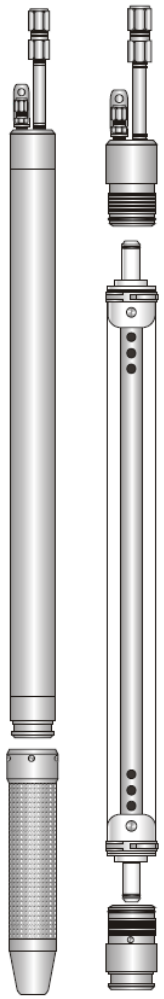
Low Flow Pump (Bladder)



Qteq's Low-Flow Pumps are used to capture groundwater samples from aquifers and is available in a range of sizes and metallurgies. The pumps can also be configured for use in deep aquifer wells, narrow or obstructed casing, and to extract water samples from aquifers with low hydraulic conductivity (low permeability). Field proven pump designs and high-performance PTFE bladders result in long term reliability critical for dedicated permanent installations.

Bladder pumps, accepted by CSG industry regulators as a low-flow sampling method, have been shown to obtain representative water samples. This is achieved by pumping directly from the aquifer whilst leaving the stagnant water column in the borehole undisturbed. This requires pumping at a rate close to or less than the natural movement of groundwater flow through the borehole. This low-flow methodology is superior to the traditional approach of removing the stagnant water prior to collecting a sample.

Qteq's Low-Flow Pump designs have been refinements to improve installation safety and simplify operation to comply with CSG industry standards, and to extend their operation envelopes.

Features and Benefits

- No moving parts.
- Non-contaminating materials.
- Simple construction.
- Less operator variability, greater operator control.
- Field serviceable.
- Versatile configurations for wide range of applications.
- Minimal wellbore fluid disturbance to maximise sample quality.
- Reduced need for filtration and therefore less time required to obtain samples.
- Smaller purging volume which decreases waste disposal costs and sampling time.

Specifications

Length	1,244 mm
OD	1.75”
Weight	4.5 kg
Metallurgy	316SS
Bladder	Teflon
Seals	Viton
Maximum Lift Depth	304.8 m
Pump Stroke Volume	395 ml