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**ABSTRACT**

In the present scenario of diminishing availability of water and human labor our project strive in its best possible way to satisfy the need. The Ball valve used in plumbing appliances i.e pipes to allow or alter the flow of fluids through it. Every time it requires human interaction in controlling the handle of valve. By automating the control of the valve reduce the human effort and wastage of water can be avoided. We used a stepper motor, with Arduino microcontroller to operate the valve without human interaction. By suitable alteration of program dumped to Arduino, the flow rate can also be controlled by bringing the handle to intermediate positon.

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