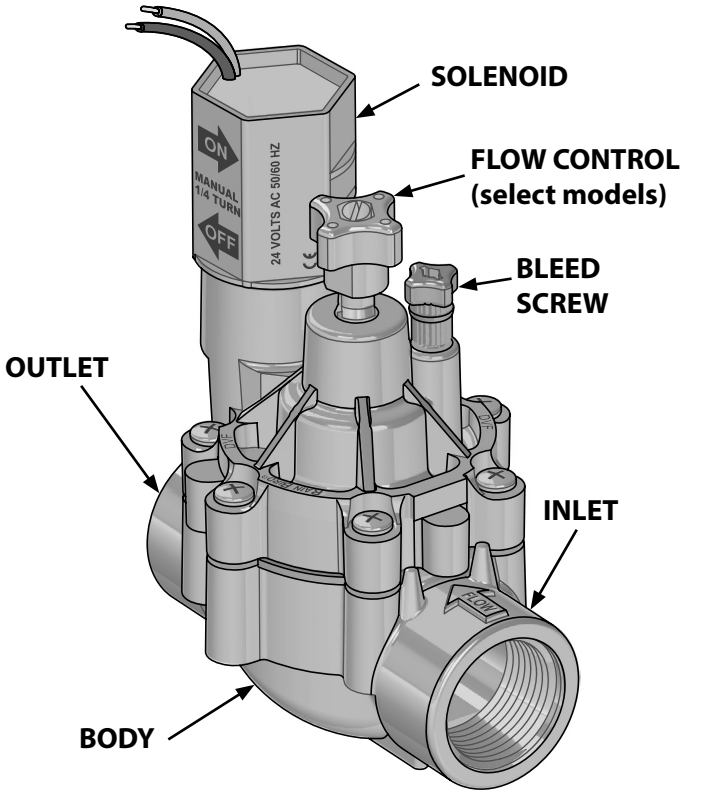
English

CP/CPF Series Valve Installation and Operation

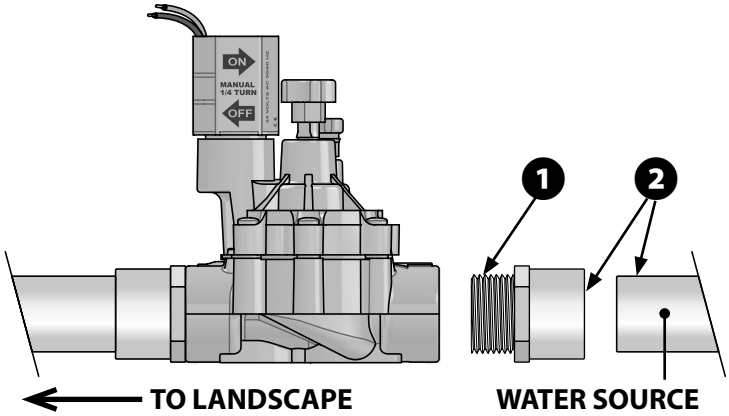


Before Installation

- Install master valves, pressure regulators and backflow preventers as needed.
- A pressure regulator is required if water pressure exceeds 150 PSI (recommended over 80 PSI).
- Inline valves require a separate backflow preventer in the main line. Check local building codes.
- Flush the system thoroughly until water runs clear.
- Shut off the main water supply.

Connect Valve to Pipes

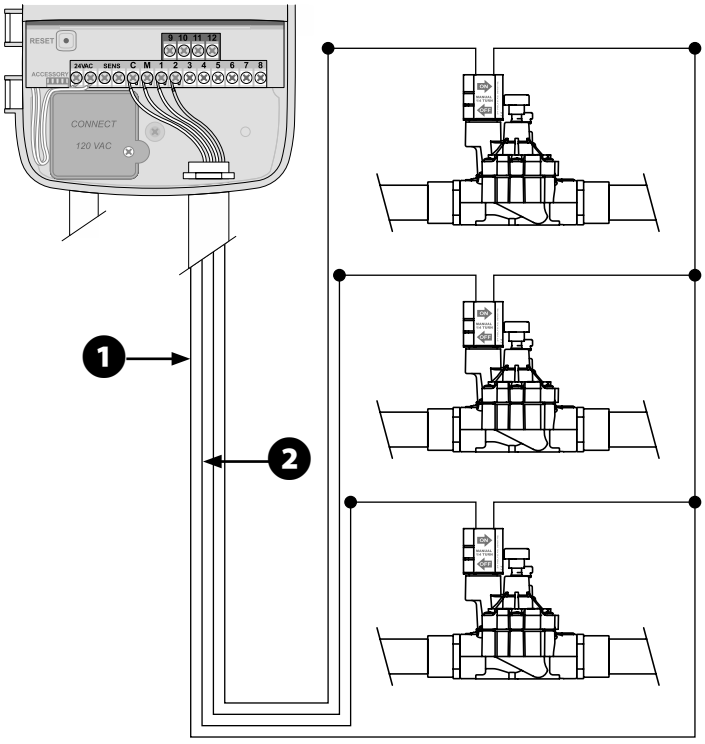
1. Apply PTFE thread-seal tape to the male threads on the adapters, screw into the valve and hand-tighten (do not use PVC glue or pipe dope on adapter threads).
2. Apply primer and then PVC cement to the ends of the pipe and inside the adapters per manufacturer's instructions.
3. Ensure the valve arrows face in the direction of water flow, and push valve onto inlet and outlet pipes until secure. Follow PVC cement instructions for cure time.



Connect Valve Wires

NOTE: Use watertight connectors and direct burial wire for all connections.

1. Connect one solenoid wire to a common wire (usually white). All valves can share the same common wire.
2. Connect the second solenoid wire to a power wire (usually colored).



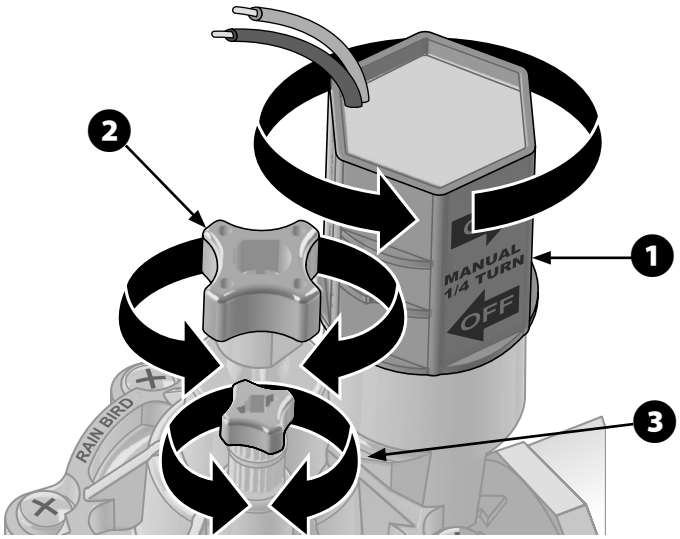
Valve Operation

Manual Operation:

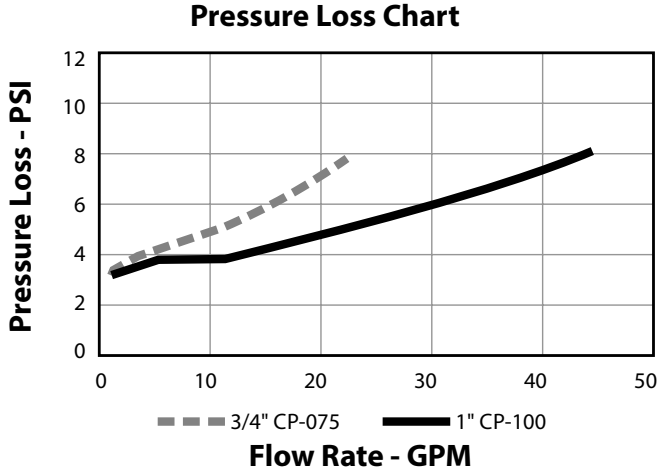
1. Manual on: Turn the solenoid counter-clockwise 1/4 turn. Do not unscrew completely. To close, hand tighten clockwise.
2. Flow control (select models only): Turn clockwise to restrict flow. Turn counter-clockwise to open flow.
3. Flush valve to clear debris: Turn the bleed screw counter-clockwise ONLY 1 turn. Flush one minute and turn clockwise to close.

First Use:

4. Open the main water supply and flush one minute with bleed screw to clear debris.
5. Test wiring by using the Manual Water feature on the irrigation controller.
6. Adjust the flow control to reduce over-spray. (select models).



Pressure Loss Chart



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

NOTE: For flows below 3 GPM (0.75 m3/h), or any drip application, use a 200 mesh filter upstream and a pressure regulating filter downstream from the valve. 40 psi for 1" and 30 psi for 3/4" drip lines.

Troubleshooting

Symptom	Solution
Valve Won't Turn On when Solenoid is Turned	Make sure flow control is open (select models)
	Check that main water supply is on
	Make sure piping is connected properly and not blocked
Valve Won't Turn On at the Timer	Verify timer settings are correct
	Check and repair wiring and connections as needed
	Check and replace valve solenoid as needed
	Verify timer power output
Valve Won't Shut-off	Verify timer settings are correct
	Hand tighten solenoid and bleed screw if needed
Valve Won't Turn On at the Valve	Incorrect timer settings
	Check wiring
	Check solenoid
	Timer not supplying power to the valve
	Make sure the Flow Control stem is not turned all the way closed
Leaks at sprinkler heads	Clear debris by opening the bleed screw and flushing 1 minute
	Remove and clean the diaphragm. Replace if needed.
Leaks around the valve	Check pipe fittings connection and glue, repair or replace as needed
	Hand tighten solenoid and bleed screw if needed
	If vacuum breaker is leaking (anti-siphon models) remove cap, gasket, and internal piston gasket to clean and reassemble
	Turn off main water supply, relieve pressure on the valve by opening the bleed screw and tighten the jar top bonnet

NOTE: During winter, shutdown and drain the system to protect 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.

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