Typical Schematic

Typical application for the TCB is in a proportional circuit to achieve pressure compensated flow control. The pressure compensator is located downstream of the proportional valve to achieve a pressure compensated flow control on the priority line, opening a secondary -pass line, when the differential pressure becomes too high, for all flow in excess of that demanded the control orifice.
**DG-TCB Pressure Compensating Valve, Restrictive Type With -pass**

**DESCRIPTION**

**OPERATION**
The DG-PCB allows pressure compensated or proportional flow from (1) to (2) regulated the pressure differential across (1) and (4) with a pass of (4) to (3).

The spring chamber is constantly connected at (1).

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

**HYDRAULIC SYMBOL**
-pass line (3) can be pressurized.

**PERFORMANCE**
Actual Test Data (Cartridge Only with 150 PSI Spring)

**VALVE SPECIFICATIONS**
- Nominal Flow: 10 GPM (38 LPM)
- Rated Operating Pressure: 3500 PSI (245 bar)
- Typical Internal Leakage: 5 cu in/min (82 ml/min) per path
- Viscosity Range: 36 to 3000 SSU (3 to 647 cSt)
- Filtration: ISO 18/16/13
- Media Operating Temperature Range: -40° to 250° F (-40° to 120° C)
- Weight: .38 lbs. (.17 kg)
- Operating Fluid Media: General Purpose Hydraulic Fluid
- Cartridge Torque Requirements: 30 ft-lbs (40.6 Nm)
- Cavity: DELTA 4W
- Cavity Tools kit (form tool, reamer, tap): 40500002
- Seal Kit: 21191214

**WARNING:** The specifications/application data shown in our catalogs and data sheets is 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.

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