**MECHANICAL PRESSURE CONTROLS**

**DG-TCB  PRESSURE COMPENSATING VALVE, RESTRICTIVE TYPE WITH BYPASS**

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

**OPERATION**
The DG-TCB allows pressure compensated or proportional flow from (1) to (2) regulated by the pressure differential across (1) and (4) with a bypass of (4) to (3). The spring chamber is constantly connected at (1).

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

---

**HYDRAULIC SYMBOL**

![Hydraulic Symbol Diagram]

**PERFORMANCE**
Actual Test Data (Cartridge Only)

---

**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</td>
<td>.05 cu in/min (82 ml/min) per path</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>.38 lbs (.17 kg)</td>
</tr>
<tr>
<td>Operating Fluid Media</td>
<td>General Purpose Hydraulic Fluid</td>
</tr>
<tr>
<td>Cartridge Torque Requirements</td>
<td>30 ft-lbs (40.6 Nm)</td>
</tr>
<tr>
<td>Cavity</td>
<td>DELTA 4W</td>
</tr>
<tr>
<td>Cavity Tools Kit</td>
<td>40500002</td>
</tr>
<tr>
<td>Seal Kit</td>
<td>21191214</td>
</tr>
</tbody>
</table>

**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.

---

**Tecnord**

Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512

mail: tecnord@tecnord.com • www.tecnord.com

---

Delta Power Company

4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6268 • Fax +1 (815) 397-2526

mail: delta@delta-power.com • www.delta-power.com
DIMENSIONS

Prior to implementation of 1500 - 1700 PSI into the 110° dia orifice, 10 GPM supply not intended for differential pressure > 1500 PSI to port 3

ORDERING INFORMATION

DG-TCB - - - -

OPTIONS
Buna Standard 00
Viton Standard V0

BODIES
Blank Without Body
N 3/8” BSP Ports
S #6 SAE Ports

PRESSURE SETTINGS
014 14 bar (200 PSI)
020 20 bar (285 PSI)
032 32 bar (460 PSI)

Differential Pressure Across
External Controlling Orifice

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.

Delta Power Company
4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
mail: delta@delta-power.com • www.delta-power.com

TECNORD •
Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
mail: tecnord@tecnord.com • www.tecnord.com