**CVD08 08-Size Check Valve Disc**

**DESCRIPTION**
A drop-in, cartridge-style check valve disc designed to conveniently integrate with a 5-way directional cartridge as a load sense check on port ➀. The valve requires a modified cavity as indicated below.

**OPERATION**
The CVD08 check valve disc allows free flow from port ➁ to port ➀, while normally blocking flow in the opposite direction.

**FEATURES**
- Hardened parts for long life.
- Heavy duty construction.
- Industry common cavity.

**RATINGS**
- **Operating Pressure**: 250 bar (3625 psi)
- **Internal Leakage**: Maximum: 25 ml/minute (1.5 cu. in./minute) at 207 bar (3000 psi)
- **Operating Temperature**: -40 to 120°C (-40° to 248°F)
- **Materials**: Steel with hardened work surfaces
- **Weight**: 0.01 kg. (0.02 lb.)

**TO ORDER**
- Model No: CVD08

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Inch</th>
<th>Millimeter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dia.</td>
<td>0.420</td>
<td>10.67</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.50</td>
<td>12.7</td>
</tr>
</tbody>
</table>

**INSTALLATION**
(See VC08-5 Cavity Detail, page 9.108.3)

- Cartridge Valve Dia. 0.437 (11.10) Minimum
- Check Valve Disc Dia. 0.378 – 0.372 (9.60 – 9.45) Maximum
- Optional Location for Port ➀

**FLOW lpm/gpm**

**PRESSURE DROP bar/psi**

- 32 cSt/150 sus oil at 40°C

**FLOW**
- 0.1 to 0.5
  - 0.38 lpm/gpm
  - 1.72/25 bar/psi
  - 1.38/20
  - 1.03/15
  - 0.69/10
  - 0.34/5

**PRESSURE DROP**
- 0.1 to 0.5
  - 0.38 bar/psi
  - 1.72/25
  - 1.38/20
  - 1.03/15
  - 0.69/10
  - 0.34/5

**Model No:** CVD08

**USASI/ISO:**

- Symbol 8.470.1

**TO ORDER**

- Model No: CVD08

**Ratings**

- **Operating Pressure**: 250 bar (3625 psi)
- **Internal Leakage**: Maximum: 25 ml/minute (1.5 cu. in./minute) at 207 bar (3000 psi)
- **Operating Temperature**: -40 to 120°C (-40° to 248°F)
- **Materials**: Steel with hardened work surfaces
- **Weight**: 0.01 kg. (0.02 lb.)
**DESCRIPTION**
A drop-in, cartridge-style check valve disc designed to conveniently integrate with a 5-way directional cartridge as a load sense check on port ➀. The valve requires a modified cavity as indicated below.

**OPERATION**
The CVD10 check valve disc allows free flow from port ➂ to port ➀, while normally blocking flow in the opposite direction.

**FEATURES**
- Hardened parts for long life.
- Heavy duty construction.
- Industry common cavity.

**RATINGS**
- **Operating Pressure**: 250 bar (3625 psi)
- **Internal Leakage**: Maximum: 25 ml/minute (1.5 cu. in./minute) at 207 bar (3000 psi)
- **Operating Temperature**: -40 to 120°C (-40° to 248°F)
- **Materials**: Steel with hardened work surfaces
- **Weight**: 0.01 kg. (0.02 lb.)

**TO ORDER**
**Model No:** CVD10

**PERFORMANCE** (Disc Only)

<table>
<thead>
<tr>
<th>FLOW lpm/gpm</th>
<th>PRESSURE DROP bar/psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.38 – 0.76</td>
<td>0.34/5</td>
</tr>
<tr>
<td>0.76 – 1.26</td>
<td>0.69/10</td>
</tr>
<tr>
<td>0.81 – 0.89</td>
<td>1.03/15</td>
</tr>
<tr>
<td>0.92 – 1.38</td>
<td>1.38/20</td>
</tr>
<tr>
<td>1.49 – 1.72</td>
<td>1.72/25</td>
</tr>
</tbody>
</table>

32 cSt/150 sus oil at 40°C

**INSTALLATION** (See VC10-5 Cavity Detail, page 9.110.6)

**DIMENSIONS**

- **Diag. 0.50**
  - **12.7**

- **Diag. 0.546**
  - **13.87**

- **Diag. 0.562**
  - **14.27**

- **Optional Location for Port ➀**
  - **Dia. 0.503 (12.78 max)**

- **Recommended VC10-5 Cavity**
  - **Dia. 0.562 (14.27)**
  - **Minumum**
  - **0.16 (4.1)**
  - **Maximum**
  - **0.50 12.7**

- **Port ➀**
  - **Dia. 0.503 (12.78) Maximum**