

Vitodens 100 B1KE199 DHW Check Valve Removal Without Removal of Hydraulic Assembly

Vitodens 100 B1KE199 DHW Check Valve

Procedural Steps without Removing Hydraulic Assembly

- This Procedure was to Test the Feasibility of Removing the DHW Check Valve in a Vitodens B1KE199 Without Removing the Hydraulic Assembly
- The Boiler Pictured was NOT Plumbed/Installed/Filled with Water
- The Procedure Noted Took Approximately 30 Minutes - This Does not Include Draining and Filling/Purging the Boiler and DHW Piping.

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Procedural Steps without Removing Hydraulic Assembly

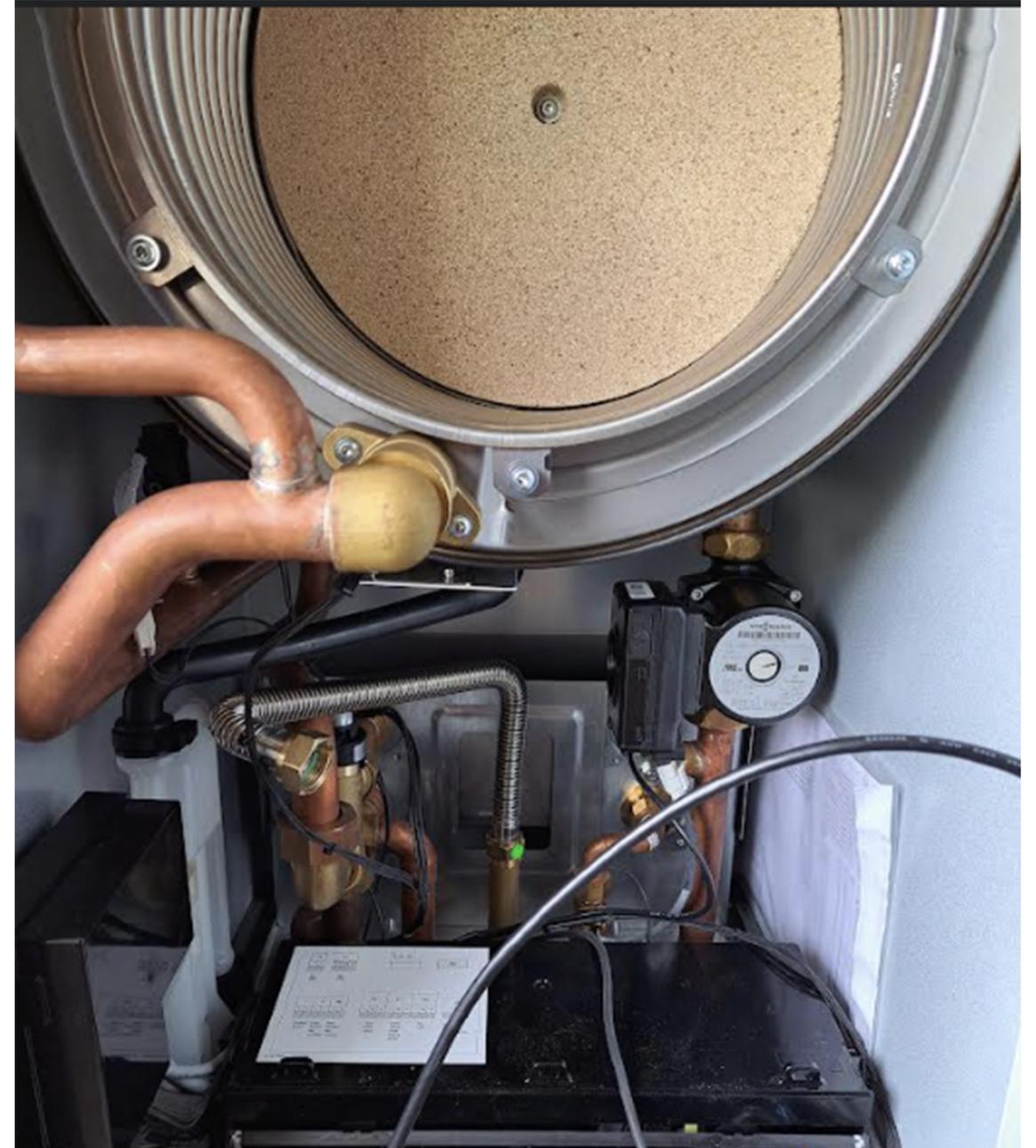
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Shut Off Boiler/Close Gas Valve

Close Isolation Valves and Thoroughly Drain Boiler and DHW Piping

Remove Burner Assembly/Flexible Gas Line & Condensate Line

Protect Electronics from any Residual Water with Plastic & Shop Towels!



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****Boiler Pictured was not Plumbed/Filled**

Plate Exchanger is Secured with (2) 13mm Fasteners

Fastener on Right Side is Easily Accessible with Socket & Extension

Check Valve is Located in the Mounting Plate Behind the ECM Circulator (Top Right of Plate Exchanger)



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13mm Fastener on Left is behind the 3 Way Valve -
Use 13mm Socket Swivel or 13MM Box Wrench

Push Center of Plate Exchanger via the Opening
in the Mounting Plate to Clear the Studs.

There is Enough Room to Lift the Plate Exchanger
out from the Mounting Plate

Reach Behind Mounting Plate to Remove the
Original Check Valve (Top Right Hand Side)



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DHW Plate Exchanger Removed

Check Valve Shown Removed

Removal of DHW Plate Exchanger Must be Done with Great Care:

There is a Considerable amount of Water that Remains in the Plate Exchanger - Removing the Plate Exchanger from the Mounting Plate will yield water leaking out of the tappings: Protect Electronics From Residual Water During Removal!

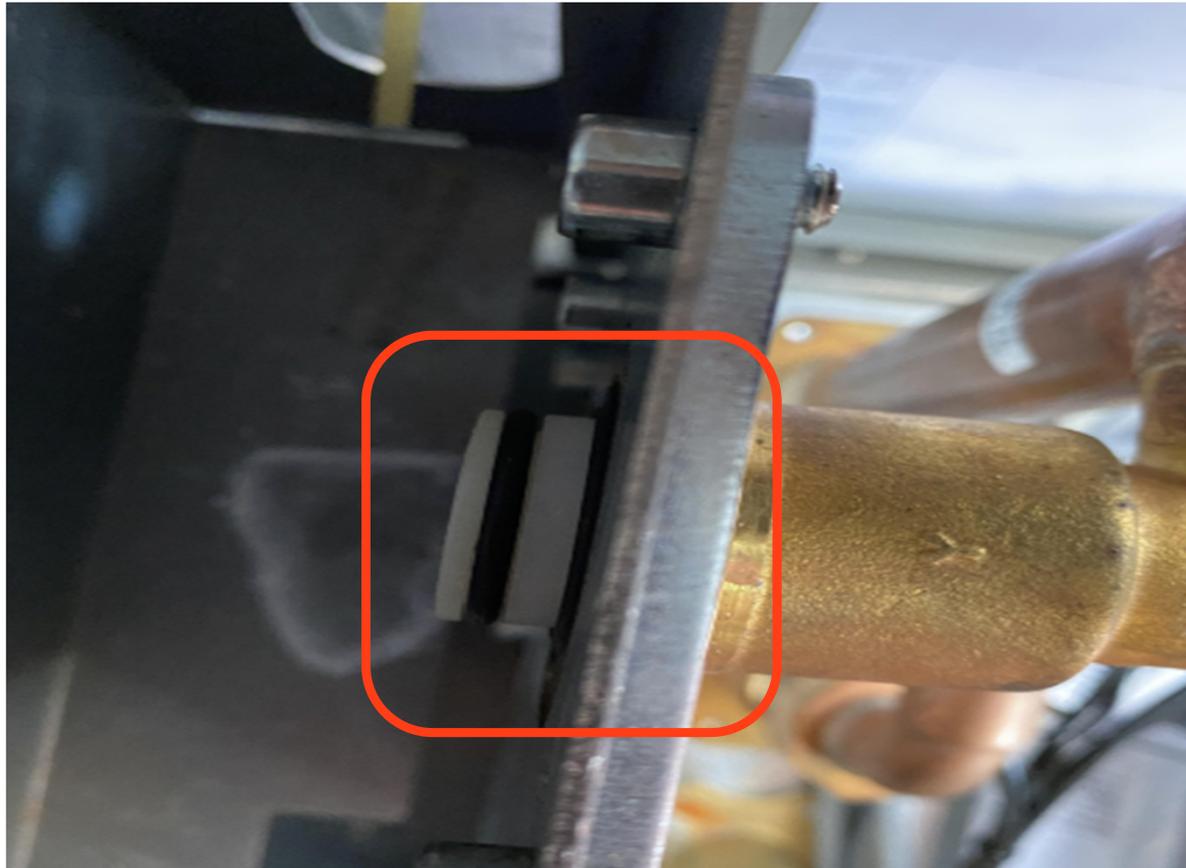


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Procedural Steps without Removing Hydraulic Assembly

Install New Check Valve P/N# 7890563 in Tapping Behind Mounting Plate

Verify New Check is Properly Seated with Telescoping Mirror



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Procedural Steps without Removing Hydraulic Assembly

Install Plate Exchanger Ensuring New Check Valve Remains in Place

Align Studs on Plate Exchanger to Pass Through Openings in the Mounting Plate

Tighten Left and Right 13MM Fasteners



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Procedural Steps without Removing Hydraulic Assembly

Install Burner Assembly, Gas Line &
Condensate Line

Purge Boiler and DHW Piping

Thoroughly Check for Leaks!