## CP311-1

Flow Control, Fixed, Pressure Compensated, Priority Type
210 bar [3000 psi] • $45 \mathrm{I} / \mathrm{min}$ [12 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



DIMENSIONS


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PERFORMANCE CURVES
Flow Compensation


| Rated pressure | 210 bar [3000 psi] |
| :---: | :---: |
| Rated flow | $45 \mathrm{I} / \mathrm{min}$ [12 US gpm] |
| Max inlet flow | $95 \mathrm{I} / \mathrm{min}[25 \mathrm{US} \mathrm{gpm}]$ |
| Flow range | 1.9-45.41/min [0.5-12 US gpm] |
| Flow accuracy | $\begin{array}{r} 1.9-7.5 \mathrm{I} / \mathrm{min}[0.5-1.99 \mathrm{US} \mathrm{gpm}] \pm 15 \% \\ 7.6-45.4 \mathrm{I} / \mathrm{min}[2-12 \mathrm{US} \mathrm{gpm}] \pm 10 \% \\ \hline \end{array}$ |
| Weight | $0.28 \mathrm{~kg}[0.61 \mathrm{lb}]$ |
| Cavity | CP12-3 |

MODEL CODE


