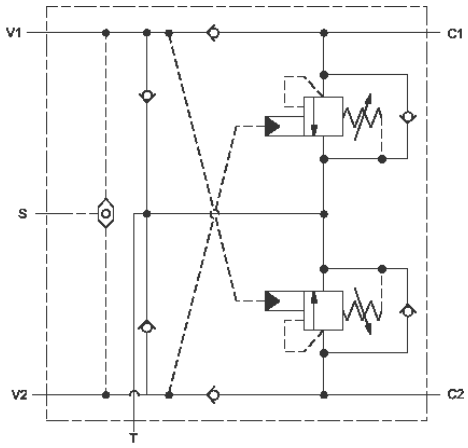
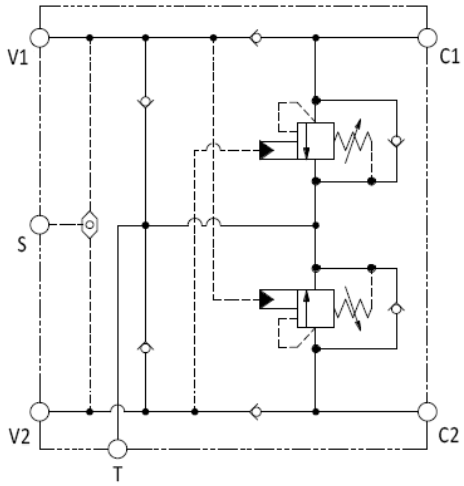
MODEL
YCGG

Cushion lock assembly with shuttle and anti-cavitation checks
CAPACITY: 60 gpm

sunhydraulics.com/model/YCGG





This valve assembly provides overrunning load-control and load-port relief protection and includes a load sense shuttle for brake release. Connecting the T port is optional and will supply make-up oil and may flush hot dirty oil out of the actuator. Oil coming out of the actuator may return to tank through either port T or the directional valve.

TECHNICAL DATA

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

Body Type	Line mount
Capacity	60 gpm
Mounting Hole Diameter	.53 in.
Mounting Hole Depth	Through
Mounting Hole Quantity	2

CONFIGURATION

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.

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

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OPTION SELECTION EXAMPLE: YCGGHNAN

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 CBGA primary cartridge, 3:1 pilot ratio, standard capacity counterbalance valve)
H	10:1 (with CBGH primary cartridge, 10:1 pilot ratio, standard capacity counterbalance valve)
G	4.5:1 (with CBGG 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.
- Low pilot ratio counterbalance valves (3:1 vrs 10:1) may be necessary to generate enough pressure to release a brake.
- Hydraulic motors leak. Therefore a mechanical brake is recommended to positively lock any stopped live load.
- These packages are also available as 3 letter manifolds. Look under counterbalance.

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