HOT OIL SHUTTLE AND RELIEF ASSEMBLY
INLINE BODY

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- Hot oil pressure can be confirmed and/or set with transmission in neutral.

These SUN valve assemblies are for use in bleeding hot oil from the low pressure side of a hydrostatic transmission circuit. The hot oil can be cooled, filtered, or used as a source of oil for flushing other pump and motor cases. The hot oil is removed from the loop when the SUN RPEC cartridge is set below the hydrostatic charge pressure relief valve.

<table>
<thead>
<tr>
<th>Mounting Hole Dimensions</th>
<th>Ports 1 &amp; 2</th>
<th>Port T</th>
<th>Gage Port</th>
<th>ALUMINUM</th>
<th>DUCTILE IRON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch SAE-10</td>
<td>SAE-8</td>
<td>SAE-6</td>
<td>K</td>
<td>K/S</td>
<td></td>
</tr>
<tr>
<td>Inch SAE-12</td>
<td>SAE-8</td>
<td>SAE-6</td>
<td>L</td>
<td>L/S</td>
<td></td>
</tr>
<tr>
<td>Metric .50 BSPP</td>
<td>.375 BSPP</td>
<td>.25 BSPP</td>
<td>V</td>
<td>V/S</td>
<td></td>
</tr>
<tr>
<td>Metric .75 BSPP</td>
<td>.375 BSPP</td>
<td>.25 BSPP</td>
<td>W</td>
<td>W/S</td>
<td></td>
</tr>
</tbody>
</table>

*For part number and price for body only contact your local SUN distributor.

RPEC-LNN

Mounting Holes:
(opposite side)
Inch: .375-16 UNC-2B x .62 deep.
Metric: M10 x 1.50-6H x .62 deep.
2 places.

DSCH-XHN

1.08

OPTIONS

XRDC - LNN - A*

CARTRIDGE
RPEC Pg 1.06
For Viton Seals Change LNN to LNV.

Customer Specified Setting
Stamped on Hex

PORTS
See Chart above
HOT OIL SHUTTLE AND RELIEF ASSEMBLY
.75” SAE FLANGE PORT BODY

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- Hot oil pressure can be confirmed and/or set with transmission in neutral.

<table>
<thead>
<tr>
<th>Mounting Hole Dimensions</th>
<th>Ports 1 &amp; 2</th>
<th>Port T</th>
<th>Gage Port</th>
<th>ALUMINUM</th>
<th>DUCTILE IRON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>Code 61</td>
<td>SAE-8</td>
<td>SAE-6</td>
<td>O/S</td>
<td>O/T</td>
</tr>
<tr>
<td>Metric</td>
<td>Code 61 .375 BSPP</td>
<td>25 BSPP</td>
<td>O/M</td>
<td>3/S</td>
<td>3/T</td>
</tr>
</tbody>
</table>

*For part number and price for body only contact your local SUN distributor.

*For part number and price for body only contact your local SUN distributor.

These SUN valve assemblies are for use in bleeding hot oil from the low pressure side of a hydrostatic transmission circuit. The hot oil can be cooled, filtered, or used as a source of oil for flushing other pump and motor cases. The hot oil is removed from the loop when the SUN RPEC cartridge is set below the hydrostatic charge pressure relief valve.

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- Hot oil pressure can be confirmed and/or set with transmission in neutral.

RPEC-Pg 1.06
For Viton Seals Change LNN to LNV.

Customer Specified Setting
Stamped on Hex

OPTIONS
XRDC – LNN – A*

PORTS
See Chart above
HOT OIL SHUTTLE AND RELIEF ASSEMBLY
INLINE BODY

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- Hot oil pressure can be confirmed and/or set with transmission in neutral.

These SUN valve assemblies are for use in bleeding hot oil from the low pressure side of a hydrostatic transmission circuit. The hot oil can be cooled, filtered, or used as a source of oil for flushing other pump and motor cases. The hot oil is removed from the loop when the SUN RPEC cartridge is set below the hydrostatic charge pressure relief valve.

### Mounting Hole Dimensions

<table>
<thead>
<tr>
<th>Ports 1 &amp; 2</th>
<th>Port T</th>
<th>Gage Port</th>
<th>Port Code</th>
<th>List Price*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>SAE-12</td>
<td>SAE-6</td>
<td>L</td>
<td></td>
</tr>
<tr>
<td>Inch</td>
<td>SAE-16</td>
<td>SAE-6</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>Metric</td>
<td>.75 BSPP</td>
<td>.25 BSPP</td>
<td>W</td>
<td></td>
</tr>
<tr>
<td>Metric</td>
<td>1.00 BSPP</td>
<td>.25 BSPP</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**ALUMINUM**

<table>
<thead>
<tr>
<th>Port Code</th>
<th>List Price*</th>
</tr>
</thead>
<tbody>
<tr>
<td>L/S</td>
<td></td>
</tr>
<tr>
<td>M/S</td>
<td></td>
</tr>
<tr>
<td>W/S</td>
<td></td>
</tr>
<tr>
<td>X/S</td>
<td></td>
</tr>
</tbody>
</table>

**DUCTILE IRON**

*For part number and price for body only contact your local SUN distributor.*

Mounting Holes:
- (opposite side)
  - Metric: M10 x 1.50-6H x .62 deep.
  - 2 places.

DSEH-XHN

Mounting Hole Dimensions

<table>
<thead>
<tr>
<th>GPM</th>
<th>psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>100</td>
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<tr>
<td>10</td>
<td>200</td>
</tr>
<tr>
<td>15</td>
<td>300</td>
</tr>
<tr>
<td>20</td>
<td>400</td>
</tr>
<tr>
<td>25</td>
<td>500</td>
</tr>
</tbody>
</table>

Typical Hot Oil Relief/Shuttle Performance

RPEC-LNN

1.94

CARTRIDGE

RPEC  Pg 1.06
For Viton Seals Change LNN to LNV.

Customer Specified Setting
Stamped on Hex

PORTS

See Chart above

OPTIONS

XRFC – LNN – A*
**HOT OIL SHUTTLE AND RELIEF ASSEMBLY**

- **1.00” SAE FLANGE PORT BODY**

  - Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
  - Hot oil pressure can be confirmed and/or set with transmission in neutral.

<table>
<thead>
<tr>
<th>Mounting Hole Dimensions</th>
<th>Ports 1 &amp; 2</th>
<th>Port T</th>
<th>Gage Port</th>
<th>ALUMINUM</th>
<th>DUCTILE IRON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>Code 61</td>
<td>SAE-10</td>
<td>SAE-6</td>
<td>P</td>
<td>P/S</td>
</tr>
<tr>
<td>Metric</td>
<td>Code 61</td>
<td>.50</td>
<td>BSPP 25 BSPP</td>
<td>P/M</td>
<td>P/T</td>
</tr>
</tbody>
</table>

*For part number and price for body only contact your local SUN distributor.

These SUN valve assemblies are for use in bleeding hot oil from the low pressure side of a hydrostatic transmission circuit. The hot oil can be cooled, filtered, or used as a source of oil for flushing other pump and motor cases. The hot oil is removed from the loop when the SUN RPEC cartridge is set below the hydrostatic charge pressure relief valve.

<table>
<thead>
<tr>
<th>Mounting Hole Dimensions</th>
<th>Ports 1 &amp; 2</th>
<th>Port T</th>
<th>Gage Port</th>
<th>ALUMINUM</th>
<th>DUCTILE IRON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>Code 62</td>
<td>SAE-10</td>
<td>SAE-6</td>
<td>4</td>
<td>4/S</td>
</tr>
<tr>
<td>Metric</td>
<td>Code 62</td>
<td>.50</td>
<td>BSPP 25 BSPP</td>
<td>4/M</td>
<td>4/T</td>
</tr>
</tbody>
</table>

*For part number and price for body only contact your local SUN distributor.

These SUN valve assemblies are for use in bleeding hot oil from the low pressure side of a hydrostatic transmission circuit. The hot oil can be cooled, filtered, or used as a source of oil for flushing other pump and motor cases. The hot oil is removed from the loop when the SUN RPEC cartridge is set below the hydrostatic charge pressure relief valve.

**OPTIONS**

**XRFC – LNN – A**

**CARTRIDGE**

RPEC  Pg 1.06

For Viton Seals Change LNN to LNV.

**PORTS**

Customer Specified Setting

Stamped on Hex

See Chart above

Typical Hot Oil

Relief/Shuttle Performance

1.00” SAE Code 61

4–Bolt Flange Pattern

4 places.

Mounting Holes:

(opposite side)

Inch: .375-16 UNC-2B

x .62 deep.

Metric: M10 x 1.50-6H

x .62 deep.

4 places.
HOT OIL SHUTTLE AND RELIEF ASSEMBLY
INLINE BODY

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- Hot oil pressure can be confirmed and/or set with transmission in neutral.

These SUN valve assemblies are for use in bleeding hot oil from the low pressure side of a hydrostatic transmission circuit. The hot oil can be cooled, filtered, or used as a source of oil for flushing other pump and motor cases. The hot oil is removed from the loop when the SUN RPEC cartridge is set below the hydrostatic charge pressure relief valve.

<table>
<thead>
<tr>
<th>Mounting Hole Dimensions</th>
<th>Ports 1 &amp; 2</th>
<th>Port T</th>
<th>Gage Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch SAE-16</td>
<td>SAE-12</td>
<td>SAE-6</td>
<td></td>
</tr>
<tr>
<td>Metric 1.00 BSPP .75 BSPP</td>
<td>25 BSPP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ALUMINUM</th>
<th>DUCTILE IRON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port Code</td>
<td>List Price*</td>
</tr>
<tr>
<td>M</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

*For part number and price for body only contact your local SUN distributor.

Typical Hot Oil Relief/Shuttle Performance

Mounting Holes:
(opposite side)
Inch: .375-16 UNC-2B x .62 deep.
Metric: M10 x 1.50-6H x .62 deep.
2 places.

RPGC-LNN

Options

XRHC – LNN – A*

Cartridge
RPGC Pg 1.06
For Viton Seals Change LNN to LNV.

Customer Specified Setting
Stamped on Hex

Ports
See Chart above
HOT OIL SHUTTLE AND RELIEF ASSEMBLY
1.25” SAE FLANGE PORT BODY

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- Hot oil pressure can be confirmed and/or set with transmission in neutral.

<table>
<thead>
<tr>
<th>Mounting Hole Dimensions</th>
<th>Ports 1 &amp; 2</th>
<th>Port T</th>
<th>Gage Port</th>
<th>ALUMINUM</th>
<th>DUCTILE IRON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>Code 61</td>
<td>SAE-12</td>
<td>SAE-6</td>
<td>Q</td>
<td>Q/S</td>
</tr>
<tr>
<td>Metric</td>
<td>Code 61</td>
<td>.75 BSPP</td>
<td>.25 BSPP</td>
<td>Q/M</td>
<td>Q/T</td>
</tr>
</tbody>
</table>

*For part number and price for body only contact your local SUN distributor.

These SUN valve assemblies are for use in bleeding hot oil from the low pressure side of a hydrostatic transmission circuit. The hot oil can be cooled, filtered, or used as a source of oil for flushing other pump and motor cases. The hot oil is removed from the loop when the SUN RPEC cartridge is set below the hydrostatic charge pressure relief valve.

Mounting Holes:
- (opposite side)
- Inch: 0.375-16 UNC-2B x .62 deep.
- Metric: M10 x 1.50-6H x .62 deep.

For part number and price for body only contact your local SUN distributor.

Inch: 0.375-16 UNC-2B x .62 deep.
Metric: M10 x 1.50-6H x .62 deep.

4 places.

1.25” SAE Code 61
4–Bolt Flange Pattern
4 places.

OPTIONS
XRHC – LNN – A*

CARTRIDGE
RPGC Pg 1.06
For Viton Seals Change LNN to LNV.

Customer Specified Setting
Stamped on Hex

PORTS
See Chart above
HOT OIL SHUTTLE AND RELIEF ASSEMBLY
INLINE BODY

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- Hot oil pressure can be confirmed and/or set with transmission in neutral.

These SUN valve assemblies are for use in bleeding hot oil from the low pressure side of a hydrostatic transmission circuit. The hot oil can be cooled, filtered, or used as a source of oil for flushing other pump and motor cases. The hot oil is removed from the loop when the SUN RPEC cartridge is set below the hydrostatic charge pressure relief valve.

### Mounting Hole Dimensions

<table>
<thead>
<tr>
<th>Port Code</th>
<th>List Price*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>SAE-20</td>
</tr>
<tr>
<td>Metric</td>
<td>1.25 BSPP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port Code</th>
<th>List Price*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port T</td>
<td>SAE-16</td>
</tr>
<tr>
<td>Metric</td>
<td>1.00 BSPP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port Code</th>
<th>List Price*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage</td>
<td>SAE-6</td>
</tr>
<tr>
<td>Metric</td>
<td>25 BSPP</td>
</tr>
</tbody>
</table>

*For part number and price for body only contact your local SUN distributor.

### Typical Hot Oil Relief/Shuttle Performance

**Mounting Holes:**

- **Inch:** .375-16 UNC-2B x .62 deep.
- **Metric:** M10 x 1.50-6H x .62 deep.

### OPTIONS

**XRJC - LNN - A**

<table>
<thead>
<tr>
<th>CARTRIDGE</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPIC</td>
<td>See Chart above</td>
</tr>
<tr>
<td>Pg 1.07</td>
<td>Stamped on Hex</td>
</tr>
<tr>
<td>For Viton Seals Change LNN to LNV.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Customer Specified Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stamped on Hex</td>
</tr>
</tbody>
</table>

**URIC Pg 1.07**

For Viton Seals Change LNN to LNV.

*For part number and price for body only contact your local SUN distributor.*
HOT OIL SHUTTLE AND RELIEF ASSEMBLY
1.50” SAE FLANGE PORT BODY

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- Hot oil pressure can be confirmed and/or set with transmission in neutral.

These SUN valve assemblies are for use in bleeding hot oil from the low pressure side of a hydrostatic transmission circuit. The hot oil can be cooled, filtered, or used as a source of oil for flushing other pump and motor cases. The hot oil is removed from the loop when the SUN RPEC cartridge is set below the hydrostatic charge pressure relief valve.

Mounting Hole Dimensions | Ports 1 & 2 | Port T | Gage Port | ALUMINUM | DUCTILE IRON
--- | --- | --- | --- | --- | ---
Inch | Code 61 | SAE-16 | SAE-6 | Port | List Price* | Port Code | List Price*
Metric | Code 61 | 1.00 BSPP | .25 BSPP | R | R/S | R/M | R/T

*For part number and price for body only contact your local SUN distributor.
HOT OIL SHUTTLE AND RELIEF ASSEMBLY
2.00” SAE FLANGE PORT BODY

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- Hot oil pressure can be confirmed and/or set with transmission in neutral.

<table>
<thead>
<tr>
<th>Mounting Hole Dimensions</th>
<th>Ports 1 &amp; 2</th>
<th>Port T</th>
<th>Gage Port</th>
<th>ALUMINUM</th>
<th>DUCTILE IRON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>Code 61</td>
<td>SAE-16</td>
<td>SAE-6</td>
<td>S</td>
<td>S/S</td>
</tr>
<tr>
<td>Metric</td>
<td>Code 61</td>
<td>1.00 BSPP</td>
<td>.25 BSPP</td>
<td>S/M</td>
<td>S/T</td>
</tr>
</tbody>
</table>

*For part number and price for body only contact your local SUN distributor.

These SUN valve assemblies are for use in bleeding hot oil from the low pressure side of a hydrostatic transmission circuit. The hot oil can be cooled, filtered, or used as a source of oil for flushing other pump and motor cases. The hot oil is removed from the loop when the SUN RPIC cartridge is set below the hydrostatic charge pressure relief valve.

Mounting Holes:
(opposite side)
Inch: .375-16 UNC-2B x .62 deep.
Metric: M10 x 1.50-6H x .62 deep.
4 places.

<table>
<thead>
<tr>
<th>Mounting Hole Dimensions</th>
<th>Ports 1 &amp; 2</th>
<th>Port T</th>
<th>Gage Port</th>
<th>ALUMINUM</th>
<th>DUCTILE IRON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>Code 62</td>
<td>SAE-16</td>
<td>SAE-6</td>
<td>8</td>
<td>8/S</td>
</tr>
<tr>
<td>Metric</td>
<td>Code 62</td>
<td>1.00 BSPP</td>
<td>.25 BSPP</td>
<td>8/M</td>
<td>8/T</td>
</tr>
</tbody>
</table>

*For part number and price for body only contact your local SUN distributor.

Typical Hot Oil Relief/Shuttle Performance

Options
XRJC - LNN - A*

Cartridge
RPIC
Pg 1.07
For Viton Seals Change LNN to LNV.
Customer Specified Setting
Stamped on Hex

Ports
See Chart above