**DF-CP2 PRESSURE COMPENSATING/REDUCING VALVE**

### DESCRIPTION


### OPERATION

The DF-CP2 allows pressure compensated flow from (2) to (3) regulated by the pressure present at (1). Pressure differential between (3) and (1) is fixed at 8/14/18 bar (according to the pressure settings). These are minimum values, increasing with the flow because of the pressure drop through the valve (see graph). When used with (1) connected to a drain line, it works as pressure reducing valve.

### FEATURES

- Hardened parts for long life.
- Industry common cavity.
- Spring range 8 to 18 bar.

**HYDRAULIC SYMBOL**

- (1) inlet
- (2) outlet
- (3) pressure

**VALVE SPECIFICATIONS**

- Nominal Flow: 8 GPM (30 LPM)
- Rated Operating Pressure: 3500 PSI (241 bar)
- Typical Internal Leakage: 35 ml/min @ 250 bar
- Viscosity Range: 36 to 3000 SSU (3 to 647 cSt)
- Filtration: ISO 18/16/13
- Media Operating Temp. Range: -25° to +95°C
- Weight: .35 lbs (.16 kg)
- Operating Fluid Media: General Purpose Hydraulic Fluid
- Cartridge Torque Requirements: 33 ft-lbs (45 Nm)
- Cavity: DELTA 3W
- Cavity Tools Kit: (form tool, reamer, tap) 40500001
- Seal Kit: 210902025

**PERFORMANCE**

Actual Test Data (Cartridge Only)

**PRESSURE DROP (bar) vs. FLOW (lt/min)**

*For various pressure compensator settings (bar)*

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**DF-CP2 008 - Flow (lt/min) vs. Inlet pressure (bar)**

*For various orifice diameters (mm)*

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**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**

**DF-CP2 014 - Flow (lt/min) vs. inlet pressure (bar)**
*For various orifice diameters (mm)*

**DF-CP2 018 - Flow (lt/min) vs. inlet pressure (bar)**
*For various orifice diameters (mm)*

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>DF-CP2</th>
<th>OPTIONS</th>
<th>BODIES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Buna Standard 00</td>
<td>Blank  Without Body</td>
</tr>
<tr>
<td></td>
<td>Viton Standard V0</td>
<td>N  3/8” BSP Ports</td>
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<tr>
<td></td>
<td></td>
<td>S  #6 SAE Ports</td>
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</tbody>
</table>

**PRESSURE SETTINGS**

- 008 8 bar (115 PSI)
- 014 14 bar (200 PSI)
- 018 18 bar (260 PSI)

Differential Pressure Across
External Controlling Orifice

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