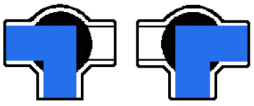
3 WAY BALL VALVE PORT CONFIGURATIONS for ACTUATION

When applying actuation to a 3 way ball valve, it is important to decide before hand upon which configuration will be required to accomplish the desired flow pattern of the valve. The following configurations are based upon using a 90° turn actuator.

There are two basic styles of 3 way ball valves, L port and T port.

The L port is a simple direction change. The flow can either come up from the bottom and go either right or left or can come from either the right or left and go out the bottom.

L Port
Flow plan A

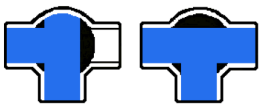


Pos 1 Pos 2

The T port offers more flexibility in flow patterns. The major difference between an L port and a T port is that you are able to have flow go across the top of the valve in the T port while the L port only offers a direction change.

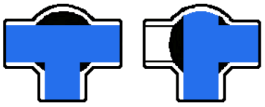
T Port

Flow plan B



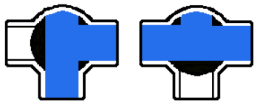
Pos 1 Pos 2

Flow plan C



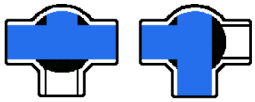
Pos 1 Pos 2

Flow plan D



Pos 1 Pos 2

Flow plan E



Pos 1 Pos 2

Once you know whether you require an L port or a T port, the next step is to determine the flow plan. The flow going through the valve may come from either direction ie: left to bottom or bottom to left etc. As the actuator will only be turning 90° , decide which flow plan will accomplish your end needs . The positions 1 & 2 of a given flow plan may be reversed to obtain the desired results.

An example of an order would be: 1 only 2” Full port ball valve with flow plan D, pos 2 turning to position 1 or: 1 only 2” Full port ball valve with flow plan D, pos 1 turning to position 2.