LCBEG/LCBEH

Counterbalance Valve Standard

DESCRIPTION

A cartridge-style standard capacity counterbalance valve

OPERATION

Counterbalance valves with pilot assist are meant for control on overrunning load. The check valve allows free flow from port ② to 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.

FEATURES

- Counterbalance valves should be set at least 1.3 times the maximum load induced pressure.
- Backpressure at port 2 adds to the effective relief setting at a ratio of 1 plus the pilot ratio times the backpressure.
- Reseat exceeds 85% of set pressure when the valve is standard set. Setting lower than the standard set pressure may result in lower reseat percentages.
- Factory pressure setting established at 30cc/min(2 in³/min).

SYMBOL

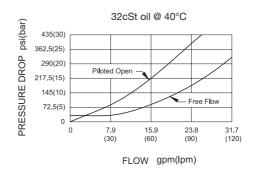


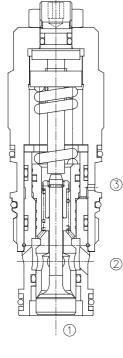
SPECIFICATIONS

| Max. Setting | | 350 bar(LCBEG,LCBEH) |
|--|---------------------|---------------------------------------|
| Max. Recommended Load Pressure at Max. Setting | | 270Bar (LCBEG,LCBEH) |
| Flow | See P | RESSURE DROP VS.FLOW graph. |
| Internal Leakage | | 5 drops/min. |
| Pilot Ratio | | (LCBEG) 4.5: 1; (LCBEH) 10:1 |
| Temperature | | -40°F to +250°F(-40°C to +120°C) |
| Filtration | | See page N-1 |
| Fluids | Mineral-based fluid | s with viscosities of 7.4 to 420 cSt. |
| Cavity | | SUN T-2A, See page M-6 |
| Housing Material | | |

6061-T6 aluminum alloy rated to 207bar, Steel & Ductile iron rated to 350bar

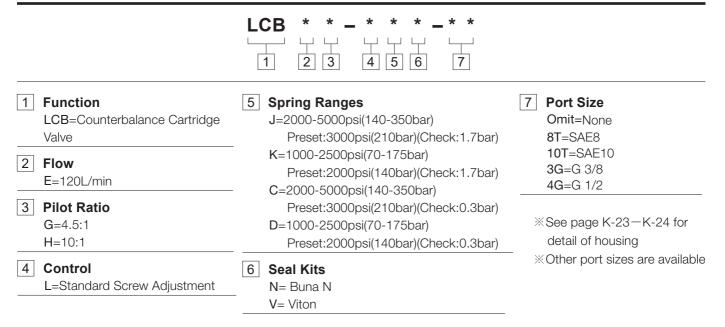
PRESSURE DROP VS.FLOW



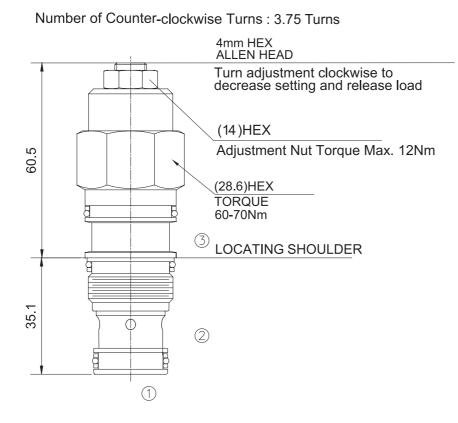




TO ORDER



INSTALLATION DIMENSIONS





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