

FLOW DIVIDER INSTRUCTIONS (MODELS 1647891 & 1647890)

The RGC flow divider accepts an input flow of 25 gpm at 3000 psi and reduces the flow and/or pressure to a factory preset level. The divider is a bypass type that returns excess flow to the tank side of the hydraulic power source.

Two models are available. Model 1647891 has hose whips and quick disconnects (Q.D.'s) for flows under 10 gpm. Model 1647890 has 3/4" NPTF adapter fittings for flows over 10 gpm.

BEFORE INSTALLING THE FLOW DIVIDER

1. Read these instructions thoroughly before starting work. If you don't understand a procedure, call Reimann & Georger Corporation or its distributors for assistance.



CAUTION:
USE THE FLOW DIVIDER WITH OPEN CENTER TOOLS ONLY.

2. Insure that you have all the parts listed at the end of these instructions. If any parts are missing or damaged, return to place of purchase immediately.
3. Before making any hydraulic connections, inspect all hydraulic lines, fittings and hoses for leaks and risks of rupture as follows:
 - a. Inspect each hydraulic line, fitting, and hose for breaks, cracks, worn spots, bulges, chemical attack, kinks or any other damage. Never try to stop any detected leak with any body parts. Do not put your face close to suspected leaks. Hold a piece of cardboard close to suspected leaks and then inspect the cardboard for signs of hydraulic oil.
 - b. Replace a damaged line, fitting or hose immediately. Never repair the part.



WARNING:
LIQUID UNDER HIGH PRESSURE CAN PIERCE THE SKIN, CAUSING DEATH OR SERIOUS INJURY. IN CASE OF INJURY, GET IMMEDIATE MEDICAL ATTENTION.

MAKING HYDRAULIC CONNECTIONS

1. Use a 3/4" hose for flows over 10 gpm. A 1/2" hose may be used for flows under 10 gpm. The hydraulic hose must be rated for system pressure. When making connections, do NOT over stretch the hoses or bend them at a sharp angle.
2. Refer to Figure 1 during the following procedures:
 - a. The priority (regulated) output side of the flow divider has quick disconnect fittings marked "TOOL" that connect to hoses and tools manufactured by RGC. Use the "A" port as the pressure port and the "B" port as the return port.
 - b. The input side of the flow divider is stamped "SOURCE". The hydraulic circuit MUST have a system relief valve either in the hydraulic pump or in-line preceding the flow divider for system pressure protection. The pressure line from the hydraulic source is connected to the port

stamped "P" (pressure). The return line port (tank line port) is stamped "T". This port is connected to the return side of the hydraulic power source.

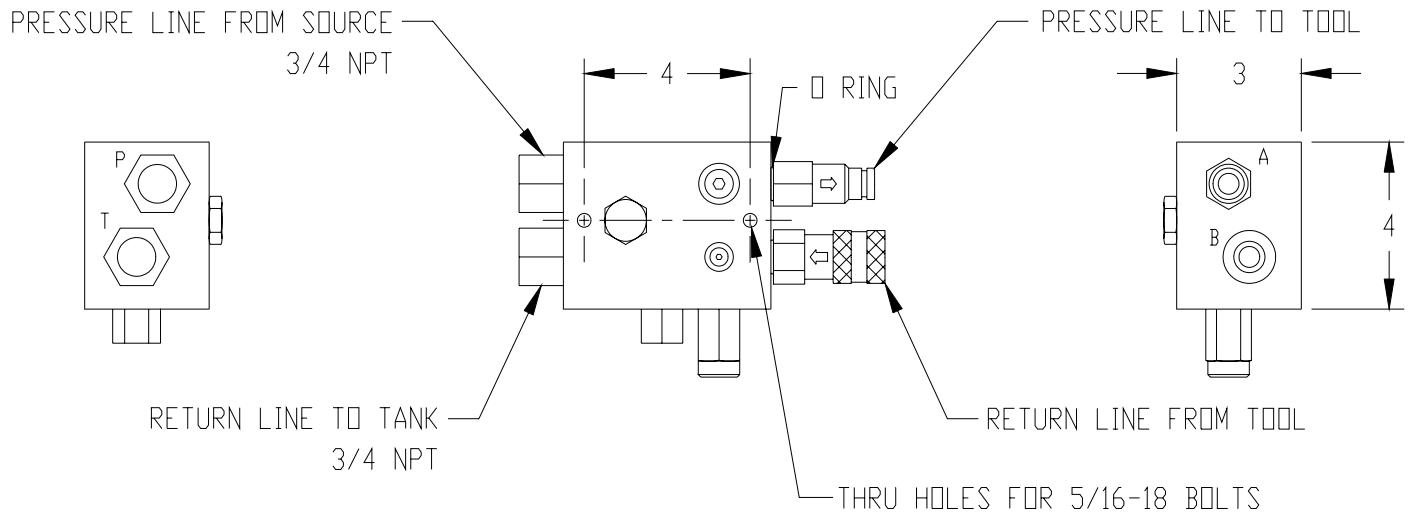


Figure 1
Flow Divider Connection Ports

- Some hydraulic hand tools are very sensitive to back pressure. Hydraulic breakers, for example, will not operate properly if the back pressure exceeds 150 psi. Connecting the tool return hose directly into the flow divider can add excessive back pressure due to the power supply hydraulic components. When back pressure sensitivity is a problem, connect the tool return line directly to the power supply hydraulic tank. This is shown in Figure 2.

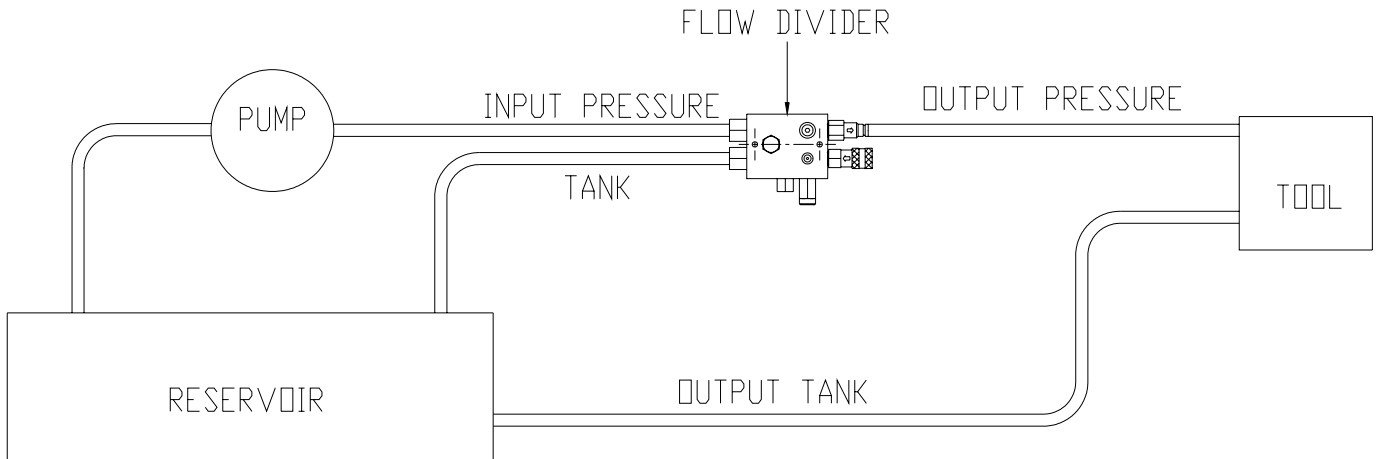


Figure 2
Recommended Hydraulic Connection for Back Pressure Sensitive Tools

PARTS LIST

Each item number on this parts list can be matched with the item number shown on the Figure 3 assembly drawing.

Item Number	Part Number	Quantity	Description
1*	6001886	2	COUPLING FEMALE
2*	6001885	2	COUPLING MALE
3	1697502	2	HOSE ASSEMBLY (MODEL 1647891)
4	5604681	2	ADAPTER FITTING (MODEL 1647891)
5	5604548	2	ADAPTER FITTING (MODEL 1647890)
6	6004789	1	MANIFOLD
7	6011365	1	RELIEF VALVE
8	6015306	1	PILOT LOGIC ELEMENT

* Source side shown for model 1647891

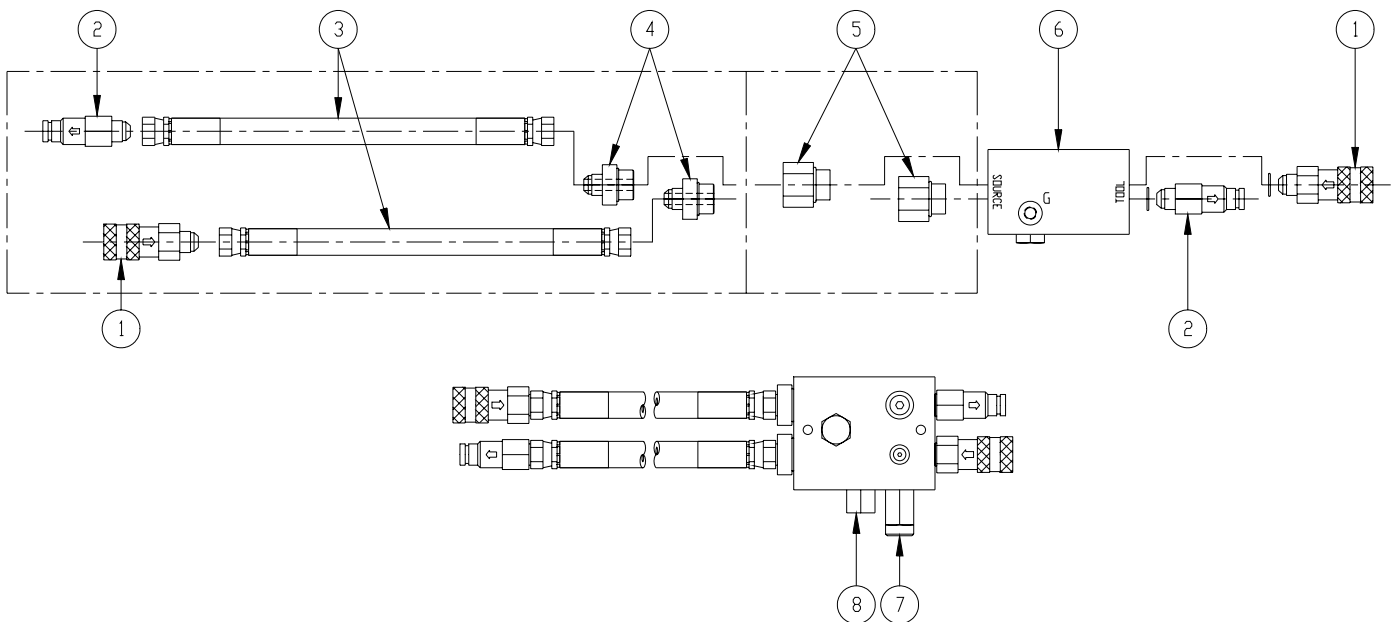


Figure 3
Flow Divider Assembly