## CP312-1

Flow Control, Fixed, Pressure Compensated, Priority Type
210 bar [3000 psi] • $65 \mathrm{I} / \mathrm{min}$ [17 US gpm]

## DESCRIPTION AND OPERATION

This is a fixed, priority type, pressure compensated flow control valve, where the flow from port 3 will remain constant regardless of the pressure difference across the valve, while excess flow passes from port 1 to 2 . Flow enters at port 1 and passes across a fixed orifice in the spool, which creates a pressure drop. This causes the spool to move back against the spring, which then restricts the outlet flow. Port 1 then opens to port 2 to allow excess flow to pass. The regulated flow will always take priority and remains constant if the working pressure is higher in either port 2 or port 3.

## ■SCHEMATIC


$\square$ PERFORMANCE DATA

| Rated pressure | 210 bar [3000 psi] |
| :---: | :---: |
| Rated flow | $65 \mathrm{I} / \mathrm{min}$ [17 US gpm] |
| Max inlet flow | $130 \mathrm{I} / \mathrm{min}$ [34 US gpm] |
| Flow range | 1.9-64.3 $/$ /min [0.5-17 US gpm] |
| Flow accuracy | $\begin{aligned} & \text { 1.9-7.5I/min }[0.5-2 \text { US gpm }] \pm 15 \% \\ & 7.6-64.3 \mathrm{I} / \mathrm{min}[2-17 \mathrm{US} \mathrm{gpm}] \pm 10 \% \end{aligned}$ |
| Weight | $0.53 \mathrm{~kg}[1.17 \mathrm{lb}]$ |
| Cavity | SDC16-3 |



DIMENSIONS
mm [in]

- PERFORMANCE CURVES


## Flow Compensation



MODEL CODE


