

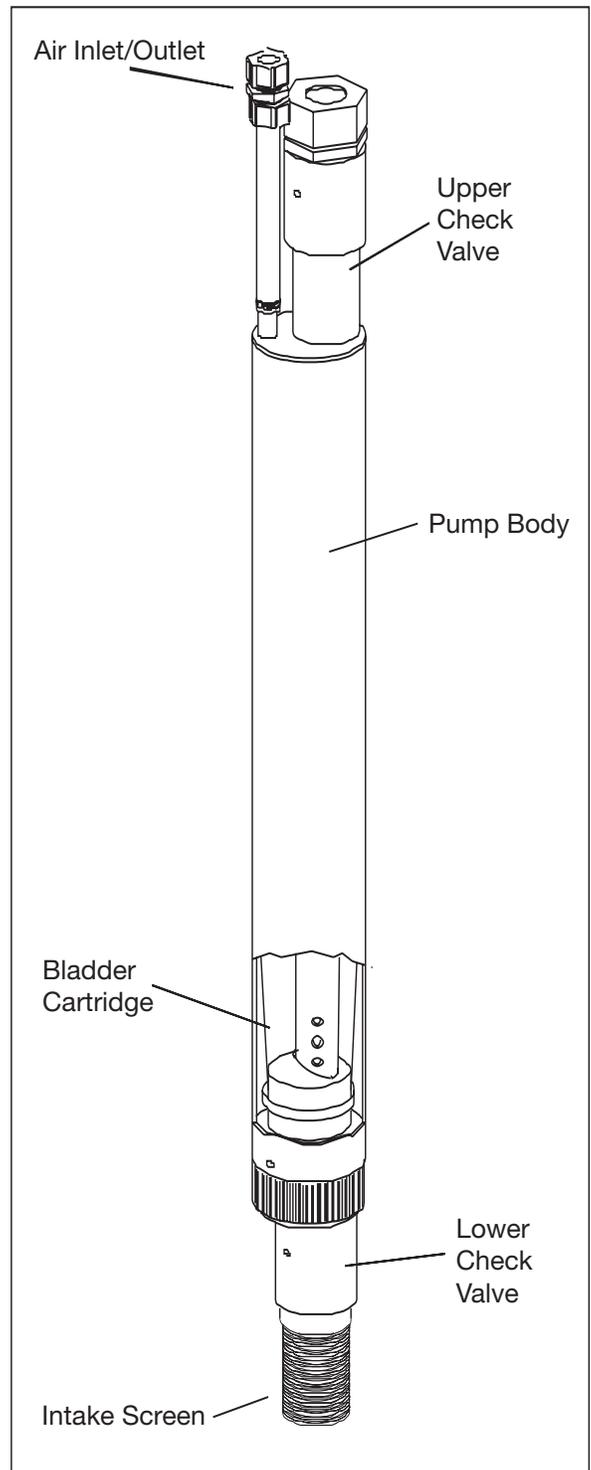
# GeoPump

Ground Water Pumping Solutions

## 57000 SERIES BLADDER PUMPS

GeoPump dedicated bladder pumps meet rigid U.S. EPA requirements for ground water monitoring, while offering the highest flow rates of any bladder pump of equivalent size. This enhanced performance results from an offset center tube and check valves which produce a straight water path. The larger bore and unrestricted flow path combine to produce higher flow rates for purging and low, consistent flows for sampling.

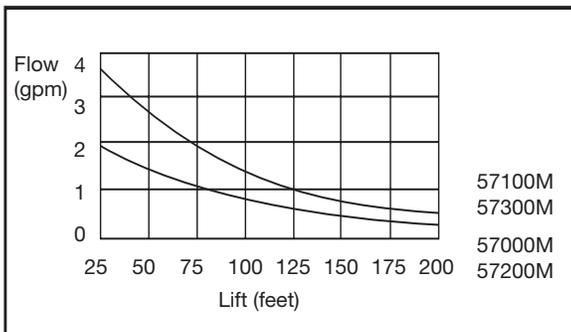
- Pump diameters for 2" (51 mm) and larger wells.
- Pumping rates up to 3 gpm (11.3 lpm) @ 45 ft. (13.7 m) in a 2" (51 mm) well...large air and water porting enables faster pump/fill cycles; larger bladder than conventional bladder pumps permits more volume pumped per cycle. Flow rate can be reduced to less than 100 ml/min., as is recommended by the U.S EPA for sampling.
- EPA recommended materials including NSF rated PVC and Teflon®, or Type 316 Stainless Steel and Teflon®.
- Large water discharge porting reduces pressure gradients between the bladder and discharge tubing, lessening the potential for orifice outgassing that can compromise dissolved gas and VOC samples.
- Factory sealed, field replaceable, Teflon® bladder cartridges install without tools. Lifetime guarantee (When permanently installed).
- Withstands dry pumping.
- Easy installation by one person.
- Threaded pump intakes permit the use of intake drop tube extensions, booster pump applications, and other unique configurations.
- Type 316 Stainless Steel, .010 inch intake screens help protect bladders from sand.
- Contaminant free certification - all pumps are cleaned, lab tested and individually sealed in polyethylene bags.



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

# 57000 SERIES BLADDER PUMPS

## FLOW PERFORMANCE CURVES



### Notes:

1. Flow based on air operating pressure of 125 psi, air displacement rate of 3.5 scfm, and 15 feet of submergence.
2. Pumps utilize thermally bonded twin tubing having an air tube of 1/4" I.D. and a water discharge tube of 1/2" I.D.
3. Flow at any depth based on specific tubing length and free discharge to atmosphere.

## DESIGN SPECIFICATIONS

MODEL	MATERIAL	O.D. (in./mm.)	L (in./cm.)	WEIGHT (lbs./kg.)	CAPACITY (gal./L.)
*57000M	S.S./Teflon	1.66/42	44/112	4.6/2.09	0.14/0.55
57100M	S.S./Teflon	1.66/42	80/204	8.4/3.81	0.29/1.1
*57200M	PVC/Teflon	1.90/48	44/112	3.6/1.64	0.14/0.55
57300M	PVC/Teflon	1.90/48	80/204	6.3/2.86	0.29/1.1

\*Models 57000M and 57200M available for use with 3/8" I.D. water discharge tubing. Flow will be slightly less than shown on curve. Specify as Model 57000 or 57200.

## ENGINEERING SPECIFICATIONS

1. Pump Models 57000M/57100M shall have an O.D. of 1.66 inches (42 mm), with Models 57200M/57300M having an O.D. of 1.90 inches (48 mm), to permit use in 2" (51 mm) or larger wells.
2. The pump shall be a positive displacement bladder squeeze pump, whereby the drive air does not contact the sample.
3. The pump shall permit water to enter the interior of the bladder through a bottom check valve and air to enter the annulus between the pump body and bladder through an upper air inlet/outlet.
4. The pump shall not fill by suction assist or place a negative pressure on the sample.
5. The pump shall have a minimum 1/2" water discharge port, without restrictions, to eliminate dissolved gas loss due to orifice effects during sampling.
6. Models 57000M/57100M shall be constructed from electropolished, Type 316 Stainless Steel and Teflon<sup>®</sup>. Models 57200M/57300M shall be constructed from NSF rated PVC and Teflon<sup>®</sup>.
7. All internal pump components shall be of Teflon<sup>®</sup>.
8. The pump shall employ a field replaceable, Teflon, factory sealed and tested bladder cartridge, to be installed without tools.
9. The pump shall withstand continuous operation at 200 psi (14 bars) without modification.
10. The pump shall be capable of lifting from 450 feet (135 m) without modification.
11. The pump shall be capable of dry pumping without damage.
12. The pump shall be equipped with a threaded intake to permit the use of a drop tube extension, booster pumps, and factory equipped, Type 316 Stainless Steel, .010" intake screen.

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