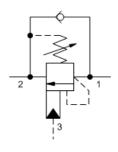
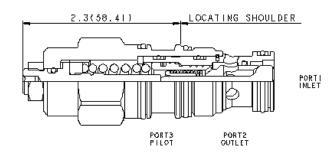


MODEL CBEG-LIN

4.5:1 pilot ratio, standard capacity counterbalance valve **CAPACITY:** 120 L/min. | **CAVITY:** T-2A





CONFIGURATION

L Control Standard Screw Adjustment

Functional 2000 - 5000 psi Setting Range w/25 psi Check (140 - 350 bar

w/1,7 bar Check), 3000 psi (210 bar) Standard Setting

N Seal Material Buna-N(none) Material/Coating Standar

Standard 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.

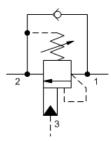
TECHNICAL DATA

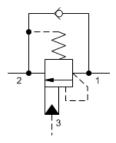
Cavity	T-2A	
Series	2	
Capacity	120 L/min.	
Pilot Ratio	4.5:1	
Maximum Recommended Load Pressure at Maximum Setting 270 bar		
Maximum Setting	350 bar	
Factory Pressure Settings Established at	30 cc/min.	
Maximum Valve Leakage at Reseat	0,3 cc/min.	
Adjustment - Number of Counterclockwise Turns to Increase 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: 990-002-002	
Seal kit - Cartridge	Viton: 990-202-006	

SYMBOLS

3-Port Non-vented

3-Port Non-vented, Fixed Setting

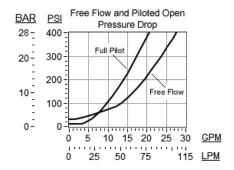


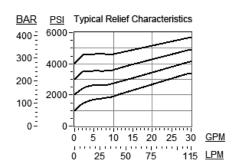


TECHNICAL FEATURES

- 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 does not have positive seals on the pilot section and will pass up to 2 in³/min.@1000 psi (32 cc/min.@70 bar) between port 2 and port 3. This is a consideration in master-slave circuits and in the leak testing of valve-cylinder assemblies.
- 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

Preferred Options	L	Standard Screw Adjustment	
Standard Options	С	Tamper Resistant - Factory Set	
	FUNCTI	ONAL SETTING RANGE	
Preferred Options	J	2000 - 5000 psi w/25 psi Check (140 - 350 bar w/1,7 bar Check), 3000 psi (210 bar) Standard Setting	
	С	2000 - 5000 psi w/4 psi Check (140 - 350 bar w/0,3 bar Check), 3000 psi (210 bar) Standard Setting	
Standard Options	D	1000 - 2500 psi w/4 psi Check (70 - 175 bar w/0,3 bar Check), 2000 psi (140 bar) Standard Setting	
	K	1000 - 2500 psi w/25 psi Check (70 - 175 bar w/1,7 bar Check), 2000 psi (140 bar) Standard Setting	
	SEAL M	ΓERIAL	
Preferred Options	N	Buna-N	
Standard Options	V	Viton	
	MATERI	AL/COATING	

Standard Material/Coating

Standard Options /AP Stainless Steel, Passivated

/LH Mild Steel, Zinc-Nickel

RELATED MODELS

CBEGX

Fixed setting, 4.5:1 pilot ratio, standard capacity counterbalance valve

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