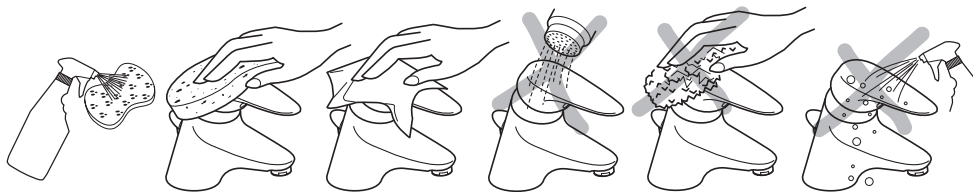


Cleaning chrome surfaces



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.

For more information about our products visit our websites:

www.armitage-shanks.co.uk

www.idealspec.co.uk

www.fastpart-spares.co.uk



AFTER SALES NON RESIDENTIAL HELPLINE
0870 122 8822

AFTER SALES NON RESIDENTIAL FAX
0870 122 8282

E-MAIL
aftersalesnonresidential@idealstandard.com

Armitage Shanks pursues a policy of continuing improvement in design and performance of its products.

This right is therefore reserved to vary specification without notice.

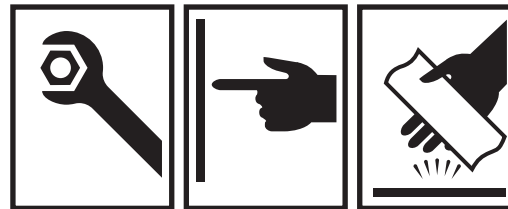
Armitage Shanks is a division of
Ideal Standard (UK) Ltd

Ideal Standard International NV
Corporate Village - Gent Building
Da Vincilaan 2
1935 Zaventem
Belgium

www.idealstandardinternational.com

**Armitage
Shanks**

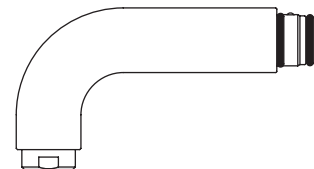
0116 / A 866 770
Made in Germany



Markwik 21 Replacement spouts for sequential thermostatic mixers

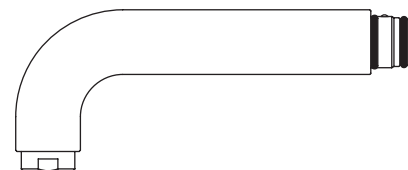
**Armitage
Shanks**

INSTALLATION INSTRUCTIONS

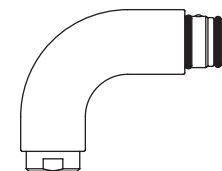


A6250AA
Panel mount spout complete.
With normal 135mm reach.

Now with
**Armitage
Bioguard**
Helping to prevent
the spread of
pseudomonas
bacteria



A6251AA
Deck mount spout complete.
With normal 170mm reach.



A6252AA
Panel mount spout complete.
Short version with 100mm reach.
(For S214401 Contour 21 short
projection wash basin)

All spouts are fitted with Armitage Bioguard outlet & o-ring at the mixer coupling end.

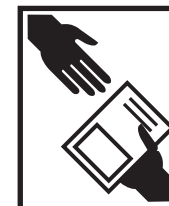
Introduction

From 2014, Markwik 21 thermostatic mixers are 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.

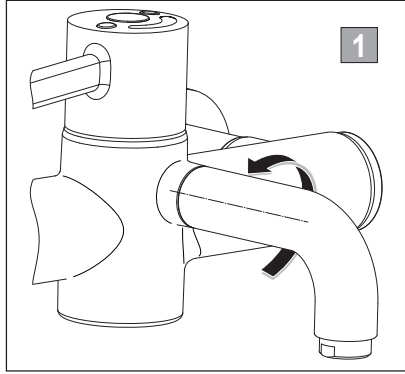
**FOR MORE INFORMATION REFER TO THE MAIN MARKWIK 21 PRODUCT
INSTALLATION BOOKLET.**

INSTALLER: After installation please pass this instruction leaflet to user

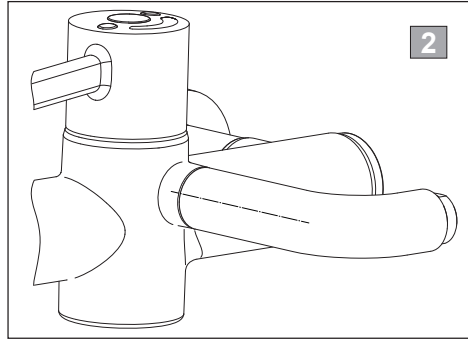


Spout removal

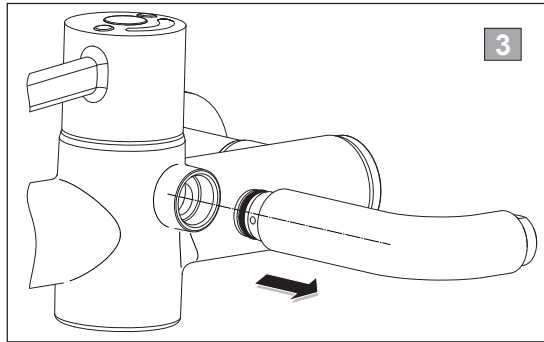
The spout can be removed from Markwik 21 mixers as follows:



1. Ensure the handle is in the off position. To remove the spout: gently rotate the end of the spout anticlockwise by 90°.



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



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 next page.

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. For additional spout part numbers, see front page.



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

Disinfection solution

For spout disinfection, we recommend parts be immersed in a 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.

Recommended Disinfection Solutions

For immersion we recommend the use of a 70% Ethanol solution for 10 minutes.

NB: counter intuitively, **greater than recommended concentrations are less effective** not more effective; take care to get the recommended concentration in line with the manufactures recommendation.

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.

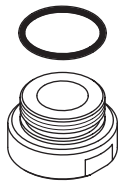
Outlet is suitable for autoclaving.

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. Refer to HTM04-01 for more details.

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 part No: A6256AA. This adaptor will accept most filter couplers which are externally threaded M24x1.

Spare parts: Replacement Armitage Bioguard outlet is available with seal part No: F960847AA. Spout coupling o-ring spare is part No: F961003NU



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 a 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.