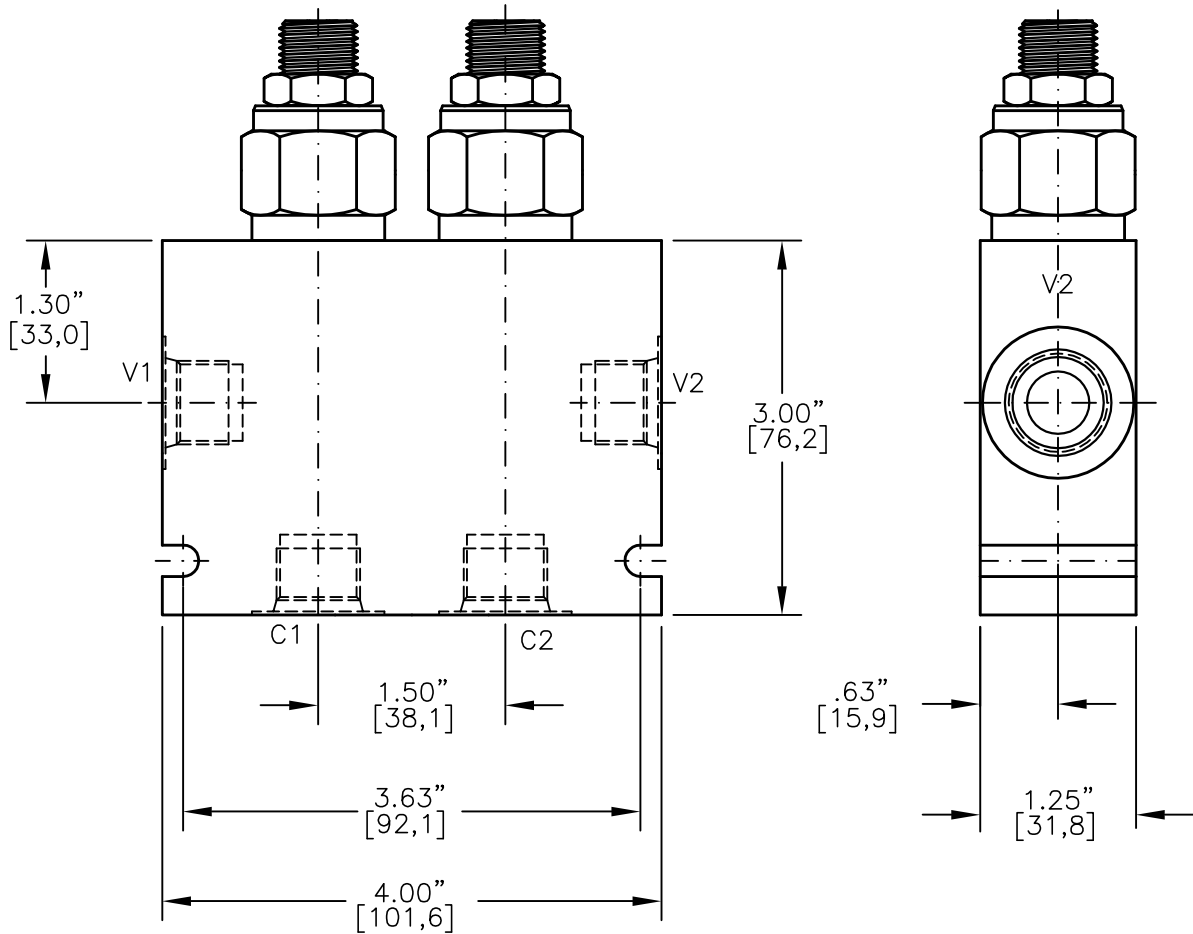
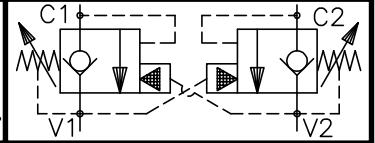




DUAL COUNTERBALANCE VALVE POPPET TYPE,  
FREE REVERSE FLOW WITH CROSS-LINE PILOTS.

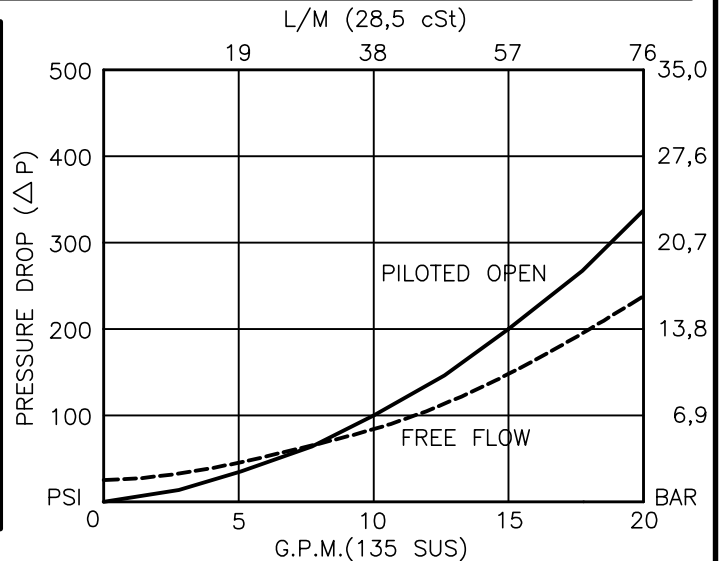


DCBA-10-X-X-X-XX

- BASIC
- SIZE  
10 = 7/8"-14 UNF
- SEALS  
N = BUNA "N"  
V = VITON
- ADJUSTMENT  
S = ADJUSTING SCREW  
C = CAPPED  
T = TAMPERPROOF

- PRESSURE RANGE  
15 = 100 TO 1500 PSI  
30 = 300 TO 3000 PSI  
50 = 500 TO 5000 PSI
- PORTS  
04BX = G 1/2" BSPP  
08TX = SAE - #8  
10TX = SAE - #10
- "A" - ALUM. HOUSING  
"S" - STEEL HOUSING

FOR ADJUSTMENT CONTROL  
OPTIONS SEE PAGE 0-050.0





## DUAL COUNTERBALANCE VALVE POPPET TYPE, FREE REVERSE FLOW WITH CROSS-LINE PILOTS.

### DESCRIPTION

This unit consists of two CBPA cartridges in an inline housing. The cartridges are direct acting, screw in cartridge style, poppet type, adjustable, pilot assisted, hydraulic counterbalance valves.

### OPERATIONS

This valve controls moving load and preventing it from running ahead of the pump, locking the load in any position, it also provides static overload and thermal expansion protection.

This valve is a MODULATING DEVICE that allows free flow from port V1 to port C1 and V2 to C2 then blocks reverse flow until a pilot pressure INVERSELY PROPORTIONAL to the load pressure is sensed at pilot ports which are connected to ports V1 and V2 therefore modulating flow from port C1 or port C2.

### FEATURES AND BENEFITS

Leakproof screw adjustment.

Adjustment screw can not be backed out of the valve.

Overset protection – spring can not go solid.

Hardened precision fitted poppet & cage provides reliable, long life.

A unibody cage construction and with no dynamic seals on all moving parts provides very low hysteresis (1.5%) and reliable operation.

Minor internal leakage past the pilot piston purges the air from the pilot line thus improving stability.

All external carbon steel parts are plated for longer life against the elements.

Valve is available with screw, tamperproof, capped and handknob adjustments.

All cartridge valves are 100% functionally tested.

Industry common cavity.

### SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]

PROOF PRESSURE: 10,000 PSI [700 Bar]

FLOW: 20.0 GPM [76 L/M] nominal. See performance chart.

PILOT RATIO: 4 to 1

INTERNAL LEAKAGE: 5 drops/min @ 90% of crack pressure.

DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum – Anodized.

5000 PSI [350 Bar] = Steel – Unplated.

OPERATING TEMPERATURE: -40° to +250° F. [-40° to +120° C.]

OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.

INSTALLATION: No restriction.

FILTRATION: 25 microns or better.

SEAL KIT NUMBER: SKN-1028 for buna "N".

SKV-1028 for viton.

WEIGHT: 2.65 lbs [1.21 kg] Aluminum. 5.25 lbs [2,38] Steel.

VALVE CAVITY: #C1025, See Page 0-022.0.