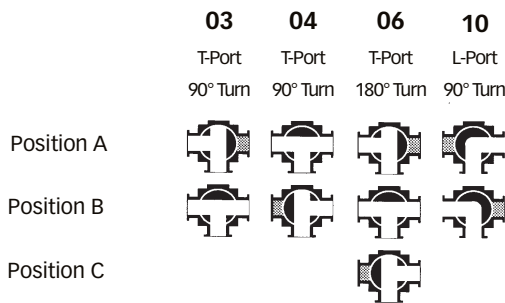


The diagrams show the top view as though you were looking down on the stem. White areas indicate the path available for process flow. Shaded areas indicate unused ports for given flow position.

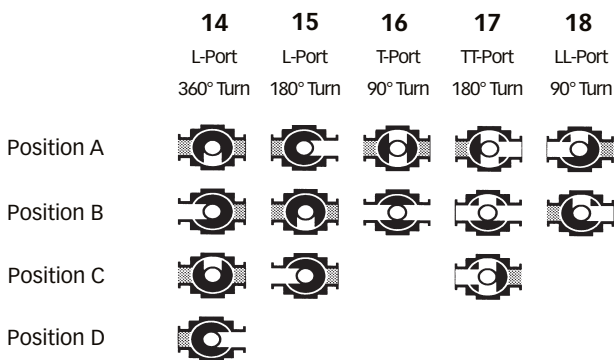
Diverter Port Patterns

By specifying a T-Port, Double T-Port (TT), Angle Port (L) or Double Angle Port (LL) Ball, different flow configurations are possible. For example, a DP valve with a T-Port Ball might be used to control flow to one or two simultaneous operations. The side entry Angle Port Ball and the bottom entry Double Angle Port Ball are ideal for connecting two relief valves to a system. The Double Angle Port Ball diverts flow from one outlet to another outlet 180° away, with only 90° stem rotation. This allows use of 90° double acting or spring return actuation, instead of 180°.

SIDE ENTRY



BOTTOM ENTRY

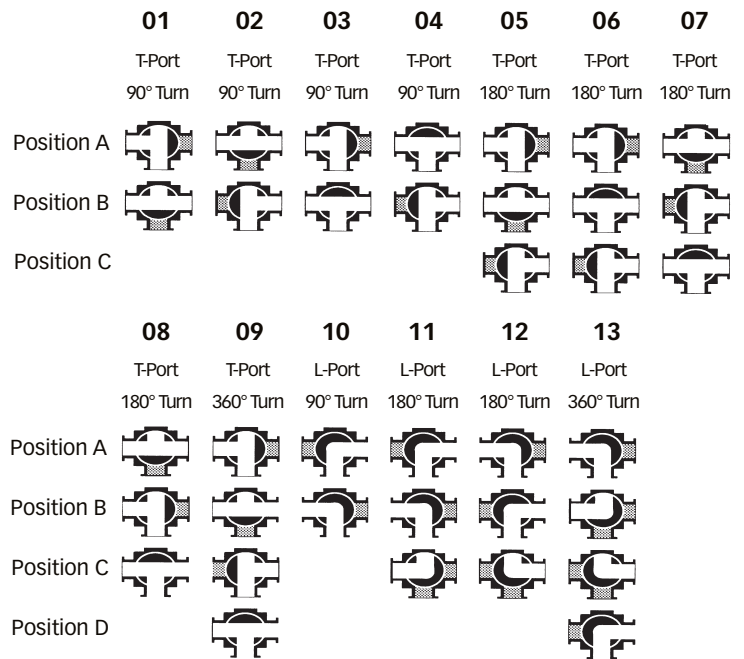


Fail position must be selected for spring return actuators only.

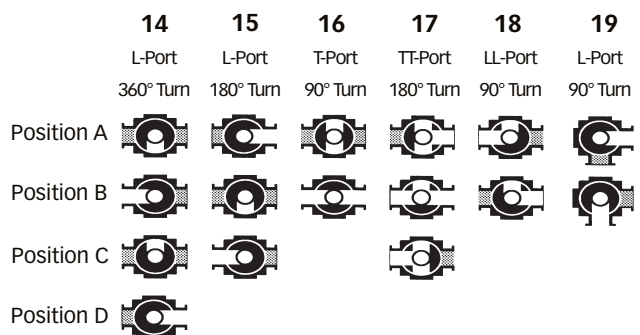
3-Way Multi-Port Patterns

3-way Multi-Ports are a popular choice in a variety of industries. A seal at every port distinguishes the 3-way MP/MI valve from diverting-type valves. In some applications, the 3-way MP/MI valve can take the place of two or three 2-way valves, with corresponding savings in piping and fittings. For applications requiring simultaneous process line changes, two 3-way MP/MI Series valves may be mounted in tandem and controlled with a single actuator or handle for greater control and additional savings. Additional flow patterns are possible by using manifolds of two or more valves.

SIDE ENTRY



BOTTOM ENTRY



4-way Multi-Ports are a true Multi-Port valve with seals at every port. This design makes the 4-way MP/MI Series ideal for flow switching operations. In some applications, this valve can replace as many as four ordinary 2-way valves, with corresponding savings in piping and fittings. The following illustrations show how different ball and port configurations create many flow patterns with a single 4-way Multi-Port.

4-Way Multi-Port Patterns

BOTTOM ENTRY

20 LL-Port 90° Turn	21 LL-Port 180° Turn	22 LL-Port 180° Turn	23 LL-Port 180° Turn	24 LL-Port 180° Turn	25 LL-Port 360° Turn	26 L-Port 360° Turn	27 T-Port 90° Turn
28 TT-Port 180° Turn	29 TT-Port 180° Turn	30 TT-Port 180° Turn	31 TT-Port 180° Turn	32 TT-Port 360° Turn	33 TT-Port 90° Turn	34 TT-Port 90° Turn	35 TT-Port 90° Turn
36 TT-Port 90° Turn							

4-Way Multi-Port Patterns

SIDE ENTRY

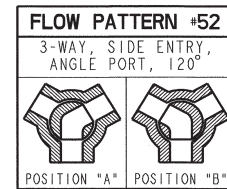
	37 LL-Port 90° Turn	38 L-Port 180° Turn	39 L-Port 360° Turn	40 T-Port 180° Turn	41 Straight Port 90° Turn	42 T-Port 90° Turn	43 T-Port 90° Turn
Position A							
Position B							
Position C							
Position D							

5-Way Multi-Port Patterns

5-way Multi-Ports are 5-seated to provide positive shut-off and flow control at each port. This design is not only versatile, but extremely economical. In some applications, this valve can replace as many as four ordinary 2-way valves, with corresponding savings in piping and fittings. The following illustrations show available flow patterns with a single 5-way Multi-Port valve.

BOTTOM ENTRY

	44 L-Port 360° Turn	45 LL-Port 180° Turn	46 T-Port 90° Turn	47 TT-Port 90° Turn	48 TT-Port 90° Turn	49 TT-Port 180° Turn	50 TT-Port 360° Turn	51 LL-Port 360° Turn
Position A								
Position B								
Position C								
Position D								



Fail position must be selected for spring return actuators only.