



CONFIGURATION

| | | |
|--------------------------------|--------------------------|---|
| L | Control | Standard Screw Adjustment |
| H | Functional Setting Range | 1000 - 4000 psi w/25 psi Check (70 - 280 bar w/ 1,7 bar Check), 3000 psi (210 bar) Standard Setting |
| N | Seal Material | Buna-N |
| (none) Material/Coating | | |

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 | 3:1 |
| Maximum Recommended Load Pressure at Maximum Setting | 215 bar |
| Maximum Setting | 280 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 | EPDM: 990202014 |
| Seal kit - Cartridge | Polyurethane: 990002002 |
| Seal kit - Cartridge | Viton: 990202006 |

CONFIGURATION OPTIONS

Model Code Example: CBEALHN

| CONTROL | (L) FUNCTIONAL SETTING RANGE | (H) SEAL MATERIAL | (N) MATERIAL/COATING |
|---|--|-------------------|---------------------------------|
| L Standard Screw Adjustment | H 1000 - 4000 psi w/25 psi Check (70 - 280 bar w/ 1,7 bar Check), 3000 psi (210 bar) Standard Setting | N Buna-N | Standard Material/Coating |
| C Tamper Resistant - Factory Set | A 1000 - 4000 psi w/4 psi Check (70 - 280 bar w/ 0,3 bar Check), 3000 psi (210 bar) Standard Setting | E EPDM | /AP Stainless Steel, Passivated |
| | B 400 - 1500 psi w/4 psi Check (28 - 105 bar w/ 0,3 bar Check), 1000 psi (70 bar) Standard Setting | V Viton | /LH Mild Steel, Zinc-Nickel |
| | I 400 - 1500 psi w/25 psi Check (28 - 105 bar w/ 1,7 bar Check), 1000 psi (70 bar) Standard Setting | | |