

CLASS 1

## Building Product Information Sheet

Product name:

Reliance Underfloor Mixing Valve

Product line (the product line from which the product is customised):

Mixing valves

Product description and its intended use (measurements, materials, usage):

Simple underfloor mixing valve for bespoke configuration application.

A 22mm Heat guard UFH blending valve for mixing the flow and return water to achieve a stable system temperature in underfloor heating systems.

Supplied in 25mm with 3/4" BSPM connections

Product identifier (if applicable):

VRELUFMIX

Please of manufacturer:  Aotearoa New Zealand  Overseas

Legal and trading name of the manufacturer(s):

Reliance Worldwide Corporation (NZ) Ltd

Legal and trading name of the manufacturer(s):

Central Heating New Zealand Ltd

Address for service:

STREET NAME 52 Pilkington Way

SUBURB Wigram

CITY, COUNTRY Christchurch, New Zealand

POSTCODE 8042

Website:

<https://www.centralheating.co.nz/>

Email Address:

info@centralheating.co.nz

Phone No. (if applicable):

03 357 1233

NZBN (if applicable):

9429036621231

Relevant Building Code clauses:

Clause B2 DURABILITY:  
Performance B2.3.1 (b)

Clause F2 HAZARDOUS BUILDING MATERIALS:  
Performance F2.3.1.

Clause G10 PIPED SERVICES:  
Performance G10.3.1 (a).

Statement on how the building product is expected to contribute to compliance:

Clause B2 DURABILITY:  
Performance B2.3.1 (b) 15 years. Valves are moderately easy to access and replace if installed in accordance with the instructions and product requirements.

Clause F2 HAZARDOUS BUILDING MATERIALS:  
Performance F2.3.1. Valves meet this requirement and do not present a health hazard to people.

Clause G10 PIPED SERVICES:  
Performance G10.3.1 (a). Valves are supplied by a non-potable piping system, which contributes to meeting this requirement when used in heating systems.

- *options for compliance set out in section 19 of the Act (regulations, acceptable solution, verification method)*
- *standard or technical document that describes the performance of the building product or the relevant specifications to which the building product was manufactured.*
- *physical properties of the building product*
- *how the building product is intended to be used.*

**Limitations on the use of the building product:**

Please refer to the Reliance mixing valve supporting [information](#) provided on the Central Heating NZ website.

The hot water heating system must not be connected to the potable water supply system.

Radiator valves are not suitable for potable water supply.

**Design requirements that would support the use of the building product:**

The heating system design, including the layout of the pipe, must be carried out by a suitably qualified designer.

Please refer to the mixing valve technical information provided on the Central Heating NZ website.

Design must consider the requirement of building code clause H1 for pipework and heating design.

**Installation requirements:**

Please refer to the Reliance Underfloor Mixing Valve [technical information](#) provided on the Central Heating NZ website.

The UFH blending valve contains temperature sensitive components. Soldering near the valve body must be avoided.

Ensure that the valve is properly connected to the pipework and that the flow from the boiler is connected to the hot inlet and the return is connected to the cold inlet, the flow for the loops or manifold is connected to the mixed water outlet connection.

The valve may be installed in an orientation, provided the connections are fitted, as stated above.

Please ensure that the commissioning of the valve is done under normal operating conditions. The Heat guard UFH blending valve is supplied factory set at 43°C. setting process in instructions.

**Maintenance requirements:**

The performance of the Heat guard UFH blending valve should be checked on an annual basis and verified against the original installation performance. If the water or installation conditions are more severe this check should be carried out more frequently.

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 or debris within the valve, it can then be stripped down and cleaned very easily:

1. Isolate the hot and cold supplies and remove the valve from the installation. Make note of the orientation of the parts as they are removed so that they can be reassembled in the correct manner.
2. To clean the internals of the main valve body, first remove the cap using an Allen key, then remove the plastic locking ring, then finally carefully remove the valve headwork by unscrewing the large hex nut.
3. Slide the piston and thermostat assembly out of the valve body and clean all internal surfaces and 'O' rings with a weak solution of scale remover approved for use with potable water.

4. Using a WRAS approved silicone based waterproof grease, lightly lubricate the 'O' ring in the body and the external surface of the piston.

5. After cleaning, re-assemble the Heat guard UFH blending valve. Reset and test the valve as laid out in the commissioning section.

Is the building product/building product line subject to warning or ban under section 26:

Yes  No

If yes, description of the warning or ban under section 26:

Date:

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