For over 60 years, Arkwin has been selected by aircraft manufacturers to design solutions for directional flow and system pressure challenges. Our valve module products reach across many aircraft platforms and installations for civil and military applications.

Arkwin has designed and manufactured over 200 in-line relief valve variants and more than 40 integrated valve modules.

**Applications include**
- Landing gear operation
- Door actuation
- Engine control
- Thrust Reverser control
- Secondary flight control

**Platforms**

<table>
<thead>
<tr>
<th>A-320</th>
<th>A-10</th>
<th>MD900</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-V</td>
<td>C-130</td>
<td>S-76</td>
</tr>
<tr>
<td>HA-420</td>
<td>F/A-18</td>
<td>CH-47</td>
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<tr>
<td>CF6</td>
<td>F-22</td>
<td>CH-53E</td>
</tr>
<tr>
<td>F404</td>
<td>V-22</td>
<td>H-92</td>
</tr>
<tr>
<td>T700</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Operational Characteristics**
- Provide directional control flow for hydraulic systems
- Multi-function valve modules provide actuation and system control logic
- Can be used as stand alone assemblies for in-line system relief and pressure reduction

**Design Characteristics**
- Multiple sequence and manual operation
- Operating pressures up to 5,000 psig
- Multiple integrated control valve features
- Integral system filtration features
- Single function through integrated valve module assemblies
Selected Valves

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Operating Pressure (PSI)</th>
<th>Valve Configuration</th>
<th>Nominal Flow Rate (GPM)</th>
<th>Application</th>
<th>Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>0711322</td>
<td>3000</td>
<td>4W3P &amp; Emergency Override</td>
<td>8.5</td>
<td>Landing Gear Control Valve</td>
<td>Military</td>
</tr>
<tr>
<td>0711561</td>
<td>3000</td>
<td>2x 4W3P &amp; Emergency Override</td>
<td>3.0</td>
<td>Landing Gear and Door Control Valve</td>
<td>Business Jet</td>
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<tr>
<td>0911077</td>
<td>3000</td>
<td>4W3P &amp; Emergency Override</td>
<td>2.5</td>
<td>Landing Gear Control Valve</td>
<td>Rotary</td>
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<tr>
<td>0711572</td>
<td>4000</td>
<td>4W3P</td>
<td>6.0</td>
<td>Door Control Valve</td>
<td>Military</td>
</tr>
<tr>
<td>0711570</td>
<td>5000</td>
<td>2x 3W2P Filter Module Check Valve</td>
<td>12.0 &amp; 7.0</td>
<td>Starter &amp; EAPS Control Valve</td>
<td>Military</td>
</tr>
</tbody>
</table>

Key Features

**Relief Valves**
- Manual operation available
- High pressure relief valves with and without manual dump feature
- Soft-seat low pressure valves
- Cartridge construction

**Flow Regulators**
- Pressure compensated flow control from 300 to 4,000 psid
- Dampened spool and sleeve construction with over-shoot bypass flow path

**Pressure Reducers**
- In-line valves with integral relief valve function
- Damped spool construction
- Regulation from full flow to near zero flow conditions

**Directional Control Valves**
- 3-way and 4-way two and three position spool type valves
- Pressure driven in both directions or spring return
- Dual or single coil solenoids

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