

## SRX LP Landfill Pump (TR-970 & TR-971) Narrative Specifications

- The pump shall be bottom loading with a removable screen assembly that incorporates a domed bottom.
- The screen shall be properly supported to prevent damage during installation.
- The screen/dome assembly shall be secured by a single bolt for easy maintenance.
- The pump shall be submersible and air-driven. Designed specifically for pumping leachate and gas condensate liquids.
- All of the pump components shall be rated for operation in temperatures up to 250 °F.
- No external level logic bubbler type circuits or level sensors shall be required to activate the pump and maintain liquid levels.
- The pump will automatically cycle using an internal float to activate the pump and maintain specific liquid level within the well.
- The float will be made of a cast, closed-cell Ebonite that is rated for use in temperatures of up to 250 °F and pressures of up to 250 PSI.
- The exterior of the float shall be non-porous to resist fouling.
- The float and control rod shall be able to be separated and removed from the pump assembly for routine maintenance without tools.
- The pump shall use a magnet-assist for positive air valve operation.
- The magnets will be a rare-earth SH grade, rated for temperatures up to 250 °F and will not lose the magnetic latching attraction.
- The magnets will be secured by an O-ring sealed, water-proof plate that isolates the magnet from any liquid contact.
- The air and exhaust valves will be completely accessible from the top of the pump head and without disassembly of the pump body.
- The air valve shall include a 330-mesh filtration screen to prevent particulates from entering the air valve assembly when air pressure is not supplied to the pump.
- The air supply valve shall consist of a Viton® check ball and a stainless steel seat to provide a leak-tight seal.
- The air valve assembly will be completely serviceable in the field.
- The fluid discharge check ball will consist of Nylon® and be field serviceable.
- Only one wrench shall be required for complete field disassembly of the pump. No special tools such as spanner wrenches will be required to perform any maintenance or disassembly of the pump.
- Re-assembly shall not require special tool or adjustments.
- Pump components shall be stainless steel, Viton®, Nylon®, Ebonite, Buna-N® and Hydlar®.

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