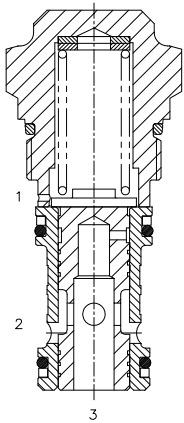


**QC-CP2 PRESSURE COMPENSATING/REDUCING VALVE**



**DESCRIPTION**

Special cavity, 2 ways pressure compensating/reducing valve.

**OPERATION**

The QC-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 8/14/18/24 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 a fix setting pressure reducing valve.

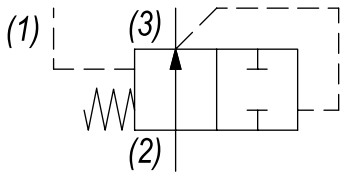
**FEATURES**

- Hardened parts for long life.
- Spring range 8 to 24 bar.



Pressure compensator for 2 way flow control, typically used with an external orifice inline with port (3). Port (1) should sense upstream pressure of orifice.

**HYDRAULIC SYMBOL**



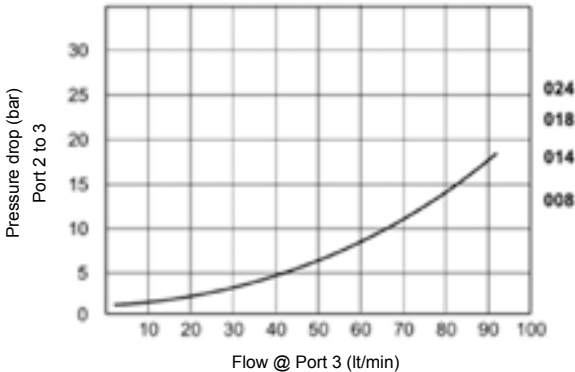
**PERFORMANCE**

Actual Test Data (Cartridge Only)

**VALVE SPECIFICATIONS**

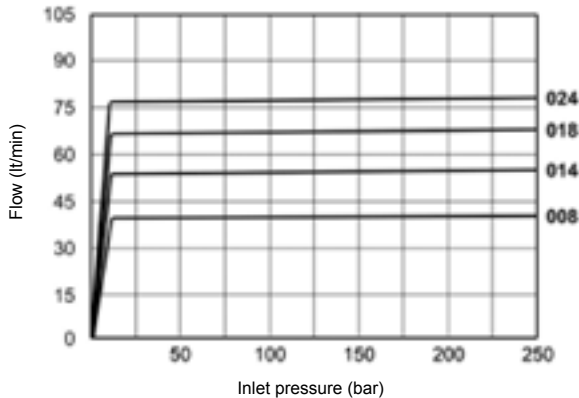
Nominal Flow	19 GPM (70 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Typical Internal Leakage (150 SSU)	35 ml/min @ 250 bar
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.35 lbs (.16 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	52 ft-lbs (70 Nm)
Cavity	T031 (Special)
Cavity Tools Kit (form tool, reamer, tap)	K-T031
Seal Kit	210902012

**Pressure drop (bar) vs. flow (lt/min)**



**Flow (lt/min) vs. inlet pressure (bar)**

For various press. compensator valve settings - Re: control orifice diameter: 5.5 mm



**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.

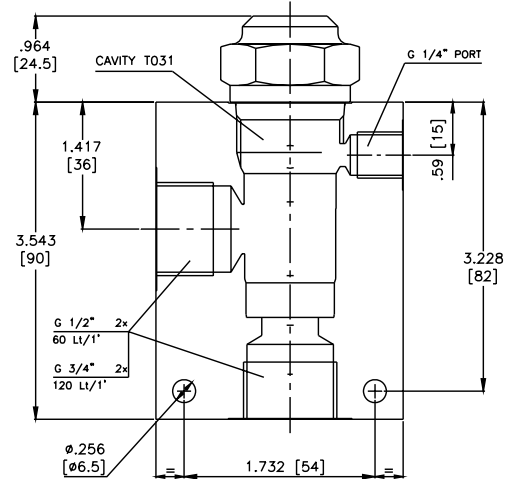
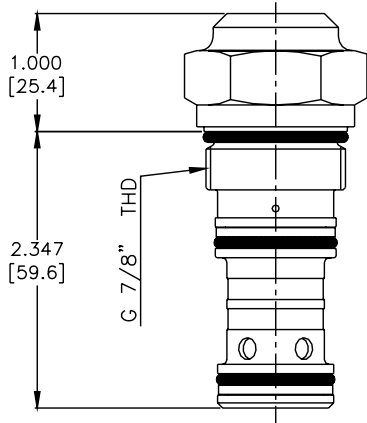
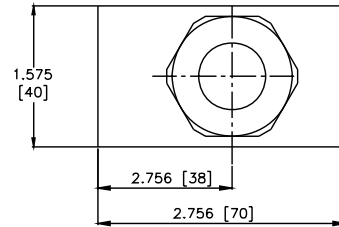
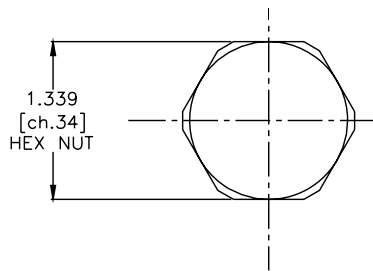


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**DIMENSIONS**



(for bodies style and sizes see section "Accessories")

**ORDERING INFORMATION**

QC-CP2 - - -

**OPTIONS**

Buna Standard **00**  
Viton Standard **V0**

**BODIES**

Blank Without Body  
**N** 1/2" BSP Ports  
**S** #8 SAE Ports

**PRESSURE SETTINGS**

**008** 8 bar (115 PSI)  
**014** 14 bar (200 PSI)  
**018** 18 bar (260 PSI)  
**024** 24 bar (340 PSI)

Differential Pressure Across  
External Controlling Orifice

W 12 / 2020

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