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MARATHON INTERNATIONAL

January 6th, 2009

Re: Baxi Check valve (non-return valve)

A check valve allows flow in one direction but stops flow in the opposite direction. It is also referred to as the "non-return valve".

In static conditions the check valve is normally closed. The spring tension forces the plunger into its seal keeping the check valve closed.

In dynamic conditions the water pressure exceeds the spring tension. The plunger is lifted off its seat allowing water to flow flow through the valve.

In backflow conditions when the pressure downstream of the valve increases, or if the system pressure upstream of the valve decreases, causing the flow to reverse direction the spring loaded plunger closes and prevents backflow.

The Baxi combination units utilize a check valve, or backflow preventer in the filling mechanism of the unit. When the manual fill valve is opened the check valve will allow water to flow from the domestic cold water line into the central heating system. In the event the pressure becomes higher in the central heating system and the manual fill valve is open the check valve will prevent any water from the central heating loop from entering the domestic cold water line.

If you require any additional information please feel free to contact me.

Sincerely,

Jamie Jackson
Technical Advisor
Marathon International