**MECHANICAL PRESSURE CONTROLS**

**DG-PCB**  PRESSURE COMPENSATING VALVE, RESTRICTIVE TYPE WITH BY-PASS

**DESCRIPTION**

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

**OPERATION**

The DG-PCB 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 long life.
- Industry common cavity.

**HYDRAULIC SYMBOL**

![Hydraulic Symbol]

**PERFORMANCE**

Actual Test Data (Cartridge Only with 150 PSI Spring)

10 GPM Supply flow, .110” Orifice, 150 PSI spring  
15 GPM Supply flow, .156” Orifice, 150 PSI spring - 1500 PSI load on port (3)

**VALVE SPECIFICATIONS**

Nominal Flow 10 GPM (38 LPM)  
Rated Operating Pressure 3500 PSI (241 bar)  
Typical Internal Leakage (150 SSU) 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 Temp. 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 Form Tool (Finishing)  40500002  
Seal Kit 21191214

Priority port (2) load: 1500-1700 PSI, .156” dia orifice, 10 GPM supply not intended for differential pressure > 1500 PSI from (4) to (3). Consult Factory for abrupt pressure change applications that exceed 1500 PSI, for alternative products.

**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.

**DG-PCB** is not intended for differential pressure more than 1500 PSI from (4) to (3). Consult Factory for abrupt pressure change applications that exceed 1500 PSI, for alternative products.
### ORDERING INFORMATION

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Differential Pressure Across External Controlling Orifice

**Body Weight**: .99 lbs (.45 kg)