



Product Installation Tips

At Rawal Devices our technical team is constantly working to help improve the efficiency and effectiveness of your next APR Control install. The Product Installation Tips is a periodic release of the most common questions we are asked by installing contractors and service technicians. The answers will help streamline your next APR Control install.

Isolation Ball Valves

When installing an APR Control it is important to remember that isolation ball valves are required on the connections of the APR Control. Rawal Devices installation instructions and diagrams show a manual shut off valve at all three connections of the APR Control, labeled "M," "G," and "L" on the installation diagram.

Having all three manual shut off valves allows the APR Control to be removed from the circuit at any point in time. Having the ability to remove the APR Control from the circuit is important during startup, and trouble shooting, due to the fact that the APR Control can have an impact on the systems operating pressure.

In instances where an APR Control is being installed in a smaller circuit, you may not have room to install all three isolation valves; in that case it is important to install the isolation valve in the Mixed Gas Discharge Line, labeled "M" on the [Installation Diagram](#) of the APR Control. This will allow the APR Control to be isolated for troubleshooting, and startup purposes.

Solenoid Valves

When installing an APR Control in a unit with a pump down cycle a solenoid valve is required in the Mixed Gas Discharge Line, labeled "M" on the installation diagram, of the APR Control. This will eliminate any concerns of the APR Control attempting to modulate during the pump down cycle. The solenoid should be a normally opened valve with a manual stem that is activated and closed when the units pump down cycle is activated.

Low Charge Concerns

When a system has a low charge and an APR Control in the circuit it is possible that the factory low pressure switch may be bypassed. The APR Control is trying to maintain a pressure in the system above the low pressure setting. In many instances we recommend installing a temperature sensor on the hot gas discharge line of the compressor, the sensor should be set to lock the system out at a temperature between 185°F and 200°F which will prevent any damage that can be caused in a system that is under charged.

Rawal Devices' Technical Support

Whether you're installing the APR Control on new equipment or retrofitting an existing system, Rawal Devices' Technical Support can provide the technical application and device expertise you need. Call 800-727-6447 or email at techsupport@rawal.com