DESCRIPTION

OPERATION
The DF-TCS allows pressure compensated flow from (1) to (2) regulated the pressure present at (3). Pressure differential between (1) and (3) is fixed at 8/24 bar (according to the pressure settings). These are minimum values increasing with the flow because of the pressure drop through the valve (see graph).

FEATURES
• Hardened parts for long life.
• Industry common cavity.

HYDRAULIC SYMBOL

Pressure compensator for 2 way flow control, typically used with an external orifice inline with port (3). Port (1) should sense upstream pressure of orifice.

VALVE SPECIFICATIONS
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Flow</td>
<td>10 GPM (38 LPM)</td>
</tr>
<tr>
<td>Rated Operating Pressure</td>
<td>3500 PSI (241 bar)</td>
</tr>
<tr>
<td>Typical Internal Leakage (150 SSU)</td>
<td>35 ml/min @ 250 bar</td>
</tr>
<tr>
<td>Viscosity Range</td>
<td>36 to 3000 SSU (3 to 647 cSt)</td>
</tr>
<tr>
<td>Filtration</td>
<td>ISO 18/16/13</td>
</tr>
<tr>
<td>Media Operating Temp. Range</td>
<td>-40° to 250°F (-40° to 120°C)</td>
</tr>
<tr>
<td>Weight</td>
<td>.35 lbs (.16 kg)</td>
</tr>
<tr>
<td>Operating Fluid Media</td>
<td>General Purpose Hydraulic Fluid</td>
</tr>
<tr>
<td>Cartridge Torque Requirements</td>
<td>33 ft-lbs (45 Nm)</td>
</tr>
<tr>
<td>Cavity</td>
<td>DELTA 3W</td>
</tr>
<tr>
<td>Cavity Tools Kit</td>
<td>(form tool, reamer, tap) 40500001</td>
</tr>
<tr>
<td>Seal Kit</td>
<td>210902026</td>
</tr>
</tbody>
</table>

PERFORMANCE
Actual Test Data (Cartridge Only)

Pressure Drop (bar) vs. Flow (lt/min)
For various pressure compensator settings (bar)

DF-TCS 008 - Flow (lt/min) vs. inlet pressure (bar)
For various orifice diameters (mm)

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DF-TCS 024 - Flow (lt/min) vs. inlet pressure (bar)
For various orifice diameters (mm)

Options:
- Buna Standard 00
- Viton Standard V0

Dimensions:
- Inlet pressure (bar)
- Flow (lt/min)
- Control orifice Dia (mm)

Ordering Information:
- DF-TCS
- Options: 00 Buna Standard, V0 Viton Standard
- Bodies:
  - Blank Without Body
  - N 3/8" BSP Ports
  - S #6 SAE Ports

Pressure Settings:
- 008 8 bar (115 PSI)
- 024 24 bar (340 PSI)

Differential Pressure Across External Controlling Orifice