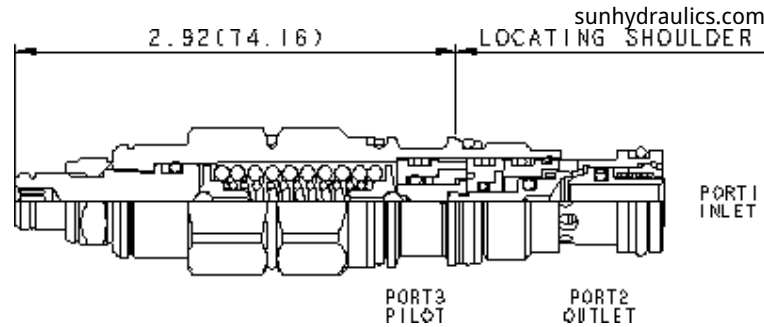


3-Port Atmospherically Referenced


sunhydraulics.com/model/CACL

CONFIGURATION

| | | |
|--------------------------------|--------------------------|--|
| L | Control | Standard Screw Adjustment |
| G | Functional Setting Range | 2000 - 6000 psi (140 - 420 bar), 4000 psi (280 bar) Standard Setting |
| N | Seal Material | Buna-N |
| (none) Material/Coating | | |

Atmospherically vented counterbalance valves with pilot assist are meant to control an overrunning load. The check valve allows free flow from the directional valve (port 2) to the load (port 1) while a direct-acting, pilot-assisted relief valve controls flow from port 1 to port 2. Pilot assist at port 3 lowers the effective setting of the relief valve at a rate determined by the pilot ratio. Backpressure at port 2 does not affect the valve setting because the spring chamber is atmospherically referenced.

Other names for this valve include motion control valve and over-center valve.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| | |
|---|-------------------------|
| Pilot Ratio | 2:1 |
| Maximum Recommended Load Pressure at Maximum Setting | 4615 psi |
| Maximum Setting | 6000 psi |
| Factory Pressure Settings Established at | 2 in ³ /min. |
| Maximum Valve Leakage at Reseat | 5 drops/min. |
| Check Cracking Pressure | 40 psi |
| Adjustment - No. of CCW Turns from Min. to Max. Setting | 5 |
| Reseat | >85% of setting |
| Locknut Hex Size | 9/16 in. |
| Locknut Torque | 80 - 90 lbf in. |
| Seal kit - Cartridge | Buna: 990211007 |
| Seal kit - Cartridge | Viton: 990211006 |

CONFIGURATION OPTIONS

Model Code Example: CACLLGN

| CONTROL | (L) FUNCTIONAL SETTING RANGE (G) | SEAL MATERIAL | (N) MATERIAL/COATING |
|---|---|-----------------|-----------------------------|
| L Standard Screw Adjustment | G 2000 - 6000 psi (140 - 420 bar), 4000 psi (280 bar) Standard Setting | N Buna-N | Standard Material/Coating |
| C Tamper Resistant - Factory Set | F 1000 - 2500 psi (70 - 175 bar), 2000 psi (140 bar) Standard Setting | V Viton | /LH Mild Steel, Zinc-Nickel |