



Christopher W. Cotner, Executive Director
P.O. Box 8304
Edmond, OK 73083-8304
Telephone: 405-694-5214
chris@water4.org

WATER4 FOUNDATION “ACCESS 1.2” HAND PUMP

Water4 Foundation is the distributor of a low cost PVC based hand pump for application in rural areas in the developing world. The “Access 1.2” is substantially constructed with standard PVC parts. The only non-PVC parts are the bronze check valve and the nylon bushing. The nylon bushing separates the upper and lower chamber of the inside of the Access 1.2.

The actuating rod of the pump is also the pipe that brings the water to the surface and operates like a plunger. Once the actuating rod is pulled up, the water in the well quickly invades the lower chamber of the pump by virtue of the bottom PVC flapper valve. As the actuating rod is pushed down, the “plunger” invades the lower chamber, at which time the nylon bushing runs “interference” by keeping the water from moving to the upper chamber. This interference forces the water through the brass check valve and up the actuating rod to the surface, then out of the spout located on the T-handle direct drive system. This system can be adapted with a leverage handle where needed.

The Access 1.2 could be sourced and manufactured in just about any country in the world. It has been tested up to 3 million strokes without failure and has been deployed in several areas, including Zambia, Ecuador, Honduras, Sudan, and Mozambique.