

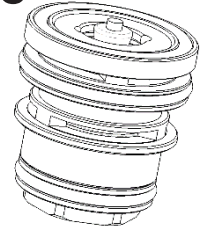
CliniMix® BS Lead Safe Thermostatic Cartridge Assembly for CMV2 Low Flow

PRODUCT CODES

- 100.91.10.20



WaterMark
AS 4032.4 Lic. WMKA21989
SAI Global



SPECIFICATIONS

- Designed to be used with CliniMix® CMV2 only.
- Lead Safe™ brass construction. *

IMPORTANT: All CliniMix® spare parts are tested and leave our premises in good working order.

*As 'lead free' is not currently defined by law in Australia and New Zealand, we have based our definition of Lead Safe™ on the requirements of sec.1417 of the USA's Safe Drinking Water Act (SDWA) and the relevant US standards NSF61 / NSF372. The SDWA defines 'lead free' as 'not more than a weighted average of 0.25% lead when used with respect to the wetted surface of pipes, pipe fittings, plumbing fittings and fixtures'.

WARNINGS: Special attentions to be paid on notes, photos, images, or drawings of assembly steps marked with the warning symbol.

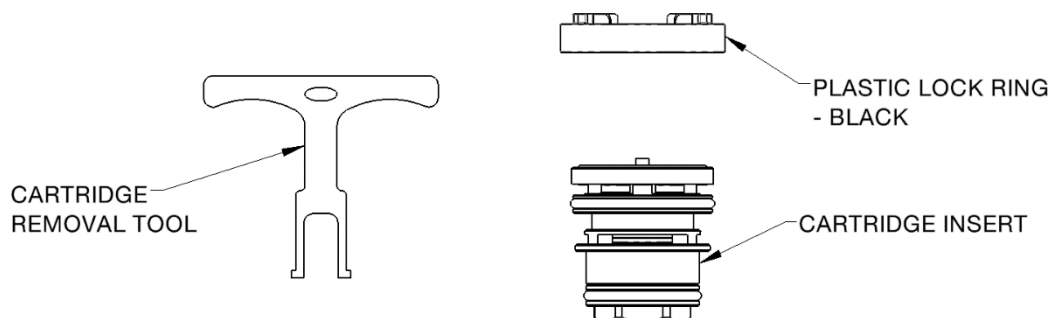


TECHNICAL DATA

Inlet	N/A	
Outlet	N/A	
Headwork	N/A	
Working Pressure Range (kPa)	Min	20
	Max	500
Working Temperature Range (°C)	Min	5
	Max	85
Nominal Flow Rate (LPM)	N/A	
Construction	Brass	
Finish	Brass	

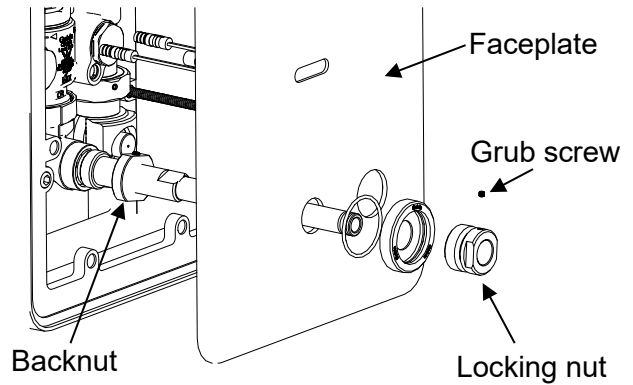
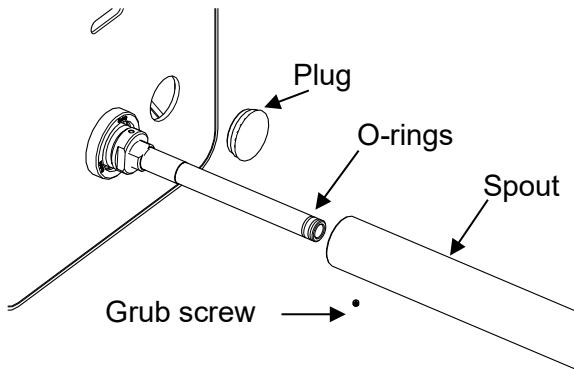
NOTE: Galvin Engineering continually strive to improve their products. Specifications may change without notice.

DIMENSIONS



INSTALLATION

INSTALLATION COMPLIANCE: Galvin Engineering products must be installed in accordance with these installation instructions and in accordance with AS/NZS 3500, the PCA and your local regulatory requirements. Water and/or electrical supply conditions must also comply to the applicable national and/or state standards. Failing to comply with these provisions shall void the product warranty and may affect the performance of the product.

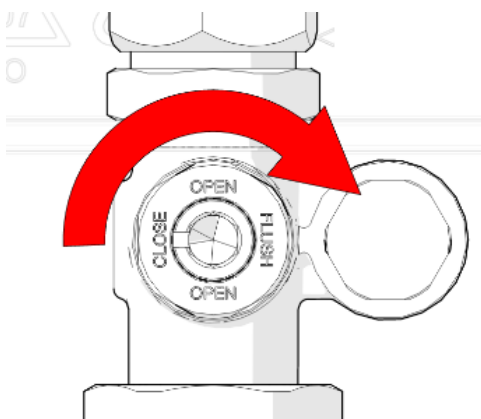


1. Close the mains and deinstall Spout

- Close off both (hot and cold) water mains or power main. Ensure water is not flowing when hand waving in front of the sensor.
- Loosen grab screw to unlock the spout. Pull and gently remove the spout.
- Removing the disinfection key cover plug might help with detaching the faceplate in next steps.

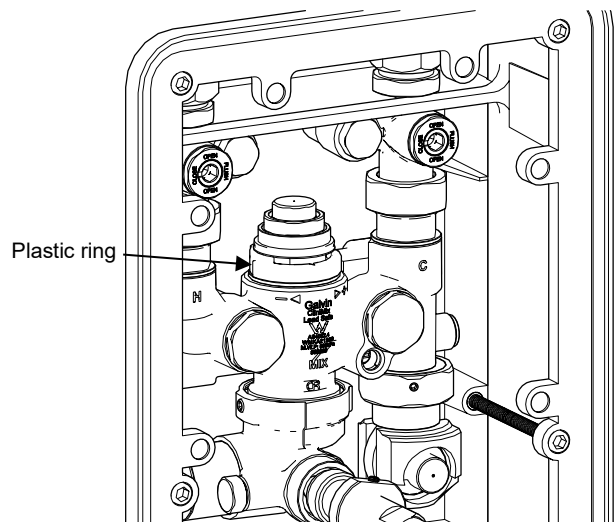
2. Remove the faceplate

- Loosen the grub screw shown on above picture unscrew the locking nut and remove. Remove the flange.
- Carefully remove the faceplate.
- Do not change the position of the backnut if not necessary.
- Disconnect sensors' and solenoids' cables connections.



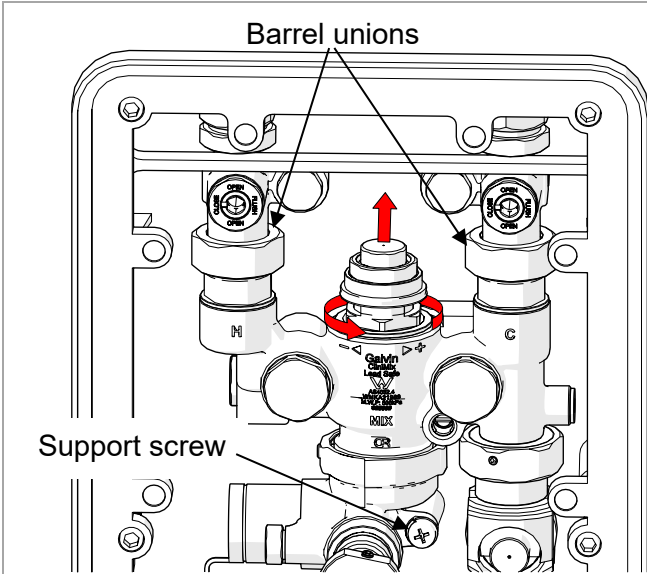
3. Ensure water is closed

- Turn the isolating valve to 'CLOSE' position.



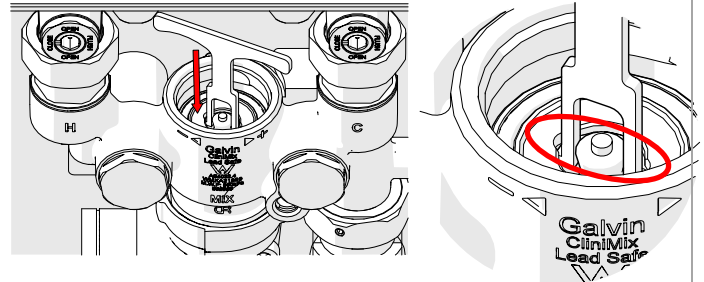
4. Remove locking ring

- Break/remove the plastic lock in the centre of the thermostatic mixing valve.



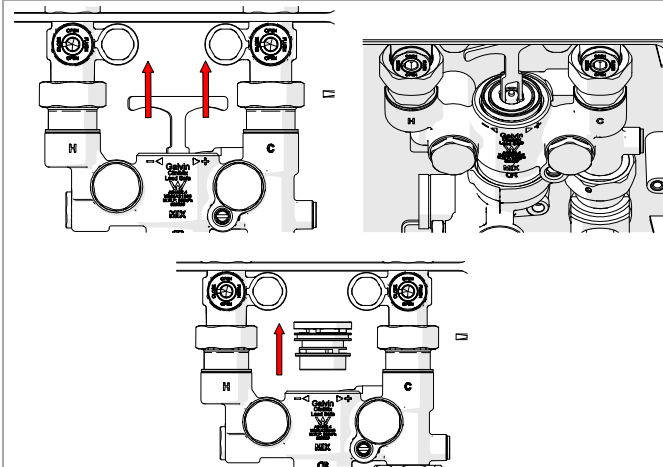
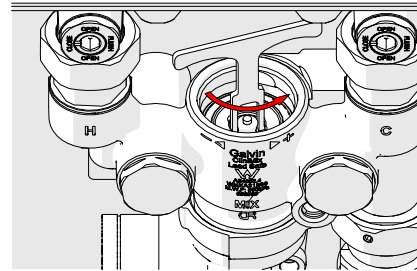
5. Get access to cartridge

- Use spanner size 28mm and turn the cartridge cover in anti-clockwise direction until it reaches the end of its threads and remove.



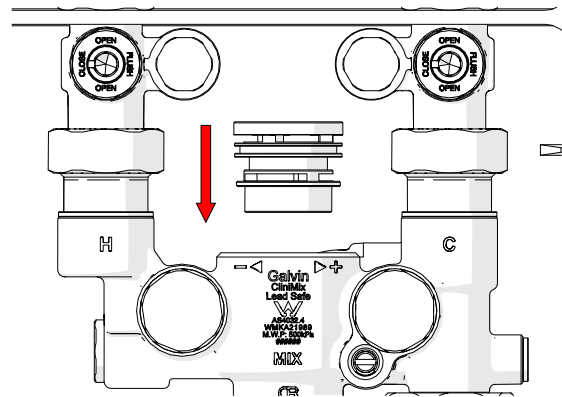
6. Attach cartridge removal tool

- Insert the supplied cartridge removal tool through the notches in the cartridge as shown.
- Ensure the tool can be freely turned then turn the tool on angle between 30 and 120 degrees.



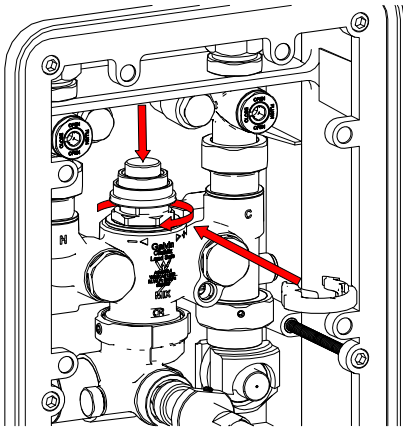
7. Remove the old cartridge

- Using fingers pull the cartridge out from the body till cartridge become loose.
- Remove the key and cartridge.



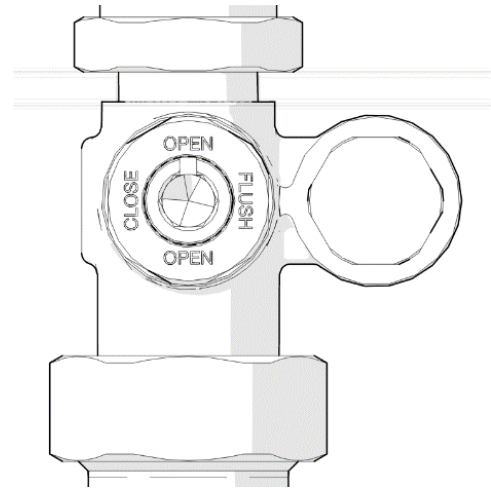
8. Fit new cartridge

- Clean the cartridge seat and grease O-rings on the new cartridge using AS4020 approved grease (we recommend Molykote 111).
- Gently fit new cartridge into the body.



9. Assembly

- Re-install the cartridge cover, by screwing it into the mixer body until it reaches a firm stop. The cartridge cover should be tightened to a torque of 15Nm. Re-install or install new plastic lock supplied with the new cartridge.



10. Cartridge replacement completion

- When service is complete, slowly turn the cold-water isolation ball valve to 'OPEN' position and inspect mixer body for leaks. Repeat with hot water isolation ball valve.
- Reassemble by reversing steps 1 and 2.
- **Re-commission the mixer** as per commissioning procedure (see units installation instruction for details).

⚠ Note: During isolation valves opening the flow might start from the inner part of the spout if the main power remained on.

TROUBLESHOOTING		
PROBLEM	CAUSE	RECTIFICATION
Cartridge cannot be removed using removal tool	Long term unit usage without maintenance	External circlip straight plier is required. Follow steps 1 to 5. Remove mixing valve from installation box by unscrewing support screw and barrel unions (see step 5). Place circlip plier tips into the dedicated recesses. Rotate and pull the thermostatic cartridge. Reinstall the mixing valve into the box and follow steps 8 to 10 to complete new cartridge installation.
Water is not flowing	Water main closed	Open water main supply, ensure isolation valves are in open position
	Power mains off	Turn on the power
Mixed water is not correct	Unit not re-commissioned	Re-commission the mixer as per units installation instruction
	Supply water conditions out of requirements	Ensure water supply conditions are as per requirements (see units installation instruction for details)

WARRANTY

The warranty set forth herein is given expressly and is the only warranty given by the Galvin Engineering Pty Ltd. With respect to the product, Galvin Engineering Pty Ltd makes no other warranties, express or implied. Galvin Engineering Pty. Ltd. hereby specifically disclaims all other warranties, express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

Galvin Engineering Pty Ltd products are covered under our manufacturer’s warranty available for download from www.galvinengineering.com.au Galvin Engineering Pty Ltd expressly warrants that the product is free from operational defects in workmanship and materials for the warranty period as shown on the schedule in the manufacturer’s warranty. During the warranty period, Galvin Engineering will replace or repair any defective products manufactured by Galvin Engineering without charge, so long as the terms of the Manufacturer’s warranty are complied with.

The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and Galvin Engineering Pty Ltd shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labour charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, electrical or any other circumstances over which Galvin Engineering has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product.

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