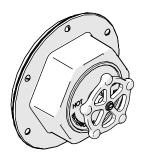
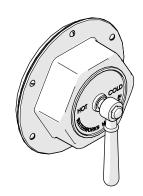
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WATERWORKS

THERMOSTATIC SHOWER SYSTEM

REGULATOR THERMOSTATIC CONTROL VALVE TRIM





STYLES				
RGTH01	RGTH02 [SHOWN]	RGTH10	RGTH11 [SHOWN]	

REGULATOR VOLUME CONTROL





STYLES				
RGVC01	RGVC02 [SHOWN]	RGVC10	RGVC11 [SHOWN]	

REGULATOR TWO WAY DIVERTER VALVE TRIMS





STYLES				
RG2T01	RG2T02 [SHOWN]	RG2T10	RG2T11 [SHOWN]	

REGULATOR THREE WAY DIVERTER VALVE TRIMS





STYLES					
RG3T01	RG3T02 [SHOWN]	RG3T10	RG3T11 [SHOWN]		

THERMOSTATIC SHOWER SYSTEM

IMPORTANT:

- ALL VALVES AND TRIMS SOLD SEPARATELY.
- > To ensure theses product are installed properly, you must read and follow these guidelines.
- > The owner/user of these products must keep this information for future reference.
- > These products must be installed by a professional licensed contractor and must be on-site prior to rough-in. This allows the installer to visualize the installation.
- > Refer to the Installation Guidelines provided with each VALVE for complete rough-in installation details and related information.
- Be sure your installation conforms to all federal, state, and local codes. In the State of Massachusetts, all installations must comply with the rules and regulations set forth within 248 CMR.
- WARNING: The THERMOSTATIC VALVES (GUTH60/GUTH37) feature anti-scald protection. The risk of scalding exists until the installer has properly calibrated/adjusted the temperature setting during final TRIM installation.
- These products are sold partially assembled but shown fully disassembled for illustrative and service purposes only.
- ➤ Inspect these products to ensure you have all the parts required for proper installation.
- Use only a strap wrench or protected/smooth-jaw wrench on any finished surface.
- > The use of certain plumber's putty may stain stone or tile surfaces.
- If further assistance is required, please contact Product Support at 1-800-927-2120 Monday through Friday, 8am -6pm EST.
- ➤ Refer to the separate Service Parts Documents for available replacement parts.

VALVE FUNCTION:

- > THERMOSTATIC VALVES only mix hot and cold water and do not have volume or shut-off capabilities.
- VOLUME CONTROL VALVES controls on/off/volume and must be installed for each fitting that will have water flowing to it or a DIVERTER VALVE for multiple fittings.

WATERWORKS

REQUIRED PLUMBING DETAILS:

- > Depending on the number of end fittings in the shower system and how many are able to operate SIMULTANEOUSLY, the system will require either:
 - A. GUTH60 system for a MAXIMUM of 2 fittings flowing simultaneously or,

		STYLE	NUMBER OF OUTLETS	INLET/OUTLET CONNECTIONS
THERMOSTATIC VALVE		GUTH60	2	1/2" MALE NPT
VOLUME CONTROL VALVE		GUVC18	1	1/2" FEMALE NPT
		GUVC19		
DIVERTER VALVE		GUDV2T [SHOWN]	2	1/2" MALE NPT
		GUDV3T	3	1/2" MALE NPT

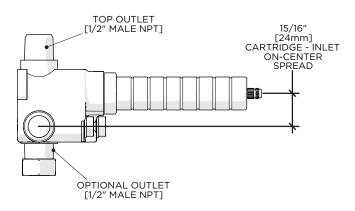
B. **GUTH37** system for 3+ fittings flowing simultaneously.

	STYLE	NUMBER OF OUTLETS	INLET/OUTLET CONNECTIONS
THERMOSTATIC VALVE	GUTH37	2	3/4" FEMALE NPT
VOLUME CONTROL	GUVC16	1	3/4"
VALVE	GUVC17	'	FEMALE NPT
DIVERTER	GUDV2T [SHOWN]	2	1/2" MALE NPT
VALVE	GUDV3T	3	1/2" MALE NPT

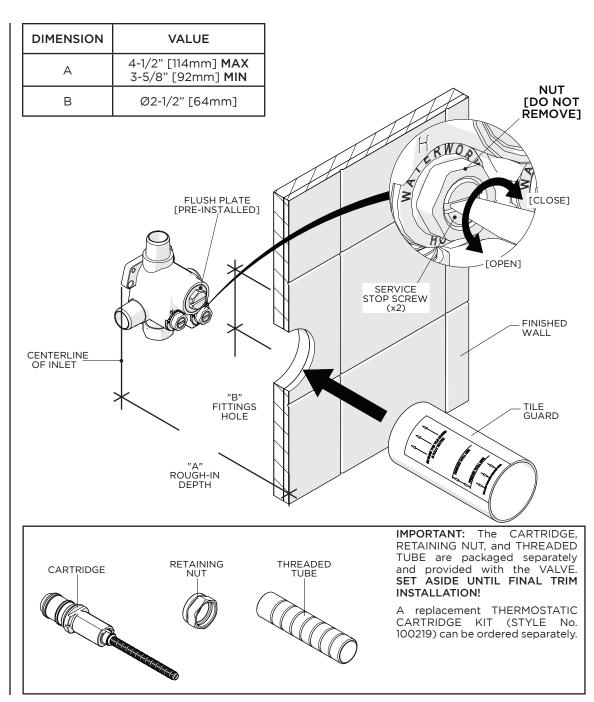
WATERWORKS

THERMOSTATIC SHOWER TRIM WITH GUTH60

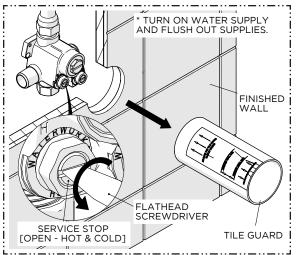
ROUGH-IN AND VALVE PREPARATION:



- > 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.
- > The VALVE is shipped with a pre-installed FLUSH PLATE and is ready for flushing the supply lines.
- CAUTION: Before installing the THERMOSTATIC CARTRIDGE, the supply lines MUST BE flushed out to prevent clogging of the FILTER SCREENS. Failure to flush the lines will permanently damage the CARTRIDGE and VOID the warranty. Repeat the flushing process as needed prior to final TRIM installation.
- Remove and discard the TILE GUARD only when the finished wall surface (TILE or SLAB) is completed and the TRIM is ready for installation.



THERMOSTATIC SHOWER TRIM WITH GUTH60

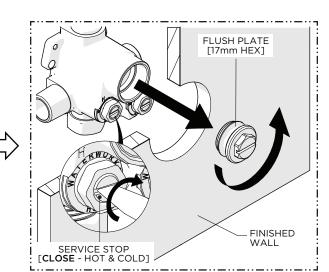


Turn on the water supplies then remove the TILE

STOPS (hot & cold) to flush out the lines.

GUARD from the VALVE and OPEN the SERVICE

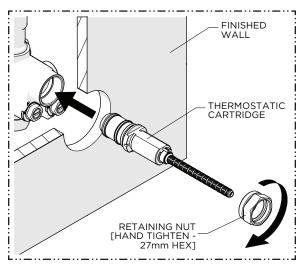
CAUTION: FAILURE TO FLUSH THE SUPPLY LINES WILL PERMANENTLY DAMAGE THE CARTRIDGE AND VOID THE WARRANTY! REPEAT THE FLUSHING PROCESS AS NEEDED BEFORE FINAL TRIM INSTALLATION.



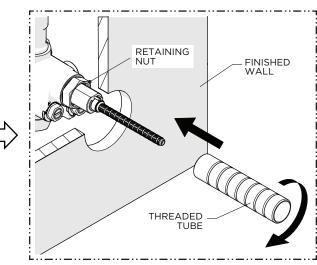
WATERWORKS

2. After the lines have been fully flushed, CLOSE the SERVICE STOPS (hot & cold) then unthread and remove the FLUSH PLATE.

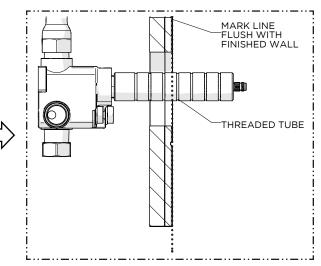
NOTE: DO NOT discard the FLUSH PLATE.



3. Insert the THERMOSTATIC CARTRIDGE into the VALVE BODY then thread and hand-tighten the RETAINING NUT into the VALVE BODY.



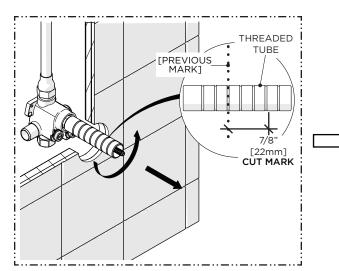
4. Thread the THREADED TUBE into the RETAINING NUT until snua.



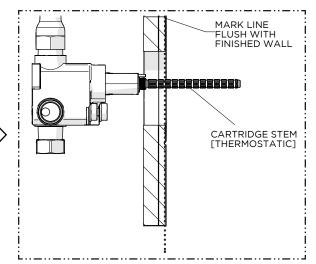
5. Mark the THREADED TUBE where it protrudes past the finished wall.

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

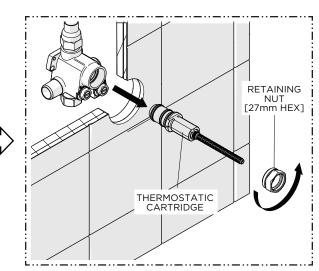
THERMOSTATIC SHOWER TRIM WITH GUTH60



6. Remove the THREADED TUBE then cut it 7/8" [22mm] in front of the previous mark so the TUBE will protrude 7/8" [22mm] from the finished wall surface.

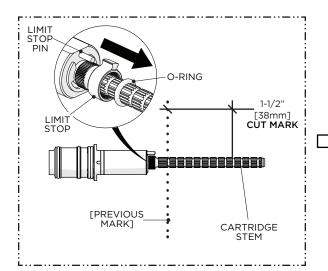


7. Mark the CARTRIDGE STEM where it protrudes past the finished wall.



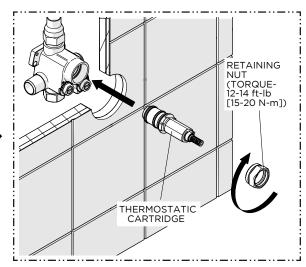
WATERWORKS

8. Unthread the RETAINING NUT and remove the CARTRIDGE.

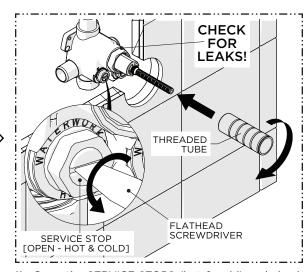


9. Carefully cut the CARTRIDGE STEM 1-1/2" [38mm] in front of the previous mark so the STEM will protrude 1-1/2" [38mm] from the finished wall surface then remove the O-RING and LIMIT STOP from the CARTRIDGE.

NOTE: The LIMIT STOP is NOT required since the TRIM PLATE has a LIMIT STOP.



10. Insert the CARTRIDGE back into the VALVE BODY. thread and securely tighten the RETAINING NUT to the specified torque settings shown, and thread the TUBE back into the NUT until snug



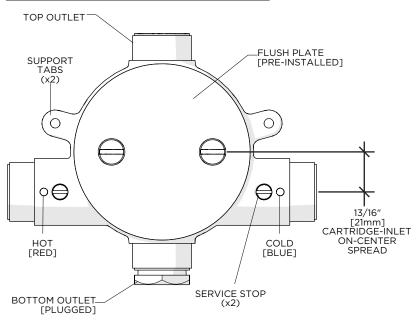
11. Open the SERVICE STOPS (hot & cold) and check for leaks then thread the THREADED TUBE back into the RETAINING NUT until snug.

> PROCEED TO TRIM INSTALLATION ON PAGE 9.

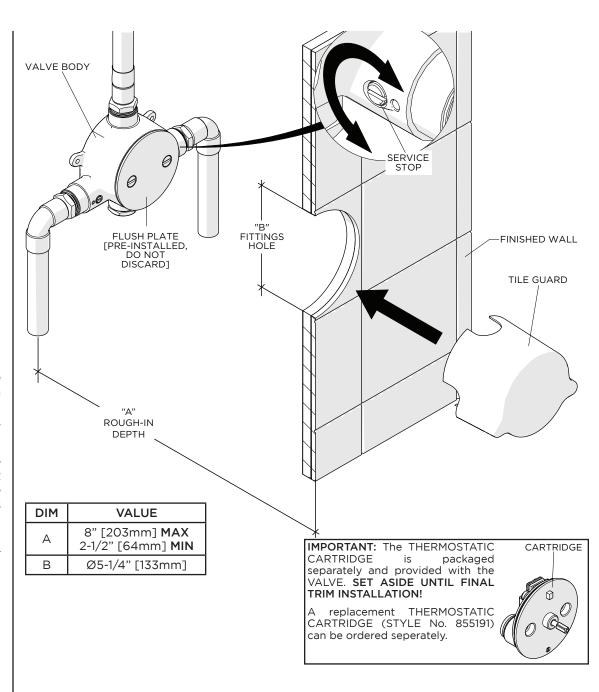
WATERWORKS

THERMOSTATIC SHOWER TRIM WITH GUTH37

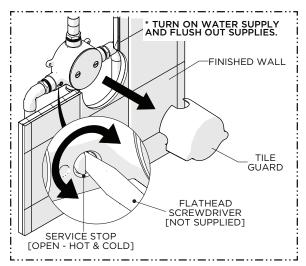
ROUGH-IN AND VALVE PREPARATION:



- > 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.
- > The VALVE is shipped with a pre-installed FLUSH PLATE and is ready for flushing the supply lines.
- CAUTION: Before installing the THERMOSTATIC CARTRIDGE, the supply lines MUST BE flushed out to prevent clogging of the FILTER SCREENS. Failure to flush the lines will permanently damage the CARTRIDGE and VOID the warranty. Repeat the flushing process as needed prior to final TRIM installation.
- Remove and discard the TILE GUARDS only when the finished wall surface (TILE or SLAB) is completed and the TRIM is ready for installation.



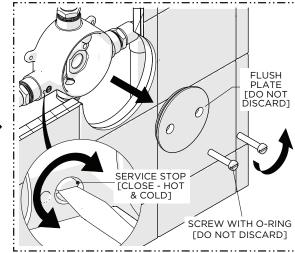
THERMOSTATIC SHOWER TRIM WITH GUTH37



Turn on the water supplies then remove the TILE GUARDS from the VALVE and OPEN the SERVICE STOPS (hot & cold) to flush out the lines.

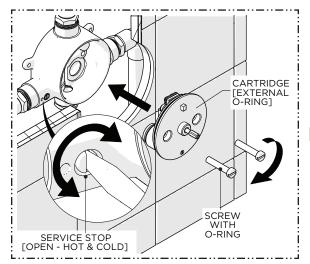
CAUTION: FAILURE TO FLUSH THE SUPPLY LINES WILL **PERMANENTLY** DAMAGE THE CARTRIDGE AND VOID THE WARRANTY! REPEAT THE FLUSHING PROCESS AS NEEDED BEFORE FINAL TRIM INSTALLATION.



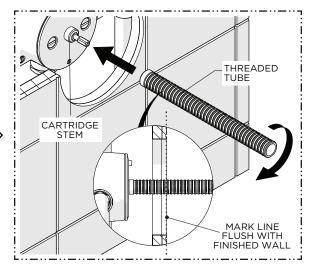


WATERWORKS

2. After the lines have been fully flushed, CLOSE the hot and cold SERVICE STOPS then unthread the SCREWS and remove the FLUSH PLATE.

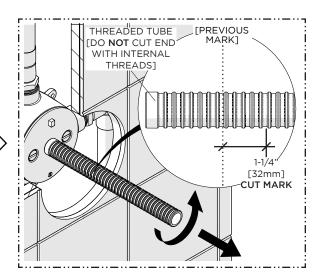


3. Insert the CARTRIDGE into the VALVE BODY then thread and securely tighten the SCREWS, re-open the SERVICE STOPS, and check for leaks.



4. Fully thread the THREADED TUBE onto the CARTRIDGE STEM and mark the TUBE where it protrudes past the finished wall.

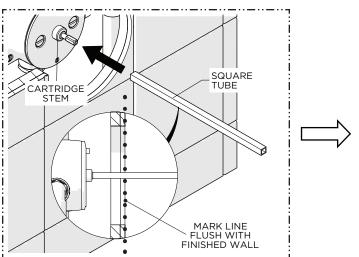
NOTE: A straight edge (not supplied) can be used to mark the TUBE.



5. Remove the THREADED TUBE then cut it 1-1/4" [32mm] in front of the previous mark so the TUBE will protrude 1-1/4" [32mm] from the finished wall surface.

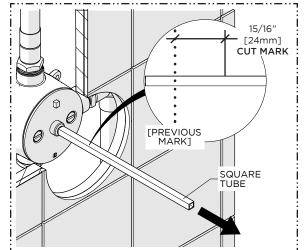
CAUTION: Do NOT cut the end with the internal threads.

THERMOSTATIC SHOWER TRIM WITH GUTH37



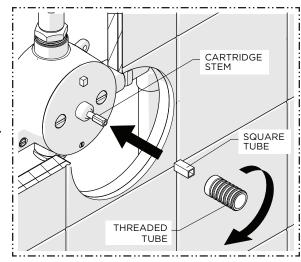
6. Insert the SQUARE TUBE onto the CARTRIDGE STEM and mark the TUBE where it protrudes past the finished wall.

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



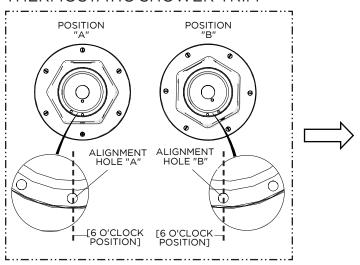
7. Remove the SQUARE TUBE then cut it 15/16" [24mm] in front of the previous mark so the TUBE will protrude 15/16" [24mm] from the finished wall surface.





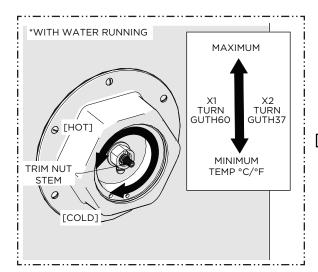
- 8. Slide the SQUARE TUBE onto the CARTRIDGE STEM then thread the THREADED TUBE onto the STEM until snug.
- > PROCEED TO TRIM INSTALLATION ON PAGE 9.

THERMOSTATIC SHOWER TRIM



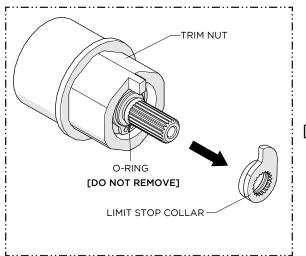
 Determine the desired TRIM PLATE orientation and position the appropriate ALIGNMENT HOLE vertically at 6 o'clock.

NOTE: Do **NOT** remove the 6 SCREWS on the PLATE. They are AESTHETIC only.

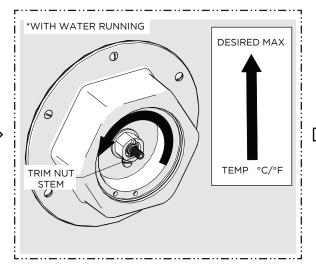


 With water running, slowly rotate the TRIM NUT STEM clockwise to attain full cold then rotate it counter-clockwise to attain full hot. Verify that a full range of temperatures exists.

NOTE: It's approximately 2 complete rotations for the GUTH37 and 1 rotation for the GUTH60.

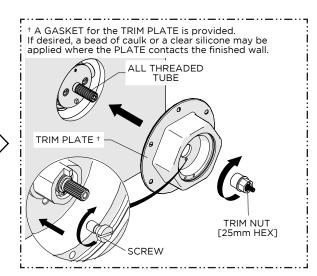


2. Remove the LIMIT STOP COLLAR from the TRIM NUT.



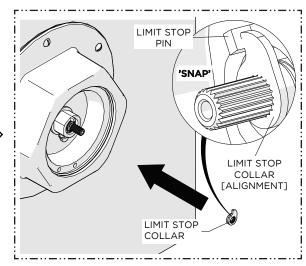
 With water running, slowly rotate the TRIM NUT STEM to adjust the temperature to the maximum desired bathing temperature, verified with a thermometer, then turn the water off and make sure NOT to change this setting.

WATERWORKS



 Slide the TRIM PLATE, in the desired orientation, over the ALL THREAD TUBE, then thread and securely tighten the TRIM NUT onto the TUBE and secure TRIM NUT using SCREW provided.

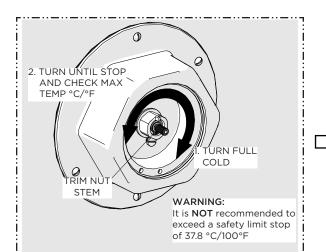
NOTE: ROTATING THE TRIM NUT STEM WILL HELP PROPERLY ALIGN IT WITH THE SQUARE TUBE USED ON THE GUTH37.



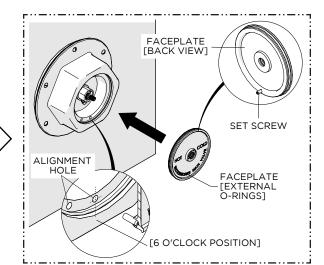
Slide the LIMIT STOP COLLAR back down the TRIM NUT STEM making sure to properly align it with the LIMIT STOP PIN and press down firmly.

NOTE: Pressing down firmly on the COLLAR will engage the O-RING is fully seated in its groove which will keep the collar securely in place.

THERMOSTATIC SHOWER TRIM



CAUTION: IF THE MAXIMUM BATHING TEMPERATURE IS NOT CORRECT OR NEEDS TO BE ADJUSTED, REMOVE THE LIMIT STOP COLLAR AND REPEAT STEPS 2 TO 7 TO RE-CALIBRATE THE TEMPERATURE SETTING.

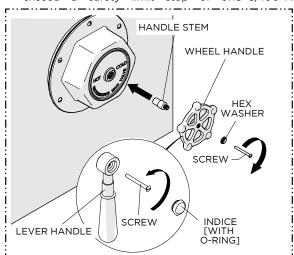


WATERWORKS

 Align the SET SCREW on the back of the FACEPLATE with the ALIGNMENT HOLE at 6 o'clock on the TRIM PLATE then push the FACEPLATE into the TRIM PLATE making sure it is fully seated.

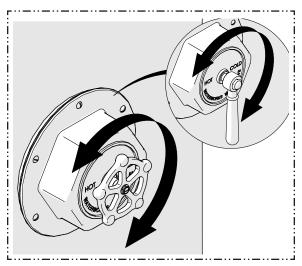
 Turn the TRIM NUT STEM clockwise to full cold then counterclockwise until snug and verify the maximum desired bathing temperature set in the previous step.

WARNING: It is **NOT** recommended to exceed a safety limit stop of 37.8°C/100°F.

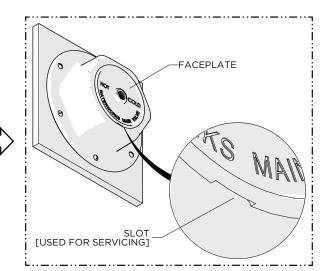


Place the HANDLE onto the HANDLE STEM in the desired orientation and secure with the SCREW provided.

NOTE: WHEEL HANDLES have a finished WASHER and LEVER HANDLES have a CAP to conceal the SCREW.



10. Operate the HANDLE to ensure that it is functioning properly.



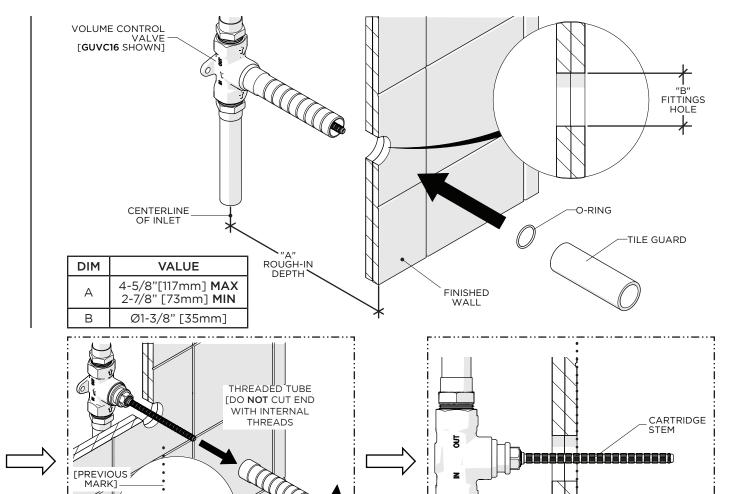
SERVICING ONLY:

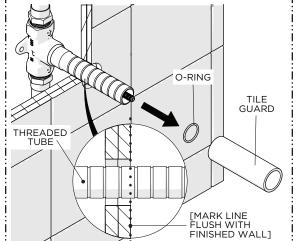
 A small notch is located at the bottom of the FACEPLATE to help in removing the PLATE during servicing.

VOLUME CONTROL TRIM WITH GUVC16/17/18/19

WATERWORKS

- CAUTION: The rough-in depth is measured from the centerline of the inlets to the surface of the finished wall. If the VALVE is roughedin too shallow, the TRIM cannot be installed correctly.
- Remove and discard the TILE GUARD only when the finished wall surface (TILE or SLAB) is completed and the TRIM is ready for installation.





 Remove the TILE GUARD when ready to install the TRIM then mark the THREADED TUBE where it protrudes past the finished wall.

 ${\bf NOTE:}~{\bf A}$ straight edge (not supplied) can be used to mark the TUBE.

 Remove the THREADED TUBE then cut it 1" [25mm] in front of the previous mark so the TUBE will protrude 1" [25mm] from the finished wall surface.

Γ25mm1

CUT MARK

NOTE: Do **NOT** cut the end of the THREADED TUBE with the female threads.

3. Mark the CARTRIDGE STEM where it protrudes past the finished wall.

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

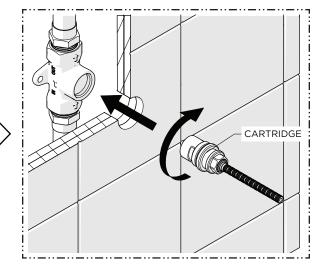
-[MARK LINE FLUSH WITH

FINISHED WALL]

VOLUME CONTROL TRIM WITH GUVC16/17/18/19

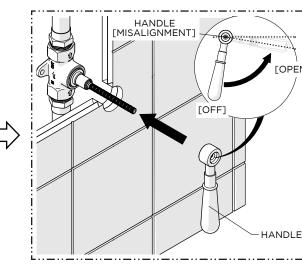
CARTRIDGE [PREVIOUS MARK] 1-3/4" [44mm] CUT MARK

4. Remove the CARTRIDGE using a 21/32" [17mm] shower valve socket wrench (not supplied) then cut the CARTRIDGE STEM 1-3/4" [44mm] in front of the previous mark so the STEM will protrude 1-3/4" [44mm] from the finished wall surface.

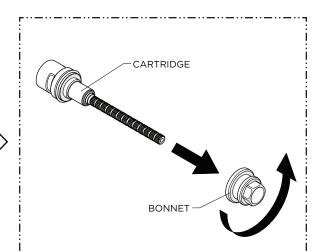


GUVC18 & GUVC19 ONLY:

5. Thread and securely tighten the CARTRIDGE back into the VALVE.



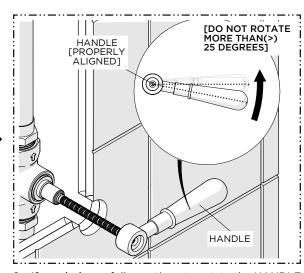
8. Remove and replace the HANDLE to position it as close as possible to the "OFF" position then turn the HANDLE a 1/4 turn to the "OPEN" position making sure NOT to unthread the CARTRIDGE.



WATERWORKS

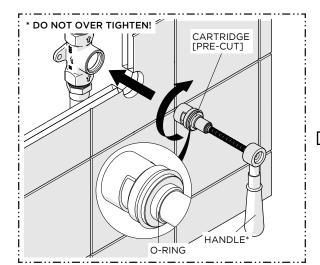
STEPS 6 - 10 GUVC16 & GUVC17 ONLY: HANDLE ALIGNMENT.

6. After cutting the CARTRIDGE STEM, unthread the BONNET from the CARTRIDGE if not already disassembled when removing from the VALVE.



 If needed, carefully continue to rotate the HANDLE counter-clockwise to obtain the proper alignment. Do NOT rotate/unthread the CARTRIDGE more than 25 degrees.

 $\mbox{{\bf NOTE:}}$ Repeat Steps 7 & 8 if the CARTRIDGE is unthreaded too far.



 Using the HANDLE, thread the CARTRIDGE back into the VALVE until there is NOTICEABLE resistance.

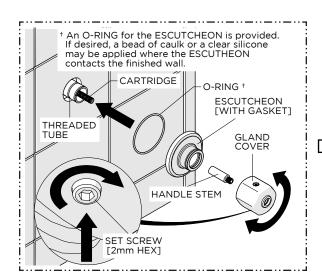
NOTE: Ensure the O-RING on the CARTRIDGE has not been damaged and is properly seated.

VOLUME CONTROL TRIM WITH GUVC16/17/18/19

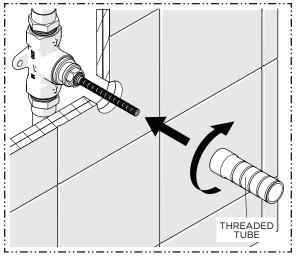
CARTRIDGE CONTRIBUTE (TORQUE: 15 to 18 ft-lb [21 to24 N•m])

10. Remove the HANDLE then thread and securely tighten the BONNET back onto the CARTRIDGE.

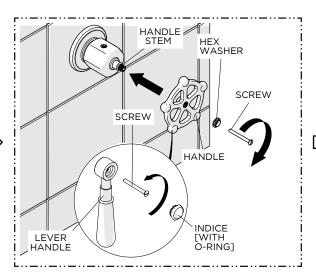
NOTE: The BONNET requires a torque between 15 and 18 ft-lb [21-24 N•m].



13. Thread and securely tighten the ESCUTCHEON onto the TUBE using the O-RING provided. Place the HANDLE STEM on CARTRIDGE then Push the GLAND COVER onto the ESCUTCHEON until it is FULLY seated, rotate it to the desired orientation, and securely tighten the SET SCREW.



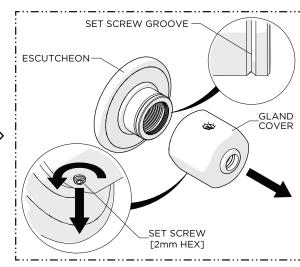
11. Thread and securely tighten the THREADED TUBE back onto the CARTRIDGE until snug.



 Place the HANDLE onto the HANDLE STEM in the desired orientation and secure with the SCREW provided.

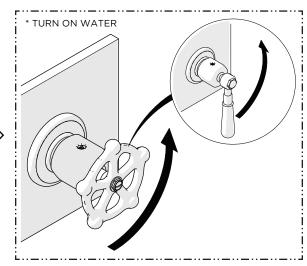
NOTE: WHEEL HANDLES have a finished WASHER and LEVER HANDLES have a CAP to conceal the SCREW.

WATERWORKS



 Loosen, but do NOT remove, the SET SCREW on the backside of the GLAND COVER then remove the GLAND COVER.

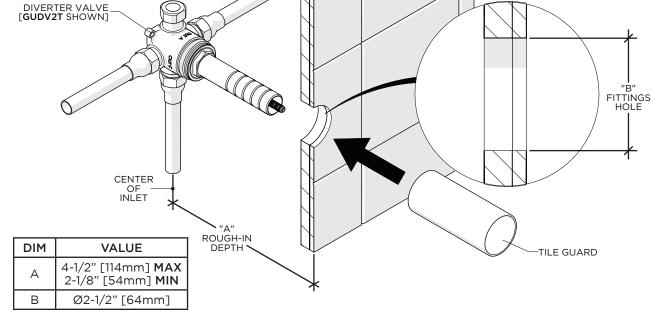
IMPORTANT: Do **NOT** use the GLAND COVER as leverage to install the ESCUTCHEON.

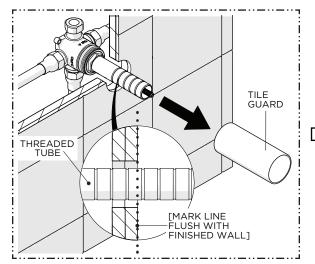


15. Turn on the water supply and operate the HANDLE to ensure that it is functioning properly.

DIVERTER TRIM WITH GUDV2T/3T/66

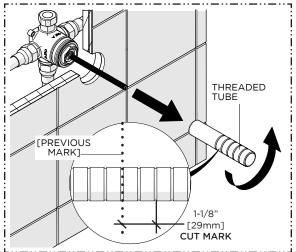
- CAUTION: The rough-in depth is measured from the centerline of the inlets to the surface of the finished wall. If the VALVE is roughedin too shallow, the TRIM cannot be installed correctly.
- The DIVERTER VALVE TRIM components (i.e. HANDLE and TRIM PLATE) are packaged separately from each other.
- Remove and discard the TILE GUARD only when the finished wall surface (TILE or SLAB) is completed and the TRIM is ready for installation.



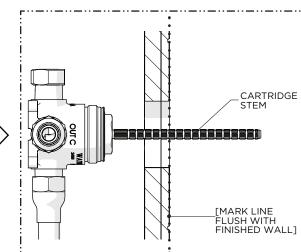


 Remove the TILE GUARD when ready to install the TRIM then mark the THREADED TUBE where it protrudes past the finished wall.

 $\mbox{{\bf NOTE:}}$ A straight edge (not supplied) can be used to mark the TUBE.



 Remove the THREADED TUBE then cut it 1-1/8" [29mm] in front of the previous mark so the TUBE will protrude 1-1/8" [29mm] from the finished wall surface.



WATERWORKS

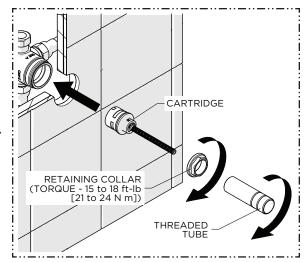
Mark the CARTRIDGE STEM where it protrudes past the finished wall.

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

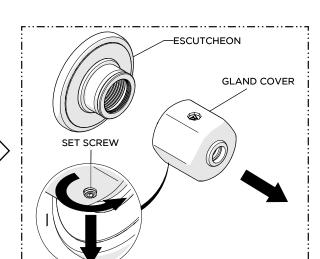
DIVERTER TRIM WITH GUDV2T/3T/66

CARTRIDGE RETAINING COLLAR [27mm HEX] 1-7/8" [48mm] CUT MARK

4. Unthread the RETAINING COLLAR and remove the CARTRIDGE then cut the CARTRIDGE STEM 1-7/8" [48mm] in front of the previous mark so the STEM will protrude 1-7/8" [48mm] from the finished wall surface.



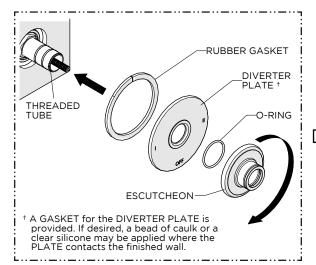
 Re-insert the CARTRIDGE then thread and securely tighten the RETAINING COLLAR to the specified torque setting shown and thread the THREADED TUBE back into the RETAINING COLLAR until snug.



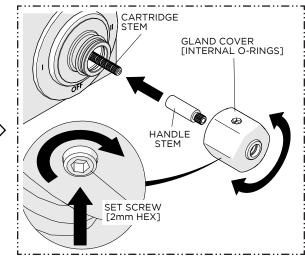
WATERWORKS

Loosen, but do NOT remove, the SET SCREW on the backside of the GLAND COVER then remove the GLAND COVER.

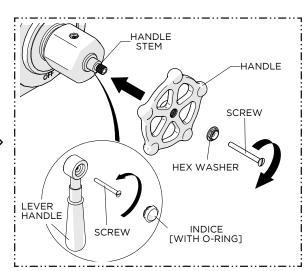
IMPORTANT: Do **NOT** use the GLAND COVER as leverage to install the ESCUTCHEON.



7. Using the GASKET provided, hold the DIVERTER PLATE against the finished wall then, using the O-RING provided, thread and securely tighten the ESCUTCHEON onto the THREADED TUBE.



8. Place the HANDLE STEM on the VALVE STEM, then place the GLAND COVER onto the ESCUTCHEON, making sure it is fully seated, rotate it to the desired orientation, and securely tighten the SET SCREW.



 Place the HANDLE onto the HANDLE STEM in the desired orientation and secure with the SCREW provided.

NOTE: WHEEL HANDLES have a finished WASHER and LEVER HANDLES have a CAP to conceal the SCREW.