Pneumatic Actuator Controls
The Best Technology at the Lowest Cost =
At Least 22% to 39% Cost Saving

- At Least 22% to 39% Cost Saving
- Relief Valves Correctly Sized and Safe to match the Filter Regulator
- Highest Flow Products
  Check Valves, Flow Control Valves, Pilot Valves, Filter Regulators, Filter Boosters and Solenoid Valves
- Highest Safety Factors
- Reduced Spares Requirement
- 48 Hr Despatch for Efficient and Quick Delivery
- Configurable Valve Control Products Simplified for Ease of Selection

Innovative and Reliable Valve Solutions
bifold.co.uk
### ¼" & ½" - Modular & Nippled Solutions

#### Comparison

**Optimum Method**

![Diagram](image)

**Conventional Method**

![Diagram](image)

#### 30% Cost Saving 132% More Flow

<table>
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<tr>
<th>¼&quot; MODULAR SOLUTION - CIRCUIT CV</th>
<th>Cv to Open</th>
<th>Cv to Close</th>
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<tr>
<td>No QEV</td>
<td>0.88</td>
<td>2.0</td>
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<td>With QEV</td>
<td>0.77</td>
<td>3.5</td>
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Please note that Solenoid Cv is 2.0

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<tr>
<td>With QEV</td>
<td>0.54</td>
<td>3.5</td>
</tr>
</tbody>
</table>

Please note that Solenoid Cv is 1.0

#### Relief Valves correctly sized and safe to match the Filter Regulator

**Optimum Method**

![Diagram](image)

**Conventional Method**

![Diagram](image)

#### 25% Cost Saving 135% More Flow

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<td>1.33</td>
<td>2.0</td>
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<td>With QEV</td>
<td>1.09</td>
<td>3.5</td>
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</table>

Please note that Solenoid Cv is 2.0

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<td>No QEV</td>
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#### Relief Valves correctly sized and safe to match the Filter Regulator
**Comparison**

### Optimum Method

**½" FILTER BOOSTER CIRCUIT - CIRCUIT CV**

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<th>Cv to Open</th>
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<tr>
<td>No QEV</td>
<td>1.96</td>
<td>1.0</td>
</tr>
<tr>
<td>With QEV</td>
<td>1.94</td>
<td>8.9</td>
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</table>

**½" PILOT VALVE CIRCUIT - CIRCUIT CV**

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</tr>
</thead>
<tbody>
<tr>
<td>No QEV</td>
<td>1.13</td>
<td>1.98</td>
</tr>
<tr>
<td>With QEV</td>
<td>1.11</td>
<td>8.9</td>
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### Conventional Method

**½" FILTER BOOSTER CIRCUIT - CIRCUIT CV**

<table>
<thead>
<tr>
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<th>Cv to Open</th>
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<tr>
<td>No QEV</td>
<td>10.73</td>
<td>6.0</td>
</tr>
<tr>
<td>With QEV</td>
<td>8.98</td>
<td>10.0</td>
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</table>

**½" PILOT VALVE CIRCUIT - CIRCUIT CV**

<table>
<thead>
<tr>
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<th>Cv to Open</th>
<th>Cv to Close</th>
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<tbody>
<tr>
<td>No QEV</td>
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<td>5.98</td>
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<td>With QEV</td>
<td>3.25</td>
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### Relief Valves correctly sized and safe to match the Filter Regulator

**½" & 1" - Modular & Nippled Solutions**

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### ¼” - Pneumatic Direct Acting Solenoid (Cv 1.0) - Circuit

**Circuit**

**Schematic**

#### ¼” Simplest / Bare Circuit

1. [Diagram]

#### ¼” Maximum Circuit Options (Non Partial Stroke)

1. [Diagram]

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Filter Regulator</td>
<td>Solenoid Valves (Auto Reset)</td>
<td>Solenoid Valves (Manual Override)</td>
<td>Quick Exhaust Valve</td>
<td>Bug Vent / Silencer</td>
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<table>
<thead>
<tr>
<th>6</th>
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<td>Check Valve</td>
<td>Gauge</td>
<td>Block and Bleed Valves</td>
<td>Pressure Relief Valve</td>
<td>Cylinder Plug Valve</td>
<td>Mechanical Valves</td>
<td>SW Soldo Limit Switch Box Series</td>
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</table>

**Catalogue Sections**

- Catalogue Section 13
- Catalogue Section 04
- Catalogue Section 04
- Catalogue Section 19
- Configurator
- Catalogue Section 26a
- Catalogue Section 20
- Catalogue Section 03
- Catalogue Section 26a
- Catalogue Section 16
- Catalogue Section 14
- Catalogue Section 09
- Soldo Controls

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### Partial Stroke

#### Schematic

![Schematic Diagram]

#### Catalogue Section 13
- **Catalogue Section 04**
- **Catalogue Section 19**
- **Configurator**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
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<tbody>
<tr>
<td>Filter Regulator</td>
<td>Solenoid Valves (Auto Reset)</td>
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<td>Bug Vent / Silencer</td>
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#### Catalogue Section 04

**Catalogue Section 03**
- **Catalogue Section 14**
- **Catalogue Section 09**
- **Soldo Controls**

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Schematic

1/2" Simplest / Bare Circuit

1/2" Maximum Circuit Options (Non Partial Stroke)

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## Partial Stroke

### Schematic

![Schematic Diagram]

### Table 1

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<td>Solenoid Valves (Auto Reset)</td>
<td>Quick Exhaust Valve</td>
<td>Bug Vent / Silencer</td>
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### Catalogue Section

- **Catalogue Section 03**: Filters and Regulators
- **Catalogue Section 04**: Solenoid Valves (Auto Reset)
- **Catalogue Section 09**: Quick Exhaust Valve
- **Catalogue Section 09**: Bug Vent / Silencer
- **Catalogue Section 13**: Gauge
- **Catalogue Section 14**: Cylinder Plug Valves
- **Catalogue Section 19**: Mechanical Valves
- **Catalogue Section 21**: SW Soldo Limit Switch Box Series

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### ¼" to 2" Pneumatic Filter Booster - Circuit

#### Circuit

**Schematic**

1. **¼" Simplest / Bare Circuit**
2. **¼" Maximum Circuit Options (Non Partial Stroke)**
3. **¼" Logic Line**
4. **¼", ½", 1" & 2" Flow Line**

<table>
<thead>
<tr>
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Catalogue Section 13

Catalogue Section 04

Catalogue Section 13a

Configurator

Catalogue Section 26a

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Catalogue Section 20

Catalogue Section 03

Catalogue Section 26a

Catalogue Section 16

Catalogue Section 14

Catalogue Section 09

Solid Controls

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BFS012016 © Bifold 2016
Partial Stroke

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#### Schematic

![Schematic Diagram]

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Instrument, Process, Directional Control Valves, Pumps and Actuator Electronic Control and Positioning

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