

GeoPump

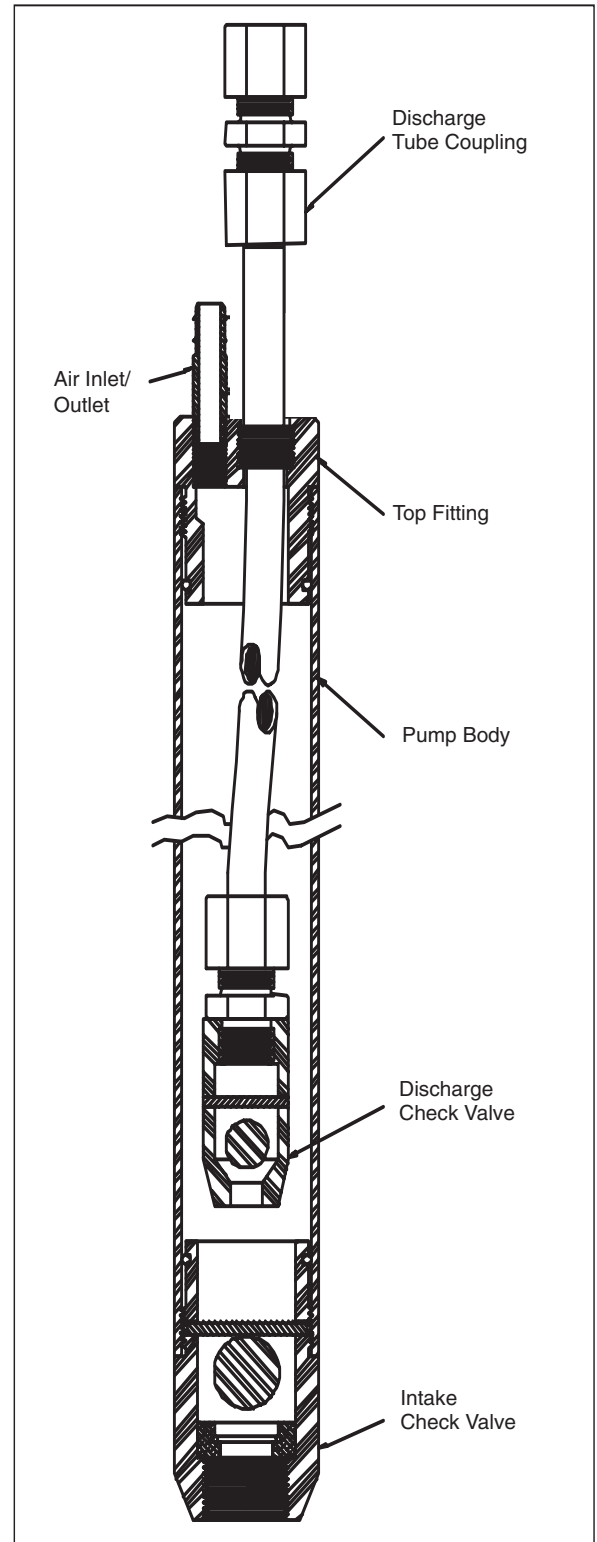
Ground Water Pumping Solutions

2" GAS-DRIVE PUMPS

Constructed of Stainless Steel and Teflon[®], NSF rated PVC, or all Teflon[®] materials, GEOPUMP 2" 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, the pumps are designed to survive sand, dry pumping and dirty air, cycle after cycle, and year after year.

GEOPUMP 2" 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.

- Available in 7 models, in diameters from 1.38" (35 mm) to 1.90" (48 mm), to permit installation into 2 inch and larger wells.
- Rugged, heavy gauge, threaded construction, employing Viton[®] O-ring seals, enables rapid disassembly, without tools.
- Capable of lifting from 300 feet (90 meters) without modification, with the application of 125 psi (10 bar) air pressure.
- Self cleaning, Teflon[®] intake and discharge check balls long term reliability.
- Threaded intake (3/4" female pipe thread) for use with intake filter screen or drop tube extension.
- Capable of pumping dry without damage and will pump up to a 30% sand slurry.



• **GeoPump, Inc.** • 213 State Street • Medina, NY 14103 • www.geopump.com •
• Toll Free 877-Geo-Pump • 585-798-6666 Outside USA • 585-798-0175 Fax •

2" GAS-DRIVE PUMPS

DESIGN SPECIFICATIONS

MODEL	MATERIAL	D (in./mm.)	L (in./cm.)	WEIGHT (lbs./kg.)	CAPACITY (gal./L.)
51001	S.S./Teflon	1.38/35	40/102	3.9/1.77	0.25/0.95
51005	S.S./Teflon	1.66/42	40/102	5.3/2.40	0.35/1.33
51007	S.S./Teflon	1.66/42	60/150	7.3/3.32	0.60/2.28
51009	PVC	1.66/42	40/102	1.7/0.77	0.25/0.95
51011	PVC	1.90/48	40/102	2.2/1.00	0.35/1.33
51013	PVC	1.90/48	60/150	3.1/1.41	0.60/2.28
51015	Teflon	1.75/45	40/102	4.5/2.05	0.25/0.95

ENGINEERING SPECIFICATIONS

1. The pump shall have a major diameter to permit installation into 2 inch (51 mm) and larger wells.
2. The pump shall utilize Teflon[®] intake and discharge check balls.
3. The pump shall utilize a twin tubing design, such that it has separate air delivery and water discharge ports.
4. The pump shall be of a threaded design, such that it may be disassembled without tools for cleaning and/or servicing. The threaded connections shall include Viton[®] O-ring seals.
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 to the top of the well casing.
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 (3/4" female pipe thread) to permit use of an intake filter screen or drop tube probe.
9. Select material option:
 - a. Pump Models 51009, 51011, and 51013 shall be constructed of NSF rated PVC.
 - b. Models 51001, 51005, and 51007 shall be constructed of Type 316 Stainless Steel and Teflon.
 - c. Model 51015 shall be constructed of Teflon[®].

Note: Teflon & Viton are registered trademarks of E.I. duPont.

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