

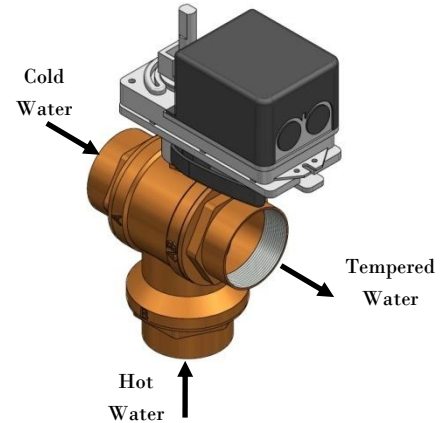
VAL30002 Motorized Low Temperature Valve

Non-Condensing Boiler Protection For Low Temperature Systems

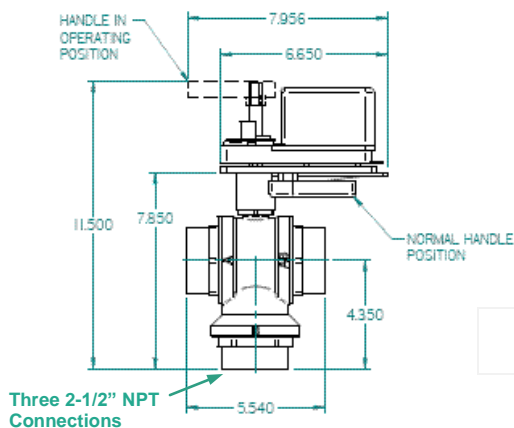
Designed for use with Power-fin Boilers

When designing a boiler system with return water temperature below 130°F it is necessary to protect the boiler from heat exchanger condensation. All non-condensing boilers will develop operational problems if they are continually exposed to system return water temperatures below 130°F. Typical systems that require this protection are water source heat pump systems, in-floor radiant heat systems, greenhouse heating, soil heating, process operations and manufacturing operations. Additionally, heating systems that utilize nighttime setback, night/weekend shutdown, or outdoor reset control strategies should incorporate low water temperature protection.

To prevent low return water temperatures to the boiler and combat operational problems, the system should be piped in a Primary/Secondary arrangement with a low temperature bypass. Manual bypass systems are not the ideal solution due to the varying flow rates and varying firing rates of the boiler. A better alternative is Lochinvar's Motorized Low Temperature Valve VAL30002, which is a 2-1/2" NPT threaded motorized valve electronically controlled by the Power-fin's Smart System control.



VAL30002 Valve Dimensions



VAL30002 Typical Piping

