow meter shall be capable of transmitting a signal to a remote location designated by the Township.
- D. The Developer shall provide two (2) sets of prints and specifications to the Township or the Township's Sanitary Engineer for review. The information shall also be provided on a CD in an electronic format that is compatible with the Township's software.

SECTION 15. COMMUNITY TREATMENT/DISPOSAL SYSTEMS

Community treatment/disposal systems shall not be permitted within the Township's service area.

SECTION 16. LOW PRESSURE SYSTEMS

Low pressure systems, including grinder pumps and septic tank effluent pump (STEP) systems, are permitted within the Township's Sewer System only upon approval of the Sanitary Engineer.

SECTION 17. PRIVATELY-OWNED INDIVIDUAL GRINDER PUMPS AND/OR NON-CLOG SEWAGE PUMPS

A. General:

1. Application:

- a. Privately-owned individual grinder pumps or non-clog sewage pumps may be used when the individual discharges into a manhole/box outside of the right-of-way and flow from that manhole/box is by gravity through a six (6) inch lateral to the Township gravity collection system.
- b. Privately-owned individual non-clog sewage pumps shall not be used when the individual discharges into a pressurized sewage system owned and maintained by the Township.
- c. Privately-owned individual grinder pumps shall be used when the individual discharges into a pressurized sewer system owned and maintained by the Township.

2. Quality Assurance:

a. Acceptable Manufacturers:

- (1) Hydromatic
- (2) Myers
- (3) Approved Equal

b. The units shall meet accepted standards for plumbing equipment for use in or near structures and shall operate free from noise, odor, or health hazards.

c. Requirements of Regulatory Agencies:

- (1) Comply with construction code requirements of State, County, and such other political subdivision specifications as may exceed the requirements of the codes, standards, and approving bodies referenced throughout these specifications.
- (2) Provide electrical control cabinets and pump units constructed in accordance with the requirements of the Underwriters Laboratory, or other nationally-recognized certification agency, and labeled accordingly.
- (3) Units shall comply with the applicable requirements of the Pennsylvania Department of Environmental Resources and the National Sanitation Foundation.

d. Each unit shall be factory tested. The manufacturer must have the facilities to perform listed tests. The minimum test required shall be:

- (1) Watertightness of the unit at maximum depth.
- (2) Pump output in gpm at at least three different pressures.
- (3) Amperage and wattage of electrical consumption.

e. Single Source Responsibility: To ensure single source responsibility and parts supply, obtain pump units from our manufacturer.

3. Submittals:

- a. When applying for the permit, submit for approval completely dimensioned shop, layout, or setting drawings and catalog cuts as required to provide a complete description of system equipment as specified in this Section.
- b. Submit shop drawings certified for construction by the manufacturer which includes location of electrical connections, wiring diagrams, anchor bolt layout, details indicating construction and materials of construction, diameter of shafting, dimensions and rated horsepower of all motors, gear and bearing ratings, service factors, and weights of principal parts and completely assembled equipment.
- c. Submit evidence of Underwriters Laboratories (UL) listings and approvals on electrical control panels and pump units.

B. Products:

1. General:

- a. A minimum of simplex (single) pump units shall be required to be installed at all residential property locations. Duplex pump units as a minimum shall be required to be installed at all commercial and/or industrial locations.
- b. Pumps shall be installed in fiberglass-reinforced polyester basins for outdoor installation only. Indoor installations will not be permitted.
- c. The pump package shall consist of the basin, pump and motor, junction box, start-stop level controls, motor high temperature shut-off, motor seal leak alarm, high water level alarm, shut-off valve, discharge piping and fittings, and all internal wiring terminating into a junction box.
- d. An externally-mountable control panel shall be provided for each unit.
- e. The location of the pump package and control panel shall be determined by the property owner or the developer, outside of the right-of-way.

2. Non-Clog Sewage Pumps:

a. General: The qualifying non-clog sewage pumps produced by the aforementioned manufacturers are as follows:

- (1) Myers Model WHR-DS
- (2) Hydromatic Model SP50
- (3) Approved equal

b. Submersible Pump Motor:

- (1) The submersible pump shall have a minimum 2-inch NPT discharge. The pump shall be heavy-duty cast iron construction. The pump impeller shall be cast iron, threaded to a stainless steel shaft, and shall be capable of handling up to 1½-inch spherical solids and lint. The seal shall be a “double seal”.
- (2) The submersible motor shall be oil filled for cooling and lubrication of the shaft bearings. It shall have “double bearing” – upper radial – and lower thrust – bearings. To protect against overheating, the motor windings shall contain an automatic reset thermal overload for single-phase residential applications.

3. Grinder Sewage Pumps:

a. General: The qualifying grinder pumps produced by the aforementioned manufacturers are as follows:

- (1) Myers Model WG 20
- (2) Hydro-O-Matic Model SPG 200M2-2
- (3) Approved equal

b. Submersible Pump Motor: The grinder pump and motor are to be specially designed and manufactured so they can operate completely submerged in wastewater. Electrical power cord is to be sealed by use of a cord grip, with individual conductors additionally sealed into the cord cap assembly with epoxy sealing compound, thus eliminating water entering the motor by following individual conductors inside the insulation. The cord cap shall be sealed into the motor housing with a Buna-N O-ring, providing an electrical connection which is completely watertight, yet may be easily removed for service.

- c. The combination centrifugal pump impeller and grinder unit shall be attached to a common motor and pump shaft made of stainless steel. The grinder unit shall be on the suction side of the pump impeller, discharging directly into the impeller inlet leaving no exposed shaft to permit packing of ground solids. Both stationary and rotating cutters shall be made of hardened and ground stainless steel. Pump and motor housing are to be high quality grey iron castings. Impeller shall be bronze. All fasteners shall be of stainless steel.
 - d. The pump motor shaft shall be sealed by two mechanical carbon and ceramic-faced seals or similar sealing material within an oil-filled seal chamber. An electric sensing probe shall be mounted in the seal chamber to detect any water leakage past the lower seal before damage is done to the motor. The seal probe circuit sensitivity shall not be affected by cable length between the motor and the seal probe circuitry in the control panel. This probe shall be connected to an amber light and horn in the control panel. The shaft shall be supported by an upper ball radial and thrust bearing and a lower bronze radial sleeve or oversized single row ball bearing, both running in oil.
 - e. The rotor winding and rotor are to be mounted in a sealed, submersible-type housing which is filled with clean high dielectric oil or air as pump design dictates. A heat sensor thermostat, which will detect overheat conditions and stop the pump, shall be located in the motor winding. When the temperature drops to a safe level, the pump will automatically reset.
 - f. Submersible motor shall be constant speed, 3,450 rpm, minimum 2 hp, suitable to operate on a 240 volt, 60 Hz, single-phase service. The motor shall be of proper size to drive the pump at any point on the pump curve. Thrust bearings shall be of the ball type. The motor shall be a capacitor start-capacitor run type with high starting torque.
 - g. Motor shall be amply rated for the head and capacity values specified, on continuous duty, without exceeding 1.0 service factor load at the minimum capacity design point, and without exceeding the motor full service factor load at any head between shut-off and 10 feet TDH, which is the minimum expected dynamic head to be found in this installation.
4. Rail Assembly:
- a. A lift-out guide rail assembly shall be included as part of the pump unit, which will permit easy removal and installation of the pump and lower check valve without the necessity of personnel entering the basin. Cast iron guide brackets with guide brackets and guide yokes

of sufficient bearing strength to prevent binding shall bolt to the pump. The yokes shall mate over guide rails of 1-inch minimum galvanized pipe running between the upper rail support casting which shall be attached to and supported by the basin sidewalls and the fixed attachment point on the floor of the basin. The guide rails may be supported by a fixed connection to the top of the basin provided that the connection is not part of the removable access cover and is not affected by the removal of the access cover.

- b. A stainless steel lifting chain shall be securely fastened to the top of the pump and to the top of the basin to facilitate removal of the pump. The chain shall be minimum of 1/4" welded link-type to support the weight while removing and installing the pump.

5. Level Controls:

- a. Sealed float-type mercury switches shall be supplied to control sump level and alarm signal. The mercury-type switches shall be sealed in a solid polypropylene float or corrosion and shock resistance. The support wire shall have a heavy Neoprene jacket. A weight shall be attached to cord above the float to hold switch in the sump. Weight shall be above the float to effectively prevent sharp bends in the cord when the float operates. Two float switches shall be used to control level: one for pump turn-on, one for pump turn-off. A third switch shall be provided for high water alarm. The float switches shall hang in the sump and be supported by a bracket and cord snubber which will give positive support to the controls and allow flexibility in the set levels.

6. Junction Box:

- a. The junction box shall be constructed of fiberglass for corrosion resistance. The enclosure shall be of adequate thickness and properly reinforced to provide good mechanical strength. The junction box shall have a fully-gasketed cover that is held in place by four stainless steel captive screws with slotted/flat-sided heads totally encapsulated in PVC so that no metal parts are exposed. The cover shall be connected to the body with a stainless steel chain.
- b. An adequate number of sealing-type cord grips shall be supplied for incoming pump and switch cords. The cord grips shall be made of non-corrosive material, such as PVC or nylon, and shall have a rubber compression bushing that will make an effective seal around

the wire jacket. The cord grip shall also seal to the junction box wall with an "O" ring, gasket, or other effective means.

- (1) The hub shall be of a corrosion-resistant material and shall be of adequate size to accommodate the number of wires required to operate the pump.
- c. A method for sealing the incoming wires shall be supplied by the manufacturer so that condensation from the conduit or ground water will not enter the enclosure; or, an explosion-proof conduit seal shall be required. Duct seal shall not be used.
- (1) Wires shall be connected within the junction box by means of wire nuts and the connections further protected by a non-hardening sealant.
- d. Electrical cable for power and control wiring between the junction box and each pumping unit shall be supplied. Wire size shall be selected in accordance with ampacities required by the National Electrical Code.

7. Valves:

- a. Check Valves: The pumps shall be equipped with a factory-installed integral flapper-type check valve or integral ball check valve built into the discharge pipe. This valve shall provide a full-ported passageway when open, and shall introduce a friction loss of less than six inches of water at maximum rated flow. The valve body shall be made of cast iron.
- (1) Working parts of flapper-type check valves shall be made of 300 Series stainless steel and fabric-reinforced synthetic elastomer to ensure corrosion resistance, dimensional stability, and fatigue strength. A non-metallic hinge shall be an integral part of the flapper assembly providing maximum degree of freedom for assured seating even at a very low pressure.
 - (2) Ball check valve shall include a corrosion-resistant, non-metallic ball and rubber sealed seat.
- b. Ball Valve: The pump shall be equipped with an isolation ball valve which shall be of all bronze or stainless steel construction, three-piece design, full port, with TFE seals and seat. Valves shall have screwed end connections and shall be lever-operated with an extension handle extended vertically to a supporting bracket fixed not more than twelve (12) inches below finished grade. Valves shall be as manufactured by Jamesway Corporation, Worcester Controls, or approved equal.

- c. Redundant Check Valve: All pumps shall include one separate check valve per unit for installation in the discharge line between the pump and the sewer main to ensure maximum protection against backflow.
 - (1) The valve shall be of the gravity-operated flapper type or ball type. The check valve shall provide a full-ported passageway when open and shall introduce a friction loss of less than six inches of water at maximum rated flow. Working and integral parts shall be at least equal to those specified above for the check valve.
 - (2) The valve body shall be a high gloss, injection molded part made of PVC Type I-II with hub and socket compatible with PVC pressure pipe SDR 21. Dimensions for hub and socket shall be in accordance with commercial standards C5-272-65.
- d. Anti-Siphon Valve: The pump shall be constructed with a positively-primed flooded suction configuration. As added assurance that the pump cannot lose prime even under negative pressure conditions in the discharge piping system, the pump shall be equipped with an integral anti-siphoning, air relief valve in the discharge piping. This valve will automatically close when the pump is running and open to atmosphere when the pump is off.

8. Basin:

- a. General: Fiberglass basins may be provided in areas with no traffic loadings. All chambers shall register flush with finished grade. The basin shall have a minimum net effective storage volume of 250 gallons between the pump shut-off elevation and the invert of influent line from the connected structure.
- b. Fiberglass Basin: The basin shall be custom molded of fiberglass-reinforced polyester resin using lay-up and spray technique which will assure that the interior surface is smooth and resin-rich. The basin shall have a nominal wall thickness of 1/4-inch. The basin sizes shall be no less than the minimum dimensions shown on the Drawings and shall include a hopper bottom. The fiberglass basins shall be built in accordance with:
 - (1) Plastic laminate ASTM C581 and C582.
 - (2) Chemical-resistant test ASTM C581. Previous tests will be acceptable provided laminates are representative.

- c. The basin shall be free of imperfections, sound, watertight, and of high quality workmanship. Basins shall have lifting lugs or other devices for unloading and installation. All conduit and piping connections shall be provided in the locations indicated on the drawings and shall be plugged for shipment.
- d. One 4-inch diameter inlet hub shall be provided for each pumping unit. The inlet hub shall be suitable for use with 4-inch PVC, SDR 35, push-on joint pipe. Hubs shall be field installed to meet field conditions.
- e. One 2" NPT discharge coupling shall be provided for the pump unit. Internal piping shall be provided to this discharge coupling. The depth of the discharge coupling (centerline of coupling to finish grade) shall be no less than 42" and no greater than 54".
- f. Fiberglass basins shall be equipped with a steel cover coated with a high temperature baked epoxy green-colored paint. The cover shall be bolted to the basin with stainless steel cap screws. Cadmium-plated nuts for the screws shall be embedded in the fiberglass to prevent turning and for corrosion resistance. The basin cover shall be provided with a padlock. This lock shall be of the solid rustless design with a hardened steel shackle and zinc coating.

9. Electrical Control Panel:

- a. General: A separate remote electrical control panel shall be provided. Panel shall contain the items as specified. In addition, the panel shall contain a UL-listed NEMA-sized motor contractor having a guaranteed component lift span, without maintenance or contact replacement, of one million operations (definite purpose contractors will not be allowed). The panel shall have an adjustable or non-adjustable two-pole bi-metallic temperature compensated UL-listed overload relay meeting NEMA Class 10 tripping characteristics, and the auxiliary contact of the overload relay must be connected in series with the motor contractor coil to switch off the contractor in event of overload. The panel shall also have lightning protection and any other items required for proper control of the centrifugal-type pump unit.
- b. The enclosure shall contain an inner back panel for mounting of the internal components. The enclosure shall be hinged, NEMA designed for 16 gauge metal, primed, and painted gray enamel, with combination closing latch and locking hasp.

- c. The control panel shall be fitted with a through-the-door alarm horn and silence button with the horn having a 90 dB sound level when measured at 10'-0" distance. The horn unit shall be as furnished by (or approved equal):
 - (1) Edwards
 - (2) Panalarm
 - (3) Faraday
- d. Inside the control enclosure shall be a red neon glow lamp high water indication and an amber neon glow lamp for moisture leak detection. The alarm horn shall sound when either or both lights within the enclosure are activated due to a failure.
- e. A silkscreen or phenolic nameplate shall be provided above each component with the name of the component inscribed or failure inscribed when labeling the indicator lights.
- f. A "Hand-Off-Auto" selector switch shall be provided within the control panel for operating the pump manually when in "Hand", pump disable when in "Off", and normal operation when in the "Auto" position. The selector switch shall not disable the alarms under any condition.
- g. A main disconnect switch shall be provided with padlocking device to deenergize the panel. Toggle switch shall not be considered. From the load side of this switch shall be a two-pole circuit breaker for motor short-circuit protection. Also, and in parallel with the above breaker, shall be circuit breaker or fuse for protection of the control circuit.
- h. An electrical wiring diagram shall be supplied and attached to the inside of the panel enclosure. This diagram shall identify wire color, external connections to a numbered terminal block, and shall be arranged in a functional sequence ladder-type diagram.
- i. Control Panel Support: Fasten the control panel to the wall using lead expansion-type lag bolts, one for each corner of the panel. Allow at least 1/4" spacing between the wall and panel for air circulation.

10. Corrosion Protection:

- a. All materials exposed to wastewater shall have inherent corrosion protection, i.e., cast iron, fiberglass, stainless steel, or PVC. Any interior steel surfaces are to be suitably protected against corrosion. All fasteners shall be stainless steel.

C. Execution:

1. Installation of Pump:

- a. The pump unit shall be installed at a location to be determined by the property owner or developer.
- b. The depth of the pump unit will be dependent upon the location and depth of the proposed house service. The inlet port on the basin shall be set so that a minimum grade of two (2) percent for the new four (4) inch gravity service line can be maintained. The total unit depth from the invert of pump pit to top of entry hatch shall be no less than eight (8) feet.
- c. All pump basins shall be installed on a bed consisting of AASHTO No. 8 or No. 57 coarse aggregate and shall have a concrete anti-flotation collar poured around the bottom as shown on the Drawings. The remaining excavated area shall be backfilled to six inches below grade with excavated material containing no soil lumps, stones, concrete, or foreign objects larger than one (1) inch in maximum dimension. Six (6) inches of topsoil with seed and supplements shall be placed to grade the surrounding excavated area.
- d. If the excavated material does not meet the requirements described above, a backfill material consisting of AASHTO No. 8 or No. 57 coarse aggregate shall be used to a point six (6) inches below finished grade.

2. Operation of System:

- a. On sump level rise, lower mercury switch shall first be energized, then upper level switch shall next energize and start pump. With pump operating, sump level shall lower to low switch turn-off setting and pump shall stop. If level continues to rise when pump is operating, alarm switch shall energize and activate the alarm. All level switches shall be adjustable for level setting from the surface.

3. Electrical Connections:

a. Standard Property Connection:

- (1) Furnish and install a two-pole, 30 ampere branch circuit breaker in the panelboard.
- (2) Route three #10 wires with ground, Type "BX" or "ROMEX", from the branch circuit breaker to the control enclosure.

- (3) Furnish and install PVC Schedule 40 conduit from the control enclosure to the pump junction box through a rigid metal conduit explosion-proof seal at the junction box. Bury a minimum of 18 inches.
- (4) Furnish and install wire from the control enclosure to the pump junction box according to the manufacturer's recommendation. Seal the wires after testing using an approved compound within the explosion-proof seal at the junction box. Duct seal is unacceptable.

SECTION 18. STANDARD OF QUALITY

All construction, reconstruction, and alterations of sewer facilities shall be performed in accordance with recognized industry and trade standards and these specifications. The Township reserves the right, at its discretion, to stop, or require reconstruction of, any work not conforming to these Standard Specifications.



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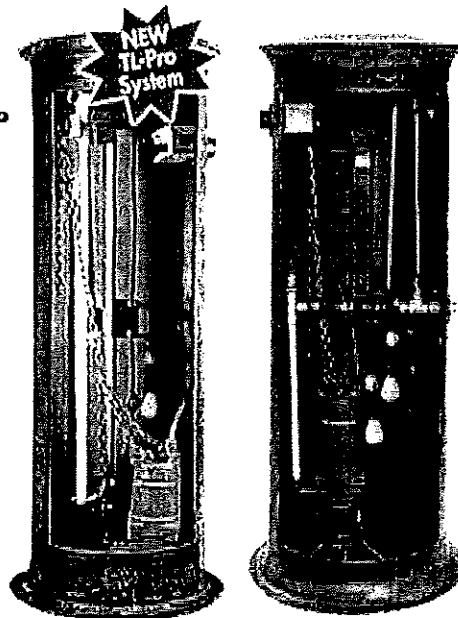
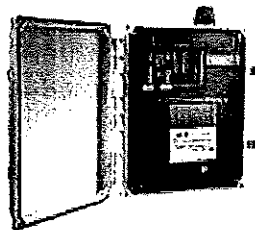
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Package Offering

Package includes
your choice of a 2HP
submersible grinder
pump, TL-Pro or
TG-Pro lift out
system, control
panel, three floats
and a fiberglass
basin with anti-
floatation collar.



Hydromatic's complete grinder package is a proven, innovative solution to a changing world. The use of grinder pumps prove to be a superior solution that is cost effective and minimally disruptive to the natural environment. Submersible Grinder Pumps keep beauty in the environment and cash in the pocket.

A grinder pump based system can be installed using relatively small diameter piping (as small as 1-1/4" to 2" laterals and mains), which can be laid in shallow trenches. Since the wastewater is pumped under low pressures, the piping can follow the terrain and be installed at minimal depths (just under the frost line in colder climates and according to local codes).

Cost savings come from the ability to eliminate costly deep excavation and through the use of small diameter pipe. Minimal excavation and soil disruption means that the beauty of any existing natural surrounding features can be saved.

TL-Pro System New!

A quality lift-out system available with your choice of a Hydromatic 2HP submersible rated grinder pump, the new **Float Plus** control panel, three weighted float switches and a

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fiberglass basin with anti-floatation collar. The *Complete Grinder Package Offering* is available with your choice of either **HPG200**, **HPGR200** or **HPGX** submersible rated, centrifugal grinder pump.

TG-Pro System Improved!

A quality flex hose design system available with a choice of a Hydromatic 2HP submersible rated grinder pump, the new **Float Plus** control panel, three weighted float switches and a fiberglass basin with anti-floatation collar. The *Complete Grinder Package Offering* is available with your choice of either a **HPG200** or **HPGR200** centrifugal grinder pump or a **HPD200** semi-positive displacement, submersible rated grinder pump.

EZ-Out System (for use with 2HP grinders only)

Complete fiberglass basin with cover, and stainless steel upper guide rail bracket lifting chain. Available with your choice of Hydromatic's 2HP HPG200 or HPGR200 centrifugal grinder pump.

Hydro-Rail System (for use with 2HP grinders only)

Complete fiberglass basin with cover, and stainless steel upper guide rail bracket lifting chain. Available with your choice of a Hydromatic vertical discharge grinder pump.

Hydromatic reserves the right to make revisions to its products and their specifications, this catalog and related information without notice. Most models are UL Listed and/or CSA Approved.

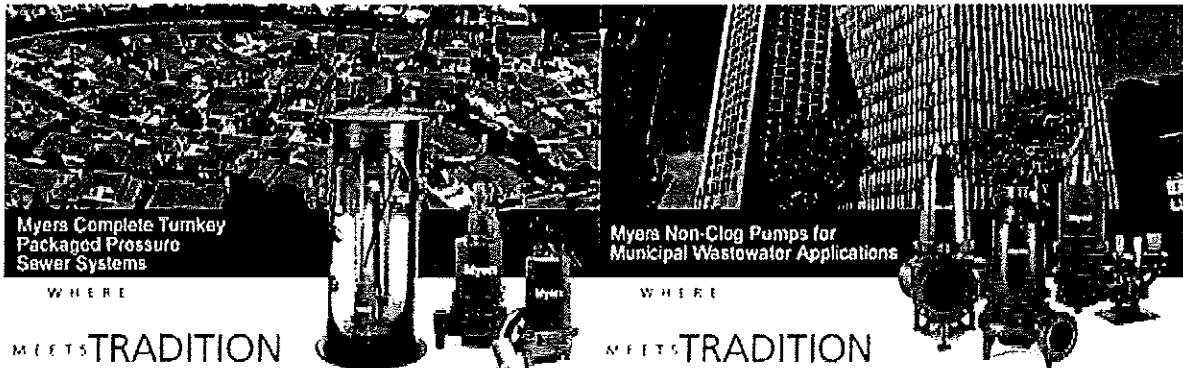
Myers®

Pentair Water

USA - 1101 Myers Parkway Ashland, Ohio 44805 • Phone: 419-289-1144 • Fax: 419-289-6658

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parts list, manuals and brochures of wastewater pumps and systems



Grinder Pumps

- A market leader in the development and installation of grinder pump systems.
- 2 HP through 15 HP grinder pumps with lifts to 260 feet and flows to 190 GPM.
- Offered as complete turnkey systems or engineered to specification.
- Computer system design and selection programs available for design assistance.
- Explosion-proof construction available.

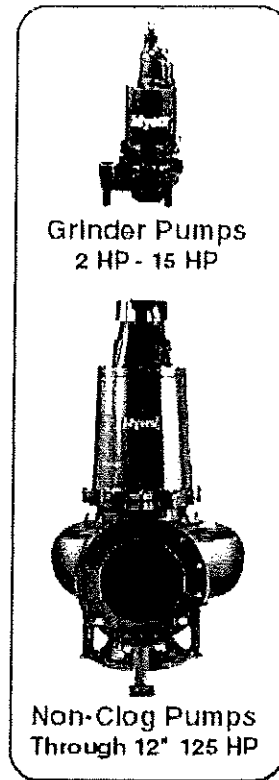
Non-Clogs Pumps

- 3" discharge through 12" discharge with 2" to 5.25" solids handling.
- 1 HP through 125 HP
- Lifts to 280 feet and flows to 8000 GPM.
- Computer system design and selection programs available.
- Explosion-proof construction available.

Accessories

- Custom designed controls and alarm panels.
- Liquid level controls.
- 3" through 12" guide rail lift-out packages.

- Explosion-proof construction available.
- Junction boxes, both standard and explosion-proof.



Myers, an industry leading complete turnkey company, providing engineered wastewater systems. Myers provides the most comprehensive personal engineered services available in the industry by assisting engineers, architects, developers and regional planners project assistance from the design inception through final product installation for their customized pressure sewer system.

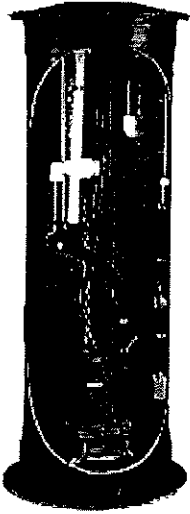
Myers Collection System Design (CSD) assistance provides the most complete hydraulic modeling service in the industry. Myers CSD program simplifies, assists and provides quick results to engineers designing collection systems. Engineer's topographical drawings can be incorporated into the CSD program.

Myers Collection System Design service provides complete system detailed results including; flow capacities, head requirements, pipe size, pipe velocity, hydraulic grade and elevation, proper pump selection as well as pipe length and cost estimate. Myers offers these results in tabular form as well as illustrations on drawings provided to the Myers representative.

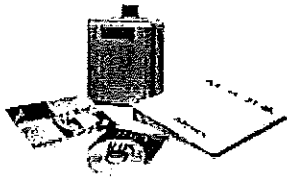
Myers Collection System Design service can be utilized for all types of pumps including grinders, non-clogs, effluent and small solids handling pumps. We can also accommodate a mixture of pump brands to assure you of system compatibility. Upon design completion and approval, Myers will custom manufacture, test and ship on time the pump systems per your exact specifications. Myers experienced nationwide network of technicians and service centers handle system start-up and maintenance requirements to assure the collection system constantly operates at peak efficiencies.

For more information, demonstration or complimentary copy of printed results of Myers Collection System Design (CSD) or Myers Automatic Pump Selection (MAPS) design assistance, Contact

your local Myers distributor to discuss specific wastewater pumping requirements. [Click here](#) to locate the nearest Myers distributor in your area.



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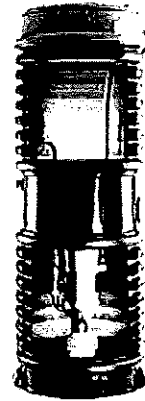
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GRINDER PUMPS

[2000 Series](#) | [Indoor Units](#) | [1000 Series](#) | [Gatorgri](#)

2000 Series | GP 2010

The E/One model GP 2010 simplex grinder pump station is an ideal choice for single-family homes. Grinder pumps pump wastewater from the home to the central sewer and/or treatment system through small-diameter pipes.



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Features

The GP 2010 grinder pump station consists of a pump and tank. The grinder pump, motor control sensing are integrated into a compact unit, easily removable for service.

Solids are ground into fine particles that pass easily through the pump, check valve and small-dia lines — even objects that should not be in sewage, such as plastic, rubber, fiber, wood, etc. The discharge connection can be adapted to any piping materials that meet local code requirements.

The tank is made from tough, corrosion-resistant HDPE. The optimum tank capacity of 70 gallon: computer studies of water usage patterns. A single GP 2010 is ideal for one, average single-fami can be used for up to two homes where codes allow and with consent of the factory. The GP 201 accommodate flows of 700 gallons per day.

The grinder pump is automatically activated and, because it runs infrequently and for very short annual electric energy consumption is typically that of a 40-watt light bulb.

E/One grinder pumps do not require preventive maintenance and boast an average of eight to 10 between service calls. If service is required, the unique, one-piece core eliminates the need for ir troubleshooting and servicing — the pump core can be quickly pulled out and replaced, meaning maintenance costs and inconvenience for the homeowner.

Units are available for indoor and outdoor installations. Outdoor units accommodate a wide range

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