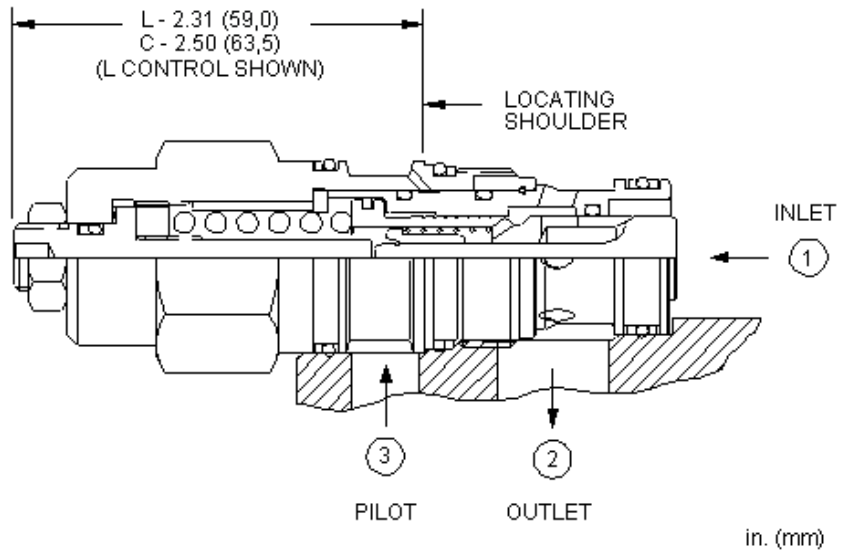
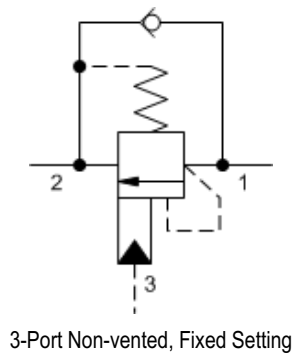
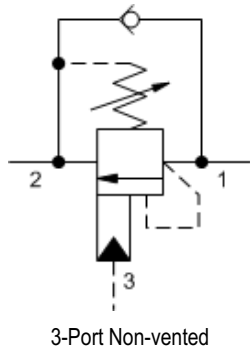




Counterbalance valves with pilot assist are meant to control an overrunning load. The check valve allows free flow from the directional valve (port 2) to the load (port 1) while a direct-acting, pilot-assisted relief valve controls flow from port 1 to port 2. Pilot assist at port 3 lowers the effective setting of the relief valve at a rate determined by the pilot ratio.

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                                             | 10:1                    |
| Maximum Recommended Load Pressure at Maximum Setting    | 270 bar                 |
| Maximum Setting                                         | 350 bar                 |
| Factory Pressure Settings Established at                | 30 cc/min.              |
| Maximum Valve Leakage at Reseat                         | 0,3 cc/min.             |
| Adjustment - No. of CCW Turns from Min. to Max. Setting | 3.75                    |
| Reseat                                                  | >85% of setting         |
| Locknut Hex Size                                        | 15 mm                   |
| Locknut Torque                                          | 9 - 10 Nm               |
| Seal kit - Cartridge                                    | Buna: 990202007         |
| Seal kit - Cartridge                                    | Polyurethane: 990002002 |
| Seal kit - Cartridge                                    | Viton: 990202006        |

## CONFIGURATION OPTIONS

### Model Code Example: CBEHLJN

| CONTROL                                 | (L) FUNCTIONAL SETTING RANGE                                                                                  | (J) SEAL MATERIAL | (N) MATERIAL/COATING            |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------|
| <b>L</b> Standard Screw Adjustment      | <b>J</b> 2000 - 5000 psi w/25 psi Check (140 - 350 bar w/ 1,7 bar Check), 3000 psi (210 bar) Standard Setting | <b>N</b> Buna-N   | Standard Material/Coating       |
| <b>C</b> Tamper Resistant - Factory Set | <b>C</b> 2000 - 5000 psi w/4 psi Check (140 - 350 bar w/ 0,3 bar Check), 3000 psi (210 bar) Standard Setting  | <b>V</b> Viton    | /AP Stainless Steel, Passivated |
|                                         | <b>D</b> 1000 - 2500 psi w/4 psi Check (70 - 175 bar w/ 0,3 bar Check), 2000 psi (140 bar) Standard Setting   |                   | /LH Mild Steel, Zinc-Nickel     |
|                                         | <b>K</b> 1000 - 2500 psi w/25 psi Check (70 - 175 bar w/ 1,7 bar Check), 2000 psi (140 bar) Standard Setting  |                   |                                 |