

CPF-075 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.

Connect Adapters to Valve

4. To make a watertight seal, wrap 1-1/2 to 2 turns of Teflon tape around the threads on two male by slip adapters. Do not use pipe dope.
5. Screw the adapters into the valve water ports and hand tighten.
6. Carefully tighten the adapters one to two additional turns past hand-tight.

CAUTION: Do not overtighten the adapters. You may damage the valve or block the exit ports.

Connect Valve to pipes

7. Prepare surface with primer before applying any solvent cement. Carefully apply a small amount of solvent cement to the inside of the adapter (A, male by slip connector). Apply a small amount of cement to the outside of the water supply pipe. Then attach the connector (A) to the pipe. The valve solenoid **MUST** be on the downstream side (B).

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

8. Cement the lateral pipe to the adapter. (A, male by slip connector).

Connect Valve Wires

9. Select a wire gauge that meets electrical specifications. Multi-strand, direct-burial wire is recommended. Refer to local building codes for additional requirements.

10. 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.

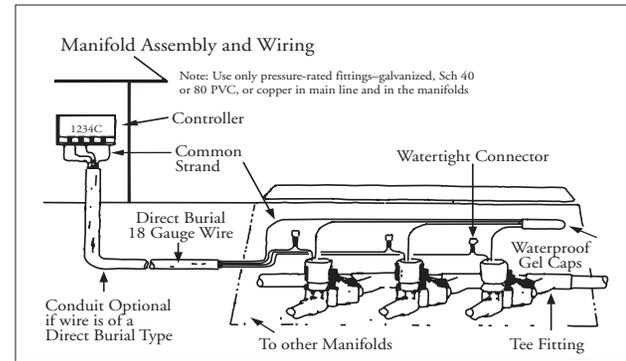
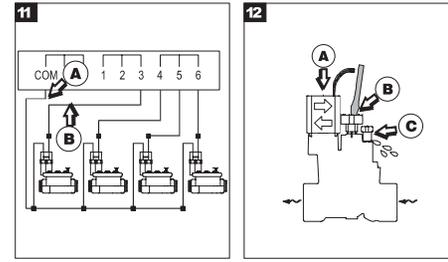
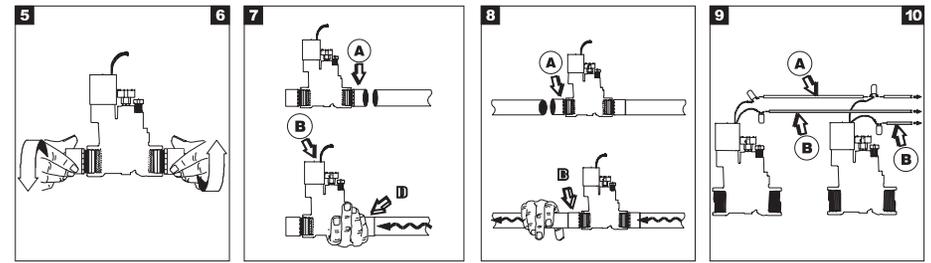
Use a watertight connector to connect the second lead on each valve to a power wire(B). Each power wire must be run separately to the controller. Use gel caps and wire nuts at each wire splice.

11. 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

12. 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.