

## MONOFLEX ISOMEGA® BLADDER PUMP SYSTEM

### ISOMEGA® BLADDER PUMP OPERATION

Monoflex Isomega® Bladder Pumps are designed for long term efficient use. These pumps include Viton® O-rings in all flush threaded body joints ensuring leak free seals while permitting easy disassembly for decontamination. A ball check valve is used in the sample discharge fitting to prevent the pumped sample from re-entering the pump chamber. Another ball check is located at the bottom of the sample chamber to prevent the captured sample from re-entering the well while the pump is pressurized.

Monoflex Isomega® Bladder Pumps are available in PVC, grades 304 or 316 Stainless Steel and Teflon®. Optional Electropolishing is available for Stainless Steel pumps. Stainless Steel pumps with 316 material are available as a special order. All Stainless Steel pumps are supplied with a .020 slot wire-wrapped inlet screen.

Please see the following page for an example of the components used in a Monoflex Isomega® Bladder Pump system. All of the items shown are available from Monoflex.

### Monoflex Isomega® Bladder Pump Specifications and Performance Chart

Monoflex Isomega® Bladder Pump Specifications					Estimated Gallons Per Minute at Various Pump Cycles Per Minute (CPM)					
Pump Outside Diameter	Pump Total Length	Pump Body Material	Chamber Length	Chamber Capacity	4 CPM	6 CPM	8 CPM	10 CPM	12 CPM	14 CPM
1.660 (42.16mm)	52" (132cm)	PVC	30" (76.2cm)	.109 gal (413 ml)	.436 gpm 1.65 l/min	.654 gpm 2.48 l/min	.872 gpm 3.30 l/min	1.09 gpm 4.13 l/min	1.31 gpm 4.96 l/min	1.53 gpm 5.79 l/min
1.660 (42.16mm)	45" (114cm)	304 Stainless Steel	30" (76.2cm)	.133 gal (504 ml)	.532 gpm 2.01 l/min	.798 gpm 3.02 l/min	1.06 gpm 4.01 l/min	1.33 gpm 5.04 l/min	1.60 gpm 6.06 l/min	1.86 gpm 7.04 l/min
1.660 (42.16mm)	45" (114cm)	Teflon®	30" (76.2cm)	.117 gal (443 ml)	.468 gpm 1.77 l/min	.702 gpm 2.66 l/min	.936 gpm 3.54 l/min	1.17 gpm 4.43 l/min	1.40 gpm 5.30 l/min	1.64 gpm 6.21 l/min

**Note:** Tubing sizes for all Monoflex Pneumatic Pumps are

Air Supply - 1/4" O.D.    Sample Recovery - 1/2" O.D.

Other sizes are available, consult factory for pricing and availability

**Note:** Other pump lengths are available, consult factory for pricing and availability.