Accumulators

- Maintains circuit pressure while the pallet or tombstone is disconnected from the pump using a decoupler.
- Piston-type, inert gas precharged accumulators compensate for pallet pressure changes during machining.
- G 1/4 Threads.

Hydraulic fluid compresses the precharged inert gas across the piston during circuit pressurization. The pressurized gas provides additional fluid to the circuit to reduce pressure changes in the event of small seeps, thermal expansion or contraction while the pallet or tombstone is in the machine.

- The 2 MPa (20 Bar) to 10 MPa (100 Bar) operating pressure model has a gas precharge of 1.7 MPa (17 Bar).

Perform annual maintenance in accordance with the instructions provided with each accumulator. Contact Vektek for additional copies of the annual maintenance instructions or to arrange for factory performed annual maintenance.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>L9-0116-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Operating Pressure</td>
<td>2 - 10 MPa (20 - 100 Bar)</td>
</tr>
<tr>
<td>Approximate Useable Volume At Maximum System Pressure</td>
<td>62 cm³</td>
</tr>
</tbody>
</table>

**Graph:**

- X-axis: Hydraulic System Operating Pressure (MPa)
- Y-axis: Accumulator Useable Oil Volume (cm³)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Line Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>L9-0116-05</td>
<td></td>
</tr>
</tbody>
</table>
### Automatic Shutoff Valve Decouplers for Single and Double Acting Systems

- Decouplers are a complete, self-contained package for disconnecting a fixture from its power supply while machining.
- Everything is there for you: Quick connect coupling, filters, accumulators, pilot operated check valve and over-pressure relief valve!
- 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 thru ports A1, A2, A3, A4 & C1. Additional filtration provided at port B1. (Filtration for A3, B3 or A4, B4 available by purchasing Vektek filter block L7-0842-05 or L7-0842-06 depending on mounting orientation.) See Section K.
- G1/4 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.

### NEW
**The First Complete Low Pressure Decoupling Solution**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>L5-6005-42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>3 - 10 MPa</td>
</tr>
<tr>
<td>Accumulator Capacity</td>
<td>62 cm³</td>
</tr>
<tr>
<td>Optional In-Line Filter Cartridge</td>
<td>L7-0048-81</td>
</tr>
<tr>
<td>Optional Filter Plate (For Manifold Mount Filtration)</td>
<td>L7-0842-05 (Bottom A4 &amp; B4) or L7-0842-06 (Rear A3 &amp; B3)</td>
</tr>
</tbody>
</table>

For use with Operating Handle Model No. L5-6008-00.

**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. 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).
One-Handed Operating Handle

Model No. | L5-6008-00
---|---
For use with Decoupler Model No. | L5-6005-42
or L5-6005-43

Features

- Maximum working pressure - 10 MPa
- Provides a fast, positive connection to the decoupler.
- Ergonomic design reduces operator fatigue.
- The One-Handed Handle may be used with the optional Handle Docking Module to assure the hoses are disconnected from the pallet before it is shuttled into the machine.

Pallet Decoupler Cover

Model No. | A | For use with Decoupler Models
---|---|---
L5-6008-03 | 8.9 | L5-6005-42, L5-6005-43

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. 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

**NEW Complete 2-Hand Low Pressure Decoupling Solution**

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

- Decouplers are a complete, self-contained package for disconnecting a fixture from its power supply while machining.
- Everything is there for you: Quick connect coupling, filters, accumulators, pilot operated check valve and over-pressure relief valve!
- 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 thru ports A1, A2, A3, A4 & C1. Additional filtration provided at port B1. (Filtration for A3, B3 or A4, B4 available by purchasing Vektek filter block L7-0842-05 or L7-0842-06 depending on mounting orientation.)
- G1/4 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.

#### Features
- Maximum working pressure - 10 MPa
- Provides a fast, positive connection to the decoupler.
- Ergonomic design reduces operator fatigue.
- The Two - Handed Handle may be used with the optional Handle Docking Module to assure the hoses are disconnected from the pallet before it is shuttled into the machine.

#### Model Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>L5-6005-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>3 - 10 MPa</td>
</tr>
<tr>
<td>Accumulator Capacity</td>
<td>62 cm³</td>
</tr>
<tr>
<td>Optional In-Line Filter Cartridge</td>
<td>L7-0048-81</td>
</tr>
<tr>
<td>Optional Filter Plate (For Manifold Mount Filtration)</td>
<td>L7-0842-05 or L7-0842-06</td>
</tr>
</tbody>
</table>

For use with Operating Handle Model No. L5-6005-04.

See NOTE about pump requirements on next page.
### Palletized Fixture Accessories

#### Decouplers

**Model No.:** L5-6005-41  
**Pressure Range:** 3 - 10 MPa  
**Accumulator Capacity:** 62 cm³  
**Optional In-Line Filter Cartridge:** L7-0048-B1

**Optional Filter Plate (For Manifold Mount Filtration):**  
- L7-0842-05 (Bottom A5 & B5) or  
- L7-0842-06 (Rear A4 & B4)

For use with Operating Handle Model No. L5-6005-04.

**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. 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).

---

**Pallet Decoupler Cover**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>For use with Decoupler Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>L5-6005-03</td>
<td>12.7</td>
<td>L5-6005-40, L5-6005-41</td>
</tr>
<tr>
<td>L5-6005-44</td>
<td>11.4</td>
<td>L5-6005-44</td>
</tr>
</tbody>
</table>

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

---

100 lb. Tensile Strength
**NEW**

Decoupler with Air

For use with Operating Handle Model No. L5-6007-01

**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. 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).

### Model No. L5-6005-44
- **Pressure Range:** 3 - 10 MPa
- **Accumulator Capacity:** 62 cm³
- **Optional In-Line Filter Cartridge:** L7-0048-81
- **Optional Filter Plate (For Manifold Mount Filtration):** L7-0842-05 (Bottom A5 & B4) or L7-0842-06 (Rear A4 & B4)

For use with Operating Handle Model No. L5-6007-01

**Features**
- Maximum working pressure - 10 MPa
- Provides a fast, positive connection to the decoupler.
- Ergonomic design reduces operator fatigue.
- The Two - Handed Handle may be used with the optional Handle Docking Module to assure the hoses are disconnected from the pallet before it is shuttled into the machine.
NEW

Handle Docking Station
with optional feedback sensor

Docking Stations for the 1-Handed or 2-Handed Automatic Shutoff Pallet Decoupler Handle. This handy device provides a standard contamination-free location for quick-disconnect handle storage. The 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 positions ensure the Docking Station is ergonomically friendly for operators.
- Docking couplers are for handle retention only.
- Flexible mounting allows for vertical, horizontal or pole applications.
- Mounting holes for M6 Diameter bolts.

Docking Station

<table>
<thead>
<tr>
<th>Model No.</th>
<th>L5-6005-28</th>
<th>L5-6005-29</th>
<th>L5-6008-01</th>
<th>L5-6008-02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proximity Switch</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Handle Size</td>
<td>Two - Hand</td>
<td>Two - Hand</td>
<td>One - Hand</td>
<td>One - Hand</td>
</tr>
<tr>
<td>A Proximity Switch Height</td>
<td>N/A</td>
<td>26.3</td>
<td>N/A</td>
<td>17.3</td>
</tr>
<tr>
<td>B Dock Width</td>
<td>111</td>
<td>111</td>
<td>75</td>
<td>75</td>
</tr>
</tbody>
</table>

- Adjustable five positions ensure the Docking Station is ergonomically friendly for operators.
- Docking couplers are for handle retention only.
- Flexible mounting allows for vertical, horizontal or pole applications.
- Mounting holes for M6 Diameter bolts.

Docking Station

- 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 positions ensure the Docking Station is ergonomically friendly for operators.
- Docking couplers are for handle retention only.
- Flexible mounting allows for vertical, horizontal or pole applications.
- Mounting holes for M6 Diameter bolts.