



# Legacy Series AA Zone Valve Installation Guide

Determine the proper Automag Zone Valve to use, based on the pipe size, pump head rating, and system flow (GPM), according to the table below.

Valve #	Pipe Size	Pump Head	Max. flow (GPM)	Coil #	VA
AA 3/4-14	3/4"	14'	4 1/2	#31	6
AA 3/4-25	3/4"	25'	6	#29	8
AA 1-16	1"	16'	8	#29	8
AB 3/4-8	3/4"	8'	4 1/2	#32	4

The **MB** Power Supply is available with a 50VA transformer. Determine the proper Coil and VA transformer needed, according to the table above. The AA Series can also be installed with the Automag AZC 40P/60P control and wiring centers.

Automag Zone Valves utilize 24 Volts DC to close, and are **normally-open** (powered-close). The powered-close feature ensures that the hot water will circulate, by gravity, if power to the zone valve fails.

When installed with an MB Power Supply, the Automag Zone Valves require 3-wire thermostats, which control opening and closing of the valve, and maintain boiler control through the "TT" connection. If you use 2-wire thermostats, you must wire each zone valve to a CNV84 Relay. The CNV84 Relay will convert as if using a 3-wire thermostat.

Automag Zone Valves may be installed in any position, however, it is best to install the valve on a horizontal line with the coil on top. This ensures gravitational flow in case of a circulator malfunction. For gravity systems and monoflow systems coil must be installed on top.

**!** The direction of flow for the system must be the same as the directional arrow cast into the valve body.

Automag Zone Valves utilize strainers to avoid excessive flux or solder from entering the valve, but it is advised to use flux and solder sparingly.

If the system was converted from steam to hydronic, loose rust and metal particles may be present, which can clog any zone valve. If installing this conversion system, install the Automag Zone Valve with an inline "Y" strainer in front of the zone valve (with ball valves to isolate the system), or use a magnetic dirt and sediment filter.

**!** Coil cover and coil **MUST** be removed prior to soldering. Do **NOT** disassemble the valve base, or damage/mutilate the valve stem in any way, as this will void the warranty.

**!** Do **NOT** exceed circulator head rating of the valve. Using slightly larger pipe size is recommended when a larger oversized circulator is installed.

When working with an existing (discontinued) RS-260 thermostat with adjustable anticipator settings, set the anticipator to 1.0.



## Universal RI Zone Valve Installation Guide

*MULTIPLE VALVES ON ONE THERMOSTAT  
AUTOMAG DIGITAL TS 1025 OPTION*

