**1T162W6S - Pressure Intensifier**

**Hydraulic Integrated Circuits**

**Description**
This valve is used to convert low input pressure from a small low pressure pump or sub-circuit to high pressure up to 700 bar (10000 psi) and can eliminate the need for high pressure pump, or high-low type circuit. It is best suited for use with low horsepower, variable volume pumps. Contact main office for full specifications.

**Operation**
The pressure intensifier allows free flow of oil through the inlet to the actuator until high pressure is required, then reciprocates to intensify the pressure with a ratio of 6.5:1 between the inlet pressure and the intensified pressure up to a maximum 700 bar. The unit automatically makes up for any leakage to prevent loss of pressure during clamping or cutting operations. The flow to the P port should be regulated to prevent a too rapid cycle rate.

**Features**
Eliminates the need for single stroke air/oil systems. Continuous automatic make up for leakage. Light weight and compact. Reliable high quality.

**Max Pressure:**
- Inlet: 110 bar (1600 psi)
- Output: 700 bar (10,000 psi)

**Rated Flow:**
- Inlet: 1.5 L/min (0.4 USgpm)
- Output: 165 mL/min (10 in3/min)

**Dimensions**

<table>
<thead>
<tr>
<th>mm (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torque cartridge in aluminum housing</td>
</tr>
</tbody>
</table>

**Installation Drawing**

**Functional Symbol**

**Model Code**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1T16 - Intensifier</td>
<td>2W - 1/4&quot; BSP</td>
<td>Pressure Intensification Ratio</td>
<td>Seals</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

- **Basic code**: 1T16 - Intensifier
- **Port sizes**: 2W - 1/4" BSP
- **Pressure Intensification Ratio**: 6 - 6:5:1
- **Seals**:
  - S - Nitrile (for use with most industrial hydraulic oils)
  - SV - Viton (for high temperature & most special fluid applications)

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.