### Prince 'WLV' Models (WLV21GB5C1 Shown)

<table>
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<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td><strong>VALVE BODY &amp; SPOOLS</strong></td>
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<tr>
<td>2</td>
<td>660270013</td>
<td>CARTRIDGE, RELIEF (1500-3500 PSI)</td>
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<tr>
<td>3</td>
<td>660170096</td>
<td>HANDLE KIT -**</td>
</tr>
<tr>
<td>4</td>
<td>671300102</td>
<td>BOOT, JOYSTICK -**</td>
</tr>
<tr>
<td>5</td>
<td>660170095</td>
<td>COMPLETE JOYSTICK KIT</td>
</tr>
<tr>
<td>6</td>
<td>660170097</td>
<td>SPRING CENTER KIT</td>
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<tr>
<td>7</td>
<td>660170098</td>
<td>SPRING CENTER FLOAT DETENT KIT</td>
</tr>
<tr>
<td>8</td>
<td>660170100</td>
<td>POWER BEYOND CONV PLUG ASSY</td>
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<tr>
<td>9</td>
<td>660170099</td>
<td>SEAL KIT FOR WLV VALVE ASSY</td>
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* - NOT SERVICED SEPARATELY  
** - INCL IN COMPLETE JOYSTICK KIT

**Prince Wolverine Model 'WLV' Specifications:**

**Series Circuit Design**
- Operating Pressure: 4300 PSI
- Maximum Pressure: 5000 PSI
- Maximum Tank Pressure: 725 PSI
- Nominal Flow Rating: 12 GPM
- Maximum Flow Rating: 16 GPM

**Filtration Recommendations:**
ISO 4406 19/17/14

**Standard Port Size (Inlet, Outlet and Work Ports):**
- #8 SAE ORB. 3/4-16UNF-2B

**Recommended Fluid:**
High quality mineral-based hydraulic fluid with viscosity from 12 cSt to 400 cSt.

**Relief Valve:**
An adjustable relief valve cartridge is standard on all 'WLV' models. The standard factory setting is 2600 PSI @ 10 GPM. Standard adjustment range is 1500 PSI to 3500 PSI.

The relief setting is adjusted by loosening the jam nut and turning the adjusting screw. Turning the adjusting screw clockwise increases relief pressure and counterclockwise decreases relief pressure (a pressure gauge must be installed in the inlet line or port whenever the relief pressure is adjusted).

**Warning:**
Overpressure may cause sudden and unexpected failure of a component in the hydraulic system resulting in serious personal injury. Always use a gauge when adjusting a relief valve.

**Not to be used with closed center systems**

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**Torque Notes:**
- Relief Cartridge: 15–20 FT–LB.
- Power Beyond Conv Plug: 25 FT–LB.

For standard models available & additional information go to: www.princehyd.com
EXAMPLE 'WLV' VALVE CIRCUIT USING OPTIONAL POWER BEYOND OPTION:

OPTIONAL POWER BEYOND OPERATION:
A POWER BEYOND PLUG ASSY IS INCLUDED WITH VALVE, BUT IS SHIPPED UNINSTALLLED.
REMOVE & DISCARD STEEL PLUG FROM PORT 'C' OF UPSTREAM VALVE. INSTALL POWER BEYOND PLUG ASSY INTO PORT 'C'.
CONNECT A HYDRAULIC LINE FROM THE POWER BEYOND PORT TO A DOWNSTREAM FUNCTION, AND ALSO A LINE FROM THE TANK PORT 'T' TO TANK.
WITH ALL SPOOLS CENTERED, OIL FLOW IS DIRECTED TO THE POWER BEYOND PORT FOR USE BY THE DOWNSTREAM FUNCTION.
WHEN A SPOOL IS SHIFTED, OIL WILL BE DIRECTED TO A WORK PORT AND THE RETURN FLOW GOES TO TANK.

SERIES CIRCUIT DESIGN:

NOTE: NOT FOR USE WITH CLOSED CENTER SYSTEMS!

EXAMPLE 'WLV' LOADER VALVE HYDRAULIC CIRCUIT (OPEN CENTER):

FOR STANDARD MODELS AVAILABLE & ADDITIONAL INFORMATION GO TO: www.princehyd.com