

AGI THERMOSTATIC R-COMBINATION VALVE

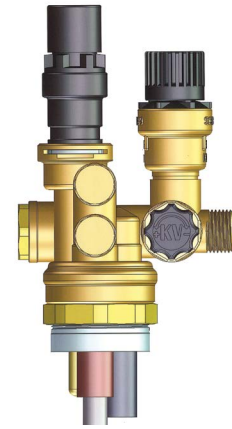
PURPOSE

The R-Combination Valve (R-CV) is designed and supplied by AGI Trade Supplies as a multi-functional, hot water controller for use in conjunction with an English made, RYANZ hot water heater. The R-CV is made from cast brass alloy and designed to be easily fitted to RF48 mm stainless steel threaded outlet.

EXPLANATION

The R-CV consists of a check valve, shut-off valve, cold water expansion valve and a thermostatic temperature mixing valve.

The R-CV consists of a check valve, shut-off valve, cold water expansion valve, thermostatic temperature mixing valve and pressure temperature valve. The check valve opens automatically allowing flow in one direction preventing back flow, combined with a cold water expansion valve that relieves an increase in pressure caused by water during the heating cycle. The thermostatic mixing valve provides a fast response to temperature, pressure changes and outlet variances to taps throughout the building. Incorporated in the R-CV is a temperature pressure relief valve. This opens automatically when the internal pressure exceeds the working pressure of the cylinder. The R-CV also has additional features; pre-installed ports that can accept solar panel heating, hotwater ring main and/or expansion vessel systems.



For further assistance please contact:

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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location In conjunction with a potable water supply.	➤ Potable water as defined by Ministry of Health. [2005; Rev 2018]. <i>Drinking-water Standards for New Zealand.</i>
Building With mains pressure stainless steel or enamelled hot water heaters.	➤ The cylinder must be fitted with a threaded outlet, able to accept a 48 mm Ø, 360° rotational, stainless steel connection. ➤ HWH control thermostat to be set at no less than 60° C to prevent the growth of Legionella bacteria. ➤ If used with bore water (aggressive water) with high concentrates of heavy metals, such as iron or manganese deposits, the long term performance of the R-CV may be compromised.
In all building uses.	➤ Early childhood centres, schools, and old people's homes are excluded.
In conjunction with a solar heating system	➤ Where the water storage tank has been assessed as suitable.
In conjunction with a hotwater ring main system and/or an expansion vessel system.	➤ Some applications may require design from a hydraulics engineer. ➤ The length of the ring main is dependent on the HWH capacity and water pressure.

CONDITIONS OF USE

➤ Must be installed by a Registered Master Plumber.

USEFUL INFORMATION

For information on the design, installation and maintenance of AGI Thermostatic R-Combination Valve and for our warranty refer to www.alphaglobalimports.nz.

CERTIFICATION AND APPROVALS HELD BY MANUFACTURER

Nordic Brass, as manufacturer of the R-CV holds the following:

- ISO 9001:2015. Certificate Number SE005753-1. Bureau Veritas 11/2018. Retrieved from <http://www.nordicbrass.se/en/about-us/quality-control>.
- ISO 14001:2015. Certificate Number SE005754-1 Bureau Veritas 04/2003. Retrieved from <http://www.nordicbrass.se/en/about-us/quality-control>.

PERFORMANCE CLAIMS

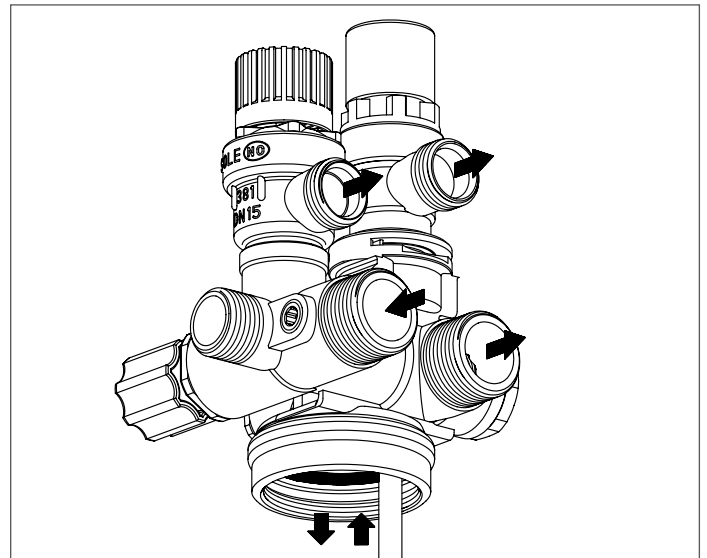
If designed, installed and maintained in accordance with all AGI's requirements, the AGI R-CV will comply with or contribute to compliance with the following performance claims:

N.Z. Building Code clauses	BASIS OF COMPLIANCE ¹	Compliance statement	Demonstrated by
B1 Structure B1.3.1 B1.3.2 B1.3.3 (a, c, e)	ALTERNATIVE SOLUTION		> Nordic brass datasheet: <ul style="list-style-type: none"> • Tensile strength >400 MPa • Yield strength \approx 300 MPa • Fracture strength >30 % • Brinell hardness \approx 110 HB
B2 Durability B2.3.1 (c) B2.3.2 (b)	ALTERNATIVE SOLUTION		> Nordic brass datasheet: <ul style="list-style-type: none"> • Durable, noble materials • Heat treatment up to 500-550°C.
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION		> Nordic brass datasheet <ul style="list-style-type: none"> • Suitable for the delivery of potable water • Dezincification resistance • Copper and its alloys are Noble metals.
G12 Water Supplies G12.3.1 G12.3.2 (a, c) G12.3.6 G12.3.7 (a, b, c, d) G12.3.8 (b)	ACCEPTABLE SOLUTION	G12/AS1	> All objective and functional requirements of NZ Building Code clause G12 Water Supplies met. > Stainless steel and bronze alloy is not porous and therefore not conducive to mould. development. > Minimum working mains pressure 350 kPa.

1. The Compliance Statement is the pass holder's statement that they have met their obligations under s14G(2) of the Building Act 2004.

SOURCES OF INFORMATION

- > NZS 4608:1992. *Control valves for hot water systems.*
- > BS EN 1567:1999. *Building valves. Water pressure reducing valves and combination water reducing valves. Requirements and tests.*
- > Ministry of Health. [2005; Rev 2018]. *Drinking-water Standards for New Zealand.* Retrieved from <https://www.health.govt.nz/system/files/documents/publications/dwsnz-2005-revised-mar2019.pdf>.
- > ISO 6509-1:2004. *Corrosion of metals and Alloys.*
- > Nordic Brass 04/2016. *Brass Alloy CW625N Data Sheet.* Retrieved from <http://www.nordicbrass.se/en/products/rod-cw625n>.



VERSION: **DATE:**

Note: Uncontrolled in printed format.

NAME: Tony Ryan

POSITION: Managing Director

Signed on behalf of Alpha Global Imports:

By signing this pass™ the signatory confirms that, in respect of the subject of this pass™, the company has met their s14G obligations under the Building Act 2004.

