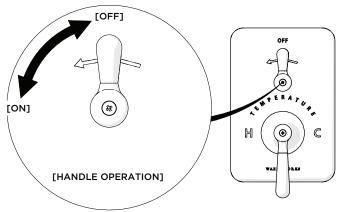
$\label{eq:water} WATERWORKS\\ \textbf{INSTALLATION GUIDELINES}$

> ViaBox™ 1/2" Integrated Thermostatic Valve with Vo STYLE No. GUTH61	olume Control.
off RRTH20 Riverun Integrated Thermostatic and Volume Control Trim with Two-Tone Tri-Spoke Handle To ensure this product is installed properly, you guidelines. * The owner/user of this product must keep this infor * The owner/user of this product must keep this infor * This product must be installed by a professional lice onsite prior to rough-in. This allows the installer to we have the install	mation for future reference. ensed contractor and must be
ALL VALVES AND TRIMS SOLD SEPARATELY.	
Image: Second secon	r to the Installation Guidelines
RRTH21 and Volume Control Trim with Tri- Spoke Handle Be sure your installation conforms to all federal, state of Massachusetts, all installations must comply with forth within 248 CMR.	
WARNING: The GUTH61 features anti-scald protecti until the installer has properly calibrated/adjusted th final TRIM installation.	
 This product is sold partially assembled but shown ful and service purposes only. 	lly disassembled for illustrative
off Riverun Integrated Thermostatic	equired for proper installation.
RRTH30 and Volume Control Trim with Two- Survey Use only a strap wrench or protected/smooth-jaw w	rench on any finished surface.
Tone Lever Handle > The use of certain plumber's putty may stain stone	or tile surfaces.
 If this product will remain unused for an extended perturbative of the the water to the THERMOSTATIC VALVE should or system control valve) and the INTEGRATED VOLU be opened to allow the water in the THERMOSTATIC CARTRIDGE from being 	be shut off (via service stops) JME CONTROL VALVE should C VALVE to evaporate. This is
water, which can cause the VALVE to malfunction.	
Riverun Integrated Thermostatic Monday through Friday, 8am – 6pm EST.	ict Support at 1-800-927-2120
RRTH31 and Volume Control Trim with Lever Refer to the separate Service Parts Documents for a Handle	available replacement parts.

VALVE FUNCTION AND HANDLE OPERATION:

- The THERMOSTATIC VALVE only mixes hot and cold water, it does not have an on/off/volume control function. Mixed water flows out at a fixed volume to the INTEGRATED VOLUME CONTROL VALVE which has 2 positions.
 - 1 ON position that can direct water flow to a MAXIMUM of 1 device.
 - 1 OFF position. •
 - The INTEGRATED VOLUME CONTROL VALVE incorporates tactile feedback at each position.



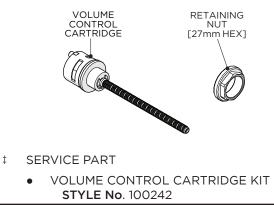
ROUGH-IN AND VALVE PREPARATION:

- The VALVE is provided with pre-installed FLUSH PLATES. The CARTRIDGES, RETAINING NUTS, and THREADED TUBE are packaged separately and provided with the VALVE.
- > **IMPORTANT:** Make sure the supply lines are flushed prior to final TRIM installation using the FLUSH PLATES provided. Refer to the Installation Guidelines provided with the VALVE for further information.
- > CAUTION: The rough-in depth is measured from the centerline of the inlets to the surface of the finished wall. If the VALVE is roughed-in too shallow, the TRIM cannot be installed correctly.
- Do NOT remove the COVER until final TRIM installation \geq and ensure the finished wall is within the MAXIMUM and MINIMUM markings on the ViaBox™.

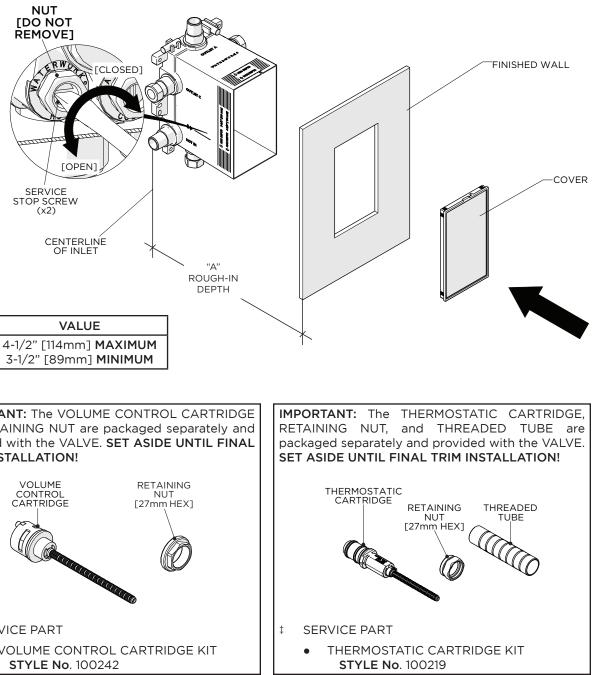
IMPORTANT: The VOLUME CONTROL CARTRIDGE and RETAINING NUT are packaged separately and provided with the VALVE. SET ASIDE UNTIL FINAL **TRIM INSTALLATION!**

DIM

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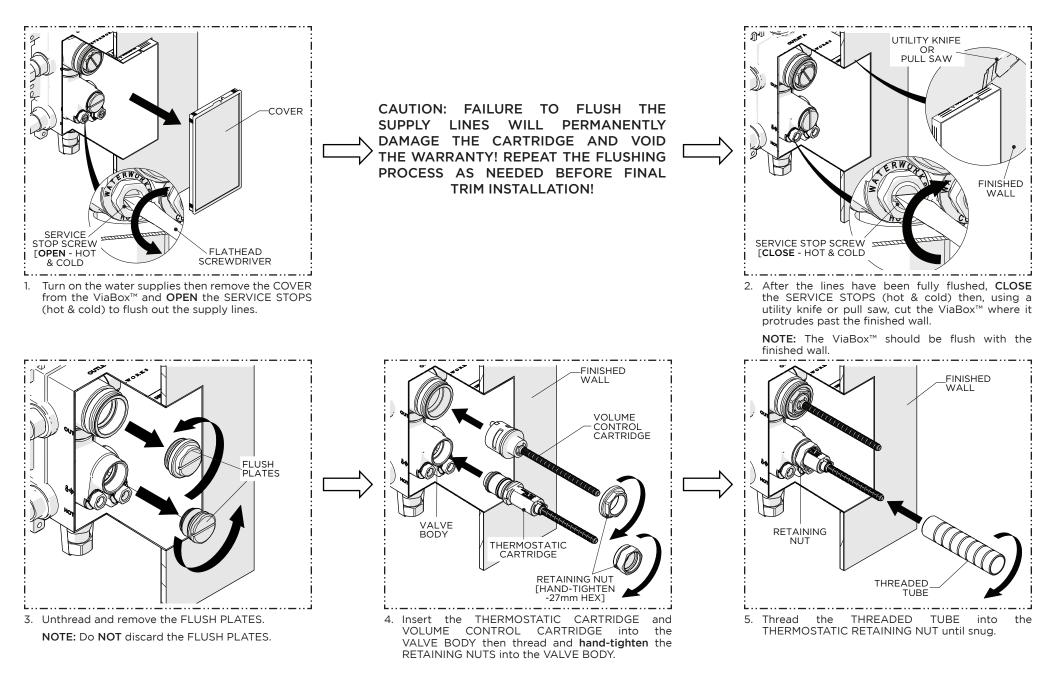


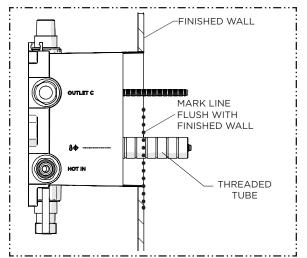
STYLE No. RRTH20, RRTH21, RRTH30, RRTH31 Riverun Integrated Thermostatic and Volume Control Trim



PRODUCT SUPPORT | 800.927.2120 | WATERWORKS.COM

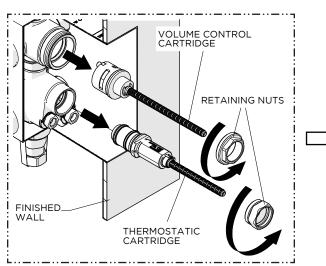
PAGE 2 OF 6 UPDATED ON 2.22.2022



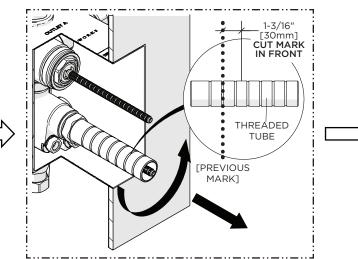


6. Mark the THREADED TUBE where it protrudes past the finished wall.

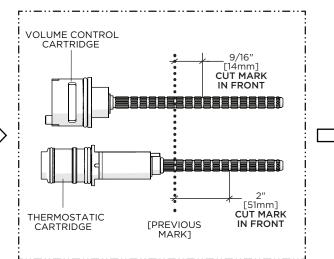
NOTE: A straight edge (not supplied) can be used to mark the THREADED TUBE.



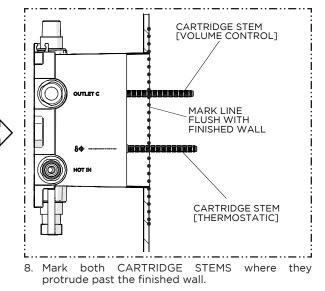
9. Unthread both RETAINING NUTS and remove both CARTRIDGES.



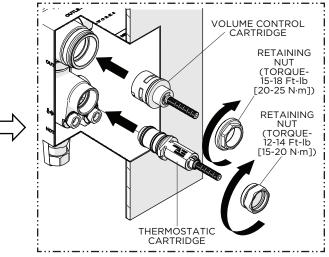
7. Remove the TUBE and cut it 1-3/16" [30mm] in front of the previous mark so the TUBE will protrude 1-3/16" [30mm] from the finished wall surface.



10. Carefully cut the VOLUME CONTROL STEM 9/16" [14mm] **in front** of the previous mark and THERMOSTATIC STEM 2" [51mm] **in front** of the previous mark so the STEMS will protrude 9/16" [14mm] and 2" [51mm] from the finished wall surface respectively.

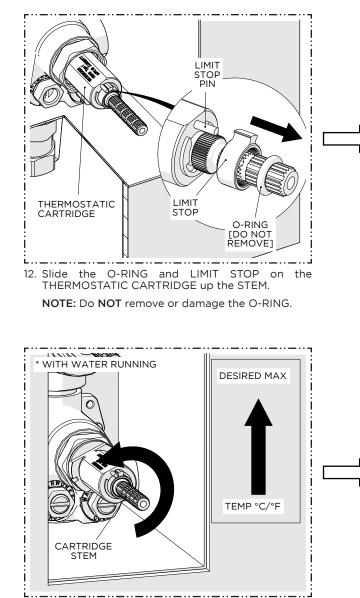


NOTE: A straight edge (not supplied) can be used to mark the CARTRIDGE STEMS.

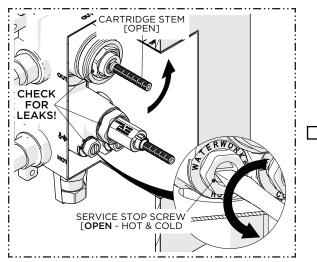


11. Insert both CARTRIDGES back into the VALVE BODY then thread and **securely** tighten the RETAINING NUTS to the specified torque settings shown.

$\label{eq:water} WATERWORKS\\ \textbf{INSTALLATION GUIDELINES}\\$

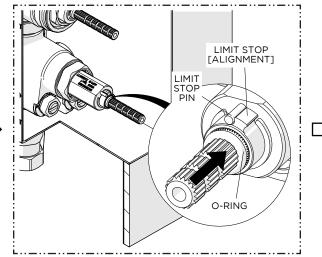


15. Rotate the THERMOSTATIC CARTRIDGE STEM to adjust the temperature to the **maximum** desired bathing temperature, verified with a thermometer, then close the VOLUME CONTROL VALVE and make sure **NOT** to change this setting.



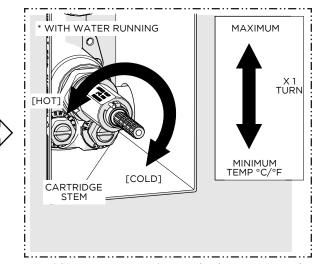
13. **OPEN** both SERVICE STOPS (hot & cold) and check for leaks.

If no leaks are found, turn the CARTRIDGE STEM counterclockwise to open the integrated VOLUME CONTROL VALVE.



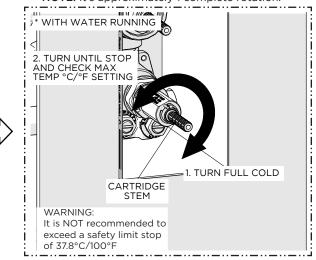
16. Slide the LIMIT STOP and O-RING back down the STEM making sure to properly align the LIMIT STOP with the LIMIT STOP PIN.

NOTE: The O-RING will prevent the LIMIT STOP from sliding off the STEM.



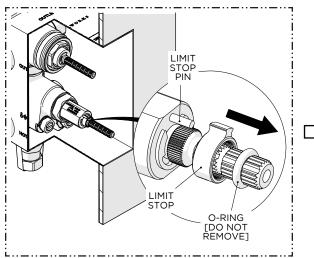
14. With water running, slowly rotate the THERMOSTATIC CARTRIDGE STEM clockwise to attain full cold then rotate it counterclockwise to attain full hot. Verify that a full range of temperatures exists.

NOTE: It's approximately 1 complete rotation.



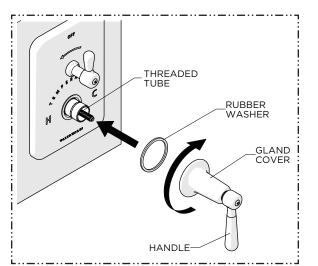
17. Re-open the VOLUME CONTROL VALVE then turn the THERMOSTATIC CARTRIDGE STEM clockwise to full cold then counterclockwise until it stops. Verify the **maximum** desired bathing temperature set in the previous step then turn the water off. **WARNING:** It is NOT recommended to exceed a safety limit stop of 37.8°C/100°F.

PAGE 5 OF 6 | UPDATED ON 2.22.2022



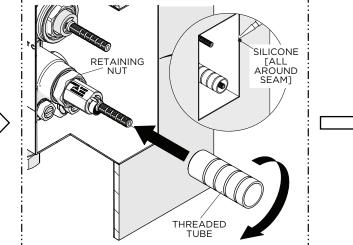
IF THE MAXIMUM BATHING TEMPERATURE IS NOT CORRECT OR NEEDS TO BE ADJUSTED:

18. Slide the O-RING and LIMIT STOP back up the STEM to disengage and **REPEAT** steps 14 through 17 to re-calibrate the temperature setting.



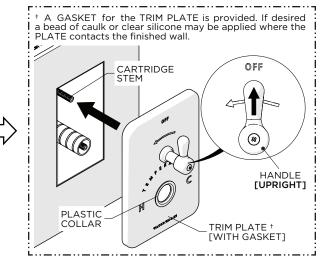
21. Firmly holding the PLATE against the finished wall, thread and securely tighten the GLAND COVER onto the THREADED TUBE making sure to use the RUBBER WASHER provided.

Operate both HANDLES to ensure they function properly.



19. Thread the THREADED TUBE back into the RETAINING NUT until snug.

NOTE: Add a bead of SILICONE where the ViaBoxTM contacts the finished wall.



20. With the VOLUME CONTROL HANDLE in an upright vertical position, slide the HANDLE onto the CARTRIDGE STEM.

NOTE: Do **NOT** remove or discard the PLASTIC COLLAR on the PLATE.