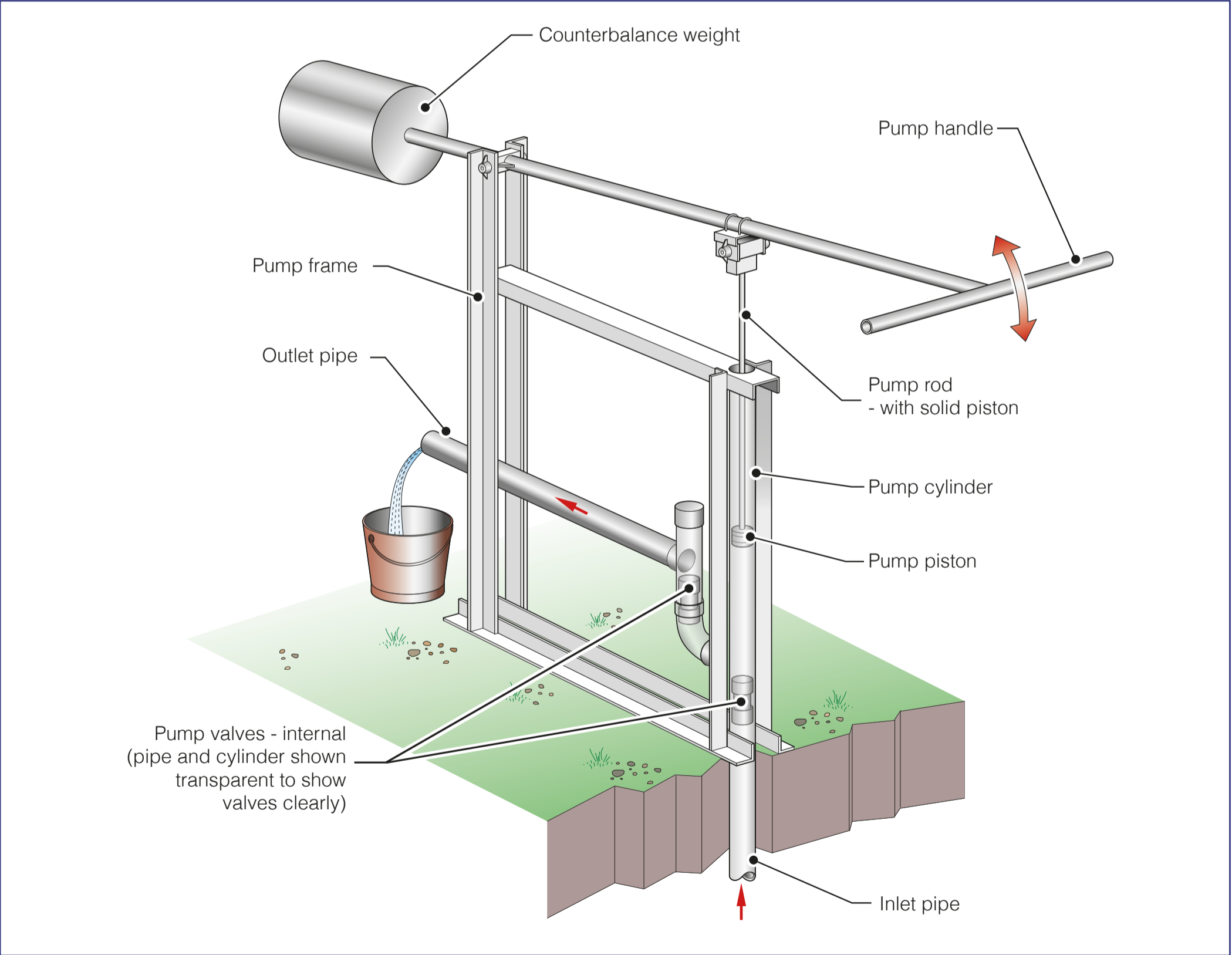


The Joma pump

Simple components such as those used in the Rower pump may provide benefits for use in other applications. The Joma pump as shown in the figure is a counterbalanced force type suction pump developed by Dabane Trust for use in conjunction with sand-abstraction systems. It is capable of drawing water from depths of 4 or 5 metres using atmospheric pressure and delivering water to a height of 6 to 8 metres. It has the advantage of being operated by two people simultaneously and uses simple Rower pump type valves and piston bodies. Sustained operating speeds of 30 strokes per minute have been measured and yields of 2.5 to 3.0m³ are regularly achieved.



Source: Hussey, S. W., 2007. *Water from Sand Rivers: guidelines for abstraction*. Loughborough UK: WEDC, Loughborough University