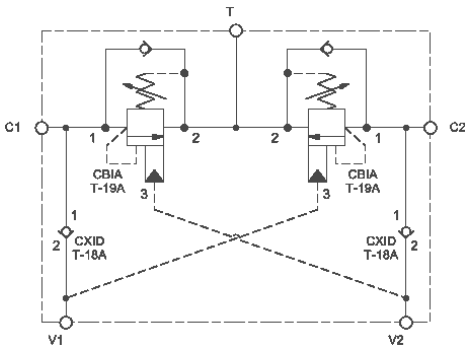
MODEL

YCJD

Cushion lock assembly

CAPACITY: 120 gpm

sunhydraulics.com/model/YCJD



This valve assembly provides overrunning load-control, load-port relief protection, supplies make-up oil, and flushes hot dirty oil out of the actuator. All oil coming out of the actuator returns to tank through port T.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Body Type	Line mount
Capacity	120 gpm
Mounting Hole Thread	.500-13 UNC - 2B in.
Mounting Hole Depth	.75 in.
Mounting Hole Quantity	4

CONFIGURATION

Control
Functional Setting Range
Seal Material
Pilot Ratio (4th Letter) of Primary Cartridge
Port and Material Designation

NOTES:

- ***Important:*** Carefully consider the maximum system pressure. The pressure rating of the manifold is dependent on the manifold material, with the port type/size a secondary consideration. Manifolds constructed of aluminum are not rated for pressures higher than 3000 psi (210 bar), regardless of the port type/size specified.
- For detailed information regarding the cartridges contained in this assembly, click on the models codes shown in the Included Components tab.

OPTION SELECTION EXAMPLE: YCJDHNAR

CONTROL	(L)
L	Standard Screw Adjustment
C	Tamper Resistant - Factory Set

FUNCTIONAL SETTING RANGE	(I)
I	400 - 1500 psi w/25 psi Check (28 - 105 bar w/ 1,7 bar Check), 1000 psi (70 bar) Standard Setting
A	1000 - 4000 psi w/4 psi Check (70 - 280 bar w/ 0,3 bar Check), 3000 psi (210 bar) Standard Setting
B	400 - 1500 psi w/4 psi Check (28 - 105 bar w/ 0,3 bar Check), 1000 psi (70 bar) Standard Setting
H	1000 - 4000 psi w/25 psi Check (70 - 280 bar w/ 1,7 bar Check), 3000 psi (210 bar) Standard Setting

SEAL MATERIAL	(V)
V	Viton
N	Buna-N

PRIMARY CARTRIDGE	(A)
A	3:1 (with CBIA primary cartridge, 3:1 pilot ratio, standard capacity counterbalance valve)
H	10:1 (with CBIH primary cartridge, 10:1 pilot ratio, standard capacity counterbalance valve)
G	4.5:1 (with CBIG primary cartridge, 4.5:1 pilot ratio, standard capacity counterbalance valve)

TECHNICAL FEATURES

- The counterbalance valves should be set at 1.3 times the maximum load induced pressure.
- The term cushion in the name Cushion Lock is a misnomer. Because the counterbalance valves play a dual role as load controls and work port reliefs they must be set too high to provide any real cushion. Deceleration can only be achieved by ramping down the input flow.
- This assembly is ideal for applications with long lines to the actuators. Mounting the assembly close to an actuator ensures that cool, clean oil will be supplied to the actuator and that the hot, dirty oil will go out the T port to the tank