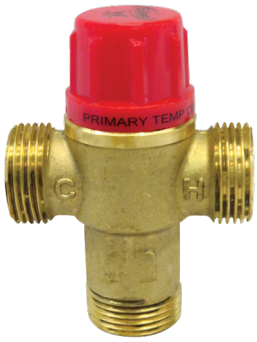
Primary Temperature Control Valve

Scope of Use / Specification Sheet

RMC's Primary Temperature Control Valve is a temperature control valve that mixes hot water with cold water to deliver blended water at a constant temperature throughout an entire house, building or system.



TVX2009

Product List

Order Code	Description
TVX2009	PTCV Primary Temperature Control Valve 20mm

Materials

Body	Lead Free DZR Brass
Internal Components	Lead Free DZR Brass
Seals	Viton®
Springs	Stainless Steel
Piston	Polysulfone
Fittings	Lead Free DZR Brass
Strainers	Stainless Steel
Non-Return Cartridges	PPO-GF (Noryl®)/EPDM

Description

RMC's Primary Temperature Control Valve (PTCV) is suitable for domestic and commercial applications requiring controlled delivery of water heated above temperatures suitable for sanitary devices intended for personal hygiene. PTCV is compatible with both storage, instantaneous and heat exchange (continuous flow) type water heaters, boilers and solar systems.

Installation

Installation is subject to the requirements of the applicable regulatory authority, the National Construction Code Volume Three – Plumbing Code of Australia, associated reference standards as applicable at the time and AS/NZS 3500. This product is compliant to the Lead Free requirements of the National Construction Code Volume Three. For further Scope of Use, please visit www.rmc.com.au/resources.

Features and Benefits

- Mixes hot and cold water to deliver blended water
- Ideal for industrial and commercial applications
- More accurately controls the maximum temperature of delivered water
- Can be installed on water heater systems to prevent superheated water being delivered
- Valve is safer, and easier to intall or remove for servicing of strainers upsteam of check valves
- Tamper-proof adjustment with special adjuster key eliminates chances of accidental adjustment
- Dezincification resistant
- Meets Australian Standard for potable water supply
- Every valve is individually tested and calibrated to ensure higher quality and performance
- Protects valve from impurites in the water supply
- Compliant to the Lead Free requirements of the National Construction Code Volume Three

Application

RMC's PTCV is a temperature control valve for use in hot water distribution systems where temperature control is needed at temperatures higher than those suitable for sanitary devices intended for personal hygiene. Fitting the valve at the hot water source ensures the delivery of constant temperature hot water throughout the system, whilst preventing delivery of superheated water.

RMC's PTCV is NOT INTENDED FOR USE as a tempering valve under any circumstances.

Primary Temperature Control Valve

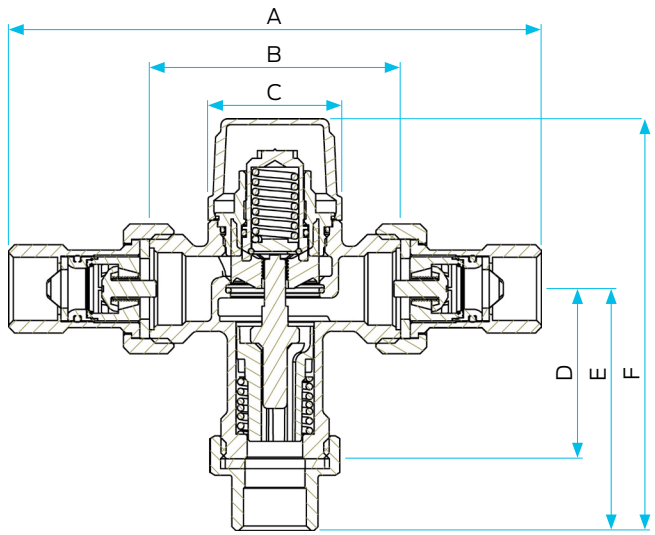
Working Pressures and Temperatures

Cold water supply temperature	5ºC – 30ºC
Hot water supply temperature	60ºC – 99ºC
Optimum outlet temperature range	50ºC – 70ºC
Set temperature	Factory set to 63ºC
Accuracy of outlet temperature	±3ºC
Minimum temperature differential (between hot supply and outlet temperature)	15ºC
Static supply pressure	200 kPa - 1600 kPa maximum[1]
Dynamic supply pressure imbalance (at time of commissioning)	2:1 maximum[2]
Maximum permitted pressure variation in either supply, in order to control outlet temperature to ±3ºC (from supply pressure at commissioning)	±10% maximum[3,4]
Minimum flow rate	4 L/min
Maximum flow rate	33 L/min
Fittings supplied	Male BSP Thread

Dimensions

Order Code	A	B	C	D	E	F
TVX2009	163	77	41	52	73	126

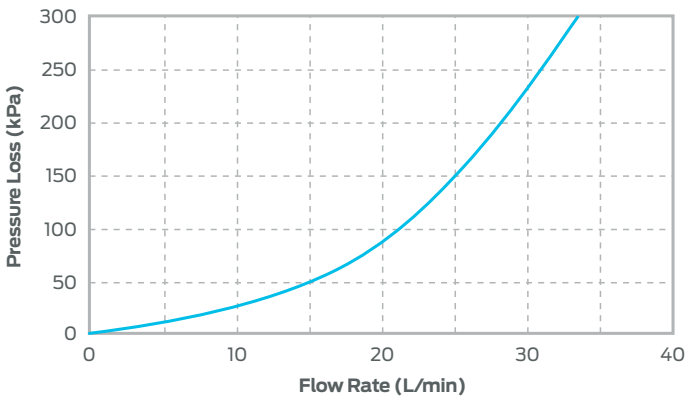
Note: All measurements in mm unless otherwise stated.



Notes

1. The maximum permitted ratio of supply pressures, under dynamic (flow) conditions. For optimum performance it is recommended that the hot and cold pressures at commissioning are as close as possible to equal.
2. The maximum permitted variation in either supply pressure from the pressure at commissioning in order to control the outlet temperature to ±3ºC
3. Note that rapid changes in supply pressure can result in a spike in the outlet temperature beyond ±3ºC. Following a rapid change in supply pressure it may take a number of seconds for the temperature to return to within a ±3ºC limit. Steps should be taken on-site to eliminate any cause of rapid supply pressure variation.
4. Under flow conditions dynamic pressure should exceed 100kPa.

Flow Characteristics



Standards and Approvals

Lead Free
AS 1357.2
WMKA0938

Warranty

Reliance Worldwide Corporation (Aust.) Pty. Ltd. (RWC) will either replace or repair any defective goods where the defect arose as a result of manufacture within the warranty period. You may contact RWC at the phone number, address or e-mail shown below for further information or to make a claim.

Visit **www.rmc.com.au/warranty** to view the warranty statement in full and for further important information.

rmc.com.au | 1800 810 803 | sales.au@rwc.com