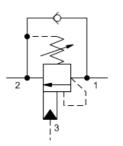


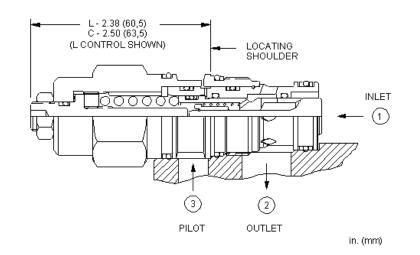
MODEL CBEB



CONFIGURATION

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

1.5:1 pilot ratio, standard capacity counterbalance valve CAPACITY: 120 L/min. | CAVITY: T-2A



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.

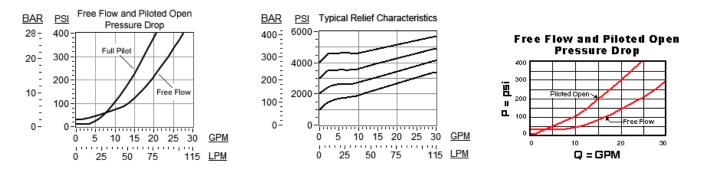
Cavity	T-2A
Series	2
Capacity	120 L/min.
Pilot Ratio	1.5:1
Maximum Recommended Load Pressure at Maximum Setting	215 bar
Maximum Setting	280 bar
Factory Pressure Settings Established at	30 cc/min.
Maximum Valve Leakage at Reseat	0,3 cc/min.
Adjustment - Number of Counterclockwise Turns to Increase Setting	3.75
Operating Characteristic	Standard
Reseat	>85% of setting
Valve Hex Size	28,6 mm
Valve Installation Torque	61 - 68 Nm
Adjustment Screw Internal Hex Size	4 mm
Adjustment Locknut/Cap Hex Size	15 mm
Adjustment Nut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990-202-007
Seal kit - Cartridge	Polyurethane: 990-002-00
Seal kit - Cartridge	Viton: 990-202-006
Model Weight	0.29 kg.



TECHNICAL FEATURES

- Counterbalance valves should be set at least 1.3 times the maximum load induced pressure.
- Turn adjustment clockwise to decrease setting and release load.
- Full clockwise setting is less than 200 psi (14 bar).
- 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. Settings lower than the standard set pressure may result in lower reseat percentages.
- Sun counterbalance cartridges can be installed directly into a cavity machined in an actuator housing for added protection and improved stiffness in the circuit.
- Two check valve cracking pressures are available. Use the 25 psi (1,7 bar) check unless actuator cavitation is a concern.
- This valve has positive seals between all ports.
- All 3-port counterbalance, load control, and pilot-to-open check cartridges are physically interchangeable (i.e. same flow path, same cavity for a given frame size).
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES



CONFIGURATION OPTIONS

	CONTROL		
Standard Options	с	Tamper Resistant - Factory Set	
	L	Standard Screw Adjustment	
	FUNCTIONAL SETTING RANGE		
Standard Options	Α	1000 - 4000 psi w/4 psi Check (70 - 280 bar w/0,3 bar Check), 3000 psi (210 bar) Standard Setting	
	В	400 - 1500 psi w/4 psi Check (28 - 105 bar w/0,3 bar Check), 1000 psi (70 bar) Standard Setting	
	н	1000 - 4000 psi w/25 psi Check (70 - 280 bar w/1,7 bar Check), 3000 psi (210 bar) Standard Setting	
	I.	400 - 1500 psi w/25 psi Check (28 - 105 bar w/1,7 bar Check), 1000 psi (70 bar) Standard Setting	
	SEAL MATERIAL		
Standard Options	Ν	Buna-N	
	V	Viton	
	MATERIAL/COATING		
Standard Options		Standard Material/Coating	
	/AP	Stainless Steel, Passivated	

RELATED MODELS

<u>CBEBX</u> Model

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