

GeoPump

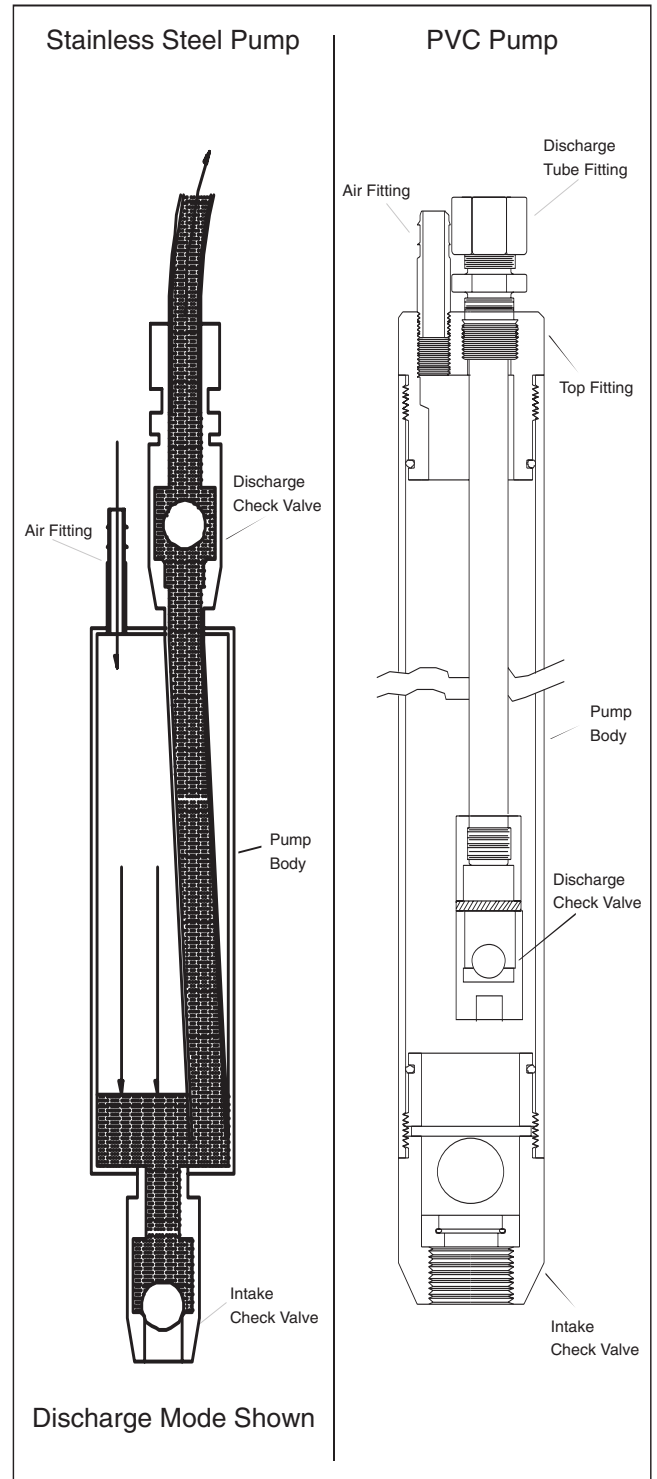
Ground Water Pumping Solutions

STAINLESS STEEL / PVC GAS-DRIVE PUMPS

Constructed from Type 316 Stainless Steel or PVC, GEOPUMP Gas Drive Pumps are ideal for ground water remediation pumping. With the inherent safety of fully pneumatic operation, these pumps may be used in ignition-prone situations without expensive, explosion-proofing modification. With only two moving parts, these pumps are designed to survive sand, dry pumping and dirty air, cycle after cycle, and year after year.

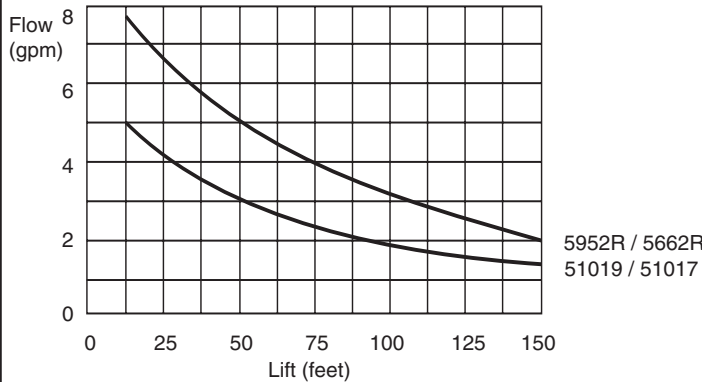
GEOPUMP Gas Drive Pumps operate on a cyclic principle, with the duration of the discharge and refill cycles determined by a cycle controller. When a compressed air charge is delivered to the pump, it causes the lower (intake) check ball to seat, simultaneously forcing fluid through the discharge check valve and into the discharge tubing assembly. When the compressed air charge is removed, pressurized air vents from the pump, through the air tube, allowing the pump to refill.

- Pump diameter of 2.88" (73 mm) to permit installation in 3" (76 mm) and larger wells.
- Capable of lifting from 300 feet (90 meters) without modification.
- Pumping rates up to 7 gpm (26 lpm) @ 20 ft. (6 m) for Models 5952R/5662R and 4.5 gpm (17 lpm) @ 20 ft. (6m) for models 51019/51017.
- Threaded intake (1/2" female pipe thread S.S. - 3/4" PVC) for use with intake filter screen or drop tube probe.
- Capable of pumping dry, or passing up to a 30% sand slurry without damage.



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FLOW PERFORMANCE CURVES



Notes:

1. Flow based on air pressure of 100psi, air displacement rate of 3.5 cfm, and 10 feet of submergence.
2. Pumps utilize discharge tubing measuring 3/4" O.D. x 5/8" I.D., and air tubing measuring 1/2" O.D. x 3/8" I.D.
3. Flow at any depth based on specific tubing length and free discharge to atmosphere.
4. Flow of any models used in multiple pump, single controller systems will be reduced. Consult the factory for specifics.

DESIGN SPECIFICATIONS

MODEL	MATERIAL	D (in./mm.)	L (in./cm.)	WEIGHT (lbs./kg.)	CAPACITY (gal./L.)
51019	S.S./Teflon	2.88/73	32/80	7.5/3.9	0.50/1.9
5952R	S.S./Teflon	2.88/73	56/140	13.5/6.1	1.00/3.8
51017	PVC	2.88/73	33/83	3.5/1.6	0.50/1.9
5662R	PVC	2.88/73	60/150	6.0/2.7	1.00/3.8

ENGINEERING SPECIFICATIONS

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| <ol style="list-style-type: none"> 1. The pumps shall have a major diameter of 2.88" (73 mm) to permit installation into 3 inch (76 mm) and larger wells. 2. The pumps shall be constructed of Type 316 Stainless Steel and Teflon[®]; or NSF-PW rated PVC and Teflon, and include Viton[®] O-ring seals. 3. The pump shall utilize Teflon[®] intake and discharge check balls. 4. The pump shall utilize a twin tubing design, such that it has separate air delivery and water discharge ports. 5. The pump shall be a positive displacement gas-drive pump, whereby a compressed air charge displaces the water contained within the interior of the pump, forcing it up through the discharge tubing. | <ol style="list-style-type: none"> 6. The pump shall be capable of pumping dry without damage. It shall also be capable of pumping sand, silt, etc., without damage. 7. The pump shall be capable of lifting from 300 feet (90 m), with the application of 150 psi (10 bars) air pressure, without modification. 8. The pump shall have a threaded intake (1/2" female pipe thread S.S. - 3/4" PVC) to permit use of an intake filter screen or drop tube probe. |
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Note: Teflon is a registered trademark of E.I. duPont.

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