

Techflange Installation Guide Fitting a Techflange

Hot Water Cylinder Connections

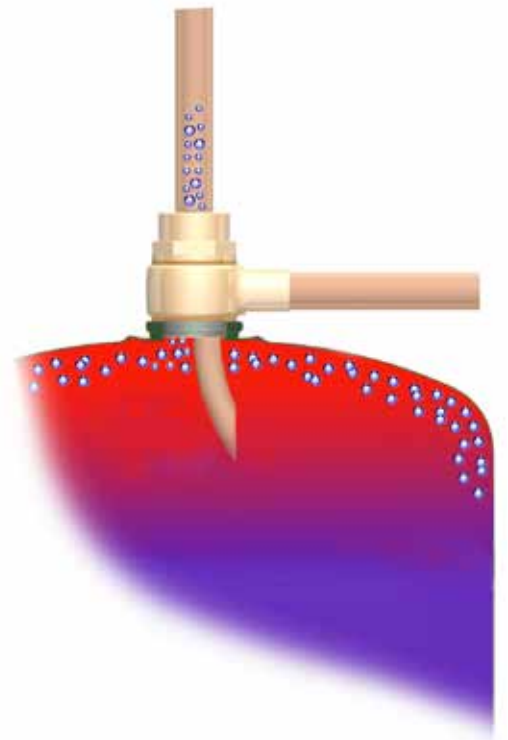
Techflow products offer dedicated hot water cylinder flanges designed to ensure your techflow pump performs at its best.

We offer two designs the Techflow top entry or Techflow side entry cylinder flanges, please see the selection chart below to match to your pump.

Pump Range	Preferred Flange	
	Top Entry	Side Entry
Turbo	Turbo 2 & 3 only	All models
TP	All Models	
QT	QT50 & 80 only	All models

Fitting Instructions Top Entry Techflange

- Isolate cold supply to the hot cylinder and rising main
- Drain down the hot water
- Remove existing fittings from the top of the cylinder
- Clean cylinder flange top to ensure a good seal
- Fit the cylinder flange to the cylinder ensuring both the sealing washers are correctly located
- Orientate the outlet connection in the desired direction and carefully tighten up assembly
- Re-connect the open vent and original hot water draw off pipe to the top
- Connect the secondary air free supply using a 22 mm push-in or compression fitting (not suitable for solder fittings)
- Ensure all drain cocks are closed and all fittings are tight
- Restore the water supply to the hot cylinder
- Check carefully for leaks



Fitting Instructions Side Entry Techflange

- Select a position on the hot water cylinder away from any immersion heater port as water drawn from the area around the immersion heater will be aerated.
- Mark the centre point of the proposed hole approx. 60 mm below the cylinder seam and cut a 75 mm square out of the insulating material.
- Lower the water level in the cylinder to a point below the position of the proposed hole.
- Using the template supplied (see Pump box) mark out the centre-point of the hole and a circle 60 mm diameter.
- Using the Shell Cutter supplied cut a hole (35 mm dia.) using the marked centre point. Clean away any burrs from cut edge of the hole and remove any limescale deposit from the inside face of the cylinder to ensure a clean sealing face.
- Remove Nut and Washers from the Flange Assembly (1). Manipulate the Flange Assembly (1) through the hole cut in the cylinder by holding at an angle and rotating. Check that the flange tube does not interfere with the immersion heater coil and if necessary reduce length of tube.
- Open up the gap in the Split Washer (2) and slide onto the Flange Assembly (1). Feed split end through cylinder wall and rotate to position on inside of cylinder. Locate over the threaded section of the flange and pull Flange Assembly (1) up against inside wall of cylinder to close gap in washer.
- Now slide Sealing Washer (3) onto flange and feed through hole to position on threaded section of Flange Assembly (1).
- Fit second Sealing Washer (4) and Clamp Washer (5) over flange and push up against cylinder wall.
- Apply a bead of clear silicon sealant around inner diameter of Clamp Washer (5). Fit Nut (6) and hand tighten. DO NOT APPLY SEALANT TO SEALING WASHER (4).
- Ensure that the RED DOT on the Flange Assembly (1) is positioned upper-most and that the assembly is central within the circle marked on the cylinder. Lightly tighten Nut (6) to clamp up assembly. DO NOT OVER TIGHTEN.
- Adjust length of protruding copper tube if required and complete pipework to Pump inlet ensuring that an isolating valve is fitted. When using compression fittings ensure that the Flange Assembly (1) is gripped to prevent rotation. Close isolating valve re-fill system and check for leaks. If necessary tighten Nut (6) to achieve seal.

