



*heating and plumbing products  
that won't cost the earth*

**Expansion vessel  
connection kit for solar  
heating systems**



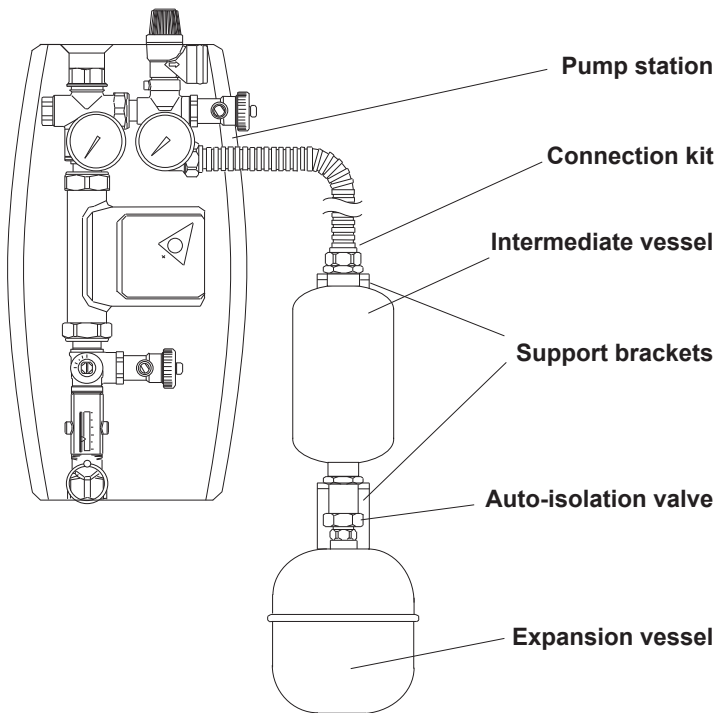
# Solar expansion vessel connection kit

## Description

There are two connection kit configurations available. Each kit includes a wall fixing bracket, either a self closing system isolation valve or a combined lockshield and drain valve (so that the vessel can be removed for maintenance without draining the fluid from the system and facilitate periodic gas charge checks). A pre-formed stainless steel flexible hose is also provided to connect the vessel to the system at the connection point provided on the Intaeco Solar Pump and Control Station.

Intermediate vessels are also available and are recommended on solar thermal systems as temperatures within the system can exceed the maximum allowable working temperature of the expansion vessel. These vessels have inlet/outlet connections and are installed before the main expansion vessel. The heat sink that the intermediate vessel provides reduces the working temperature at the diaphragm, and so extends the working life of the expansion vessel considerably.

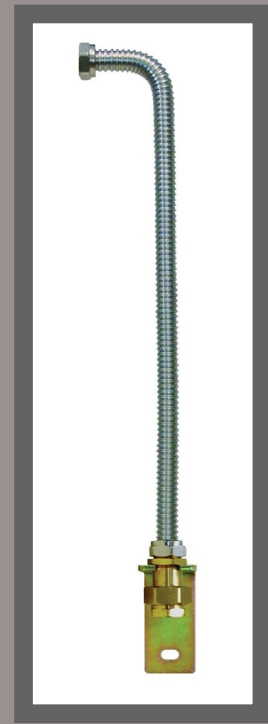
It is particularly important that an intermediate vessel is installed on systems where the volume of the collectors exceeds the volume within the flow and return pipework. This is because during stagnation periods the solar fluid within the collectors can reach vapourisation point. If this occurs the very hot solar fluid in the solar collectors is forced out by the vapour into the expansion vessel.



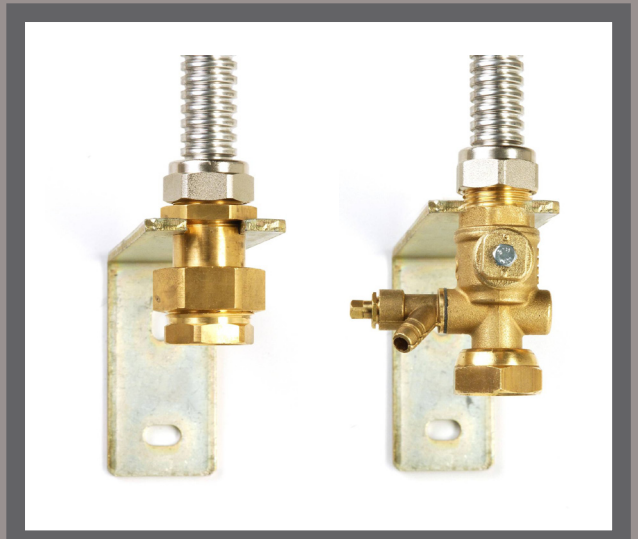
Cat No.	Description
A1 SOVK-A1	Solar expansion vessel connection kit including wall support bracket, 3/4" auto-isolation valve, stainless steel flexible connecting pipe with nut unions.
M1 SOVK-M1	Solar expansion vessel connection kit including wall support bracket, 3/4" combined lockshield and drain valve, stainless steel flexible connecting pipe with nut unions.
SOVK-ZSV-1	3/4" combined lockshield and drain valve
SOVK-ZSV-2	1" combined lockshield and drain valve

## Larger Systems

On larger systems the solar expansion vessel may be a floor standing type, in which case the combined lock shield and drain valve can be supplied separately for installation, this is available in both 3/4" and 1" sizes.



Expansion Vessel Connection Kit



Expansion Vessel isolation valve detail



Combined lock shield valve and drain cock

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