Modular/ Stackable Valves

D03-DPC1-AB70

D05-SQ1-B-1K

D08-PR1-P-3K
Features
1. **Rugged Steel Body Designs**: Designed for high cycle and quick response applications
2. **Uniform Height**: Valve body thickness is the same for each series and provides a clean, neat uniform appearance. This also reduces the number of bolt kits.
3. **Better Performance**: Modular valving eliminates leaky connections, reduces plumbing costs and places controls together.
4. **Space Savings**: Manifold mounted control circuits greatly reduce space requirements from conventional line mounted valves.
5. **Adjustment**: Hand knobs with locknuts provided standard- tools are not required for adjustments.

### Specifications

<table>
<thead>
<tr>
<th>Size</th>
<th>D03</th>
<th>D05</th>
<th>D08</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mounting Surfaces: General Patterns</strong></td>
<td>![Pattern D03]</td>
<td>![Pattern D05]</td>
<td>![Pattern D08]</td>
</tr>
<tr>
<td><strong>Nominal Flow Rates</strong></td>
<td>5 gpm (19 lpm)</td>
<td>12 gpm (45 lpm)</td>
<td>50 gpm (190 lpm) for PR1 &amp; DPC1</td>
</tr>
<tr>
<td><strong>Maximum Pressure</strong></td>
<td>3000 psi (210 bar)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Operating Conditions</strong></td>
<td><strong>Working Temperature</strong></td>
<td>40-160°F (5-70°C)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Operating Viscosity</strong></td>
<td>80-300 SUS (17-65 cSt)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Max. Start-up Viscosity</strong></td>
<td>1500 SUS (315 cSt)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Filtration</strong></td>
<td>25 micron or less, (ISO 18/15)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Recommended Fluids</strong></td>
<td>Petroleum Based Fluids- ISO VG32-68, Most Vegetable Oils</td>
<td></td>
</tr>
</tbody>
</table>
## D03, D05 & D08 Series
### Modular/Stackable Valves

<table>
<thead>
<tr>
<th>D03 Series</th>
<th>D05 Series</th>
<th>D08 Series</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>D03-PR1-B-*K</td>
<td>D05-PR1-B-*K</td>
<td>N/A</td>
<td>Pressure Reducing B Port</td>
</tr>
<tr>
<td>D03-SPC1-B-70</td>
<td>D05-SPC1-B-70</td>
<td>N/A</td>
<td>Single Pilot Check B Port</td>
</tr>
<tr>
<td>D03-SPC1-A-70</td>
<td>D05-SPC1-A-70</td>
<td>N/A</td>
<td>Single Pilot Check A Port</td>
</tr>
<tr>
<td>D03-DPC1-AB-70</td>
<td>D05-DPC1-AB-70</td>
<td>D08-DPC1-AB-70</td>
<td>Double Pilot Check A &amp; B Ports</td>
</tr>
<tr>
<td>D03-POR1-ABBA-*K</td>
<td>D05-POR1-ABBA-*K</td>
<td>N/A</td>
<td>Double P.O. Relief B to A &amp; A to b (Cross Port)</td>
</tr>
<tr>
<td>D03-SQ1-B-*K</td>
<td>D05-SQ1-B-*K</td>
<td>N/A</td>
<td>Sequence Valve B Port</td>
</tr>
<tr>
<td>D03-SQ1-A-*K</td>
<td>D05-SQ1-A-*K</td>
<td>N/A</td>
<td>Sequence Valve A Port</td>
</tr>
<tr>
<td>D03-POR1-BT-*K</td>
<td>D05-POR1-BT-*K</td>
<td>N/A</td>
<td>Pilot Operated Relief B to T Port</td>
</tr>
<tr>
<td>D03-POR1-AT-*K</td>
<td>D05-POR1-AT-*K</td>
<td>N/A</td>
<td>Pilot Operated Relief A to T Port</td>
</tr>
<tr>
<td>D03-POR1-ATBT-*K</td>
<td>D05-POR1-ATBT-*K</td>
<td>N/A</td>
<td>Double P.O. Relief A to T &amp; B to T</td>
</tr>
<tr>
<td>D03-FC1-AB-MO</td>
<td>D05-FC1-AB-MO</td>
<td>D08-FC1-AB-MO</td>
<td>Meter Out Flow Control A &amp; B Ports</td>
</tr>
<tr>
<td>D03-N1-P</td>
<td>D05-N1-P</td>
<td>D08-NC1-P (w/Check)</td>
<td>Needle Valve P Port</td>
</tr>
<tr>
<td>D03-PR1-P-*K (6 gpm max.)</td>
<td>D05-PR1-P-*K (12 gpm max.)</td>
<td>D08-PR1-P-*K</td>
<td>Pressure Reducing P Port</td>
</tr>
<tr>
<td>D03-C1-P-7</td>
<td>D05-C1-P-7</td>
<td>D08-NC1-P (w/needle valve)</td>
<td>Check Valve P Port</td>
</tr>
<tr>
<td>D03-POR1-PT-*K</td>
<td>D05-POR1-PT-*K</td>
<td>D08-POR1-PT-*K</td>
<td>Pilot Operated Relief P to T Port</td>
</tr>
</tbody>
</table>

\* See subplates and multiple valve manifolds
\*= 1K (120-1000 psi) or -3K (500-3000 psi) adjustment

SD03- MD03- MD05- MD08- SD08- MD08-
See subplates and multiple valve manifolds
See subplates and multiple valve manifolds
See subplates and multiple valve manifolds
Subplate/ Manifold

31341 Friendship Drive, Magnolia, TX 77355 • Tel.: 281-259-7768 Fax: 281-259-7249 • www.hyvair.com
Series D03-PR1-P
Pressure Reducing Valve

Note: Dimensions are identical for:
D03-PR1-A
D03-PR1-B

Units: mm/ (Inch)
Weight: 2.9 lbs/ 1.3 kgs

Series D03-N1-P
Needle Valve

Shown with standard hand knob.

Units: mm/ (Inch)
Weight: 2.42 lbs/ 1.1 kgs

Series D03-FC1-AB-MO
Flow Control

Note: Dimensions are identical for:
D03-FC1-AB-MI

Units: mm/ (Inch)
Weight: 2.8 lbs/ 1.25 kgs

Note: Dimensions are identical for single flow control valve- subtract left or right adjusting knob dimension.
**D03, D05 & D08 Series**

**Modular/Stackable Valves**

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**Dimensional Data**

**Series D05-C1-P**

*Check Valve*

- Subplate/Manifold Side
- Solenoid Valve Side
- Units: mm/ (Inch)
- Weight: 5.28 lbs/ 2.4 kgs

**Series D05-DPC1-AB-70**

*Double Pilot Operated Check Valve*

- Note: Dimensions are identical for:
  - D05-SPC1 (Single Pilot Check)
- Units: mm/ (Inch)
- Weight: 7.48 lbs/ 3.4 kgs

**Series D05-POR1-PT**

*Pilot Operated Relief Valve*

- Note: Dimensions are identical for:
  - D05-POR1-AT
  - D05-POR1-BT
- Units: mm/ (Inch)
- Weight: 7.7 lbs/ 3.5 kgs

**Series D05-PR1-P**

*Pressure Reducing Valve*

- Note: Dimensions are identical for:
  - D05-PR1-A
- Units: mm/ (Inch)
- Weight: 7.7 lbs/ 3.5 kgs

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**Series D05-N1-P**
**Needle Valve**

Units: mm/ (Inch)
Weight: 6.2 lbs/ 2.8 kgs

**Series D05-FC1-AB-MO**
**Flow Control**

Units: mm/ (Inch)
Weight: 7.7 lbs/ 3.5 kgs

**Series D08-DPC1-AB-70**
**Double Pilot Operated Check Valve**

Units: mm/ (Inch)
Weight: 27.5 lbs/ 12.5 kgs

**Series D08-C1-P**
**Check Valve**

Units: mm/ (Inch)
Weight: 27.5 lbs/ 12.5 kgs

Note: Dimensions are identical for single flow control- subtract left or right adjusting knob dimension.
D03, D05 & D08 Series
Modular/ Stackable Valves

**Dimensional Data**

**Series D08-PR1-P**
Pressure Reducing Valve

**Series D08-POR1-P**
Pilot Operated Relief Valve

**Series D08-NC1-P**
Nedle Valve w/ Check

**Series D08-FC1-AB-MO**
Flow Control

Note: Dimensions are identical for single flow control or needle valve- subtract left or right adjusting knob dimension.