

Plumbing & Other Connections

NOTE: The cold water inlet, cold flow and hot return lines require an approved isolating non-return valve.

In some locations regulations require a pressure relief valve be fitted to the cold water supply. All hot water pipes must be insulated.

1. Complete the flow and return plumbing as per the particular system schematics (on reverse page)
2. Connect up the hot & cold water pipes to the particular connections on the tank ensuring that a tempering valve is included.
3. Complete the drain pipe for the PTR valve in an appropriate manner
4. Connect up the gas line to the booster
5. Connect the collector panel sensor lead into the 'Panel' socket on the solar controller (Fig 3: 3 - under pump station cover)

Filling and Commissioning the system

Do not turn on the gas booster until system is full

Filling the storage tank cylinder & purging air (Fig 3)

1. OPEN the mains cold water valve (1) to the tank making sure the pressure / temperature relief (PTR) valve (2) is OPEN
2. When water flows from the PTR valve, CLOSE the PTR valve
3. Draw water through the tank by OPENING a hot water tap in the house, waiting until water flows out of the tap
4. Leave water running until air is bled (i.e. no more bubbles or spitting) then turn OFF the hot water tap in the house
5. Plug the solar controller lead into the GPO (4), and switch ON

Filling the solar loop & purging the remaining air (Fig 3)

6. Loosen the nut immediately before the non-return valve on the collector return line (5). *Note: Non return valve may be built in or as a separate non return valve (Shown as separate).*
7. Allow water to drip until no further air is detected (i.e no bubbles)
8. Re-tighten the nut on the non-return valve (5)
9. Check the system for leakage by pressure testing all fittings to a minimum of 800 kPa. If any leaks are detected, rectify them immediately, and then the tank is prepared for use

At time of commissioning the flow meter should be set, when the pump is running, to 0.75 l/min for single panels and 1.75 l/min for 2 panel systems. The flow rate can be adjusted using the slotted screw at the top of the flow meter with a blade screwdriver (Fig 4). NOTE: Ball valve must be open to allow flow. Failure to do so may lead to pump failure.

Activating gas booster (Fig 5)

10. Plug the power lead for the gas booster into the GPO and ensure it is switched ON (7)
11. OPEN the gas supply valve to the gas booster (6)
12. Turn ON the hot water tap inside the house to check if the booster is working
13. Test the water temperature to ensure temperature is rising
14. Set the tempering valve as per local authority / regulations
15. Complete system with fascia cover and fix into position using appropriate fasteners into the lip on the system spine

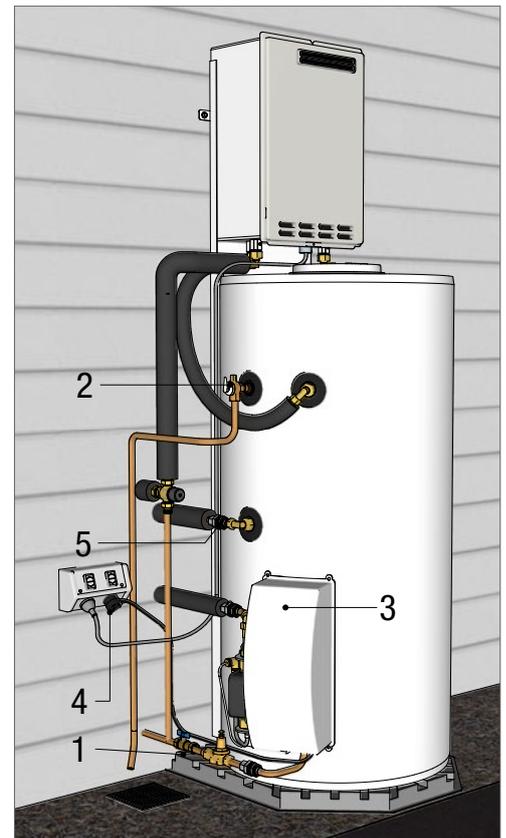


Fig 3

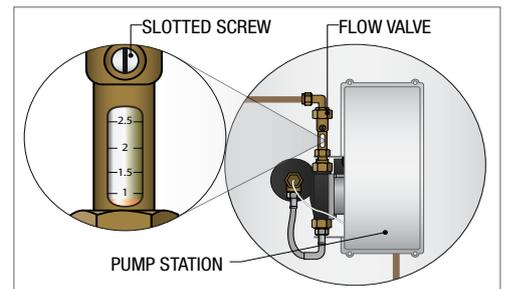


Fig 4

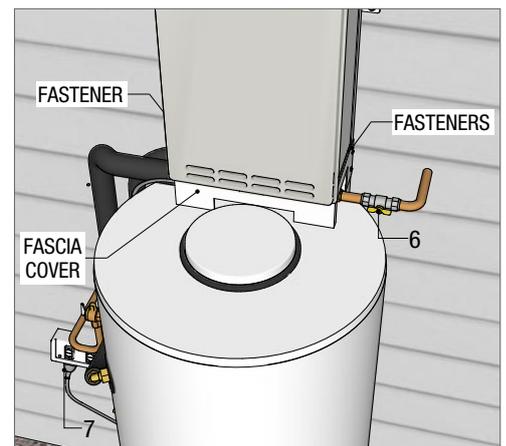


Fig 5



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