A Pressure Sewer System (PSS) is a reliable and cost-effective system for storing and transferring domestic waste. A PSS follows the contour of the land, without destroying the landscape. They are easier to install when compared to conventional gravity sewer systems and much safer than septic systems. This translates to lower operating costs, lower collection cost and lower maintenance costs.

The Barnes PSS is a highly engineered system that consists of a small-buried tank with only a tank cover exposed above ground. The grinder pump inside the tank will grind all incoming sewage and pump the slurry in a small, pressurized plastic pipe that is shallowly buried under ground. The entire system is pressurized so the grinder pump can deliver the slurry directly to a treatment plant or to a lift station. PVC plastic pipes are normally used, resulting in substantial savings in pipe and installation costs. As a matter of fact, savings of 50-70% can be achieved when using PSS over the traditional gravity sewer systems. Some advantages of using Pressure Sewer Systems:

- They can be used anywhere, irrespective of the topography of the land.
- They are environmentally friendly as there is zero leakage to the environment.
- Installation is relatively unobtrusive, maintaining the integrity of the landscape.
- They can be used in areas of high water table.
- Wastewater Treatment plants can be located in undesirable locations, leaving prime land available for development.
Reliable performance with reduced operation and maintenance costs.

Tremendous savings in material and labor costs.

Example: Peter's Township has over 800 installed units of the Barnes PSS. 55% capital cost savings were realized over gravity sewer systems. The mean time between service calls is over 10 years. It costs less than $7.00 a year in maintenance costs per station.

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Pressure Sewer Abstract
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The benefits do not stop there. Since there is no infiltration in a PSS, the treatment plant can be designed to treat domestic waste only, without allowing for excess capacity from infiltration. This reduces the size and cost of the plant resulting.

The flexibility of the PSS is also a major advantage to the engineers and developers. If properly planned, the PSS can be expanded by up to 50% of its original design capacity at half of a conventional gravity sewer system cost. This results in maximum design flexibility for future growth while minimizing project cost.

Although PSS have been mainly used in the United States in the past, they have started gaining popularity worldwide. If you look around, you are likely to find a PSS around golf courses, tourist resorts, new developments, old developments, virtually anywhere.

The Barnes PSS provides a safe, cost-effective, highly engineered system that delivers benefits to the homeowner, designer, developer and operator.

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