

Low Flow piezometer sampling



D-13

SS-13

D-13



SS-13



The **Waterra Low Flow System** is designed to be used in small diameter piezometers (usually 1.5" ID to 0.75" ID). It can provide flow rates of up to 1/2 gallon per minute and can lift water from up to 100 feet.

This system consists of either the acetal plastic **D-13 foot valve** or the stainless steel **SS-13 foot valve** and **HDPE, LDPE or FEP (Teflon) tubing**.

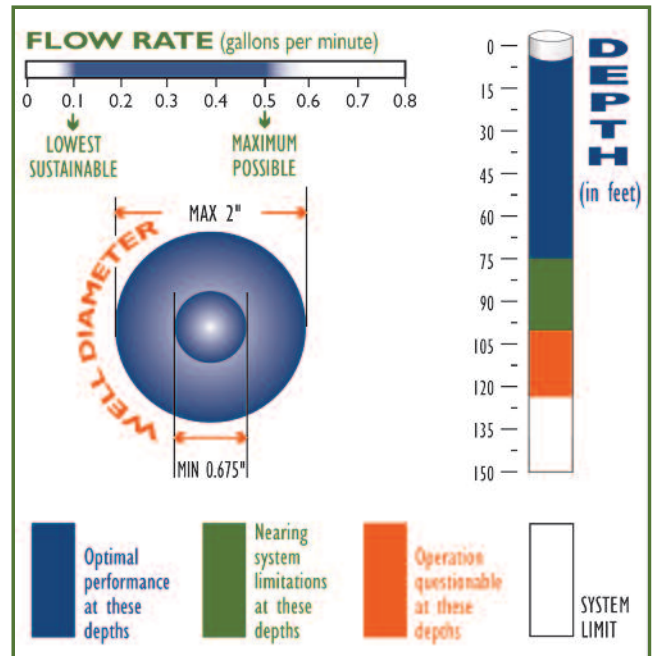
The D-13 and SS-13 valves have a male thread which allows them to have a maximum outside diameter of 1/2" (13mm). This narrow diameter means that they will often fit into piezometers that cannot be accessed by the Standard Flow System.

DAMAGED WELLS

The **Low Flow System** is also useful for sampling in damaged or obstructed monitoring wells and for sampling in small diameter monitoring wells with low

head levels or poor recharge. The smaller diameter tubing used in the Low Flow System and lower flow rate produced by this system means that the pump itself contains a smaller volume of water when full, leaving more water in the piezome-

ter available for pumping and ultimately sampling. A pump with a larger storage volume or higher flow rate could potentially purge the well dry or dis-



LOW FLOW PERFORMANCE CHART

place all of the standing water in the well into the pump's tubing and still not have delivered any of it all the way to the surface.

RECOMMENDED DEVICES

The **Low Flow System** is probably most frequently operated by hand, although the **Waterra Hydrolift-2** and the **Waterra Lever Pump (WLP 100)** can also be used to operate this system.



LEVER PUMP



HYDROLIFT-2