**BUTTERFLY VALVES**

**SHP Series Valves are Flow Direction Specific.**

**Actuators installed default over Primary Valve.**

**MIXING**

**M1x**      **M2x**      **M3x**
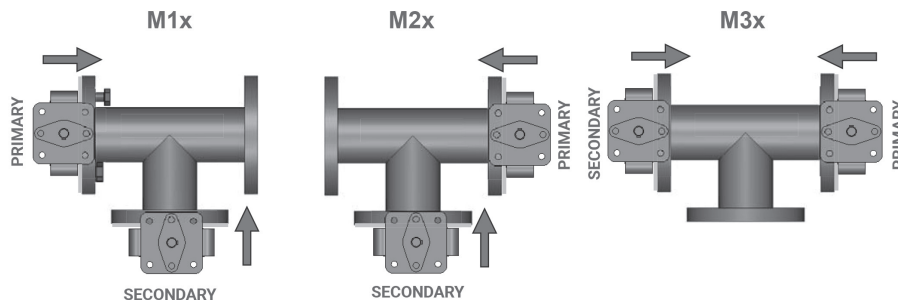
| CONFIG CODE | ON/OFF OR MOD@2VDC PRIMARY VALVE IS | PRIMARY VALVE @ FAIL |
|---|---|---|
| M10 | OPEN | FAIL IN PLACE |
| M11 | OPEN | OPEN |
| M12 | OPEN | CLOSED |
| M13 | CLOSED | FAIL IN PLACE |
| M14 | CLOSED | OPEN |
| M15 | CLOSED | CLOSED |

| CONFIG CODE | ON/OFF OR MOD@2VDC PRIMARY VALVE IS | PRIMARY VALVE @ FAIL |
|---|---|---|
| M20 | OPEN | FAIL IN PLACE |
| M21 | OPEN | OPEN |
| M22 | OPEN | CLOSED |
| M23 | CLOSED | FAIL IN PLACE |
| M24 | CLOSED | OPEN |
| M25 | CLOSED | CLOSED |

| CONFIG CODE | ON/OFF OR MOD@2VDC PRIMARY VALVE IS | PRIMARY VALVE @ FAIL |
|---|---|---|
| M30 | OPEN | FAIL IN PLACE |
| M31 | OPEN | OPEN |
| M32 | OPEN | CLOSED |
| M33 | CLOSED | FAIL IN PLACE |
| M34 | CLOSED | OPEN |
| M35 | CLOSED | CLOSED |

**Notes:**
1. Secondary Valve operates inversely of the Primary Valve.
2. The Primary Valve is always located on the run.
3. The Secondary Valve may also have an actuator if required (Direct Coupled).
4. On/Off actuator normal position is a function of field logic.
5. Modulating actuator normal position (i.e., fully CW or fully CCW) is set by the direction control switch or field programming via Belimo Assistant app.
6. All 3-way assemblies are designed for 90 degree actuator rotation.

**DIVERTING**

**D1x**      **D2x**      **D3x**
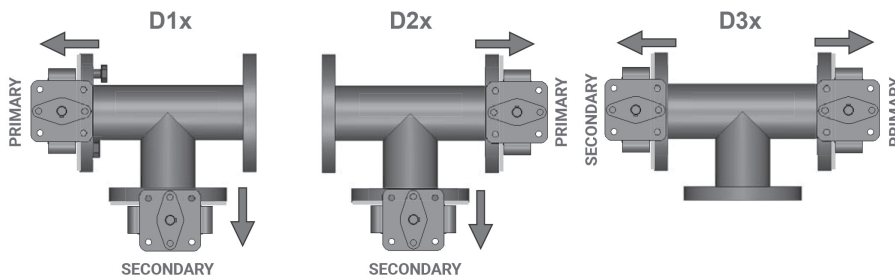
| CONFIG CODE | ON/OFF OR MOD@2VDC PRIMARY VALVE IS | PRIMARY VALVE @ FAIL |
|---|---|---|
| D10 | OPEN | FAIL IN PLACE |
| D11 | OPEN | OPEN |
| D12 | OPEN | CLOSED |
| D13 | CLOSED | FAIL IN PLACE |
| D14 | CLOSED | OPEN |
| D15 | CLOSED | CLOSED |

| CONFIG CODE | ON/OFF OR MOD@2VDC PRIMARY VALVE IS | PRIMARY VALVE @ FAIL |
|---|---|---|
| D20 | OPEN | FAIL IN PLACE |
| D21 | OPEN | OPEN |
| D22 | OPEN | CLOSED |
| D23 | CLOSED | FAIL IN PLACE |
| D24 | CLOSED | OPEN |
| D25 | CLOSED | CLOSED |

| CONFIG CODE | ON/OFF OR MOD@2VDC PRIMARY VALVE IS | PRIMARY VALVE @ FAIL |
|---|---|---|
| D30 | OPEN | FAIL IN PLACE |
| D31 | OPEN | OPEN |
| D32 | OPEN | CLOSED |
| D33 | CLOSED | FAIL IN PLACE |
| D34 | CLOSED | OPEN |
| D35 | CLOSED | CLOSED |

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2. The Primary Valve is always located on the run.
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4. On/Off actuator normal position is a function of field logic.
5. Modulating actuator normal position (i.e., fully CW or fully CCW) is set by the direction control switch, PC-Tool or field programming via Belimo Assistant app.
6. All 3-way assemblies are designed for 90 degree actuator rotation.