

## **The Bamford "Hi-Ram Pump ®"**

### **Installation and Drive Pipe Construction**

#### **Addendum No. 1 - Adjustment Tubes**

Three stainless steel tubes are supplied to give six alternative adjustment positions. They provide a suitable range of adjustment for most installations.

One of the characteristics of the pump is that it needs to have sufficient back pressure against the non-return outlet valve (from the water in the Delivery Pipe). This gives the pump an operating cycle of about 1 second, with the adjustment tube going up and down a distance of about 35 mm.

If there is not enough back pressure against the non-return outlet valve, the adjustment tube may only cycle up and down a few millimeters, or stop in its upper position with the waste valve closed. This situation can occur particularly with low outlet heads of 10 meters or less.

If this happens, the use of a heavier adjustment tube can help maintain a normal operating cycle. As the weight of the stainless steel tubes cannot be readily adjusted, three additional and longer plastic adjustment tubes are also included.

The plastic coupling and bolt supplied can be used to add weight by trial and error at the top of the plastic adjustment tubes. However, the minimum weight needed should be added, and the passage for water flow through the tube should be obstructed as little as possible.

Depending on your pump installation the plastic tubes provide more flexibility for pump adjustment, and may increase the life of the ball inside the waste valve. The plastic tube supplied is 25 mm Electrical Conduit.

Please note that air in the Drive Pipe, or a Delivery Pipe not full of water for all its length, can also cause the adjustment tube to stop in its upper position with the waste valve closed. The addition of extra weight to the adjustment tubes should not be used to overcome such things as these.

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