

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

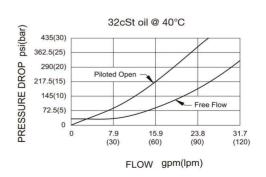


SPECIFICATIONS

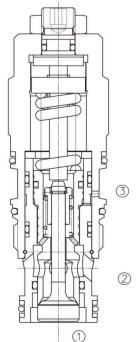
(Max. Setting):		280 bar
(Max. Recommended Load Pressure at Max. Setting):		215bar
(Flow):	See PRESSURE DROP V	S.FLOW graph.
(Internal Leakage):		5 drops/min
(Pilot Ratio):		3: 1
(Temperature):	-40°F to +250°F(-40°F)	0°C to +120°C)
(Filtration):		See page N-1
(Fluids):	Mineral-based fluids with viscosities of	7.4 to 420 cSt.
(Cavity):	SUN T-2A,	See page M-6
(Body Material):		

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

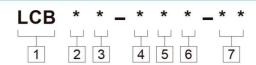
PRESSURE DROP VS.FLOW



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- LCB=
 Counterbalance Cartridge Valve
- 2 **Flow** E=120L/min
- 3 Pilot Ratio A=3:1
- 4 Control
 L=Standard Screw Adjustment

5 Spring Ranges H=1000-4000p

H=1000-4000psi(70-280bar)

Preset:3000psi(210bar)(Check:1.7bar)

I=400-1500psi(28-105bar)

Preset:1000psi(70bar)(Check:1.7bar)

A=1000-4000psi(70-280bar)

Preset:3000psi(210bar)(Check:0.3bar)

B=400-1500psi(28-105bar)

Preset:1000psi(70bar)(Check:0.3bar)

6 Seal Kits

N=Buna N

V = Viton

7 Body Porting

Blank=None

8T=SAE8

10T=SAE10

3G=G 3/8

4G=G 1/2

Other Porting is Available

INSTALLATION DIMENSIONS

Unit=Millimeters

