



The pressure sensitive regenerative valve assembly allows a double-acting, single rod cylinder to be extended more rapidly using the same pump flow. To achieve this, oil from the rod end of the cylinder is added to the pump flow to the blind end, increasing the rate of extension. It incorporates a pressure adjustable, counterbalance valve that provides a smooth transition when the load is engaged and pressure in the blind end rises to approximately 25% of the set point of the counterbalance valve, at which time the regenerative flow decreases smoothly until rod end flow is fully diverted to tank. Full pump pressure is then applied to the blind end area developing maximum force.

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

Body Type	Sandwich
Interface	ISO 03
Body Features	A to B or B to A
Seal Plate Included (see notes)	Yes
Stack Height	1.75 in.

- NOTES:**
- Customer to install locating pin (included) for functional orientation desired.
  - Stack height value in technical data table includes seal retainer plate.
  - For detailed information regarding the cartridges contained in this assembly, click on the models codes shown in the Included Components tab.
  - **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.

**CONFIGURATION OPTIONS**

Model Code Example: YDCALHNAA

CONTROL	(L) FUNCTIONAL SETTING RANGE	(H) SEAL MATERIAL	(N)
<b>L</b> Standard Screw Adjustment	<b>H</b> 1000 - 4000 psi w/25 psi Check (70 - 280 bar w/ 1,7 bar Check), 3000 psi (210 bar) Standard Setting	<b>N</b> Buna-N	
<b>C</b> Tamper Resistant - Factory Set	<b>A</b> 1000 - 4000 psi w/4 psi Check (70 - 280 bar w/ 0,3 bar Check), 3000 psi (210 bar) Standard Setting	<b>V</b> Viton	
	<b>B</b> 400 - 1500 psi w/4 psi Check (28 - 105 bar w/ 0,3 bar Check), 1000 psi (70 bar) Standard Setting		
	<b>I</b> 400 - 1500 psi w/25 psi Check (28 - 105 bar w/ 1,7 bar Check), 1000 psi (70 bar) Standard Setting		

**PRIMARY CARTRIDGE**

(A)

<b>A</b>	A (with CBCA primary cartridge, 3:1 pilot ratio, standard capacity counterbalance valve)
<b>A</b>	A (with CBCAX primary cartridge, Fixed setting, 3:1 pilot ratio, standard capacity counterbalance valve)

**INCLUDED COMPONENTS**

Part	Description	Quantity
500-001-012*	O-Ring	4
700-002*	Seal Plate	1
811-001-006*	Pin	1
850-004-218*	Plug	2
CBCALHN	Cartridge - Primary	1
CODAXEN	Cartridge	1