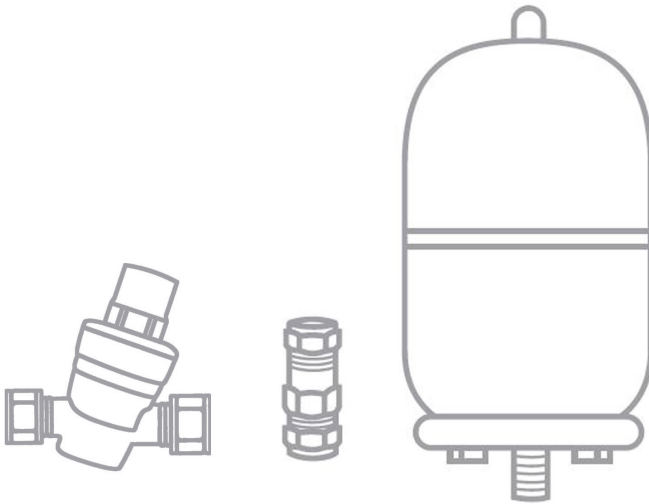




Product Instruction Manual
Pressure and Expansion Kit



SF4
Unvented Accessory Kit

Overview

Thank you for purchasing an SF4 Expansion Vessel, Check Valve and Pressure Reducing Valve kit. To be used with the Speedflow range of unvented water heaters, available in 5, 10 and 15L capacity.

Please read and follow these instructions to ensure that installation and operation are as simple and safe as possible.

1. Box Contents

Expansion vessel
Check valve (one way)
Pressure reducing valve

2. Installation

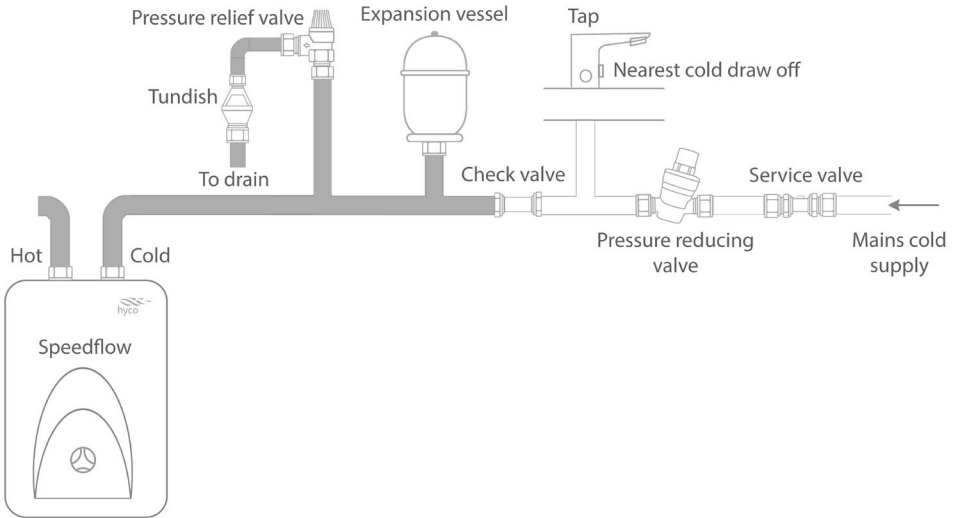


The installation of this kit should be carried out by a competent person in accordance with any local plumbing regulations.

- A service valve (not supplied) should be fitted to facilitate future maintenance.
- Install the supplied check valve on the pipework between the nearest cold water draw off and the Speedflow water heater. The direction of flow must follow the arrow marked on the check valve. It is imperative that no fittings, other than those specified, are installed between the check valve and the water heater.
- Select a suitable location for the expansion vessel, consider the reach of the flexible hose as well as the need to keep the vessel itself in an upright orientation (hose connection at the bottom).
- Choose a suitable location to install the pressure reducing valve. It must be upstream of the expansion vessel and nearby cold water draw off. The orientation of the valve is optional, but the direction of flow must follow the arrows marked on the body of the valve.
- The pressure reducing valve offers 15mm compression fittings on the inlet/ outlet.
- The pressure relief valve supplied with the Speedflow water heater (not this kit) **must** be installed. A tundish is also required (not supplied).
- Ensure the installation diagram is followed.

Important

Grey area represents expansion zone. It is imperative that no fittings, other than those specified, are fitted in the 'expansion zone'.



3. Commissioning

- Upon completion of installation, turn on the water supply to the heater and allow the water heater to fill. Open the hot water tap to allow air to purge from the system.
- Once the water runs smoothly from the hot water tap and the air is purged from the system, close the tap and inspect all fittings for leaks. Inspect the tundish to ensure no signs of discharge from the pressure relief valve (see section 6. Trouble Shooting).
- Turn on power to the water heater and set the thermostat dial to maximum temperature. This is required to ensure the expansion vessel is able to accommodate the full amount of expansion the water heater can produce.
- Allow the heating cycle to finish and inspect all fittings for leaks. Inspect the tundish to ensure no signs of discharge from the pressure relief valve (see section 6. Trouble Shooting).
- Upon completion of commissioning, set the water heater to the desired temperature and leave these instructions for future reference with the property owner/user of this kit.

4. Maintenance

- Whilst the system is unpressurised and with the vessel drained of any water, check the expansion vessel to ensure the pressure meets that stated on the rating label. This must be done annually or if unexplained discharge from the relief valve is present.
- Refer to instructions supplied separately with the pressure reducing valve for maintenance guidance.
- Keep records of maintenance and ensure any future occupier of the building is fully aware of the requirement for maintenance.

5. Specification

Product	Expansion Vessel	Check Valve	Pressure Reducing Valve
Dimensions (h x w x d)	225 x 120 x 120 mm	65 x 25 x 25 mm	73 x 64 x 46 mm
Connections	1/2 " MBSP	2 x 15 mm compression	2 x 15 mm compression
Weight	1.0 kg	0.1 kg	0.3 kg
Pre set pressure	3.5 bar	N/A	3.0 bar

6. Troubleshooting

Problem	Possible Cause	Solution
Water discharged from pressure relief valve whilst appliance is turned off	Water pressure too high (above 4.2 bar)	Check pressure reducing valve (see section 4. Maintenance)
Water discharged from pressure relief valve whilst appliance is heating	Pressure build up caused by water expansion	Check charge of expansion vessel (see section 4. Maintenance)
Water discharged from pressure relief valve whilst appliance is heating	Pressure build up caused by water expansion	Ensure no obstruction between water heater and expansion vessel (see diagram in section 2. Installation)

7. Guarantee and Service Policy

This product is guaranteed against faulty materials and manufacture for a period of one year from the date of purchase. Hyco will in its sole discretion replace, repair or refund any faulty unit. Incorrect installation and failure to follow correct operating instructions are excluded. Consequential costs such as labour charges or damage to surroundings are expressly excluded.

8. Contact Us

If you experience a problem with this product you should first contact our service department on 01924 225 200 before taking any further action. Experience has shown that issues can often be resolved without the need to return or uninstall the product.

Hycos Manufacturing Ltd
Normandy Court
Express Way
Castleford, WF10 5NR

hycos.co.uk



T 01924 225 200
E sales@hycos.co.uk