

FLOW REGULATOR FOR WATER PUMP

ABSTRACT

5 A flow regulator for a water pump, comprising a valve body, a left piston, a
right piston, a connecting rod, a spring, and a conduit. The valve body is roughly
shaped like a cross, having a passageway in a vertical direction and a left tube and a
right tube in a horizontal direction, respectively enclosing a left chamber and a right
chamber. The left and right pistons are glidingly movable inside the left and right
tubes, respectively, being connected by the connecting rod. The spring is inserted
between the right piston and a right cap on the right tube. The conduit is placed
10 inside a side wall of the left tube, transmitting water pressure from the passageway
to the left chamber. The control element is by water pressure pushed towards the
passageway, narrowing the passageway. This is countered by an elastic force of the
spring, so that controlled water flow and pressure are achieved.

Figure 2

