

CP-100-SS Installation Instructions

Before Installation

1. Make sure you have sufficient water supply, pressure, and flow. Connect pipes to primary water source.
2. Install master valves, pressure regulators and backflow preventers as needed. For system design information, refer to the RainBird Irrigation Design Guide. Refer to local building codes for additional requirements.
3. Flush the system thoroughly until the water from the submain runs clear.

4. The solenoid MUST be on the downstream side. Start by preparing the “inlet” (figure A) of the valve and the outside of the PVC pipe with primer and carefully apply a small amount of solvent cement to the outside of the PVC pipe and a small amount of solvent cement to the inside of the valve. Push the valve into the pipe.(figure B)

CAUTION: Solvent cement will set within 10-15 seconds, use only a small amount. Excess cement can damage the valve internally.

5. Next prepare the “outlets” of the valve (figure C) and the outside of the PVC pipe with primer. Carefully apply a small amount of solvent cement to the outside of the PVC pipe and a small amount of solvent cement to the inside of the valve. Push the lateral pipe into the outlet valve. (figureD).

Connect Valve Wires

6. Select a wire gauge that meets electrical specifications. Multi-strand, direct-burial wire is recommended. Refer to local building codes for additional requirements.
7. Use a watertight connector to connect one lead of each valve to a common wire (A). Either lead may be used. All valves on the same controller can share the same common wire.

Use a watertight connector to connect the second lead on each valve to a power wire(B). Each power wire must be run separately to the controller. Use gel caps and wire nuts at each wire splice.

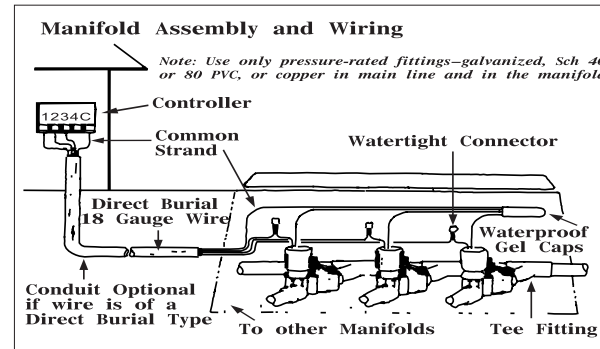
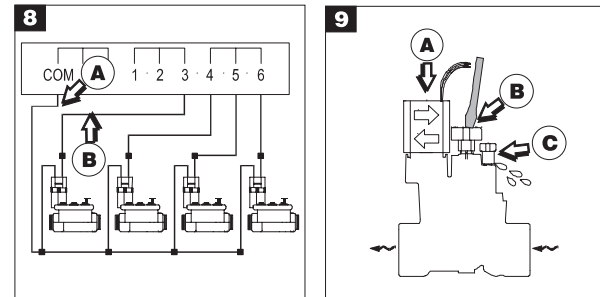
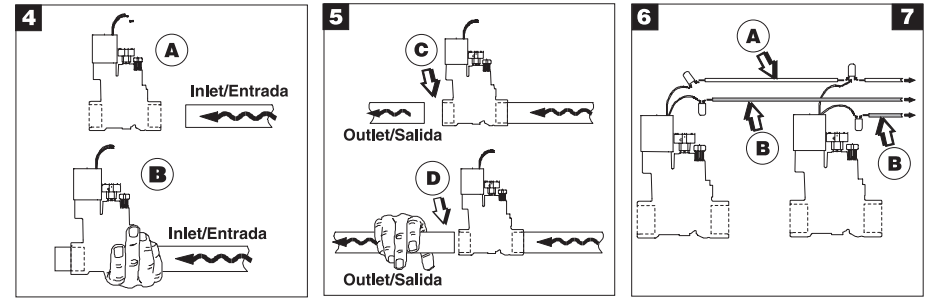
8. Connect the shared common wire (A) to the common terminal on the controller. Connect one power wire from each valve (B) to a station terminal on the controller.

Operate Valve Manually

9. To open the internal bleed, turn the solenoid (A) counterclockwise until system activates. Do not unscrew completely. To close internal bleed finger-tighten the solenoid completely.

To reduce flow (CPF flow control models only), turn the flow control stem (B) clockwise. Use your fingers or a slot-head screwdriver. To increase flow, turn the stem counterclockwise.

To open the external bleed, turn the bleed screw (C) counterclockwise one turn. Use the external bleed to flush the valve when you first start the system. Turn the screw clockwise to close it.



Operating Ranges

	075-CP 075-CPF	100-CP 100-CPF
Flow ²	0.2-22 GPM	0.2-40 GPM
Pressure	15-150 PSI	15-150 PSI

¹CP/CPF male x male (MM) and slip x slip are not recommended for flows exceeding 30 GPM (6.8m³/h or 1.9l/s)

² For flows below 3 GPM (0.75 m³/h or 0.21 l/s), or any drip application, use RBY Series mesh filter installed upstream.

CP y CPF macho x macho (MM) y slip x slip no son recomendables para un flujo que exceda los 30 GPM.

NOTE: During winter, shutdown and drain the system to protect CP valves from freezing. Failure to properly drain the lines can result in damage to the valves, which is not covered under the customer satisfaction policy.

For detailed information on how to install valves, please dial Rainbird's fax document catalog service, 1-800-724-6247 or visit our Website www.rainbird.com. Questions? Ask our technical experts 1-800-724-6247.