

TECHNOLOGIES DEMONSTRATED AT ECHO: PVC BALL CHECK HAND PUMPS

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Published 2003

AN ECHO CONCEPT PAPER

DESCRIPTION

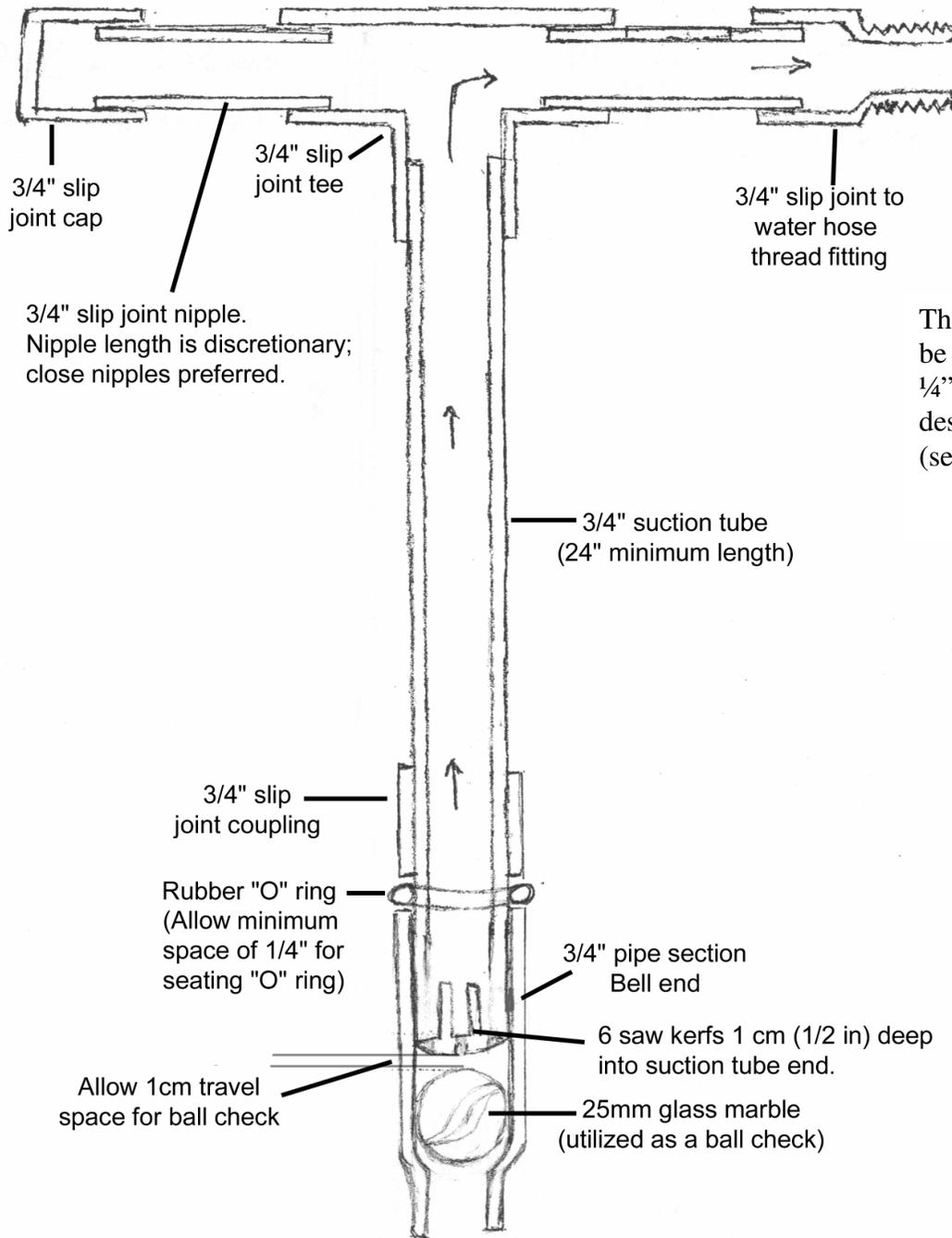
The pumps described in the following pages are made out of PVC, also known as polyvinyl chloride. The material is relatively inexpensive and durable.

Many different designs exist for PVC hand pumps. In the following pages, we share some that have worked well at ECHO. This design, illustrated in Figures 3 and 4, uses a glass marble as a ball check.

BALL CHECK HAND PUMP

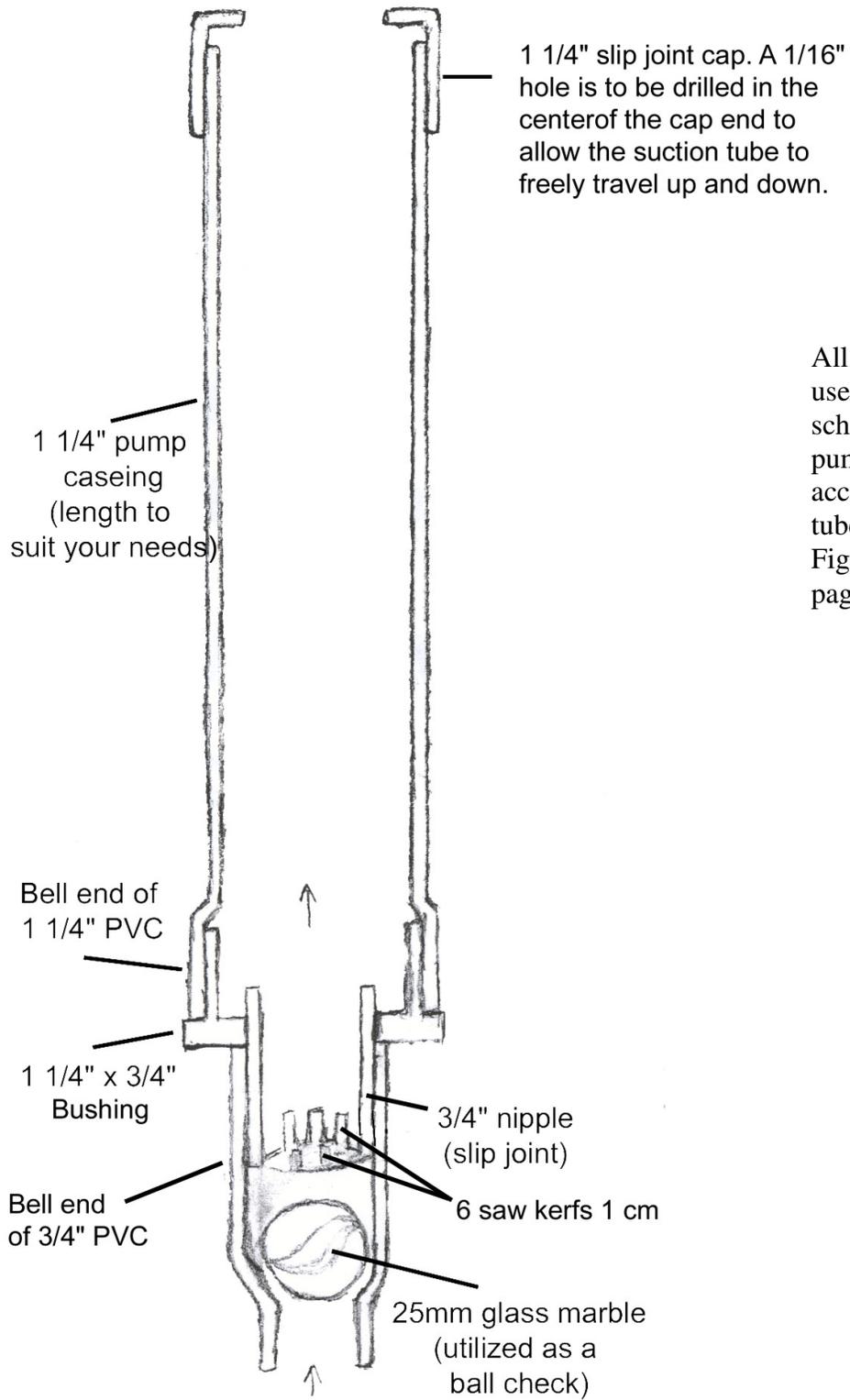
Charlie Forst

Figure 3. Suction Tube



The suction tube will be inserted into the 1 1/4" pump casing described in Figure 4 (see next page).

Figure 4. Pump Casing



All material that is used should be PVC schedule 40. This pump casing will accept the suction tube described in Figure 3 (see previous page).