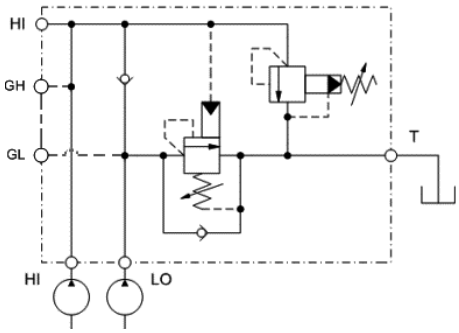
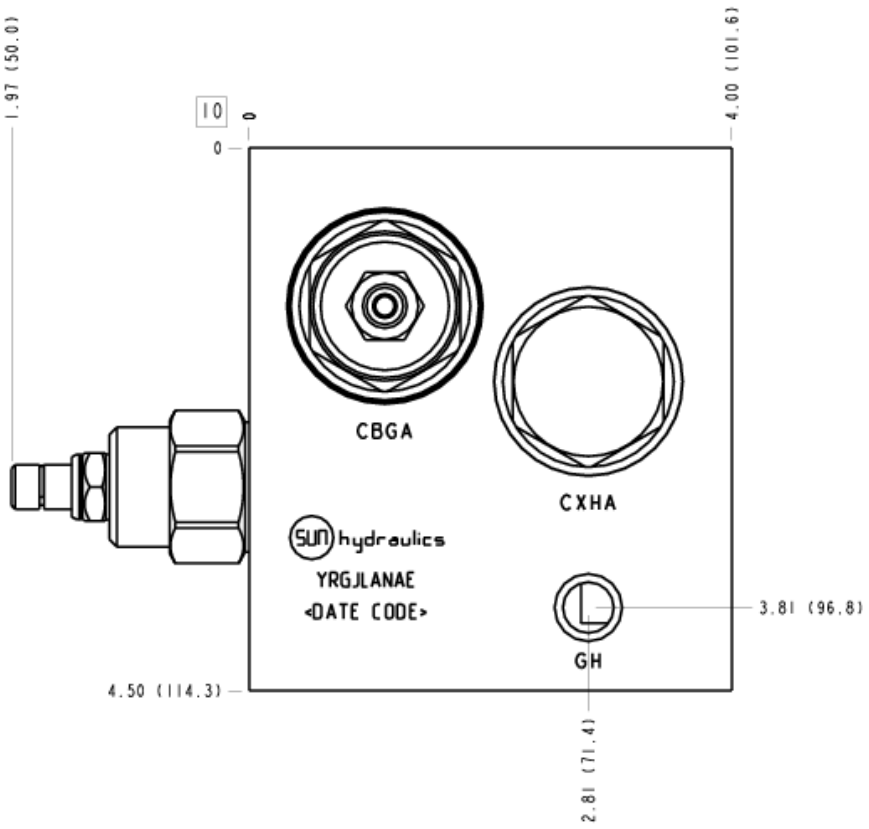




This assembly allows the smooth unloading of a low-pressure / high-flow pump in a 2 pump high-low system. This type of system utilizes the flow of 2 pumps to provide rapid speed to an actuator. Once resistance is encountered, and the requirement switches from high speed to high force / torque, then the low-pressure / high-flow pump is unloaded back to tank at minimum pressure and all the available horsepower is directed to the high-pressure / low-flow pump. This assembly also provides a system relief valve.

TECHNICAL DATA

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

Body Type	Line mount
Capacity	60 gpm
Mounting Hole Quantity	2

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: YRGJLANAE

CONTROL	(L)
L	Standard Screw Adjustment
C	Tamper Resistant - Factory Set
K	Handknob
W	Hex Wrench Adjustment
Y	Tri-Grip Handknob

ADJUSTMENT RANGE	(A)
A	100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting
B	50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard Setting
C	150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Setting
D	25 - 800 psi (1,7 - 55 bar), 400 psi (28 bar) Standard Setting
E	25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting
N	60 - 800 psi (4 - 55 bar), 400 psi (28 bar) Standard Setting
Q	60 - 400 psi (4 - 28 bar), 200 psi (14 bar) Standard Setting
W	150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting

SEAL MATERIAL	(N)
N	Buna-N
V	Viton

PRIMARY CARTRIDGE	(A)
A	A (with RPGC primary cartridge, Pilot-operated, balanced piston relief valve)
A	A (with RPGC3 primary cartridge, Non-adjustable pilot-operated, balanced piston relief valve)
A	A (with RPGC8 primary cartridge, Pilot-operated, balanced piston relief main stage with integral T-8A control cavity)

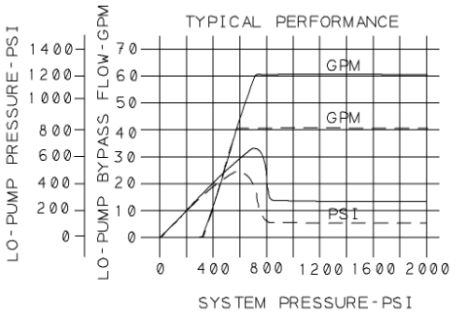
INCLUDED COMPONENTS

Part	Description	Quantity
CBGALIN	Cartridge	1
CXHAXCN	Cartridge	1
RPGCLAN	Cartridge - Primary	1

TECHNICAL FEATURES

- The counterbalance valve in this assembly is not acting as a counterbalance valve; it is acting as a pressure sensitive unloading valve. The setting, however, relates to the counterbalance world. With the CB*A set at 4000 psi (280 bar), the circuit will start to unload with about 1000 psi (70 bar) of pressure and will fully unload somewhere above 1400 psi (90 bar).
- Turn adjustment clockwise to decrease setting of the counterbalance valve.
- Backpressure at port 2 of the counterbalance valve adds to the effective relief setting at a ratio of 1 plus the pilot ratio times the backpressure.
- Counterbalance valve reseat exceeds 85% of set pressure when the valve is standard set. Settings lower than the standard set pressure may result in lower reseat percentages.
- Back pressure on the tank port (port 2) of the relief valve is directly additive to the valve setting at a 1:1 ratio.

PERFORMANCE CURVES

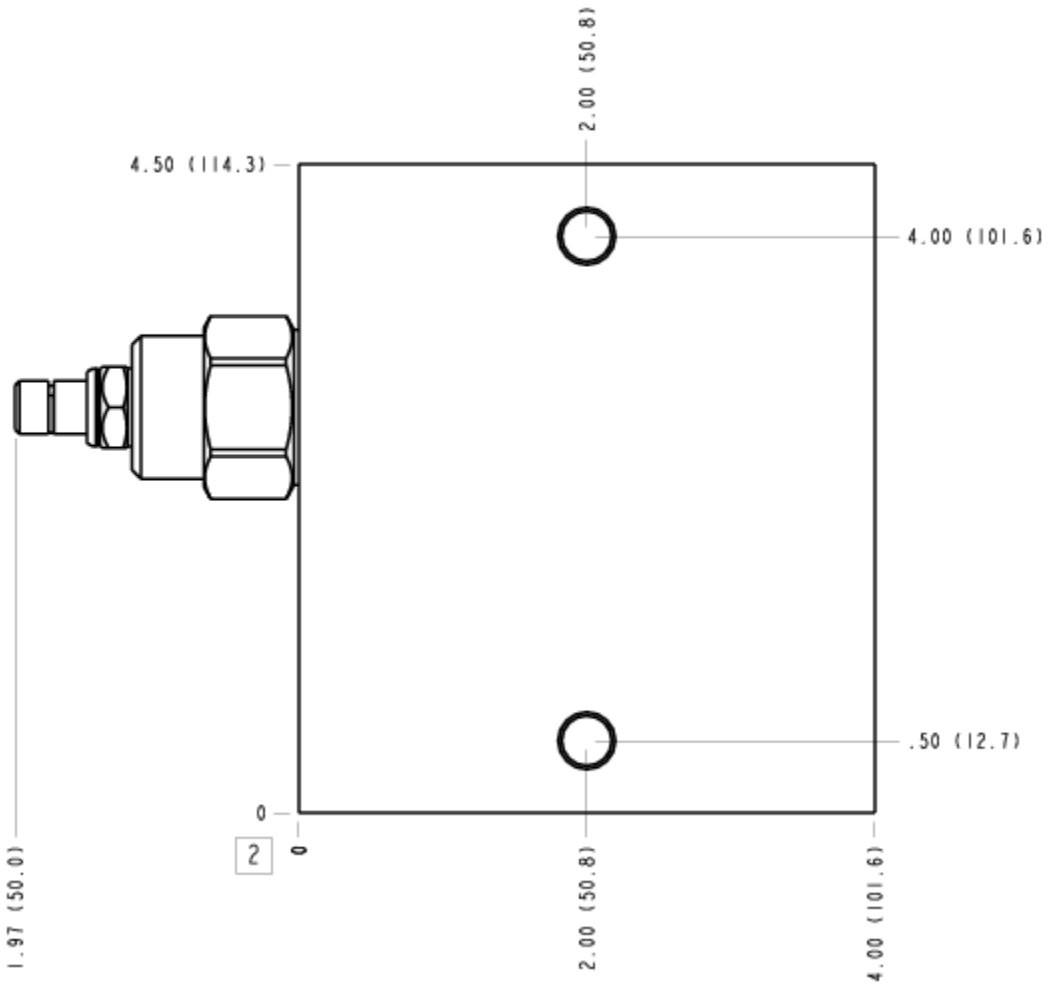


MANIFOLD FACES

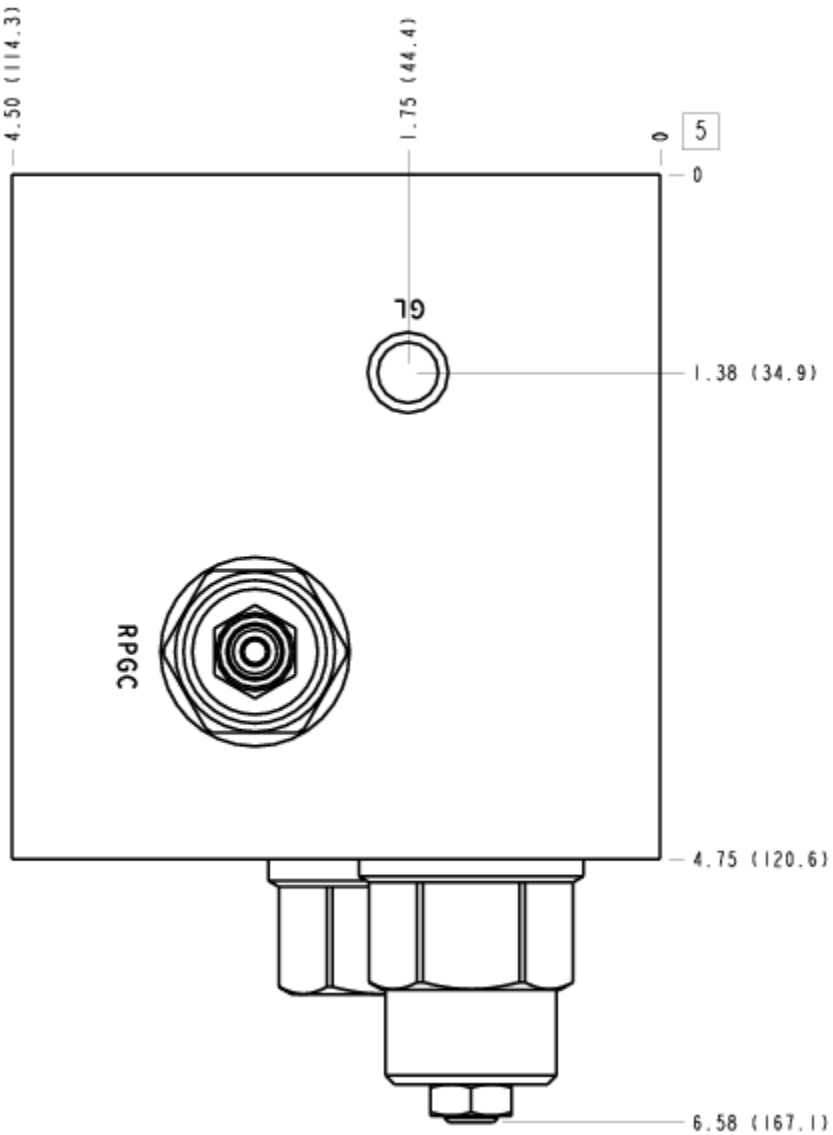
FACE GRID

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

FACE 2



FACE 5



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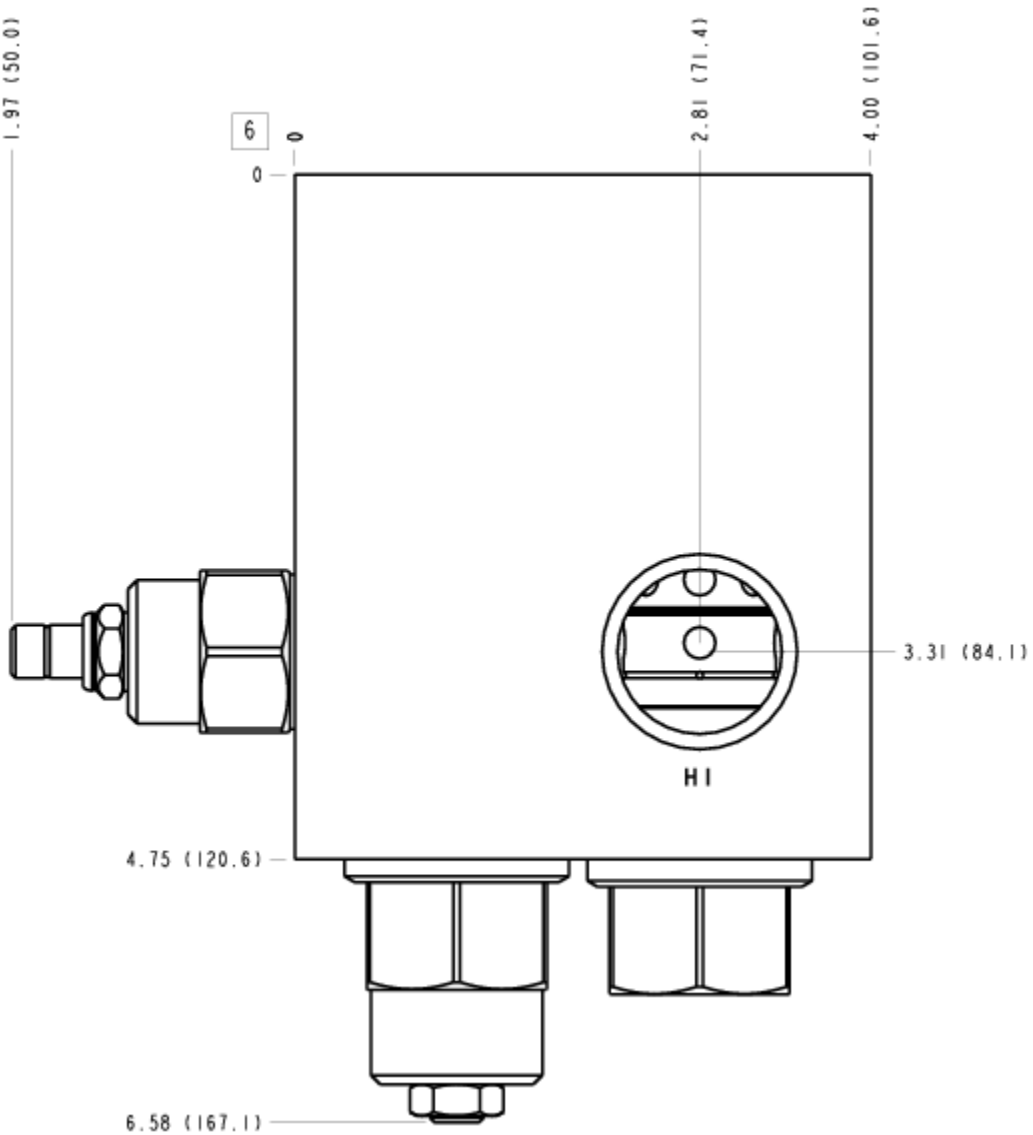

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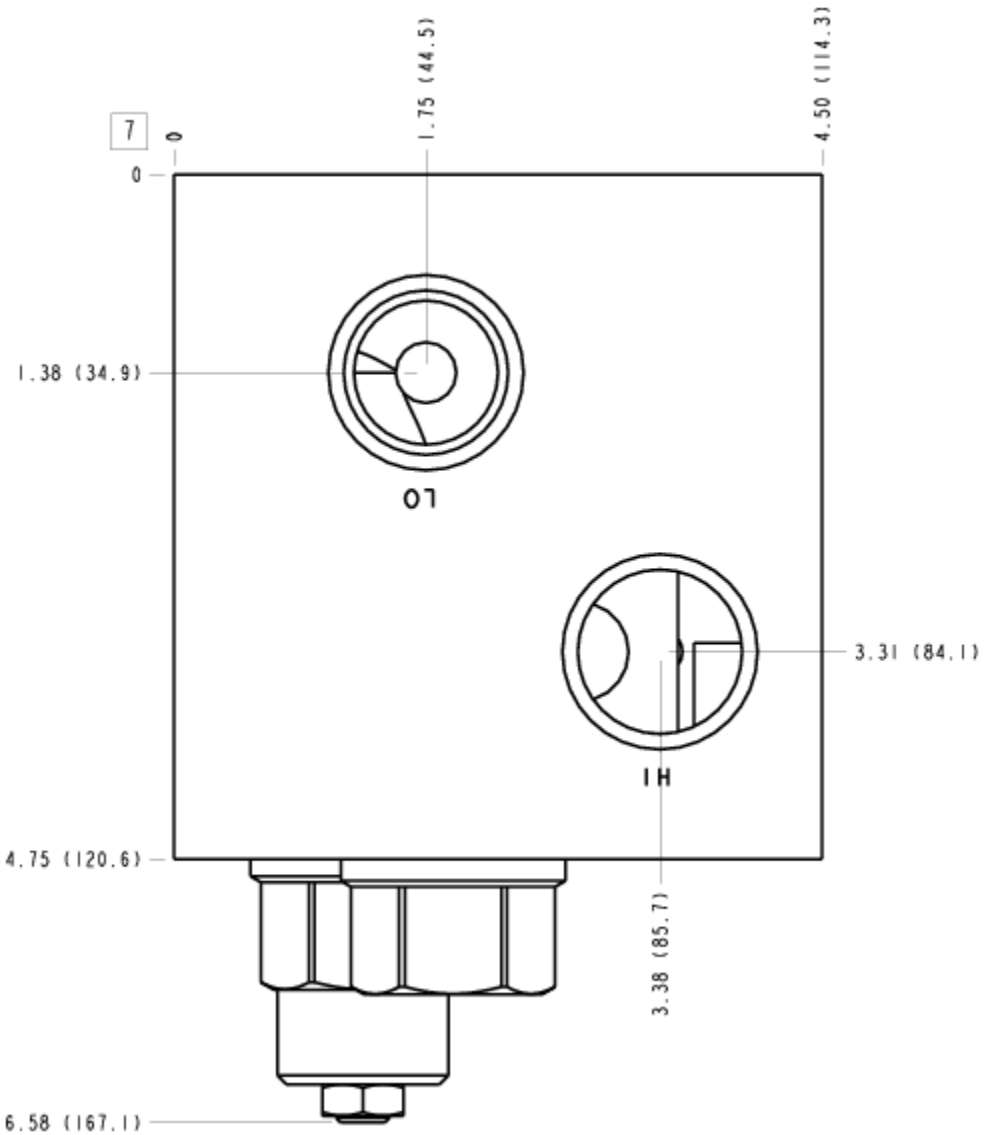
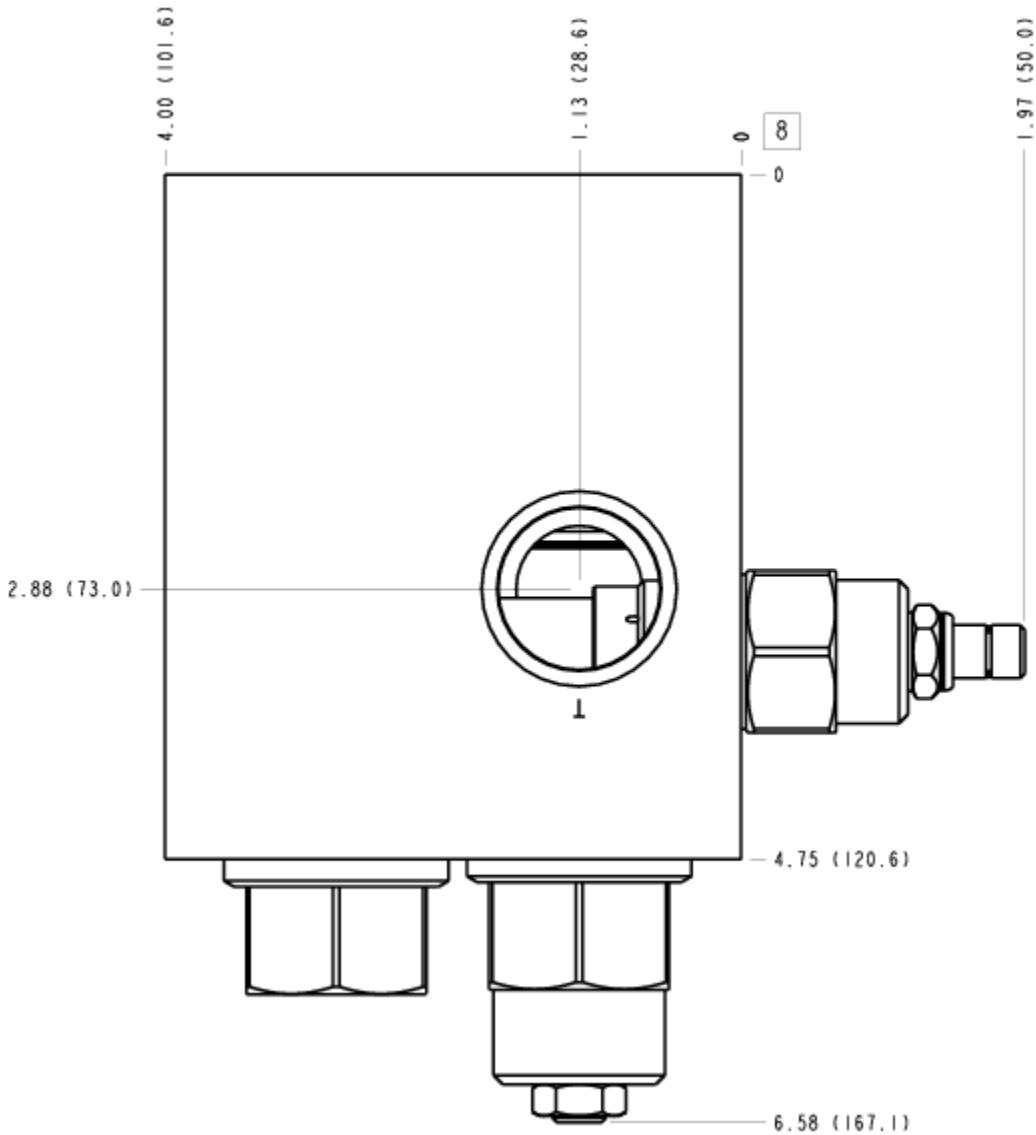

7
0
0
1.75 (44.5)
4.50 (114.3)
1.38 (34.9)
LO
3.31 (84.1)
HI
4.75 (120.6)
3.38 (85.7)
6.58 (167.1)

FACE 8



FACE 10