

This assembly is a combination of the cushion lock circuit and flow dividers. It provides flow division to two actuators in both directions. It provides overrunning load control in both directions. It provides cross-port relief protection. It provides thermal relief protection. It supplies make-up oil. It flushes hot and dirty oil out of the actuators.

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

Body Type	Line mount
Capacity	.6 - 3 gpm
Mounting Hole Diameter	.42 in.
Mounting Hole Depth	Through
Mounting Hole Quantity	2

- NOTES:**
- All SAE o-ring porting per ISO 11926. All NPTF porting per ANSI B1.20.1. All BSPP porting parallel thread.
  - 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.

**OPTION SELECTION EXAMPLE: YCBILHNAJ**

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>	3:1 (with CBBA primary cartridge, 3:1 pilot ratio, restrictive counterbalance valve)
<b>H</b>	10:1 (with CBBHX primary cartridge, Fixed setting, 10:1 pilot ratio, restrictive counterbalance valve)
<b>G</b>	4.5:1 (with CBBGX primary cartridge, Fixed setting, 4.5:1 pilot ratio, restrictive counterbalance valve)
<b>A</b>	3:1 (with CBBAX primary cartridge, Fixed setting, 3:1 pilot ratio, restrictive counterbalance valve)
<b>H</b>	10:1 (with CBBH primary cartridge, 10:1 pilot ratio, restrictive counterbalance valve)
<b>G</b>	4.5:1 (with CBBG primary cartridge, 4.5:1 pilot ratio, restrictive counterbalance valve)

**INCLUDED COMPONENTS**

Part	Description	Quantity
CBBALHN	Cartridge - Primary	4
CXCDXCN	Cartridge	4
FSBDXAN	Cartridge	2

**TECHNICAL FEATURES**

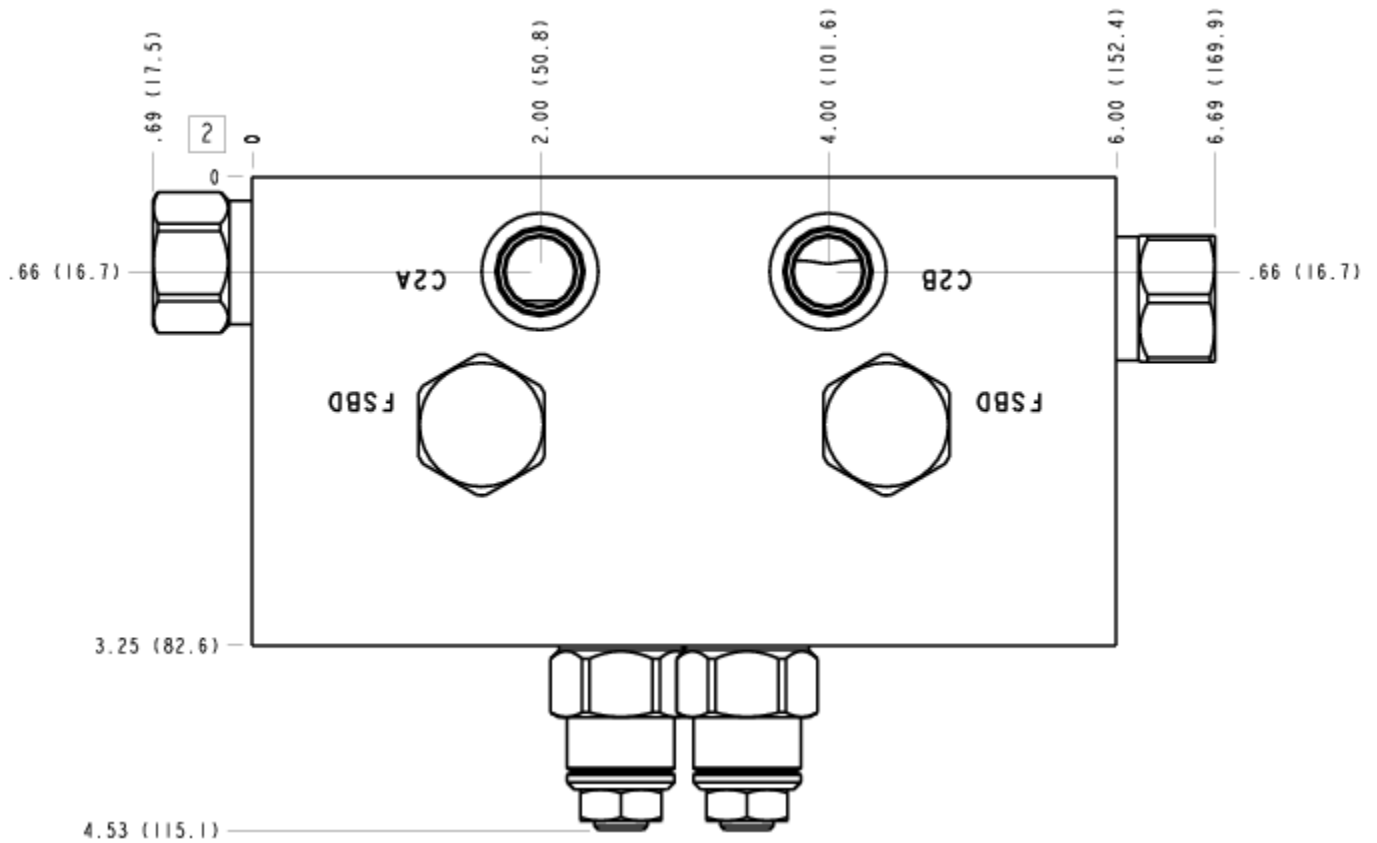
- The counterbalance valves should be set at 1.3 times the maximum load induced pressure.
- Operating characteristics cause the leg of the circuit with the greatest load to receive the higher percentage of flow in dividing mode. If a rigid mechanism is used to tie actuators together, the lead actuator may pull the lagging actuator and cause it to cavitate.
- Below the minimum flow rating there is not enough flow for the valve to modulate. It is effectively a tee. If flow starts at zero and rises, there will be no dividing control until the flow reaches the minimum rating.

# MANIFOLD FACES

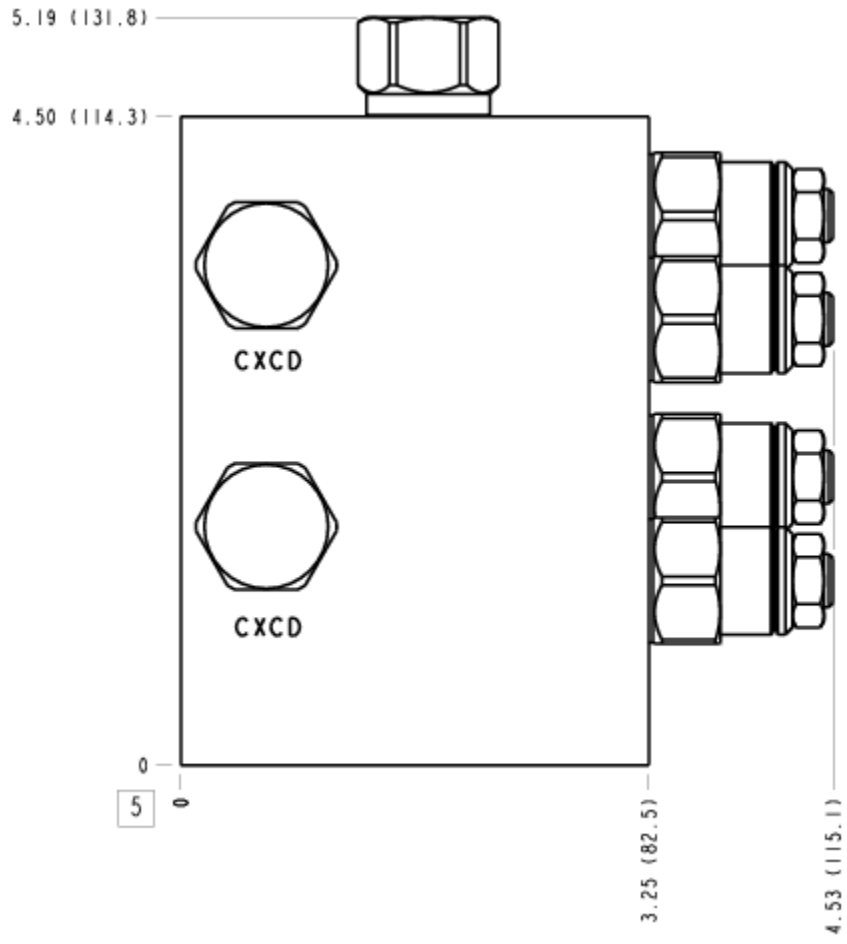
## FACE GRID

1	2	3	4
5	6	7	8
9	10	11	12

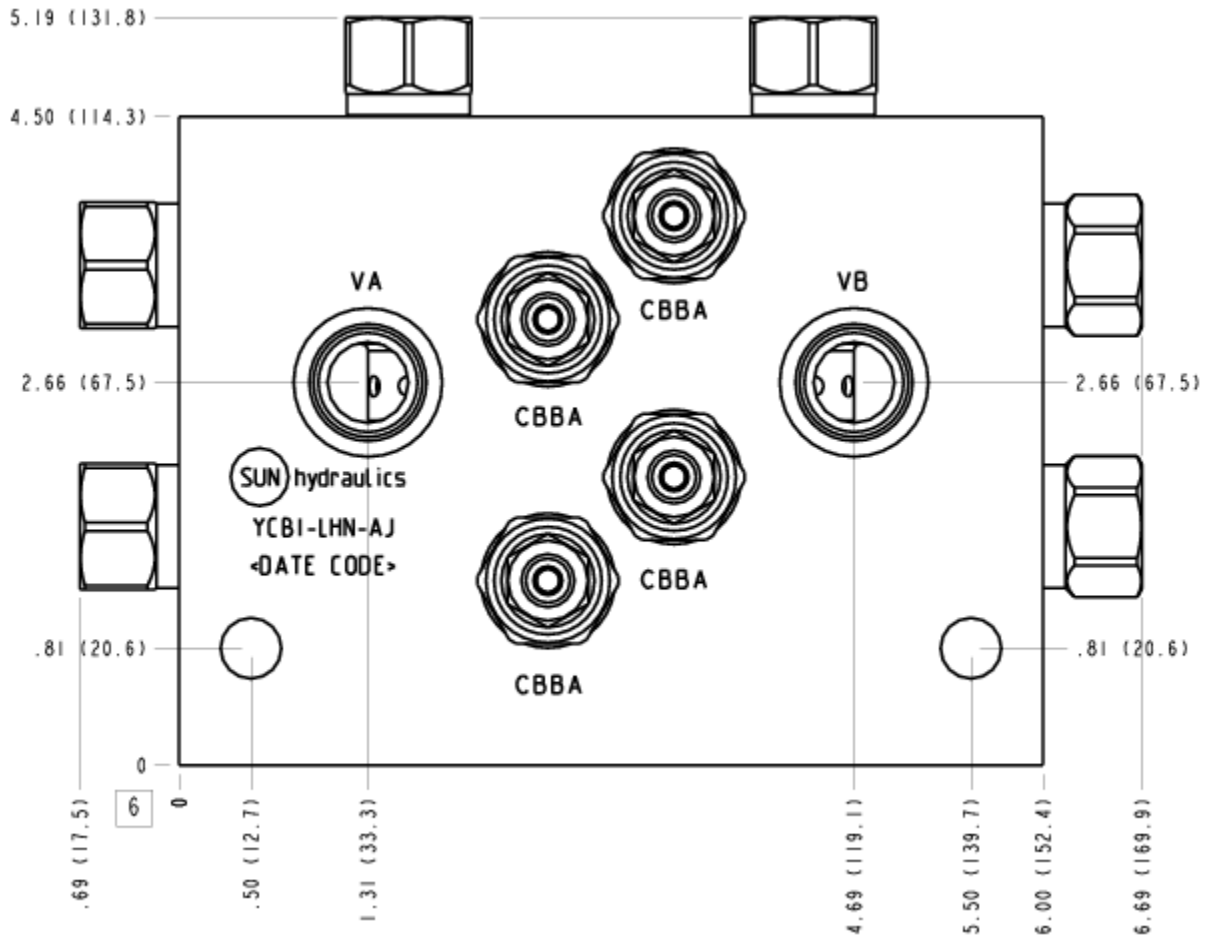
## FACE 2



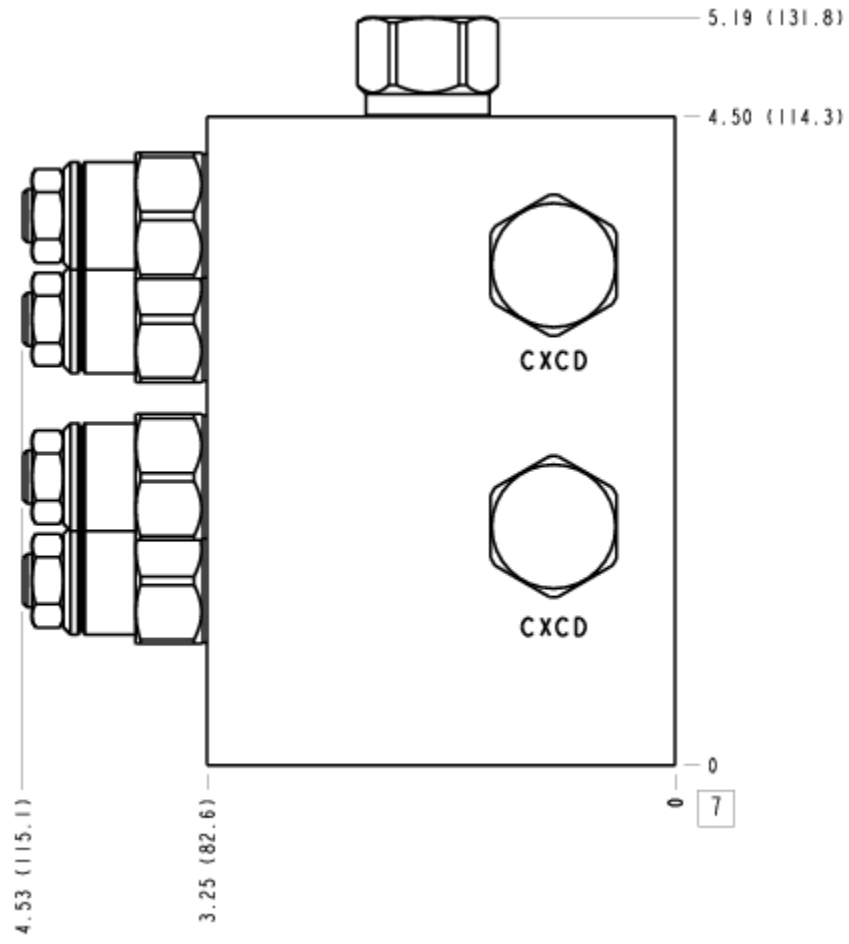
FACE 5



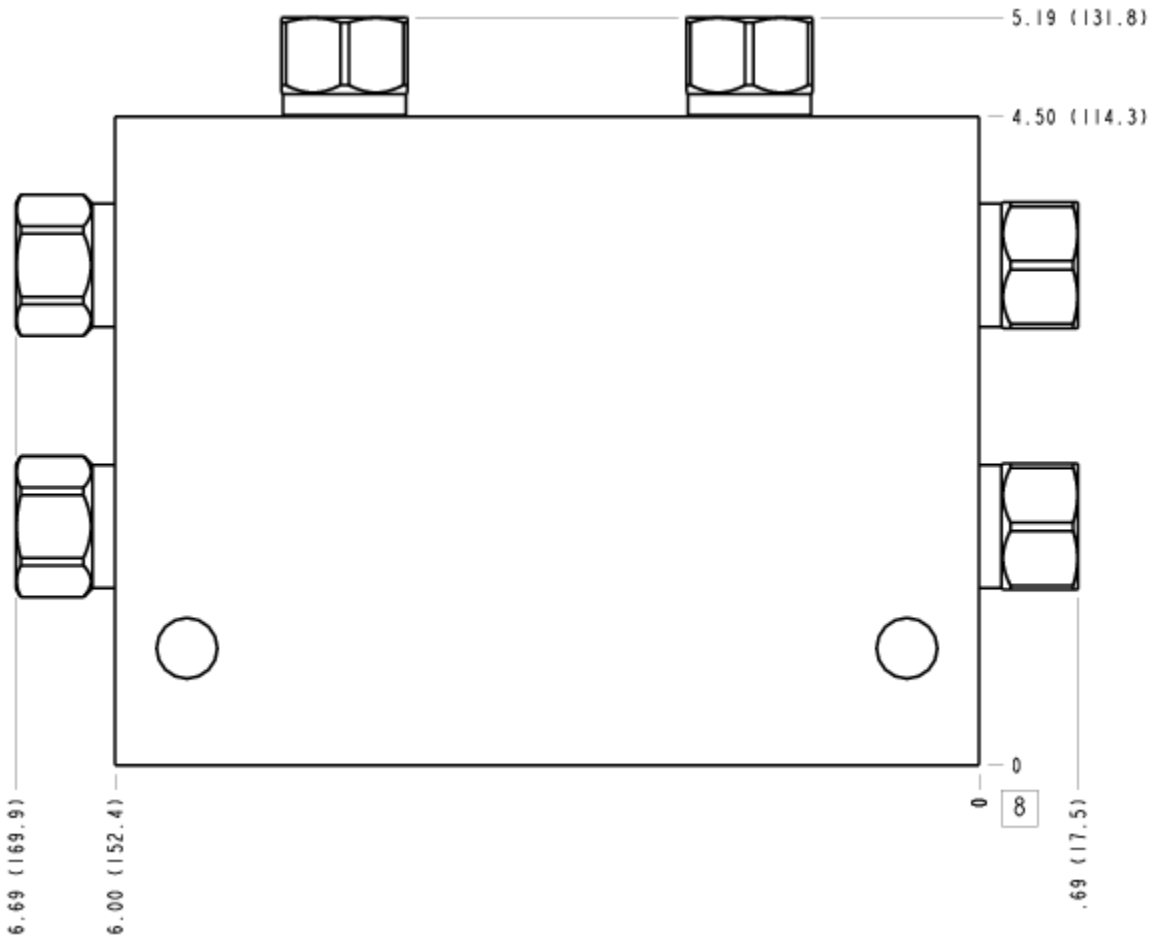
FACE 6



FACE 7



FACE 8



FACE 10

