



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	60 gpm
Control Flow Range	.2 - 50 gpm
Mounting Hole Diameter	.41 in.
Mounting Hole Depth	Through
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: YRFFLAWNNLM

CONTROL (L)	ADJUSTMENT RANGE (A)	ADJUSTMENT RANGE (W)	SEAL MATERIAL (N)	SEAL MATERIAL (N)	CONTROL LETTER(S) OF SUBORDINATE CARTRIDGE (L)	PORT AND MATERIAL DESIGNATION (M)
<b>L</b> Standard Screw Adjustment	<b>A</b> 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting	<b>W</b> 100 - 5000 psi (7 - 350 bar)	<b>N</b> Buna-N <b>V</b> Viton	<b>N</b> Buna-N <b>V</b> Viton	<b>L</b> Tuning Adjust (with RPEC primary cartridge, Pilot-operated, balanced piston relief valve)	<b>M</b> Ports EF & P — SAE 16; Ports CF & T — SAE 12; Gage Port — 1/4" NPTF; Aluminum
<b>C</b> Tamper Resistant - Factory Set	<b>B</b> 50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard Setting	<b>D</b> 25 - 3000 psi (1,7 - 210 bar)			<b>K</b> Handknob (with RPEC primary cartridge, Pilot-operated, balanced piston relief valve)	<b>D</b> Ports EF & P — 3/4" NPTF; Ports CF & T — 3/4" NPTF; Gage Port — 1/4" NPTF; Aluminum
<b>K</b> Handknob	<b>C</b> 150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Setting				<b>X</b> Non-Adjustable (with RPEC primary cartridge, Pilot-operated, balanced piston relief valve)	<b>D/S</b> Ports EF & P — 3/4" NPTF; Ports CF & T — 3/4" NPTF; Gage Port — 1/4" NPTF; Iron
<b>W</b> Hex Wrench Adjustment	<b>D</b> 25 - 800 psi (1,7 - 55 bar), 400 psi (28 bar) Standard Setting					<b>E</b> Ports EF & P — 1" NPTF; Ports CF & T — 3/4" NPTF; Gage Port — 1/4" NPTF; Aluminum
<b>Y</b> Tri-Grip Handknob	<b>E</b> 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting					<b>E/S</b> Ports EF & P — 1" NPTF; Ports CF & T — 3/4" NPTF; Gage Port — 1/4" NPTF; Iron
	<b>N</b> 60 - 800 psi (4 - 55 bar), 400 psi (28 bar) Standard Setting					<b>F</b> Ports EF & P — 1 1/4" NPTF; Ports CF & T — 3/4" NPTF; Gage Port — 1/4" NPTF; Aluminum
	<b>Q</b> 60 - 400 psi (4 - 28 bar), 200 psi (14 bar) Standard Setting					<b>F/S</b> Ports EF & P — 1 1/4" NPTF; Ports CF & T — 3/4" NPTF; Gage Port — 1/4" NPTF; Iron
	<b>W</b> 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting					

**PORT AND MATERIAL  
DESIGNATION (M)**

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**L** Ports EF  
& P —  
SAE 12;  
Ports CF  
& T —  
SAE 12;  
Gage Port —  
1/4" NPTF;  
Aluminum

**L/S** Ports EF  
& P —  
SAE 12;  
Ports CF  
& T —  
SAE 12;  
Gage Port —  
1/4" NPTF;  
Iron

**M/S** Ports EF  
& P —  
SAE 16;  
Ports CF  
& T —  
SAE 12;  
Gage Port —  
1/4" NPTF;  
Iron

**N** Ports EF  
& P —  
SAE 20;  
Ports CF  
& T —  
SAE 12;  
Gage Port —  
1/4" NPTF;  
Aluminum

**N/S** Ports EF  
& P —  
SAE 20;  
Ports CF  
& T —  
SAE 12;  
Gage Port —  
1/4" NPTF;  
Iron

**P** Ports EF  
& P —  
1" Code 61;  
Ports CF  
& T —  
1" Code 61;  
Gage Port —  
1/4" NPTF;  
Aluminum

**P/M** Ports EF  
& P —  
1" Code 61;  
Ports CF  
& T —  
1" Code 61;  
Gage Port —  
1/4" BSPP;  
Metric  
Aluminum

**P/S** Ports EF  
& P —  
1" Code 61;  
Ports CF  
& T —  
1" Code 61;  
Gage Port —  
1/4" BSPP;  
Metric  
Aluminum

## TECHNICAL FEATURES

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- 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.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.