Related Products

Pressure Relief 3-Port Valve with Locking Hole
VHS 20/30/40/50

Manually operated valve can be used to prevent accidents caused by residual pressure in pneumatic lines. Can prevent accidents due to inadvertent air supply. When in the exhaust position, the valve may be padlock secured, preventing accidental start-ups while personnel are cleaning or servicing equipment.

Related Products

Pressure relief 3-port valve | Interface P/N | Spacer with bracket P/N | Applicable air preparation equipment
--- | --- | --- | ---
VHS20 | Y200 | Y200T | AC20
VHS30 | Y300 | Y300T | AC25, AC30
VHS40 | Y400 | Y400T | AC40
VHS50-06 | Y500 | Y500T | AC40-06
VHS50 | Y600 | Y600T | AC50, AC60 [Note]

Note: Although connection to AC60 is possible, the flow rate may decrease due to the mounting position.

Combination with a modular style FRL is possible.

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Soft start up valve with lock out

- Large effective area
- Low power consumption
- Manual/Manual solenoid lock out
- Modular design

**How to Order**

AVL 20 00 - F 02 G - 5 DZM - R

- Soft start valve with lock out
- Rated coil voltage
- Air direction
- Electric entry
- Optional specification

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>AV2000</th>
<th>AV3000</th>
<th>AV4000</th>
<th>AV5000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port size</td>
<td>1/4</td>
<td>3/8</td>
<td>1/2</td>
<td>3/4</td>
</tr>
<tr>
<td>Proof pressure</td>
<td>225 psi (1.5 MPa)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating pressure range</td>
<td>30 to 150 psi (0.2 to 1 MPa)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient and fluid temp.</td>
<td>32 to 140°F (0 to 60°C)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effective area (mm²)</td>
<td>1(P) to 2(A)</td>
<td>2(A) to 3(F)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight manual/solenoid lb (kg)</td>
<td>1.14 (0.64) to 1.63 (0.74)</td>
<td>1.94 (1.08) to 3.79 (1.72)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated coil voltage</td>
<td>100, 200, 110 to 120, 220VAC (50/60 Hz), 12, 24VDC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allowable voltage fluctuation</td>
<td>−15% to +10% of rated voltage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coil insulation type</td>
<td>Equivalent to B type [266°F (130°C)]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current consumption</td>
<td>AC: 5.6V (50 Hz), 5.0V (60 Hz)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy</td>
<td>3.4VAC (2.1W) 50 Hz, 2.3VAC (1.5W) 60 Hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current consumption DC</td>
<td>1.8W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electric entry</td>
<td>Type D DIN Terminal, M12 connector</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional specification</td>
<td>Indicator light/Surge voltage suppressor</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Piston B Switching Pressure (Close to Open)

- Inlet pressure: psi (MPa)
- Outlet pressure: psi (MPa)
- Curve: 75 (0.5) to 15 (0.1)

### Combination with a modular style

- FRL is possible.

### Dimension AVL2000 to AVL5000 (mm)

<table>
<thead>
<tr>
<th>Model</th>
<th>Port size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVL2000-02</td>
<td>1/4</td>
<td>67</td>
<td>111</td>
<td>31</td>
<td>55</td>
<td>40</td>
<td>40</td>
<td>64</td>
<td>(Max. 73)</td>
</tr>
<tr>
<td>AVL2000-02-DZM</td>
<td>1/4</td>
<td>67</td>
<td>111</td>
<td>31</td>
<td>55</td>
<td>40</td>
<td>40</td>
<td>64</td>
<td>(Max. 73)</td>
</tr>
<tr>
<td>AVL3000-03</td>
<td>3/8</td>
<td>76</td>
<td>118</td>
<td>36</td>
<td>57</td>
<td>48</td>
<td>48</td>
<td>64</td>
<td>(Max. 73)</td>
</tr>
<tr>
<td>AVL3000-03-DZM</td>
<td>3/8</td>
<td>76</td>
<td>118</td>
<td>36</td>
<td>57</td>
<td>48</td>
<td>48</td>
<td>64</td>
<td>(Max. 73)</td>
</tr>
<tr>
<td>AVL4000-04</td>
<td>1/2</td>
<td>98</td>
<td>133</td>
<td>47</td>
<td>61</td>
<td>52</td>
<td>52</td>
<td>64</td>
<td>(Max. 73)</td>
</tr>
<tr>
<td>AVL4000-04-DZM</td>
<td>1/2</td>
<td>98</td>
<td>133</td>
<td>47</td>
<td>61</td>
<td>52</td>
<td>52</td>
<td>64</td>
<td>(Max. 73)</td>
</tr>
<tr>
<td>AVL5000-06 to 10</td>
<td>3/4 &amp; 1</td>
<td>128</td>
<td>161</td>
<td>59</td>
<td>77</td>
<td>74</td>
<td>74</td>
<td>64</td>
<td>(Max. 73)</td>
</tr>
<tr>
<td>AVL5000-06 to 10-DZM</td>
<td>3/4 &amp; 1</td>
<td>128</td>
<td>161</td>
<td>59</td>
<td>77</td>
<td>74</td>
<td>74</td>
<td>64</td>
<td>(Max. 73)</td>
</tr>
</tbody>
</table>

### Dimension AC20° to AC60° (mm)

<table>
<thead>
<tr>
<th>Model</th>
<th>A1</th>
<th>A2</th>
<th>A3</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC20°</td>
<td>41.5</td>
<td>43</td>
<td>67.5</td>
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<td>AC25°</td>
<td>55</td>
<td>57</td>
<td>78</td>
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<tr>
<td>AC30°</td>
<td>55</td>
<td>57</td>
<td>78</td>
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<tr>
<td>AC40°</td>
<td>72.5</td>
<td>75</td>
<td>100.5</td>
</tr>
<tr>
<td>AC50°</td>
<td>93</td>
<td>96</td>
<td>131</td>
</tr>
<tr>
<td>AC55°</td>
<td>98</td>
<td>96</td>
<td>131</td>
</tr>
<tr>
<td>AC60°</td>
<td>98</td>
<td>101</td>
<td>131</td>
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</tbody>
</table>