

Dimensions are nominal measurements only.

SPECIFICATIONS			
Recommended use	Healthcare		
Colour availability	Chrome		
Pressure rating	Maximum continuous operating pressure 1000 kPa static, 500 kPa dynamic.		
	For best performance and longer life we recommend 100-500kPa.		
	Balanced hot/cold water pressure is preferred but will work on unbalanced pressure up to a ratio of 5:1		
Temperature rating	Maximum continuous working temperature 40-41°C		
Suitable Hot Water Units	Storage tank: Yes a 20 kPa minimum pressure		
	Continuous Flow: Yes a 20 kPa minimum pressure		
	Gravity Feed: Yes a 20 kPa minimum pressure		
Water Efficiency	WELS approval not applicable for thermostatic products		
Standards	AS 4032.1: 2005 Thermostatic Valves		



To see the complete Armitage Shanks range go to www.reece.com.au/bathrooms

CLEANING RECOMMENDATIONS

When cleaning chromed products use only a mild detergent, rinse & wipe dry with a soft cloth. Ideally clean after each use to maintain appearance.

Never use abrasive, scouring powders or scrapers. Never use cleaning agents containing alcohol, ammonia, hydrochloric acid, sulphuric acid, nitric acid, phosphoric acid or organic solvents. Use of incorrect cleaning products / methods may result in chrome damage which is not covered by the manufacturer's guarantee.





Armitage Shanks



Important Note

Mixer must be installed to the requirements of AS/NZS 3500 by a qualified plumber. Your mixer comes to you already factory assembled and tested. We do not recommend the dismantling of any internal part of the mixer. The mixers are factory tested and sealed so as to give the best performance.

INSTALLATION INSTRUCTIONS

This mixer is designed to be deckmounted on a countertop of maximum panel thickness 40mm.

Cut two holes of 30mm diameter, horizontally aligned to 200mm centres. Place the inlet tails through the tap holes and fit the backnuts and tighten to a torque of 25 Nm.

Connect the maintenance / disinfecting valves to the inlet tube using the integral compression fittings.

Connect the plumbing using G1/2 swivel couplers.



DO NOT apply heat near this product. Heat generated by soldering could damage plastic parts and seals.

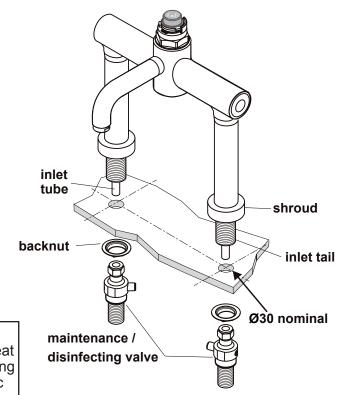


Figure 2 Installation - panel mounting

Check that all joints are securely tightened, test for leaks.

5.1 Flushing with hydro-purging kit

IMPORTANT NOTE:

Before operating the product, it is strongly recommended to flush the pipe work to remove any residues or debris remaining after installation. A purge kit is available for this purpose. Fig 3

A purging kit - 9506138 (A4556AA) (not included) designed to flush out debris from the pipe-work after installation is available.

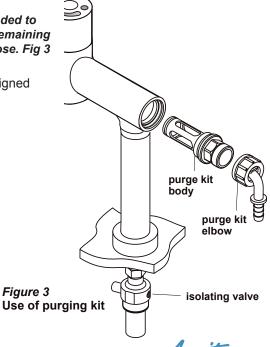
The following procedure should be used to flush the pipe work:

- 1. Close both isolating valves.
- Remove both maintenance carriers as described in section 11.
- 3. Screw the purge kit bodies into both sides of product. Screw elbows onto the ends of the purge kit bodies.
- 4. Open isolating valves and allow water to discharge into a vessel.

Note: suitable tubing can be push fitted onto elbows if required.

5.Once system has been purged, reverse this procedure.

Plumbers, please ensure a copy of the installation instructions is left with the end user for future reference





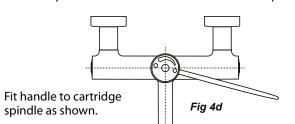
5.2 Fixation of handle

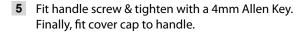
To prevent damage, mixers are supplied without the handle fitted. To fit the handle first carefully prise off plastic protective cover from cartridge spindle & discard. (Use a small flat bladed screwdriver if necessary).

Two rotational stop rings are fitted to the spindle. Removal of these rings is not necessary for handle fixation. However, top ring can be removed when temperature adjustment proves necessary.

(Cartridge orientation may differ from that shown in this diagram).

3 Ensure tab of upper stop ring is firmly against anticlockwise rotation stop. If not rotate the spindle anticlockwise until it is. The cartridge is now in the fully open position. (If necessary, use the spline drive in the handle to rotate the spindle).





Rotate handle clockwise to closed position. Handle should stop in approximate position shown.

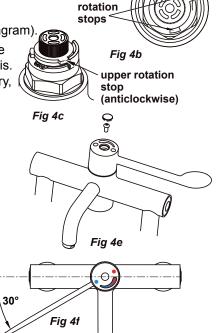


Fig 4a

6 OPERATION

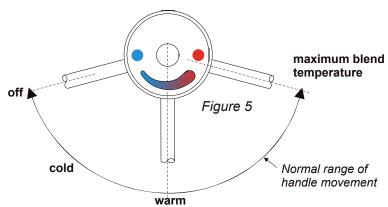


Figure 5 Showing the handle control positions.

As the handle is rotated anti-clockwise from the off position the delivered water progresses from cold through warm to the maximum temperature of approximately 41°C



7 COMMISSIONING AND AUDITS

The following procedure should be conducted after installation to ensure the product is functioning correctly.

7.1 Purpose of commissioning

- To confirm the correct designation of product versus application.
- To confirm the correct supply water conditions for the product / installation.
- To adjust the mixed temperature if necessary to suit the water supply conditions of the installation.
- To check the product is performing properly.
- To start an audit log and record appropriate data.

This product is factory set at 40 \pm 1°C with supplies of circa; 300 KPa balanced pressure and temperatures of 15°C cold & 65°C hot (i.e. an inlet Δt of 50°C & a hot / mix Δt of 24°C)

7.2 Commissioning Process (see decision tree FC1)

- Establish that the supply conditions are within the requirements outlined above. If not investigate.
- When conditions are acceptable record them, together with hot and cold temperatures. Establish Δt.

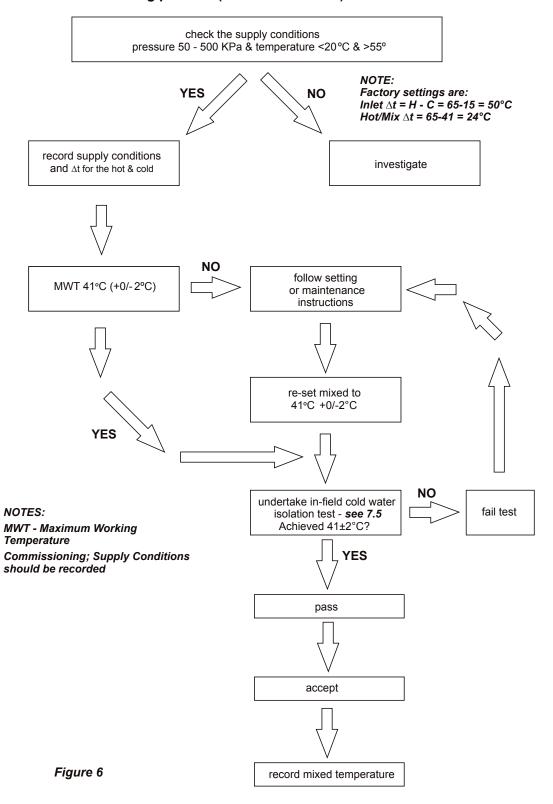
Check the outlet mix temperature is within $40 \pm 2^{\circ}$ C, if not(probably due to $\Delta t > 5$ C° difference to factory setting) adjust appropriately. (see 9.1)

If mixed temperature is correct undertake an 'in field' cold water isolation (CWI) test: (see 7.5)
 Pass – restore supply and record mixed temperature,

Fail - See 7.5 in-field 'Cold Water Isolation' test.



7.2 cont. Commissioning process (decision tree FC1)





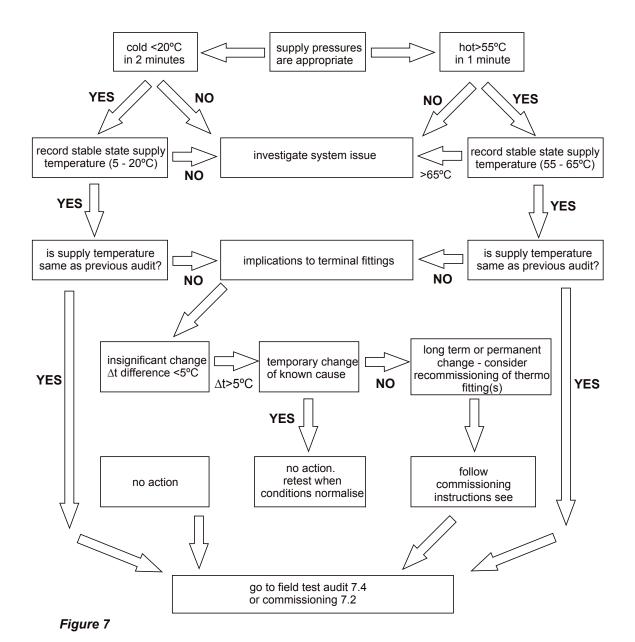
7.3 Audit Checks on TMV's

The purpose of a performance audit of a product is:

- To check the product continues to perform properly.
- To flag the need for the product to be adjusted due to supply condition changes or mechanism ageing.
- To ultimately identify the need for product maintenance.

Note - Additionally these audits facilitate regular verification of the supply conditions. (See decision tree FC3)

Audit of Supplies To Fittings (FC3)





7.4 Audit procedure (see decision tree FC2)

 Verify the water supplies conditions are similar to when the product was commissioned i.e. inlet ∆t as previous + / -5C°

Note: If inlet Δt change is > 5C° consider the cause of the change, If it is seen as a long term or permanent change, re-commission the product. If however, it is only a temporary change, retest when normal conditions resume.

- If inlet ∆t differs from the commissioning ∆t by < 5C° carry out field 'cold water isolation' (CWI) test (see 7.5 in field Cold Water Isolation test failure).
- Pass restore the cold supply and move on to check the mix temperature.

Note: If the product fails CWI test, refer to 7.5 and then re-commission the valve.

 Mixed Temperature is as commissioned ±2C°, Accept and record the temperature.

Note: If mixed Deviation > ±2C° (1st instance) reset mix as instructions and redo the test from start. See 9.1 Adjustment of the mix temperature.

 2nd & subsequent instances follow maintenance instructions.

7.5 In-field 'Cold Water Isolation' (CWI) test.

The isolating valve is located on the side of the maintenance/disinfection valves, normally below basin or vessel (see fig 12, section 11). Using a flat-blade screw driver, the screw can be rotated 90° anti-clockwise to isolate the cold water supply.

Before commencing the CWI test, ensure:

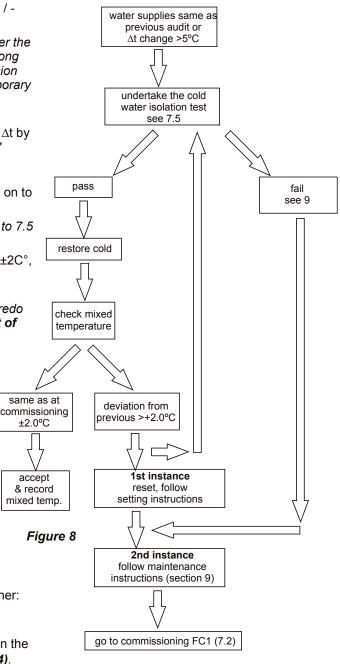
- 1. The water supply conditions are met either:

 A. For commissioning a new product
 - B. Or the inlet Δt is within $\pm 5^{\circ}$ C to when the product was commissioned (see 7.4).

NOTE It is important that the hot temperature is greater than 55°C

2. Mixed water outlet temperature is correct (see table 2, section 8).

Fitting Field Test Audit (FC2)





To perform a CWI test, operate the product by rotating the lever fully to the right. Then conduct the following procedure:

- 1. Record the steady state temperature of both hot and cold water supplies. Note the Δt .
- 2. Record the temperature of the mixed water at the outlet.
- 3. Isolate the cold water supply (by rotating the isolating screw 90° & monitor the flow of water from the outlet.

If the flow ceases, CWI test passed:

- 1. Restore the cold water supply by rotating the isolator screw 90° clockwise.
- 2. Re-check the temperature of the stabilised mixed water at the outlet to ensure it is still correct. Accept & record mixed temperature.

If there is an ongoing flow of water from the mixed water outlet, then 5 seconds after CWI collect the discharging water into a measuring vessel for 60 seconds. To pass the CWI test the volume of collected water should be less than 120ml.

If the product fails CWI test, see FC2 (see section 7.4) Follow product maintenance (see section 9) and servicing (see section 8) instructions.

8 SERVICING

The need for servicing is normally identified as a result of the regular performance auditing.

Application Maximum mixed water temperature during normal operation		Permitted maximum stabilised temperature recorded during site testing – excluding transient spikes	
Washbasin	41°C	43°C	

Table 2 A guide to maximum temperature sets

8.1 FREQUENCY OF REGULAR SERVICING

The purpose of servicing regularly is to monitor any changes in performance due to changes in either the system or the product. This may highlight the need to adjust either the supply system or the product. These products should be audited 6 to 8 weeks and again 12 to 15 weeks after commissioning. The results are to be compared against original commissioning settings.

If there are no significant changes at the mixed temperature outlet then a 6 monthly servicing cycle may be adopted. Otherwise, servicing checks should be carried out more frequently (e.g. every 4 months).

Follow the recommended auditing and maintenance procedures detailed in sections 7 & 9.

During servicing, note the following:

- 1. Repeat the procedure of recording and checking supply temperatures. (The same type of measuring equipment should be used)
- **2.** If the temperature has changed significantly from the previously recorded valves, the following should be checked:
 - a. All in-line or integral valve filters are clear of obstruction.
 - b. All in-line or integral check valves are clean and working properly to prevent backflow.
 - c. Any isolating valves are fully open.
 - d. The thermostat is free of debris
- **3.** When satisfied with the mixed outlet temperatures re-record the temperatures.



9 MAINTENANCE

When installed in a healthcare application, we recommend that the commissioning and maintenance procedures, detailed under 7 & 8, be carried out.

9.1 Adjustment of the mix temperature

- Note: Cartridge is factory pre-set at 40 ±1°C at 300 Kpa.
- 1. Move the lever to the fully on (max) position.
- 2. Remove the lever by prising out the cover button and unscrewing the retaining screw using a 4mm Allen key.
- 3. Remove the upper Anti clockwise stop ring (slide off spindle).
- Rotate spindle (using lever handle) to achieve correct mix temperature. (40 ±1°C) Rotate clockwise to reduce and anti-clockwise to increase
- 5. Refit the upper stop ring against cartridge stop face.

Note:1. This is the normal maximum temperature range for the product and as such there is a wide zone of spindle movement that gives this mix temperature. For best performance you should refit the stop at the first point of anticlockwise rotation that achieves the desired setting.

Note:2. If you are unable to achieve 40 $\pm 1^{\circ}$ C and you have the correct Δt 's it may be due to fine debris.

See 9.2 Removal and inspection of cartridge.

- Upon successful completion of the temperature adjustment, conduct the Cold Water Isolation (CWI) test (See 7.5) to ensure product is working properly.
- 7. Refit the lever and record the mix temperature.

9.2 Removal and inspection of cartridge

After checking that supply conditions are within the specified parameters, if the fitting malfunctions or should the test results fail to fall within the specified limits consider replacing the cartridge with a new one. **See 9.3 Important notes on debris.**

Isolate the fitting by turning the isolating valves 90° anti-clockwise (viewed facing the iso-valve).

Remove the lever handle as described in 9.1. Unscrew the cartridge from the body with a 36mm a/f deep socket. Inspect cartridge for damage.

Replace cartridge if necessary and reassemble cartridge into body.

The replacement cartridge should be tightened to a torque of 15Nm. (To re-secure the cartridge we recommend the use of Loctite 2400 or equivalent applied to the thread of the cartridge)

Replace lever handle (see sect 5.2) and reinstate the supplies.

Figure 9
Adjusting the pre-set temperature

cover button
screw
lever handle
sequential
cartridge
36mm A/F
(deep socket

4mm

retaining

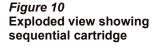
lever

upper

stop ring

handle

screw



required)

After fitting the new cartridge start the test procedure from the section on commissioning.

- Redo the Cold Water Isolation (CWI) test (See 7.5).
- Once satisfied with the CWI test, re-check and if necessary, adjust the maximum mix temperature, see (See 9.1).
- Record the mix temperature.

NOTE: During servicing (or replacing): the thermostatic cartridge fitted in this product does NOT require lubrication.



9.3 Important notes on debris

Although this product is protected by built-in filters, debris can still find its way to the thermostat housing area. This can happen during servicing for example. Remove cartridge (see section 9.2) and carry out an inspection.

9.4 Thermostatic Cartridge Ageing

Following many years of normal service you may notice the following:

- 1. The need to carry out more frequent adjustment of mixed temperature.
- 2. The thermostatic element may not pass the CWI test.

These issues could be due to the ageing of the thermostat which loses some expansion capability over time.

These are the principle objectives of testing, as they serve to indicate to maintenance staff the declining performance capability of the thermostatic cartridge.

For this reason the audit testing flow chart highlights that 2nd Instance CWI test failure or 2nd instance mixed deviation even with stable 'as commissioned' supply conditions and correct inlet supply Δt 's, is potentially the first indication of the need to replace the cartridge.

9.5 Armitage Bioguard Outlet

Traditional "flow straightener" type outlets have recently been identified by extensive research as an area most likely to harbour bacteria. This product uses an Armitage Bioguard outlet which replaces this traditional flow straightener with a fully open copper-lined waterway. This greatly reduces the risk of bacteria build-up whilst the copper lining has natural anti-microbial properties.

Outlet is suitable for autoclaving.

In the interests of infection control and health hygiene, the Armitage Bioguard Outlet is a supplement to, not a substitute for, standard infection control practices. Continue to follow all current protocols, including those practices related to cleaning and disinfection of surfaces.

Patent pending for Armitage Bioguard antibacterial outlet, application No: 10 2012 107 243.4

OUTLET FILTER: The Armitage Bioguard outlet can be removed (as described below) & replaced with a universal filter adaptor. The adaptor will accept most filter types which are externally threaded M24x1.

9.6 Outlet cleaning

On a regular basis the outlet should be inspected and cleaned.

To unscrew and remove the outlet, use an adjustable spanner on the flats (20mm). To refit, hand tighten and then use the spanner until the outlet has bottomed in the bore. Take care not to over tighten.

In areas where lime scale build-up is prevalent this should be avoided by regular cleaning. If it should build up, it will have to be removed. An inhibited proprietary scale solvent can be used such as kettle descaling solvent but it is important to follow the manufacturer's guidelines. After descaling it is important to rinse the parts thoroughly in clean water. Clean carefully and do not use abrasive materials or scrapers

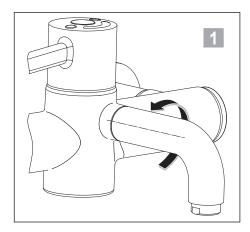
Note: Lime scale deposits should be removed prior to using any disinfection treatments.



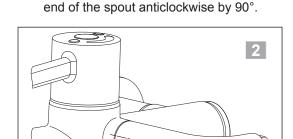
9.7 Spout removal

This mixer is fitted with a quick easily removable spout to assist with cleaning, disinfection by immersion or sterilisation by autoclaving.

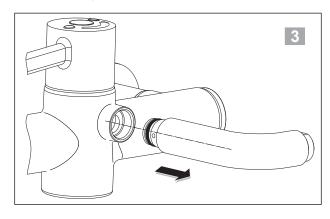
Procedure assumes availability of a replacement spout. For both practical functional reasons along with environmental contamination reasons, the mixer should not be left without a spout in place.



2. The spout should now be in the horizontal position as shown.



1. Ensure the handle is in the off position. To remove the spout: gently rotate the



3. Gently pull the spout away from the body as shown.

Quarantine this spout for cleaning protocols.

Ensure replacement spout complies with cleaning protocols.

To refit a spout, reverse this procedure.

Cleaning / disinfecting / sterilising the removed spout.

Physical **cleaning** is only necessary if evidence of solid deposits e.g. calcium or similar can be seen around the outlet.

Disinfection can be achieved by immersing in an appropriate bactericidal solution, using this method we would strongly recommend removal of the Armitage Bioguard outlet from the spout prior to immersion. For disinfection solution see section 9.9.

Sterilisation can be achieved by autoclaving for the desired period. Complete spout can be autoclaved (NB; the seals can withstand this process).

Additional spouts are available so during cleaning protocols an alternative spout can be fitted while the original is removed. This insures continuity of use of the mixer.



IMPORTANT

Do not leave the mixer outlet open without a spout fitted.



9.8 Demounting mixer

The designs of these mixers have been enhanced to permit easy demounting of the mixer from the inlets.

This updated design permits quick & easy removal of the mixer for cleaning, disinfection (as section 9.7 notes) & maintenance purposes.

Prior to commencing this procedure, you should have available either a replacement mixer (without inlets) or a pair of protective cover caps.

Method for demounting mixers:

- Isolate the hot and cold water supplies using the integral ball valves.
 See section 11.
 Operate mixer lever to confirm water supplies are closed off.
- Undo the 2 grub screws securing the mixer using a 3mm hexagon key. (Take care not to lose the screws).
- 3. Remove the mixer from the inlets, by gently pulling away as shown. Expect some trapped water to escape.
- During cleaning protocols:
 Fit a replacement mixer (without inlets) to ensure continuity of use. Alternatively fit cover caps to protect & seal the inlets.
- 5. To refit the mixer; reverse this procedure. Tighten screws securely.
- 6. Follow the commissioning procedure to ensure the product is functioning correctly. See section 7.

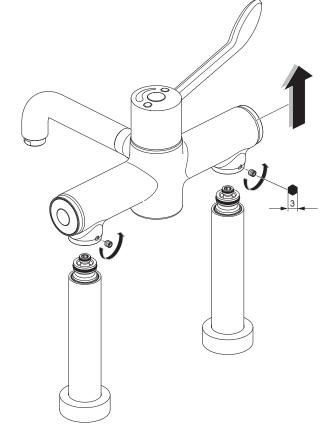
Disinfection by full immersion in an appropriate bactericidal solution is recommended for this assembly. Prior to immersion, the fitting should be clean and dismantled to a level that prevents air locking. In some cases it may be considered appropriate to dismantle the fitting prior to demounting.

The level of dismantling should be established as a result of practice and will be largely dependant upon the water quality and service life. As a minimum we recommend removal of the lever handle, thermostatic cartridge & the maintenance carriers in each side of the body. Cleaning the filter screens on the latter is of great importance, see section 11. All components can be immersed together unassembled.

Disinfected mixers should be promptly replaced or stored using an appropriate method until required. For disinfection solution see section 9.9



Take care to avoid damaging the inlet seals. Damage to these seals would compromise the insulate feature & affect the mixer's thermostatic performance.

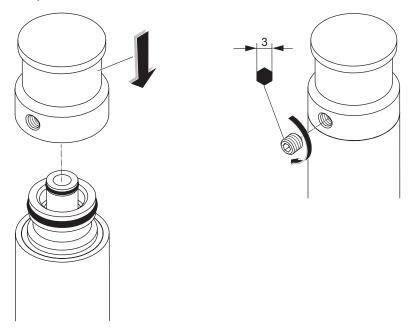




Protective cover caps

If a replacement mixer is not available, a pair of protective cover caps should be fitted to the inlets.

For both practical and functional reasons along with environmental contamination reasons, the inlets should not be left open.



Push the caps onto the inlets until they stop against the shoulder. Take care not to damage the o-ring seals.

Secure the caps with grub screws as shown using a 3mm hexagonal key. Leave the hot & cold supplies isolated.

Cover caps should be disinfected / sterilised when necessary.



IMPORTANT:

Do not leave the mixer inlets open without a body or cover caps fitted.

9.9 Disinfection solution

As discussed in sections 9.7 & 9.8, for disinfection, we recommend parts be immersed in an appropriate bactericidal solution.

The frequency of such disinfection actions will be derived from regular sampling carried out under the regime of the Responsible Person (Water). We would not expect to need greater than 6 monthly frequencies, hopefully considerably less.

The need for excessive use of this procedure would be indicative of the need for some root cause analysis as there could be some system or behavioural problems that need addressing.

IMPORTANT ADMINISTRATION NOTE:

Where an audit log document (report or electronic record) is being kept for a mixer, consideration should be given to the mixer's traceability during the demounting & disinfecting process.



10 INTEGRAL THERMAL-DISINFECTION

This fitting is equipped with a disinfecting feature, which allows an engineer to feed water from the hot inlet via a temporary bypass hose* into the cold inlet. This hot water then passes through the cold inlet, the thermostatic mixing chamber and out through the mixed water outlet. The temporary bypass hose is inserted into special valve connectors in the maintenance / disinfection valves (located under the basin or vessel).

Safety Note: Care should be taken when carrying out the following procedure to avoid contact with hot water and hot surfaces. We recommend the use of protective hand wear.

To disinfect the fitting proceed as follows:

- 1. Locate the isolating valves below the basin.
- 2. Isolate both inlets by turning the isolation valves through 90° anti-clockwise.
- Remove dust covers from the exposed nipples and push-fit the temporary flexible hose inserting the cold side first and then the hot.
- 4. Operate the fitting lever in line with the spout position.
- 5. Now turn the hot isolation valve clockwise. Hot water will now pass from the hot inlet, through the by-pass hose into the cold inlet and thence into the thermostatic mixing chamber and spout. Here by the nature of the thermostatic element it will fully open the cold port. The hot water will then discharge to waste via the fitting's spout, with a noticeable increase in surface temperature of the product.

See table 3 below for a guide to disinfection temperatures v/s time:

*The temporary bypass hose is available as an optional extra Part No. S8239NU)

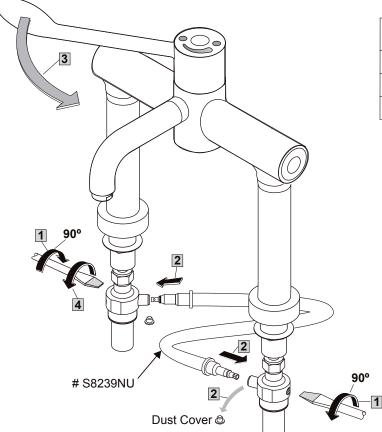


Figure 11 Fitting the Temporary bypass hose

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Temperature	Disinfection time	
60°C	20 minutes	
65°C	10 minutes	
70°C	5 minutes	

Following the recommended disinfection period, turn the hot isolation valve back to the isolation position, turn off the fitting and remove the bypass hose - hot side first then the cold. Turn both isolation valves back to the normal flow position. Check for normal operation of the fitting and replace dust caps.

NOTE: Thermal disinfection will only have occurred if water has been discharged from the spout according to the table 3 above.



11 INTEGRAL ISOLATING VALVES, CHECK VALVES STRAINERS & REGULATORS

The integral isolation valves facilitate a number of activities:

- · Cleaning strainers
- · Servicing the thermostatic cartridge
- · Connecting hose for integral thermal disinfection
- Audit cold water isolation test
- · Demounting the mixer from its inlets
- · Control flow during hydro-purge

Check valves

To prevent back siphonage of water to the supply pipes, check valves are fitted inside the inlet tails (19) – see figure 13. These check valves can be maintained/replaced, but MUST NOT BE REMOVED.

MPORTANT NOTE:

The integral isolating valve(s) shown below should be used regularly for all servicing & testing of this product. This is in preference to using any external inline isolating valves which may have been fitted upstream of the inlet legs. Regular exercising of both isolating valves is essential.

Strainers

To ensure trouble free operation of the fitting, the strainer elements should be checked and cleaned in accordance with the commissioning and servicing guide. (see section 7 & 8)

To access the strainer element, first close the isolation valves. Prise out the cover cap then unscrew the end cap using a 10mm Allen key and withdraw the maintenance carrier. The strainer element should be washed with clean water & disinfected before refitting.

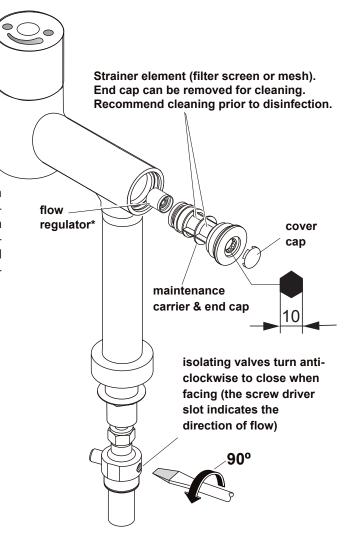


Figure 12 Exploded view showing strainers and flow regulator

*To achieve a suitable flow rate where supply pressures are very low it may be necessary to remove the flow regulator (*item 10 figure 13*).

NOTE: The flow regulator fitted in each maintenance carrier is nominally rated 5L/min. Therefore mixer is flow regulated to max 10L/min



11.1 Field tests & reports

Commissioning, field performance tests, repairs & ongoing maintenance should be recorded in accordance to AS 4032.3 for each thermostatic mixer installed (or in some cases to the relevant monitoring authority).

Statutory requirements in AS 4032.3 should be observed with regards to maintenance protocols, performance testing, data recording & calibrated measuring equipment.

The documentation used by the tester (or installer) for recording data can be either manual (paper) or electronic system. The reporting documents can be:

- · An established format already accepted on site by the local facility manager*.
- The typical format shown in appendix E of AS 4032.3.
- A format specified by the relevant monitoring authority.

A copy of the reports should be:

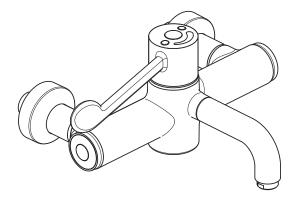
- · Retained by the tester.
- Forwarded to the local facility manager & be available on site for inspection.
- If necessary, forwarded to the relevant monitoring authority.

Prior to field testing or maintenance work on site, the local facility manager should be notified that the water service may be affected & delivery temperatures may vary during the testing period.

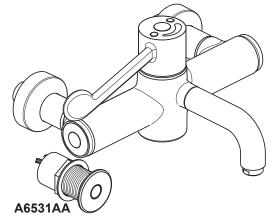
It is important to note that if the mixer is dismantled, repaired or adjusted, the commissioning procedure should be repeated.

(* Where facility manager can be site owner, site occupier or responsible person.)

OTHER PRODUCTS WITHIN THE MARKWIK 21 RANGE



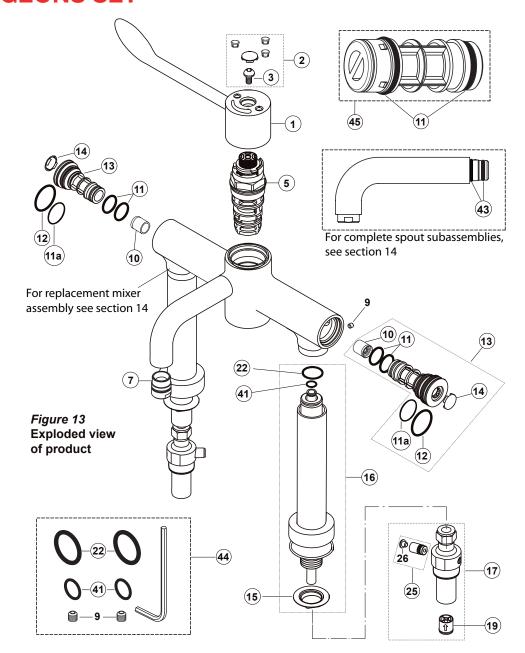
A6532AA
Panel mount thermostatic
mixer, lever operate



Panel mount thermostatic mixer, sensor operated - proximity

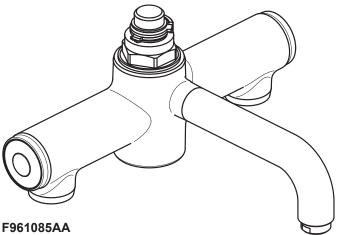
All products have demountable mixer bodies & removable spouts fitted with Armitage Bioguard outlet.



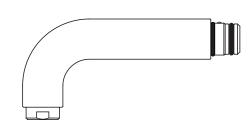


Item	Description	Part No.	Item	Description	Part No.
1	Lever Handle	E960668AA	15	Backnut G3/4	E960111NU
2	Index kit	E960615AA	16	Deck mounted inlet tail complete	F961093AA
3	Handle screw	A961950NU	17	Maintenance / disinfecting valve	F961094AA
5	Sequential, thermostatic cartridge	A962280NU	19	Check valve DW15 (Pair)	A962594NU
5a	Sequential, thermostatic cartridge		22	O-ring dia 17 x 2.5 (set of 4) -	
	(10 bulk pack)	F960879NU		(available within item 44)	A963143NU
7	Armitage Bioguard outlet with o-ring seal	F961091AA	25	Thermal disinfection nipple assembly	
9	Grub screw M6 x 6 -			(fit hand tight only)	F961095NU
	(available within item 44)	-	26	Dust cover	-
10	Flow regulator 5L/min (Pair)	A962689NU	41	O-ring dia 8.1 x 1.6 (single) -	
11	O-ring dia 17.6 x 2.4	A962497NU		(available within item 44)	A962345NU
11a	O-ring 25.0 x 1.5	A962496NU	43	O-ring Ø15 x 2.5 (for removable spout)	
12	O-ring dia 34.0 x 2.0	A960183NU		(pair)	F961003NU
13	End cap, maintenance carrier & filter		44	Demountable seal kit with grub screws,	
	(complete with o-rings)	F961092AA		o-rings & hex hey	F961004NU
14	Index button	E960641AA	45	Strainer & O-ring kit (10 bulk pack)	F961078NU





Replacement deck mount mixer without inlet legs & without lever handle. Fitted with F961086AA spout. See section 9.8



F961086AA

Deck mount spout complete. With 170mm reach. Fitted with Armitage Bioguard outlet & o-rings at the mixer coupling end. aSee section 9.7



A6255AA

Cover caps kit.
To protect & seal the inlets legs when a mixer has been demounted & removed.
See section 9.8



F961087AA

Universal filter adaptor. Replaces the Armitage Bioguard outlet to permit attachment of an outlet filter. Threaded M24x1 (internal).

