

6 MANUAL and PWM

Mount the Valve Manifold (hardware not included):

- A mounting template is provided.
- Ensure implement frame does not interfere with adjustment of the Flow Control Knobs. • Ensure there is room to remove the Solenoids for service and to activate the manual
- override.
- Use two 5/16" grade 5 bolts for mounting.

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- Route the Implement Cable from the implement hitch to the valve manifold and connect:
- Connect wire marked PUMP 1 to the Solenoid on the Pump 1 side of the Valve Manifold.
- Connect wire marked PUMP 2 to the Solenoid on the Pump 2 side of the Valve Manifold.
- Secure cable with cable ties to avoid dragging, snagging, and pinch points.

PWM

Connect PWM control cables (not supplied) from the PWM Controller (not supplied) to the Pump 1 and Pump 2 Solenoids with 2 pin Deutsch connectors (DT06-2S). **Note:** Male 2 pin connectors with pigtails are provided for convenience.

Pigtails: **RED** wire = Signal **BLACK** wire = Ground

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Measure to determine the hose sizes and lengths needed. The tables below are provided to make a shopping list of hoses, couplings, and fittings to complete the installation.

Connect the return line to the tractor's Low Pressure Return Port to prevent motor seal damage.

General hose recommendations:

• Hose diameter is critical to minimize heat generation and ensure efficient, trouble free operation.

• Allow extra length as needed for turning and implement folding.

Tractor → Manifold Hoses

Hose Description	Hose Diameter	Hose Length	**Tractor End	Valve Manifold / Tee
Valve Manifold Supply	5/8"			#10 JIC
Valve Manifold Return	3/4"			#10 JIC
Load Sense Line (optional)	3/8"			#6 JIC

Manifold → Pump Hoses

Hose Description	Hose Diameter	Hose Length	Valve Manifold / Tao	Pump
			Mannoid / Tee	Connection
Pump 1 - Supply	* 1/2"		#8 JIC	1/2" FNPT
Pump 1 - Return	* 1/2"		#8 JIC	1/2" FNPT
Pump 2 - Supply	* 1/2"		#8 JIC	1/2" FNPT
Pump 2 - Return	* 1/2"		#8 JIC	1/2" FNPT

If longer than 30 feet - increase hose by one size.

** Consult your tractor manual for the proper couplers and connections.

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Perform these steps prior to connecting hoses:

PC Closed System:

• Install restrictor insert (supplied with pump) into the motor inlet port fitting of both pumps. The inlet port is marked I.

LS Closed System:

- Flow Limiters are recommended to prevent overspeeding Remove the motor inlet adapter fittings and installing the correct flow limiters (sold separately) in the inlet ports (marked I) of both pump Power Beyond Connection
- 1. Remove plug from LS Port on Valve Manifold and install LS Port Fitting 2. Connect hose to Power Beyond load sense port on tractor.

1 Refer to the Instruction Manual for directions on flow settings and operation.

Oil Return Tee

Pump 1 Oil Return

