

PRODUCT CODE: TR-970 / TR-971

SRX LP Landfill Pump



Landfill Pumps for Leachate Pumping and Gas Condensate Pumping in Landfills.

BENEFITS

- More Uptime
- Reliable
- Simple Routine Maintenance
- Competitive Price
- Few Parts - Low Inventory
- Easy Replacement for Existing Pump
- Lightweight

APPLICATIONS:

The SRX LP is an air-powered pump used to extract leachate or gas condensate at variable rates equal to the well recharge rate. Pump flow rates are up to 35 l/min and operating temperatures up to 120 °C.

KEY DESIGN FEATURES

- Advanced, positive-sealing air valves with built-in filtration
- Tolerance for high temperatures (120 °C)
- Complete disassembly with only one spanner
- All Stainless-steel body
- Domes bottom to prevent hang-ups during installation
- Durable Ebonite float

OPERATION:

The SRX LP is installed to the desired drawdown level.

It requires only three lines: air supply, air exhaust and fluid discharge. As liquid fills the pump, an internal float rises and opens the air inlet valve. As air enters the pump it closes the bottom inlet check valve and fluid is expelled from the pump. The float falls and as it nears its rest (or empty) position, closes the air inlet valve.

Liquid can now enter the bottom inlet valve again. As the pump fills under the fluid's own static pressure, air is vented through the exhaust port and the cycle is automatically repeated based on the well recharge rate.

Air Valve Design

The advanced air valve design provides a leak-tight seal. This is accomplished with a special Viton® ball on a stainless steel seat. The positive seal eliminates air leakage that can increase the formation of precipitates at the pump head. Assisted by an isolated magnet, the valve shifts positively, — every time. This prevents stalling even in slow-filling situations. No adjustments are necessary with this valve assembly.

Air Valve Filtration

The air valve incorporates 330-mesh stainless steel screens to prevent debris from entering

the ball/seat sealing assembly, possibly causing the valve to malfunction.

On other pumps, when the air supply to the pump is turned off, the float will activate the air valve and create a pathway through which debris may enter the air valve and interfere with the proper seating of the ball. This is not a concern with the SRX LP pump.

Easy Access

To make routine maintenance easier, the air and exhaust valves on the SRX LP can be accessed from the top of the pump without disassembling the body. In addition, the internal valve

assemblies can be accessed by removing the hose barbs.

Lightweight Control Rod

The lightweight control rod is a primary reason why the SRX LP does not stall. Less weight translates into less force to open the air valve. This ensures a quick, positive opening every time. The control rod is isolated from the energy that is created by the float movement, therefore eliminating any stress on the rod.

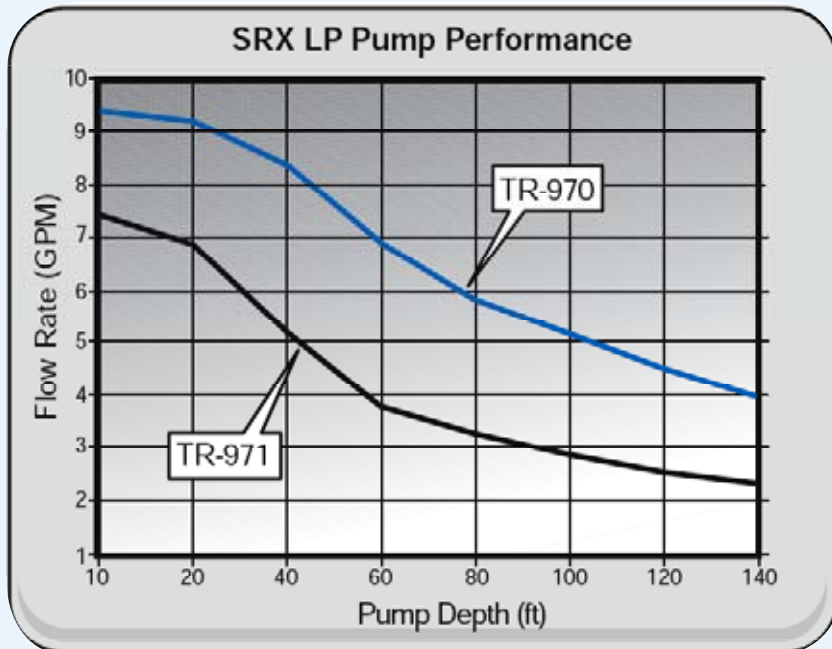
Pump Disassembly

The SRX LP pump is designed to be completely disassembled with just one wrench. Remove

three bolts from the bottom assembly, slide the body off and remove two cotter pins to fully disassemble the pump. Simple!

Screen Inlet

The inlet screen assembly incorporates a domed bottom to better guide the pump during installation. To protect the screen from collapse, the screen assembly is supported by the arch at the bottom of the pump. For cleaning, the screen is easily removed by unthreading a single bolt.



Flow rates will be affected by the head above the pump

COMPARE

	SRX-LP	SRX-LPS (Short)
Model no.	TR-970	TR-971
Pump OD:	87.5 mm	87.5 mm
Pump length:	970mm	825mm
Volume per Cycle	1.5 L	0.75 L
Min. Submergence	727.5mm	577.5mm
Pump weight:	7.7 Kg	7.5Kg
Max Flow rate:	35 l/min	27.75 l/min
Air valve filtration:	Yes	Yes

Volume per pump cycle will vary slightly depending on air pressure supplied to pump, depth of well, etc.

Maximum flow rates can vary due to air pressure supplied to pump, depth of well, etc.

PUMP CONSTRUCTION

Stainless steel, Type 304:	Pump body, discharge tube
Stainless steel, Type 303:	Pump head, bottom intake valve, assembly control rod, control linkage assembly
Stainless steel, Type 316:	Hose and tubing barbs
Hydlar (Nylon/Kevlar® composite):	Control rod bushing
Nylon®:	Discharge check valve ball
Buna-N®:	Intake check valve ball
Viton®:	O-ring seals, air inlet ball valve
Ebonite (expanded Buna-N®):	Float
Neodymium Iron:	High temperature magnets (250 °F)