

TEMPERING VALVE CARTRIDGE

APPLICATION

Replacement cartridge for Apex Valves TV 20 Cartridge Tempering Valves. This product is only compatible with tempering valves that have a hex cap cartridge (refer to install instructions overleaf to identify hex cap).

FEATURES AND BENEFITS

- Replaceable cartridge for TV 20 for fast servicing
- Meets requirements for Acceptable Solution G12/AS1
- Lead Free* and Dezincification resistant (DZR) brass minimizes corrosion
- Designed, assembled and 100% tested in New Zealand
- Temperature adjustable from 35-60°C, factory set at 50°C
- 5-year warranty

SPECIFICATIONS

- Flow Rate: 15 L/min at 20 kPa inlet pressure
- Inlet pressure: 20 – 1000 kPa
- Maximum inlet temperature: 99°C
- Factory set to give 50°C outlet. Can be adjusted from 35°C to 60°C.

STANDARDS

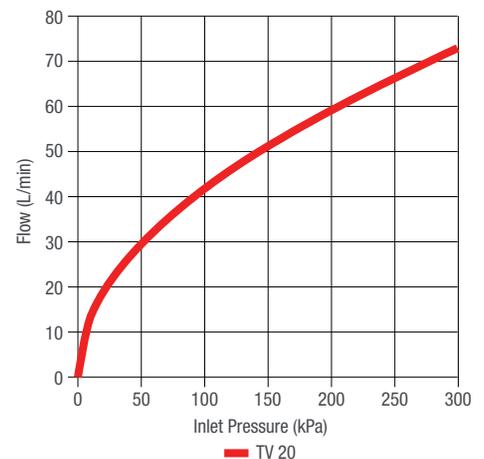
- Acceptable Solution G12/AS1
- Complies with NZ Building Code G12 (2014)
- Complies with NZS 4617:1989

PRODUCT CODES

TVC LF



TEMPERING VALVE FLOW CHART



*Contains a weighted average lead content of no more than 0.25% according to NSF/ANSI/CAN 372: 2020

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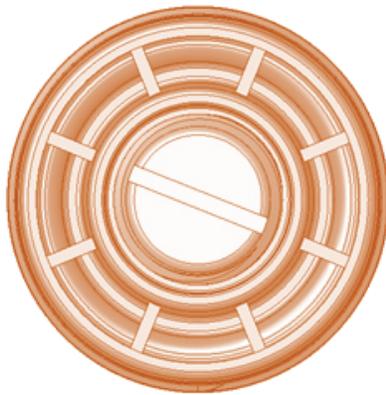


APEX
VALVES
A WATTS Brand

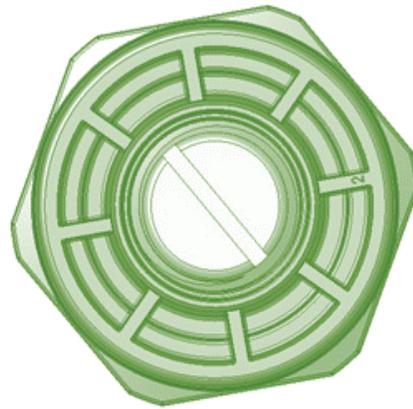
REPLACEMENT CARTRIDGE COMPATIBILITY WITH EXISTING VALVES

Not all Apex Tempering Valves have the replaceable cartridge function, below are the steps you should take to determine if the tempering valve you are working on has a replaceable cartridge.

1. Remove the cap on top of the tempering valve
2. Inspect the shape of black plastic part underneath:
 - **Round:** The TV 20 does not have a replaceable cartridge. If faulty, the whole valve will need to be replaced.
 - **Hex:** The TV 20 does have a replaceable cartridge. If faulty, the valve internals can be easily replaced with the cartridge using the instructions below.



✗ **Round: Cartridge not compatible**



✓ **Hex: Replaceable Cartridge**

INSTALLATION INSTRUCTIONS

Before you begin the replacement process you should ensure the water supply to the tempering valve has been turned off and you have taken the steps to identify the cartridges compatibility as described above.

1. Remove the cap from the tempering valve and unscrew the old cartridge to remove it.
Set aside the spring and cap to be reused.
2. Inspect the inside of the valve for any debris or contamination. Clean if necessary.
3. Remove all packaging from the new cartridge. Check the O-rings for debris and apply grease if necessary.
4. Replace the spring inside the valve and then install the new cartridge by screwing it into the valve body.
5. Turn on water supply to the valve and check for any leaks.
6. Run the hot water from an outlet and check the water temperature according to regulations.
if necessary, adjust the set temperature on the valve. With a screwdriver adjust in small increments, allowing time for the temperature to settle before re-adjusting. Clockwise for colder, anticlockwise for hotter.
7. Check for leaks again then replace the cap on top of the valve and dispose of the old cartridge responsibly.