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## Solar expansion vessel connection kit

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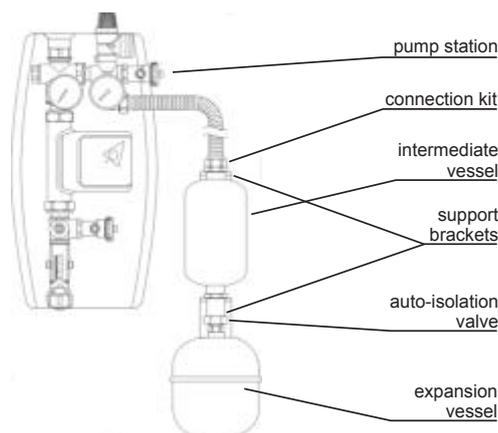
## Description

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 to 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 considerably extends the working life of the expansion vessel.

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 very hot solar fluid in the collectors can reach vapourisation point. If this occurs, the very hot solar fluid is forced out by the vapour, into the expansion vessel.



product description	product code
Vessel Connection kit A200 (BAG)	SOVK-A200
Solar expansion vessel connection kit incl. wall support bracket, 3/4" auto-isolation valve and stainless steel flexible connecting pipe with nut unions	A1 SOVK-A1
Solar expansion vessel connection kit incl. wall support bracket, 3/4" combined lockshield & drain valve and stainless steel flexible connecting pipe with nut unions	M1 SOVK-M1
3/4" combined lockshield and drain valve	SOVK-ZSV-1
1" combined lockshield and drain valve	SOVK-ZSKV-1

## Larger systems

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



expansion vessel  
connection kit  
SOVK-A200



expansion vessel  
isolation valve detail



combined lock shield valve  
and drain cock