

**VALVE APPLICATION & FUNCTION**

* Counterbalance valves are internally piloted: the pilot port is plugged, and the valve has a small channel connecting both sides
* When air is supplied to the other side of the cylinder (retract side), advance side will vent only after pilot signal is energized from pressure buildup on the advance
* Prevents runaway for vertical cylinders with load
* Can hold load in the middle of cylinder stroke
* Allow cylinder to travel at higher speeds
* Tightening the adjusting screw will increase spring tension holding the valve closed, making the valve more responsive

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| **TECHNICAL DATA** |
| *Part Number:* | B81C00 | B81C0M | B81CFM |
| *Button Type:* | None | Standard | Flush |
| *Port Sizes:* | 1/2” NPTF IN/OUT |
| *Pilot Port:* | N/A |
| *Max. Pressure:* | 120 psi |
| *Leak Rate:* | .0000522 cc/min |
| *Temp. Range:* | 30° – 150° F  |
| *Cycle Rate:* | 1 cyc./sec. max. |
| *Flow Capacity:* | 3.8 (Cv) |
| *Cracking Press:* | 1-2 psi |
| *Service:* | Filtered dry air or lubricated air |

*For high temp seals (30*°*-350*° *F) add (-V) to the model*

*For low temp seals (-40*°*-150*° *F) add (-T40) to the model*

*For a lower pilot pressure add (-K18) to the model*

*(ex. B81CXX-T40)*





 