Flow Divider / Combiner Cartridge Valves

**Cartridge Type**

- Divider
- Divider / Combiner, Closed Center
- Synchronizing Divider / Combiner
- High Capacity Divider / Combiner, Closed Center

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Flow Divider / Combiner Valves

**DIVIDER**

- Maximum operating pressure = 5000 psi
- This valve is a divider only; any attempt to flow backwards through the valve is not advised.
- Divisional accuracy at maximum rated input flow = FSBD: ±2.5%, FSCD, FSDD, FSED, FSFD: ±3.5%
- Divisional accuracy at minimum rated input flow = FSBD: ±4.5%, FSCD, FSDD, FSED, FSFD: ±6.5%
- Pressure drop at maximum input flow = 250 psi
- Pressure drop at minimum input flow = 10 psi
- Below the minimum flow rating there is not enough flow for the valve to modulate. It is effectively a tee. If flow starts at zero and rises, there will be no dividing control until the flow reaches the minimum rating.

**OPTION ORDERING INFORMATION**

Model Codes printed in Red are Preferred Versions and most readily available

<table>
<thead>
<tr>
<th>Nominal Capacity</th>
<th>Control</th>
<th>Flow Proportion</th>
<th>Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>B 6-3 GPM</td>
<td>X</td>
<td>30/50 Flow Split</td>
<td>N Buna-N</td>
</tr>
<tr>
<td>C 1.5-8 GPM</td>
<td>A</td>
<td>40/60 Flow Split</td>
<td>V Viton</td>
</tr>
<tr>
<td>D 3-15 GPM</td>
<td>B</td>
<td>33/67 Flow Split</td>
<td></td>
</tr>
<tr>
<td>E 6-30 GPM</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F 12-60 GPM</td>
<td>*</td>
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</tbody>
</table>

* Port 4 is always high percentage flow.

Reverse Flow Path is unpredictable

*Divisional Accuracy = FSCD, FSDD, FSED and FSFD: ± 6.5% at minimum input flow
± 3.5% at maximum input flow
FSBD: ± 4.5% at minimum input flow
± 2.5% at maximum input flow

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Flow Divider / Combiner Valves

DIVIDER / COMBINER, CLOSED CENTER

Note: Closed center valves have spring centered internal spools that provide blocked flow paths when centered. Centering occurs when the Port 3 flow is also blocked. This internal blocking isolates Port 2 and 4 from cross flow.

- Maximum operating pressure = 5000 psi
- Divisional accuracy at rated maximum input flow = 50% ± 2.5%
- Divisional accuracy at rated minimum input flow = 50% ± 4.5%
- Pressure drop at maximum input flow = 350 psi
- Pressure drop at minimum input flow = 25 psi
- Below the minimum flow rating there is not enough flow for the valve to modulate. It is effectively a tee. If flow starts at zero and rises, there will be no dividing or combining control until the flow reaches the minimum rating.
- Divisional and combining accuracy are equal.

OPTION ORDERING INFORMATION

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Flow Divider / Combiner Valves
SYNCHRONIZING DIVIDER / COMBINER

Maximum operating pressure = 5000 psi
Divisional accuracy at rated maximum input flow = 50% ±2.5%
Divisional accuracy at rated minimum input flow = 50% ±4.5%
Pressure drop at maximum input flow = 350 psi
Pressure drop at minimum input flow = 25 psi
Below the minimum flow rating there is not enough flow for the valve to modulate. It is effectively a tee. If flow starts at zero and rises, there will be no dividing or combining control until the flow reaches the minimum rating.
The synchronization feature provides bi-directional static error correction.
Divisional and combining accuracy are equal.

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Flow Divider / Combiner Valves

HIGH CAPACITY DIVIDER / COMBINER, CLOSED CENTER

Note: Closed center valves have spring centered internal spools that provide blocked flow paths when centered. Centering occurs when the Port 5 flow is also blocked. This internal blocking isolates Port 2 and 4 from cross flow.

Performance Curves

- Maximum operating pressure = 5000 psi
- Divisonal accuracy at rated maximum input flow = 50% ±4%
- Divisonal accuracy at rated minimum input flow = 50% ±6.5%
- Pressure drop at maximum input flow = 350 psi
- Pressure drop at minimum input flow = 25 psi
- Below the minimum flow rating there is not enough flow for the valve to modulate. It is effectively a tee. If flow starts at zero and rises, there will be no dividing or combining control until the flow reaches the minimum rating.
- Divisional and combining accuracy are equal.

OPTION ORDERING INFORMATION  Model Codes printed in Red are Preferred Versions and most readily available

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