



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.

CONFIGURATION

L Control	Standard Screw Adjustment
A Adjustment Range	100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting
N Seal Material	Buna-N
A Primary Cartridge	A (with RPEC primary cartridge, Pilot-operated, balanced piston relief valve)

NOTES and 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.

TECHNICAL DATA

NOTE:
DATA MAY VARY BY

Body Type	Line mount
Capacity	30 gpm
Mounting Hole Diameter	.34 in.
Mounting Hole Depth	Through
Mounting Hole Quantity	2

CONFIGURATION. SEE CONFIGURATION SECTION.

OPTION SELECTION EXAMPLE: YRESLANA

CONTROL	(L) ADJUSTMENT RANGE	(A) SEAL MATERIAL	(N)
L Standard Screw Adjustment	A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting	N Buna-N	
		V Viton	
PRIMARY CARTRIDGE			(A)
A A (with RPEC primary cartridge, Pilot-operated, balanced piston relief valve)			
A A (with RPEC8 primary cartridge, Pilot-operated, balanced piston relief main stage with integral T-8A control cavity)			

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 reseal exceeds 85% of set pressure when the valve is standard set. Settings lower than the standard set pressure may result in lower reseal 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

