

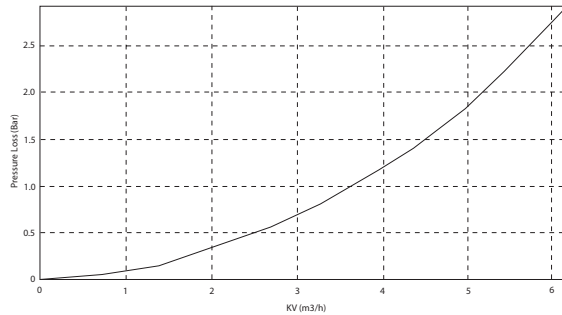
Working Parameters and Specifications

Factory temperature setting:	47.5°C
Temperature setting range:	Ambient to 60°C (65°C max)
Maximum flow supply temperature:	85°C
Maximum return supply temperature:	5-75°C
Temperature stability:	+/- 3°C
Maximum working pressure, static:	16 Bar
Maximum working pressure, dynamic:	6 Bar
Minimum working pressure, dynamic:	0.2 Bar

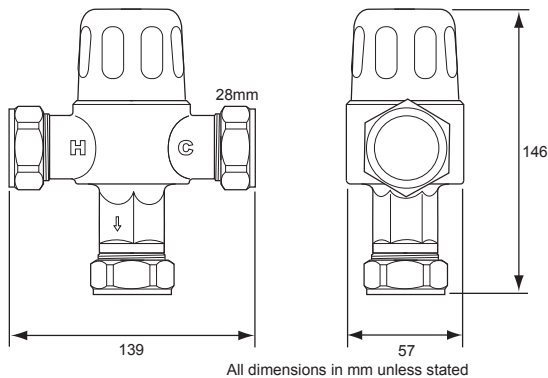
Materials

Body:	Cast gunmetal
Internal brass components:	DZR brass
Seals:	Nitrile elastomer
Spring:	Stainless steel
Piston:	Polysulfone polymer

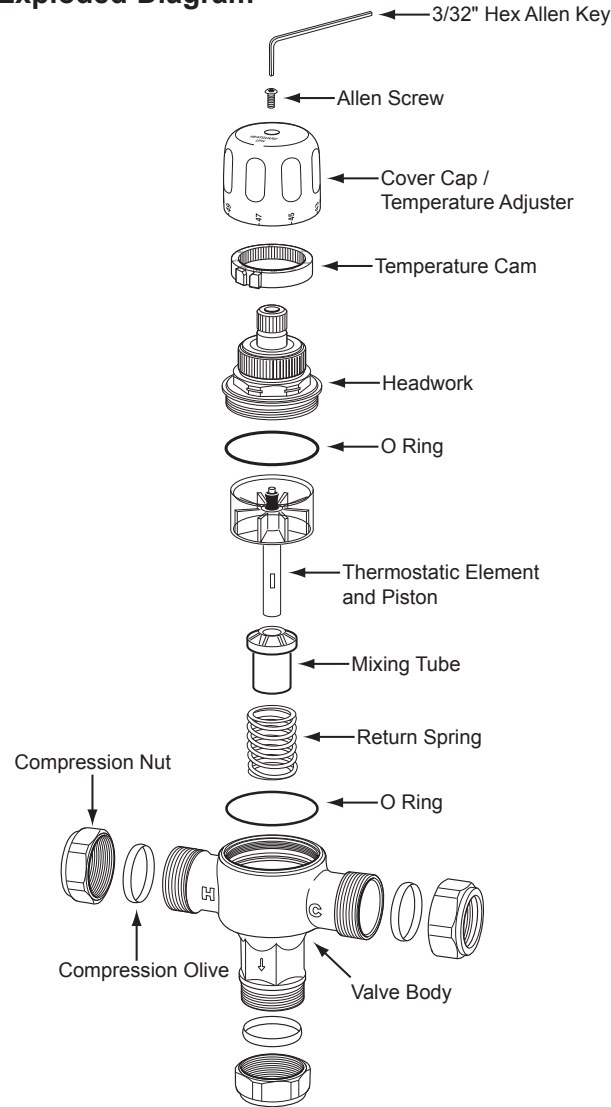
Flow Characteristics



Dimensions



Exploded Diagram



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 ZINS115002_003_10-15

Installation and Maintenance Instructions

RELIANCE

WATER CONTROLS

Heatguard UFH 28mm Underfloor Heating Blending Valve



A 28mm thermostatic blending valve for blending the flow and return to achieve a stable system temperature in underfloor heating systems up to 300m²

Installation

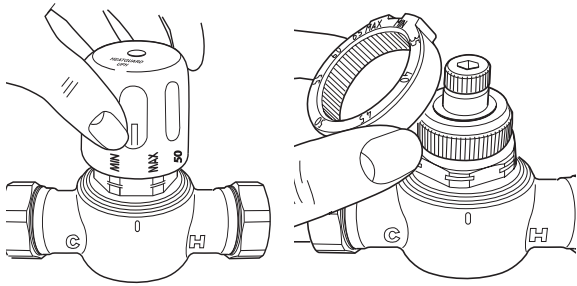
Thermostatic mixing valves are temperature sensitive appliances so must not be subjected to extreme temperatures (either hot or cold) in use or installation. If using capillary fittings, do not solder with the main valve in place. Make up a space piece to make the joints.

BRAZING OR SOLDERING ON OR NEAR THE MAIN VALVE BODY MUST BE AVOIDED.

To set and lock the outlet temperature

The Reliance UFH mixing valve is supplied set at 47.5°C and in the fully adjustable position. To set and lock the valve at a specific temperature, adopt the following procedure:

1. Remove the cap and the cam, refit the cap and at approximately 50% flow rate, adjust the temperature to the required preset temperature.



2. Refit the cam with the set temperature lined up with the indent on the valve body.

3. Refit the cap ensuring that the locking tab inside, lines up and engages between the two lugs on the cam.

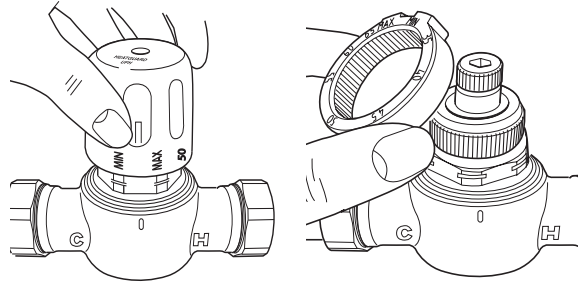
Initial Heating Up

This operation shall be carried out at least 21 days after the laying of the cement screed or in accordance with the manufacturers instructions, but at least 7 days in the case of anhydrite screeds. The initial heating up is recommended to commence at a supply temperature of 30°C which shall be maintained for at least 3 days. Subsequently the maximum design temperature shall be set and maintained for at least a further 4 days. The process of heating up shall be documented.

Maintenance

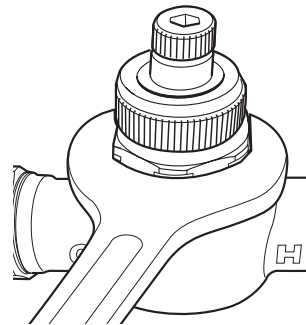
If water conditions or installation conditions are severe, and the valve is sluggish in operation, it is possible that there is a build up of scale within the valve. The valve can then be stripped down and cleaned very easily.

1. Isolate the hot and cold supplies via the service and remove the main body of the valve from the installation.

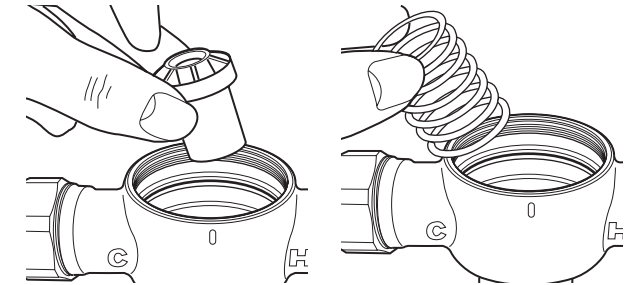
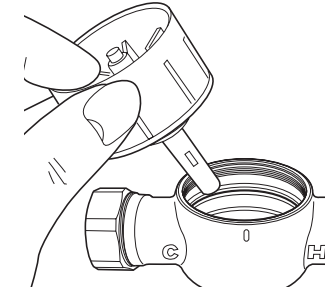


2. Remove the control knob and cam.

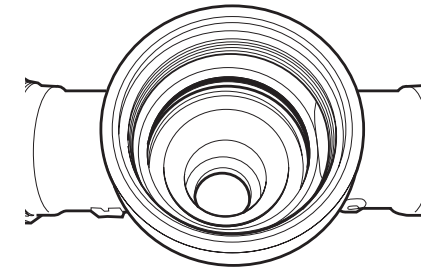
3. Remove the headwork using a spanner. If using an adjustable spanner ensure it is correctly adjusted to avoid damage to the headwork. The headwork can now be removed.



4. The thermostatic element, piston and spring can be lifted out. Ensure you note the orientation of all the components so that they can be re-assembled in the correct order (see exploded diagram overleaf).



5. With the spring removed the o-ring seal can be inspected, cleaned and re-greased. If the o-ring is damaged it must be replaced.



6. The components removed should be inspected and if any are damaged they must be replaced.

7. After cleaning and re-assembly, the valve should be reset and tested. A record of the results should be retained for future checks.