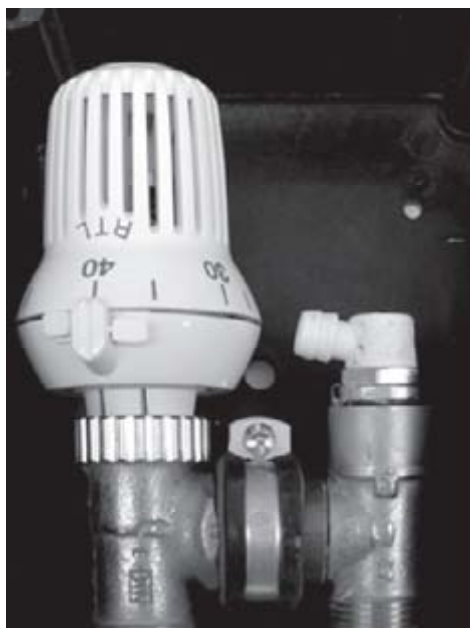


## RETURN LIMITING VALVE FOR SMALL ZONE UNDERFLOOR HEATING

Return limiting valves are used where there are small areas of underfloor heating attached to a radiator circuit.

Underfloor heating runs at lower temperatures than radiators. Radiators run at around 70°C; if water at this temperature was put into the underfloor circuit at the normal flow rate the floor would be too hot to stand on. Underfloor heating typically uses water supplied at between 25°C to 35°C

With a return limiting valve hot water still enters the underfloor circuit at high temperature but at a much lower flow rate than normal. This means the total heat supplied to the floor is not sufficient to cause it to overheat.



### EFFECTS OF DIFFERENT FLOOR COVERINGS

In general to turn up the heating, turn up the valve to a higher temperature and to turn it down to lower the temperature. Underfloor heating takes a long time to change and therefore you should leave it for a few hours or even a day for the heating to stabilize.

As the heat given out by the floor is also controlled by the amount of time the radiators are on you should be aware that in warm weather when the radiators aren't on very much, the floor won't be heated as much as usual. In this situation you may want to turn up the valve if you find the floor not getting as hot as you would like.

The actual temperature you will need depends on personal comfort levels, how the whole heating system is used and the construction of the house.