

-Accessories-

Part Number 966 - Manual By-Pass Valve Kit

Application: To regulate flow to your Solar System and to reduce excessive backpressure on your pool pump.

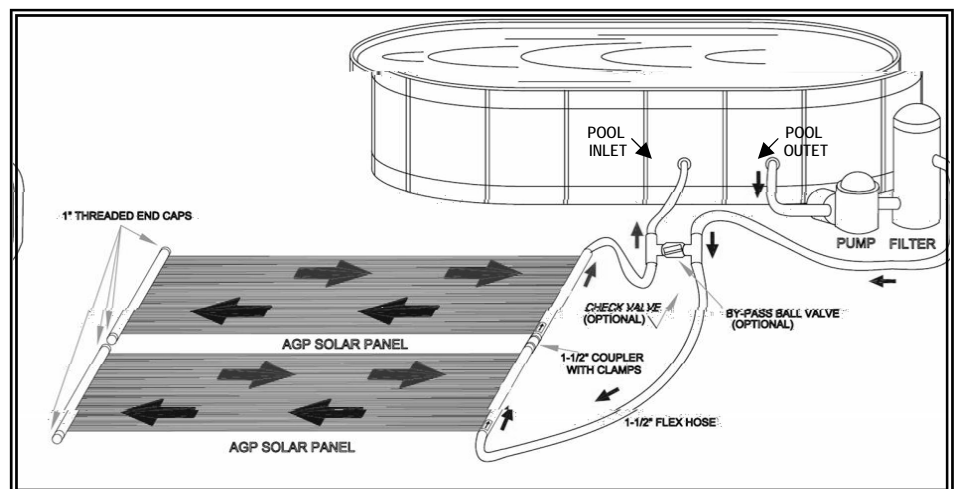
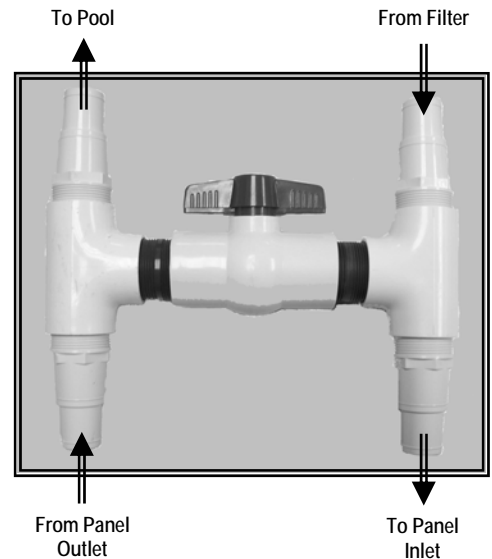
Kit Contents	
Quantity	Description
1	1 1/2" threaded ball valve
2	1 1/2" threaded nipple
2	1 1/2" threaded TEE
4	1 1/4" x 1 1/2" combination hose adapters
1	roll of thread tape

Additional Parts Required	
Quantity	Description
2	Flexible pool hose: 1 1/2" x required length
4	1 1/2" hose clamps

Tools Required: flat screwdriver or 1/4" socket driver, and adjustable wrench

Instructions:

- Apply about three wraps of Teflon™ tape around one end of each nipple and thread them into the ball valve.
- Repeat the application of Teflon™ tape around the other two ends of the nipples, thread on the TEES, and hand tighten.
- Repeat the application of Teflon™ tape around the threads of the combination hose adapters and thread each into the TEES as shown. Use an adjustable wrench to tighten. (Be careful not to over-tighten).
- Turn off your pool pump.
- Block the inlet and outlet of your pool using the plugs supplied by your pool manufacturer or a suitable alternative.
- Unhook the hose from the "Inlet" adapter of your solar panel and attach it to the "From Filter" adapter of the valve assembly.
- Install a hose from the "To Panel Inlet" adapter of the valve assembly to the "Inlet" adapter on your solar panel.
- Unhook the hose from the "Outlet" adapter of your solar panel and attach it to the "From Panel Outlet" adapter of the valve assembly.
- Install a hose from the "To Pool" adapter of the valve assembly to your pool inlet.
- Make sure to tighten all hose clamps.
- Make sure the valve is in the open position.
- Unblock the inlet and outlet of your pool.
- Turn your pump on and check the hose clamps and plumbing for leaks. If there is a leak at a clamp you will need to loosen the hose clamp, push the hose further onto the adapter and re-tighten the clamp.
- Take note of the pressure on your pressure gauge with the manual valve all the way open.
- Close the ball valve slowly until you see approximately 8 PSI more than when the valve was all the way open.
- This is your optimum valve setting for your solar system.
- Make a mark on the ball valve with a black marker, and always re-open the valve to this point when activating the solar system.



Typical Installation with Manual By-Pass Valve Kit