Who Is Arkwin?

Arkwin Industries is the technical expert in all things hydraulic for aerospace and defense. We design, test, manufacture, and support precision hydraulic and fuel system components for civil and military fixed-wing aircraft, helicopters, spacecraft, turbine engines, and other special applications.

Our reputation for quality and reliability, as well as our location, allow us to attract some of the best engineering, technical, and manufacturing talent available.

Applications Include:

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

Operational Characteristics:

- Provide directional control flow for hydraulic systems
- Multi-function valve modules provide actuation and system control logic
- Can be used for integrating multiple line mounted items in a single assembly
- 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

Platforms

<table>
<thead>
<tr>
<th>Platforms</th>
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<tbody>
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<td>A320</td>
<td>A-10</td>
<td>MD900</td>
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<td>G-V</td>
<td>C-130</td>
<td>S-76</td>
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<td>HA-420</td>
<td>F/A-18</td>
<td>CH-47</td>
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<td>CF6</td>
<td>F-22</td>
<td>CH-53E</td>
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<td>F404</td>
<td>V-22</td>
<td>H-92</td>
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<td>T700</td>
<td>F-35</td>
<td>CH-53K</td>
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## Sample 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>
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<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>
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<td>3000</td>
<td>2x 4W3P &amp; Emergency Override</td>
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<td>Landing Gear and Door Control Valve</td>
<td>Business Jet</td>
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<td>0711570</td>
<td>5000</td>
<td>2x 3W2P Filter Module</td>
<td>12.0 &amp; 7.0</td>
<td>Starter &amp; EAPS Control Valve</td>
<td>Military</td>
</tr>
</tbody>
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## Key Features

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

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

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

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