Bypass Thermostats

This design of thermostats uses a bypass system to speed engine warm up. When the engine is cool the thermostat is closed. This allows coolant to circulate through the engine by way of a bypass canal located directly below the thermostat. As the engine warms up, the thermostat begins to open allowing coolant to pass through to the radiator. At the same time a lower poppet or bypass valve moves down to block the bypass canal. When the thermostat is fully open the bypass is fully blocked circulating all coolant through the radiator.

NOTE: If the thermostat has a jiggle pin, check valve, or other feature to assist in bleeding air from the system in a vertical installation, the jiggle pin should be located at the north or 12 o’clock location.