

ITS-Solar

The ITS Moto 15-3 and Moto 20-3 are 3 way motorised ball valves which are switched using a 220VAC signal, in a 15mm and 20mm thread configuration. The following document describes their operation, and the preferred connection method.



Figure 1: Front view of Moto 15-3

Water connections

When seen from beneath the different connections are numbered as shown in the figure below.

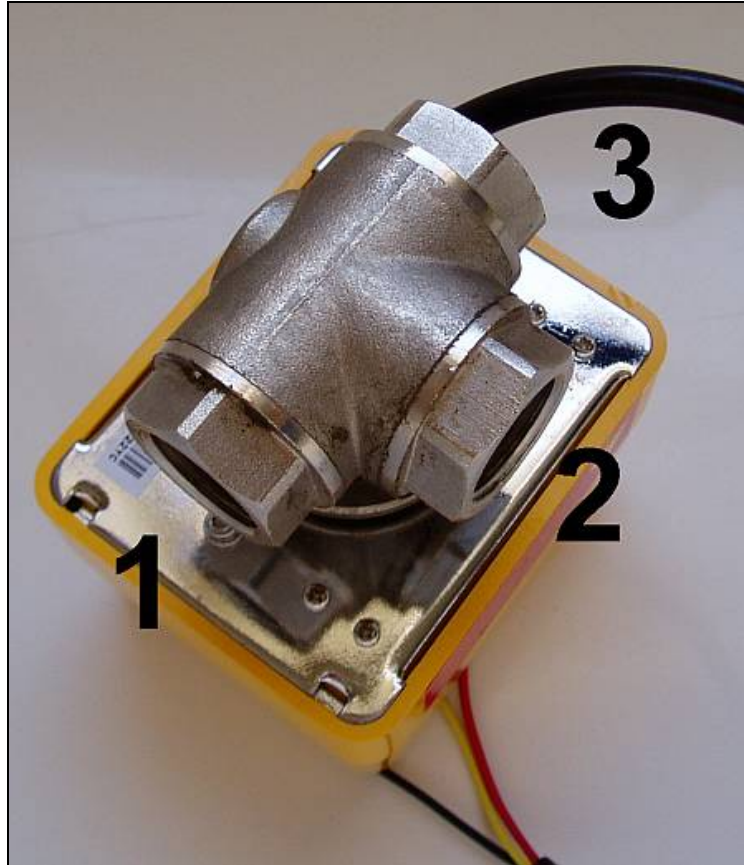


Figure 2: Bottom view of Moto 15-3

The common terminal is Port 1, and the default flow path should be between Port 1 and Port 3. With the alternate flow path between Port 1 and Port 2.

Electrical connections

There are 3 wires for controlling the ball valve, namely Black, Red and Yellow. Black is the neutral terminal and Red and Yellow control which water line is selected.

Water path	220 V AC applied
Port 1 and Port 3 (default)	Black and Red
Port 1 and Port 2	Black and Yellow

Controller connections

If the controller used for driving the ball valve has only got a 2 terminal output instead of a 3 terminal output then it is necessary to add an additional relay. It needs to be a Single Throw, Double Pole 220 VAC relay with a minimum of 1 Amp rating. The wiring diagram for this port extension is described below.

its

International
Technology
Sourcing

solar division

