**DF-PCE  ADJUSTABLE PRESSURE COMPENSATING VALVE, BYPASS TYPE**

**DESCRIPTION**
10 size, 7/8-14 thread, “Delta” series, spring adjustable pressure compensating valve, bypass type.

**OPERATION**
The DF-PCE with an external orifice in parallel with ports (3) and (1) maintains a constant flow rate across the external orifice, regardless of load pressure changes in the system upstream of (3), or in the bypass leg at (2) as long as pressure at (2) is greater than (1). The valve’s spool maintains a constant differential pressure across an external orifice, thereby regulating the hydraulic flow rate across this external orifice (see table for pressure ranges). When used with an orifice as described above, it functions as a bypass type regulator, delivering pump flow through the external orifice.

**FEATURES**
- Hardened parts for long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**

Can be used as an adjustable logic element. Great as an adjustable pressure setting regulation device in brake, transmission & cooling systems, because the spring chamber is separately drained, the outlet can be used for lower pressure functions. For fixed version see DF-PCR-0P. For higher spring differential pressure ranges consult factory.

**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>Seat Ratio</td>
<td>Area of Pilot is equal to the area at Port (3)</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>.52 lbs (.23 kg)</td>
</tr>
<tr>
<td>Operating Fluid Media</td>
<td>General Purpose Hydraulic Fluid</td>
</tr>
<tr>
<td>Cartridge Torque Requirements</td>
<td>30 fl-lbs (40.6 Nm)</td>
</tr>
<tr>
<td>Cavity</td>
<td>DELTA 3W</td>
</tr>
<tr>
<td>Cavity Form Tool (Finishing)</td>
<td>40500001</td>
</tr>
<tr>
<td>Seal Kit</td>
<td>21191210</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

Actual Test Data (Cartridge Only)

300 PSI setting/Regulated Flow vs Inlet Pressure

- **Inlet Pressure (bar)**: 0, 50, 100, 150, 200
- **Regulated Flow (GPM)**: 0, 6, 2, 4, 8

**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
DIMENSIONS

ORDERING INFORMATION

DF-PCE

OPTIONS

Buna Standard 00
Viton Standard V0
Buna, Knob 0K
Viton, Knob VK
Buna, Internal Adjust 0I
Viton, Internal Adjust VI
Buna, Tamper Proof 0T
Viton, Tamper Proof VT

BODIES

Blank Without Body
N 1/4" NPTF Ports
S #6 SAE Ports

PRESSURE RANGE

0300

100 - 300 PSI

Differential Pressure Across
External Controlling Orifice

Tamper Proof
Fill in 4 Digit Pressure Setting
Example: 0200 - 200 PSI

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