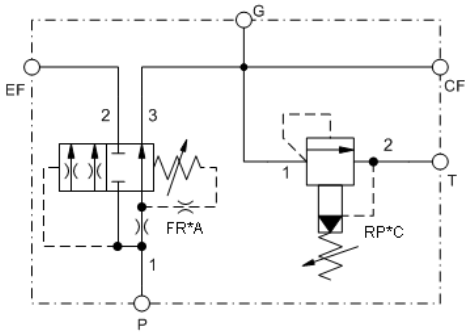
MODEL

YRHF

Fixed-orifice, bypass/restrictive, priority flow control with relief assembly

CAPACITY: 120 gpm

sunhydraulics.com/model/YRHF



This assembly consists of a bypass/restrictive, fixed-orifice, priority flow control which takes an input flow at port P and uses it to satisfy the priority flow at port CF. If the input flow exceeds the priority flow requirement, the excess is bypassed out port EF. The bypass flow may be used in a secondary circuit. The relief valve protects the controlled flow from over-pressurization, relieving excess flow out of port T.

TECHNICAL DATA

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

Body Type	Line mount
Capacity	120 gpm
Control Flow Range	.2 - 50 gpm

NOTES:

- Flange mounting hole data: Inch: 1/2-13 UNC x 1.06 (26,9 mm) DP, Metric: M12 x 1.75-6H x .1.06 (26,9 mm) DP
- ***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: YRHFLAWANNNLS

CONTROL (L)	ADJUSTMENT RANGE (A)	ADJUSTMENT RANGE (W)	ADJUSTMENT RANGE (A)	SEAL MATERIAL (N)	SEAL MATERIAL (N)	SEAL MATERIAL (N)	CONTROL LETTER(S) OF SUBORDINATE CARTRIDGE (L)
L Standard Screw Adjustment	**A** 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting	**W** 100 - 5000 psi (7 - 350 bar)	**A** 100 - 3000 psi (7 - 210 bar)	**N** Buna-N	**N** Buna-N	**N** Buna-N	**L** Tuning Adjust (with RPGC primary cartridge, Pilot-operated, balanced piston relief valve)
C Tamper Resistant - Factory Set	**B** 50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard Setting	**D** 25 - 3000 psi (1,7 - 210 bar)	**C** 150 - 6000 psi (10,5 - 420 bar)	**V** Viton	**V** Viton	**V** Viton	**X** Non-Adjustable (with RPGC primary cartridge, Pilot-operated, balanced piston relief valve)
K Handknob	**C** 150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Setting		**D** 25 - 800 psi (1,7 - 55 bar)				**L** Tuning Adjust (with RPGC8 primary cartridge, Pilot-operated, balanced piston relief main stage with integral T-8A control cavity)
W Hex Wrench Adjustment	**D** 25 - 800 psi (1,7 - 55 bar), 400 psi (28 bar) Standard Setting						**X** Non-Adjustable (with RPGC8 primary cartridge, Pilot-operated, balanced piston relief main stage with integral T-8A control cavity)
Y Tri-Grip Handknob	**E** 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting						**L** Tuning Adjust (with RPGC3 primary cartridge, Non-adjustable pilot-
	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						

CONTROL LETTER(S) OF SUBORDINATE CARTRIDGE (L)	
X	Non-Adjustable (with RPGC3 primary cartridge, Non-adjustable pilot-operated, balanced piston relief valve)

PORT AND MATERIAL (S)	DESIGNATION
S	Ports EF

TECHNICAL FEATURES

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- The tuneable control option provides +/- 25% variation from the nominal factory pre-set flow. Turn the adjustment clockwise to increase.
- Pressure at the bypass port (port EF) may exceed pressure at the priority port (port CF).
- Maximum pressure at the priority port should be limited to 3000 psi (210 bar).
- Bypass flow is not available until priority flow requirements are satisfied.
- Relief model RPEC is adjustable within 100 to 3000 psi (7 - 210 bar) with a factory setting of 1000 psi (70 bar).