Automatic Shutoff Valve Decouplers for Single and Double Acting Systems

- Decouplers are a convenient, self-contained package that includes quick connect couplings, accumulator, filters, pilot operated check valve and an over pressure relief valve.
- Contains a robust pilot operated check valve with a 1:5 pilot to check ratio for proven long term reliability.
- Internal 25 micron filters for added protection of the pilot operated check valve through ports A1, A2, A3, A4 and C1. Additional filtration at port B1. No filtration at remaining ports.
- Integral accumulator available in three operating pressure ranges.
- SAE female external ports and manifold mounting (bottom and rear) connections.
- Single acting pallet circuits require 2 hoses to the Operating Handle for pressure release. For single hose systems see the Manual Shutoff Valve Decoupler.
- Additional filtration available through the use of manifold mount and in-line filtration. Filter kit model # 62-5600-05 (for in-line mounting) or 62-5600-06 (for manifold mounting).

**NOTE:**
These automatic shutoff valve decouplers and operating handle must be used with a suitable pump which includes a 4 port/3 position, P-blocked center (“A” & “B” connected to tank) directional control valve for operation of single or double acting systems.

See the pump convenience package for the pump model of your choice, “Pallet Decoupler (two hose)” in section J.

One automatic shutoff valve decoupler can be used to operate only one double acting or one single acting circuit. For operation of a single acting circuit, plug the decoupler outlet port “B” (as shown in the schematic).

Decouplers with Integral Accumulator

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Pressure Range (psi)</th>
<th>Accumulator Capacity (cu. in.)</th>
<th>Optional In-Line Filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-0050-42</td>
<td>400-1,500</td>
<td>3.8</td>
<td>70-0401-71</td>
</tr>
<tr>
<td>56-0050-23</td>
<td>1,000-3,500</td>
<td>3.6</td>
<td></td>
</tr>
<tr>
<td>56-0050-24</td>
<td>2,000-5,000</td>
<td>3.2</td>
<td></td>
</tr>
</tbody>
</table>

For proper sealing, mating surface must be flat within 0.003 in. with a maximum 63 µ in. Rₐ surface finish.

One-Handed Operating Handle

Model No. 56-0008-00

For use with Decoupled Model Nos. 56-0005-23, 56-0005-24, 56-0005-25 or 56-0005-26, 56-0005-42 or 56-0005-43.

- Provides a fast, positive connection to the Decoupler.
- Positive lock/un-lock design eliminates missed connections.
- Ergonomic design reduces operator fatigue.
- Maximum working pressure is 5,000 psi.
Automatic Shutoff Valve Decouplers for Single and Double Acting Systems

- Decouplers are a convenient, self-contained package that includes quick connect couplings, accumulator, filters, pilot operated check valve, accumulator and an over pressure relief valve.
- Robust pilot operated check valve with a 1:5 pilot to check ratio for proven long term reliability.
- Internal 25 micron filters for added protection of the pilot operated check valve through ports A1, A2, A3, A4, A5 and C1. Additional filtration at port B1. No filtration at remaining ports.
- External accumulator available in three operating pressure ranges.
- Single acting pallet circuits require 2 hoses to the Operating Handle for pressure release. For single hose systems see the Manual Shutoff Valve Decoupler.
- Additional filtration available through the use of manifold mount and in-line filtration. Filter kit model # 62-5600-05 (for in-line mounting) or 62-5600-06 (for manifold mounting).

Decouplers with External Accumulator

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Pressure Range (psi)</th>
<th>Accumulator Capacity</th>
<th>Optional In-Line Filter</th>
<th>In-Port (For Manifold Mounting)</th>
<th>Optional Filters</th>
<th>Filter Plate (For Manifold Mounting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-0005-43</td>
<td>400-1,500</td>
<td>3.8 cu. in.</td>
<td></td>
<td>70-0401-71</td>
<td>70-8420-05</td>
<td>70-8420-05 (BOTTOM A5 &amp; B5) OR 70-8420-06 (REAR A4 &amp; B4)</td>
</tr>
<tr>
<td>56-0005-25</td>
<td>1,000-3,500</td>
<td>3.6 cu. in.</td>
<td></td>
<td>70-0437-71</td>
<td></td>
<td></td>
</tr>
<tr>
<td>56-0005-26</td>
<td>2,000-5,000</td>
<td>3.2 cu. in.</td>
<td></td>
<td>(Ports A4, B4, B5)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For proper sealing, mating surface must be flat within 0.003 in. with a maximum 63 µ in. Rₐ surface finish.

Customers that have previously bought a decoupler can purchase a new cover for their old decoupler. New orders of decouplers will come with cover.

NOTE: These automatic shutoff valve decouplers and operating handle must be used with a suitable pump which includes a 4 port/3 position, P-blocked center ("A" & "B" connected to tank) directional control valve for operation of single or double acting systems.

See the pump convenience package for the pump model of your choice, "Pallet Decoupler (two hose)" in section J.

One automatic shutoff valve decoupler can be used to operate only one double acting or one single acting circuit. For operation of a single acting circuit, plug the decoupler outlet port "B" (as shown in the schematic).
Automatic Shutoff Valve Decouplers, Two-Handed Operating Handle

### Automatic Shutoff Valve Decouplers for Single and Double Acting Systems

- Decouplers are a convenient, self-contained package that includes quick connect couplings, accumulator, filters, pilot operated check valve, an over pressure relief valve.
- Robust pilot operated check valve with a 1:5 pilot to check ratio for proven long term reliability.
- Internal 25 micron filters for added protection of the pilot operated check valve through ports A1, A2, A3, A4 and C1. Additional filtration at port B1. No filtration at remaining ports.
- Integral accumulator available in three operating pressure ranges.
- SAE female external ports and manifold mounting (bottom and rear) connections on all models.
- Single acting pallet circuits require 2 hoses to the Operating Handle for pressure release. For single hose systems, see the Manual Shutoff Valve Decoupler in this section.
- Additional filtration available through the use of manifold mount and in-line filtration. Filter kit model # 62-5600-05 (for in-line mounting) or 62-5600-06 (for manifold mounting).

### Decouplers with Integral Accumulator

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Pressure Range (psi)</th>
<th>Accumulator Capacity</th>
<th>Optional In-Line Filter</th>
<th>Optional Filters In-Port (For Manifold Mounting)</th>
<th>Filter Plate (For Manifold Mounting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-0005-40</td>
<td>400-1,500</td>
<td>3.8 cu. in.</td>
<td></td>
<td>70-0401-71</td>
<td>70-8420-05 (BOTTOM A4 &amp; B4) OR 70-8420-06 (REAR A3 &amp; B3)</td>
</tr>
<tr>
<td>56-0005-17</td>
<td>1,000-3,500</td>
<td>3.6 cu. in.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>56-0005-18</td>
<td>2,000-5,000</td>
<td>3.2 cu. in.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For proper sealing, mating surface must be flat within 0.003 in. with a maximum 63 µ in. Rₐ surface finish.

**NOTE:** For use with Operating Handle Model No. 56-0005-04. May be used in conjunction with Safety Interlock Storage Module Model No. 56-0005-05.

**NOTE:** These automatic shutoff valve decouplers and operating handle must be used with a suitable pump which includes a 4 port/3 position, P-blocked center (“A” & “B” connected to tank) directional control valve for operation of single or double acting systems.

See the pump convenience package for the pump model of your choice. “Pallet Decoupler (two hose)” in section J. One automatic shutoff valve decoupler can be used to operate only one double acting or one single acting circuit. For operation of a single acting circuit, plug the decoupler outlet port “B” (as shown in the schematic).

Provides fast, positive connection to the Decoupler.

The Two-Handed Handle may be used with the optional Handle Docking Module to assure that the hoses are disconnected from the pallet before it is shuttled into the machine.

For use with Decoupler Models 56-0005-17, 56-0005-18, 56-0005-19, 56-0005-20, 56-0005-40 or 56-0005-41

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Automatic Shutoff Valve Decouplers for Single and Double Acting Systems

- Decouplers are a convenient, self-contained package that includes quick connect couplings, accumulator, filters, pilot operated check valve, accumulator and an over pressure relief valve.
- Robust pilot operated check valve with a 1:5 pilot to check ratio for proven long term reliability.
- Check valve through ports A1, A2, A3, A4, A5 and C1. Additional filtration at port B1. No filtration at remaining ports.
- External accumulator available in three operating pressure ranges.
- SAE female external ports and manifold mounting (bottom and rear) connections.
- Single acting pallet circuits require 2 hoses to the Operating Handle for pressure release. For single hose systems, see the Manual Shutoff Valve Decoupler in this section.
- Additional filtration available through the use of manifold mount and in-line filtration. Filter kit model # 62-5600-05 (for in-line mounting) or 62-5600-06 (for manifold mounting).

Decouplers with External Accumulator

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Pressure Range (psi)</th>
<th>Accumulator Capacity</th>
<th>Optional In-Line Filter</th>
<th>Optional Filters</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-0005-41</td>
<td>400-1,500</td>
<td>3.8 cu. in.</td>
<td>70-0401-71</td>
<td>70-8420-05 (Bottom A5 &amp; B5) or 70-8420-06 (REAR A4 &amp; B4)</td>
</tr>
<tr>
<td>56-0005-19</td>
<td>1,000-3,500</td>
<td>3.6 cu. in.</td>
<td>70-0437-71 (Ports A4, B4, B5)</td>
<td></td>
</tr>
<tr>
<td>56-0005-20</td>
<td>2,000-5,000</td>
<td>3.2 cu. in.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For proper sealing, mating surface must be flat within 0.003 in. with a maximum 63 μ in. R_a surface finish.

NOTE: For use with Operating Handle Model No. 56-0005-04. May be used in conjunction with Safety Interlock Storage Module Model No. 56-0005-05.

Customers that have previously bought a decoupler can purchase a new cover for their old decoupler. New orders of decouplers will come with cover.
Decouplers are a convenient, self-contained package that includes quick connect couplings, accumulator, filters, pilot operated check valve, accumulator and over pressure relief valve and separate path for compressed air.

Robust pilot operated check valve with 1 to 5 ratio of pilot to check pressure for proven long-term reliability.

Internal 25 micron filters for added protection of pilot operated check valve through ports A1, A2, A3, A4 and A5. Additional filtration provided at port B1. No filtration at remaining ports.

External accumulator available in three operating pressure ranges.

SAE female external ports and manifold mounting (bottom and rear) connections.

Single acting pallet circuits require 2 hoses to the Operating Handle for pressure release. For single hose systems see the Manual Shutoff Valve Decoupler in this section.

Additional filtration available through the use of manifold mount and in-line filtration. Filter kit model no. 62-5600-05 (for in-line mounting) or 62-5600-06 (for manifold mounting).

**NOTE:**
These automatic shutoff valve decouplers and operating handle must be used with a suitable pump which includes a 4 port/3 position, P-blocked center (“A” & “B” connected to tank) directional control valve for operation of single or double acting systems. See the pump convenience package for the pump model of your choice, “Pallet Decoupler (two hose)” in section J. One automatic shutoff valve decoupler can be used to operate only one double acting or one single acting circuit. For operation of a single acting circuit, plug the decoupler outlet port “B” (as shown in the schematic).

Decoupler Cover (see previous page)

For Decoupler Cover

Decouplers with External Accumulator

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Pressure Range (psi)</th>
<th>Accumulator Capacity</th>
<th>Optional In-Line Filter</th>
<th>Optional Filters</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-0005-30</td>
<td>400-1,500</td>
<td>3.8 cu. in.</td>
<td>70-0401-71</td>
<td>70-0437-71 (Ports A4, B4, B5)</td>
</tr>
<tr>
<td>56-0005-21</td>
<td>1,000-3,500</td>
<td>3.6 cu. in.</td>
<td></td>
<td>70-8420-05 (BOTTOM A5 &amp; B5) OR 70-8420-06 (REAR A4 &amp; B4)</td>
</tr>
<tr>
<td>56-0005-22</td>
<td>2,000-5,000</td>
<td>3.2 cu. in.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Handle Docking Stations

Docking Stations are now available for both 1-Handed or 2-Handed Automatic Shutoff Pallet Decoupler Handles. These handy devices provide a standard contamination-free location for quick-discard handle storage. Handle Docking Stations have a drain pan to keep your work area free of slip and fall hazards created by dripping disconnects.

- The optional Proximity Switch confirms the decoupler handle and hoses are connected to the docking station. The pallet can then be safely shuttled into the machine.
- Adjustable five connector positions insure these stations are ergonomically friendly for all operators.
- Docking couplers are for handle retention only.
- Flexible mounting allows for vertical, horizontal or pole applications.

### Decoupler Docking Station

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Proximity Switch</th>
<th>Model Size</th>
<th>A Proximity Switch Height</th>
<th>B Dock Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-0005-28</td>
<td>No</td>
<td>Two-Hand</td>
<td>N/A</td>
<td>4.37</td>
</tr>
<tr>
<td>56-0005-29</td>
<td>Yes</td>
<td>Two-Hand</td>
<td>1.036</td>
<td>4.37</td>
</tr>
<tr>
<td>56-0008-01</td>
<td>No</td>
<td>One-Hand</td>
<td>N/A</td>
<td>2.95</td>
</tr>
<tr>
<td>56-0008-02</td>
<td>Yes</td>
<td>One-Hand</td>
<td>0.682</td>
<td>2.95</td>
</tr>
</tbody>
</table>

**Horizontal Mounting**

**Vertical Mounting**

**Pole Mounting**

**SAFETY FIRST!!**