

BRISTAN

Smile Tap Range

Installation Instructions & User Guide




Please keep these instructions for future reference and request of replacement parts

Contents

Thank you for choosing Bristan, the UK's leading taps and showers expert. We have designed this product with your enjoyment in mind. To ensure that it works to its full potential, it needs to be fitted correctly. These fitting instructions have been created to give you all of the information you need and, if you need any further help, please do not hesitate to give us a call on 0844 701 6273.

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Important Safety Information

- Please read these instructions thoroughly and retain for future use.
- All products manufactured and supplied by Bristan are safe provided they are installed correctly, used correctly and receive regular maintenance in accordance with these instructions.
- **If you are in any doubt about your ability to install this product safely you must employ the services of an experienced qualified plumber.**
- Remove all packaging and check the components for damage before starting installation.
-  Before starting any installation please consider the following: Prior to drilling into walls, check that there are no hidden electrical wires, cables or water supply pipes. This can be checked with the aid of an electronic detector.
- If power tools are used do not forget to:
 - Wear eye protection
 - Unplug equipment after use
- This product **must** not be modified in any way as this will invalidate the guarantee.
- These fittings need to be installed in accordance with and meet the requirements of the Water Supply (Water Fittings) Regulations 1999 and Scottish Byelaws 2004.

General Specifications

Operating pressure range (bar)	Min	Max
Basin Taps	0.2	7.0
Bath Taps	0.2	7.0
Basin Mixer	0.2	7.0
Bath Shower Mixer	0.2	7.0
Bath Filler	0.2	7.0

Maximum static pressure – 10.0 bar

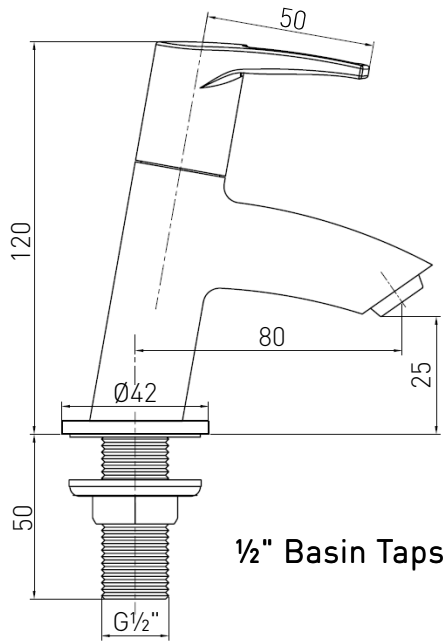
NOTE:- Nominally equal (balanced) inlet supply pressures are recommended for optimum Performance of mixer taps.

Designed to comply with BS EN 200 for single taps / combination taps for water systems of type 1 and 2 general technical specifications and to be used within systems designed to BS 6700.

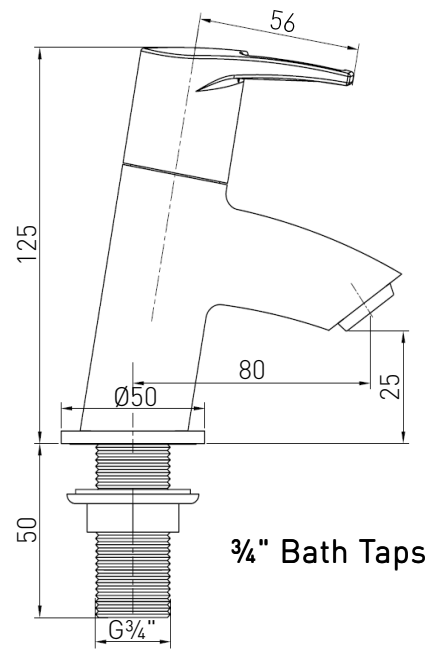
BS 6700 recommends the temperature of stored water should never exceed 65°C. A stored water temperature of 60°C is considered sufficient to meet all nominal requirements and will minimise the build up of lime scale in hard water areas.

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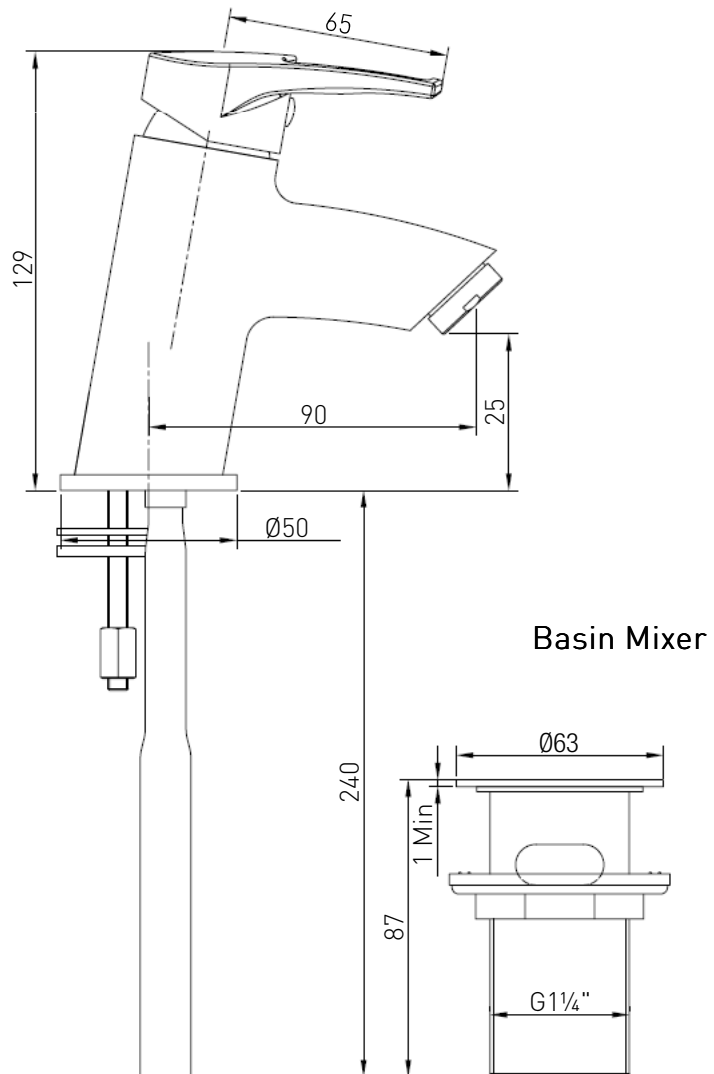
Dimensions



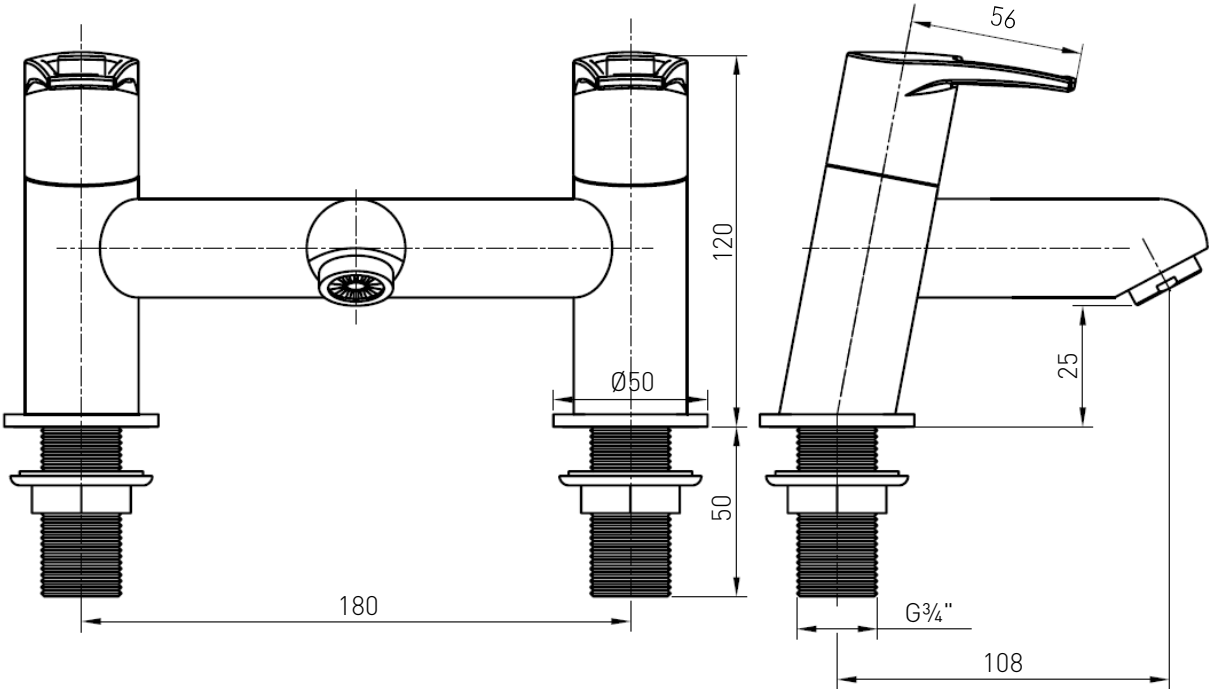
1/2" Basin Taps



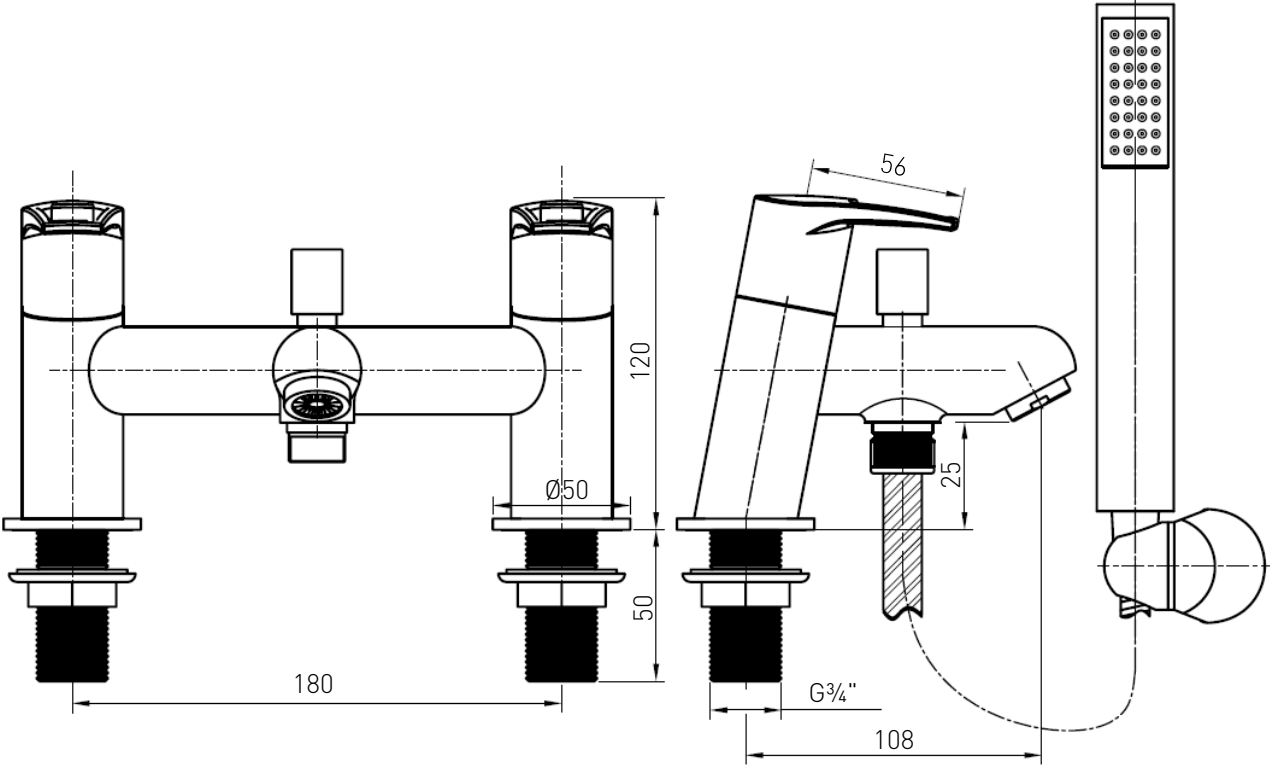
3/4" Bath Taps



Dimensions Cont.



Bath Filler



Bath Shower Mixer

Installation Requirements

IMPORTANT - PLEASE READ

This/these fitting/fittings needs/need to be installed in accordance with the following Installation Requirements and Notes (IRN) to ensure they meet the requirements of the Water Supply (Water Fittings) Regulations 1999 and the Scottish Byelaws 2004.

IRN R001 - SM ½ C, SM ¾ C, SM BAS C, SM BF C, SM BSM C

See text of entry for Installation Requirements or Notes.

IRN R005 – SM BF C, SM BSM C

This tap or combination tap assembly has a Type AUK2 air gap and is therefore only suitable for installation in domestic premises or in other premises to protect against a backflow risk up to a Fluid Category 3, unless additional backflow protection for the higher risk is included in the installation.

IRN R006 – SM ½ C, SM ¾ C, SM BAS C

This tap or combination tap assembly has a Type AUK3 air gap and is therefore for installation in any premises to protect against a backflow risk up to a Fluid Category 5.

IRN R010 – SM BAS C, SM BF C - Schedule 2-15 (1)

Water supplies shall be a reasonably balanced pressures from a common source (e.g. hot and cold supplies both from the same storage or both from a supply pipe). Where the fitting is supplied from unbalanced supplies (e.g. hot and cold supplies from separate sources) a '**Listed**' **single check valve** or some other no less effective backflow prevention device shall be fitted immediately upstream of both hot and cold water inlets.

IRN R030 – SM BSM C - Schedule 2-15 (1)

Multiple inlet fittings installed in domestic premises or in other premises to protect against a backflow risk up to a Fluid Category 3, incorporating a self cancelling diverter acceptable as a backflow prevention device (HC) and having an AUK2 or AUK3 air gap, shall be installed in accordance with IRN R010.

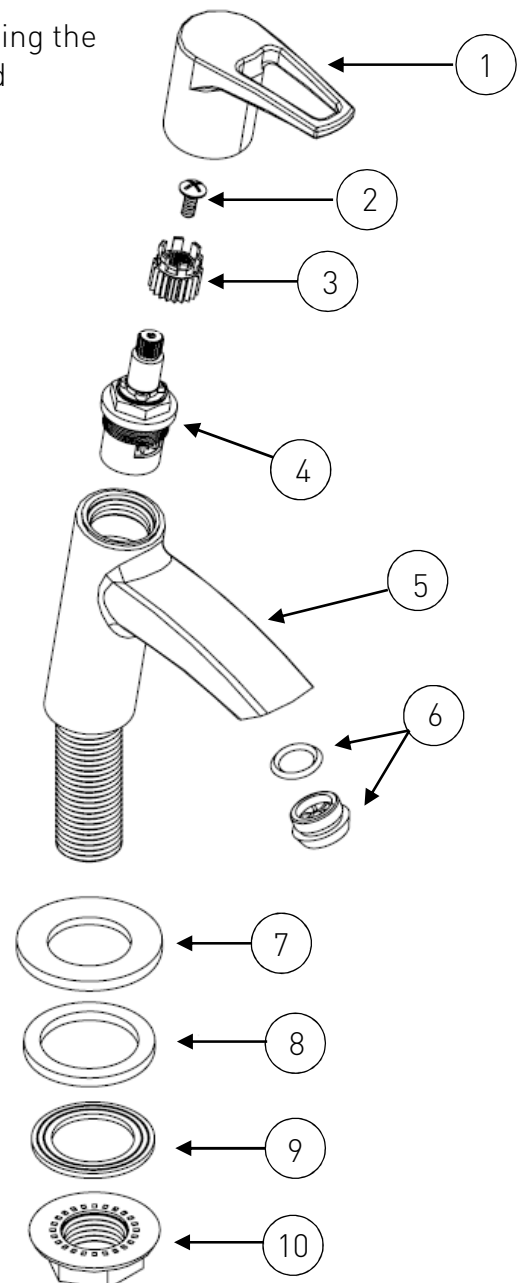
Multiple inlet fittings installed in premises other than domestic to protect against a backflow risk up to a Fluid Category 5, incorporating a self cancelling diverter acceptable as a backflow prevention device (HC only) and having an AUK2 or AUK3 air gap, shall be installed in accordance with IRN R010. Alternatively the fitting shall be supplied in accordance with IRN R040 unless the shower head is constrained above the spill-over lever of the bath, wash basin or shower tray.

Installation

½" Basin & ¾" Bath Taps

1. Identify all components are present prior to starting installation.
2. Slide the plinth (7) and washer (8) onto the threaded tail and install the taps to the basin.
3. Using the washer (9) and backnuts (10) secure the taps to the basin by tightening the backnuts onto the threaded tails (a suitable spanner maybe needed to fully tighten the backnuts (10)).
4. Connect the hot and cold water supplies to the taps.
5. Turn on the water supplies and open both taps letting the water flow for a few minutes to check all joints and connections for any leaks.

- | | | |
|-----|-------------------|----|
| 1. | Handle | x2 |
| 2. | Fixing Screw | x2 |
| 3. | Spline Adaptor | x2 |
| 4. | Valve | x2 |
| 5. | Tap Body | x2 |
| 6. | Flow Straightener | x2 |
| 7. | Plinth | x2 |
| 8. | Washer | x2 |
| 9. | Washer | x2 |
| 10. | Backnut | x2 |



Installation cont.

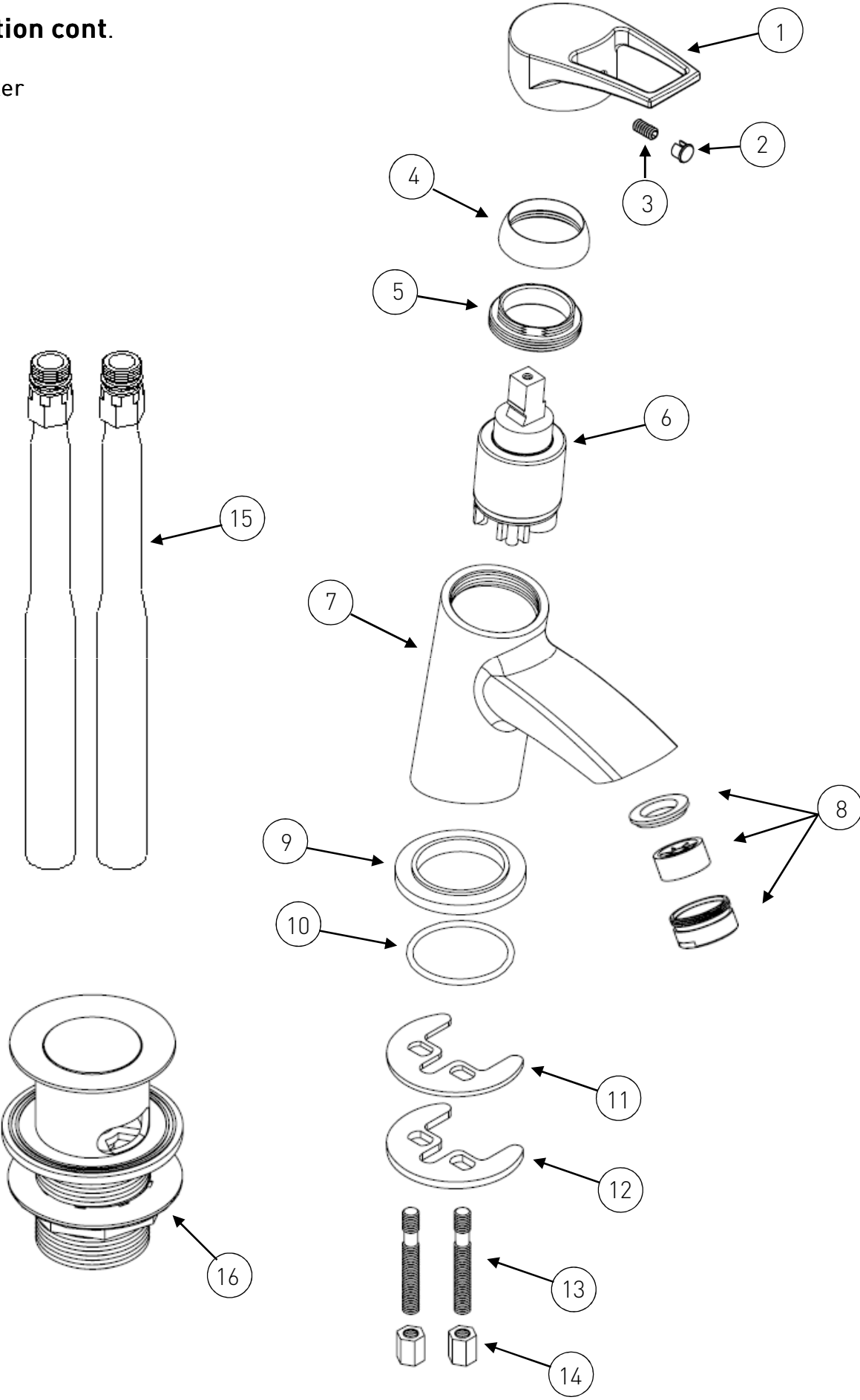
Basin Mixer

1. Identify all components are present prior to starting installation using the diagram overleaf.
2. Fit the mixer body (7) to the basin ensuring the plinth (9) and washer (10) are fitted between the basin and the mixer body (7).
3. Fit the 'C' shaped rubber washer (11) and the 'C' shaped metal washer (12) to the underside of the basin and screw the fixing studs (13) into the bottom of the mixer body (7). Tighten the fixing nuts (14) on to the fixing studs (13) to secure the basin mixer in place.
4. Fit the copper connecting pipes (15) to the mixer (**DO NOT OVERTIGHTEN**) and connect the hot and cold water supplies. Copper connecting pipes can be carefully bent and cut to length to meet the supply pipes.
5. Fit the clicker waste (16) to the basin ensuring the rubber washer is fitted between the basin and the waste. Use a pure silicon sealant where necessary. Place the shaped washer under the basin and secure in place by tightening the backnut. In order to fill the basin, the button in the middle of the waste needs to be pressed down. To release the water, press the button again.
6. Lift the handle up and turn in both directions, letting the water flow for a few minutes to check all joints and connections for any leaks.

1.	Handle	x1	9.	Plinth	x1
2.	Handle Cap	x1	10.	Washer	x1
3.	Grub Screw	x1	11.	C' Shaped Rubber Washer	x1
4.	Shroud	x1	12.	C' Shaped Metal Washer	x1
5.	Cartridge Retaining Ring	x1	13.	Fixing Studs	x2
6.	Cartridge	x1	14.	Fixing Nuts	x2
7.	Mixer Body	x1	15.	Copper Connecting Pipes	x2
8.	Flow Straightener	x1	16.	Clicker Waste	x1

Installation cont.

Basin Mixer



Installation cont.

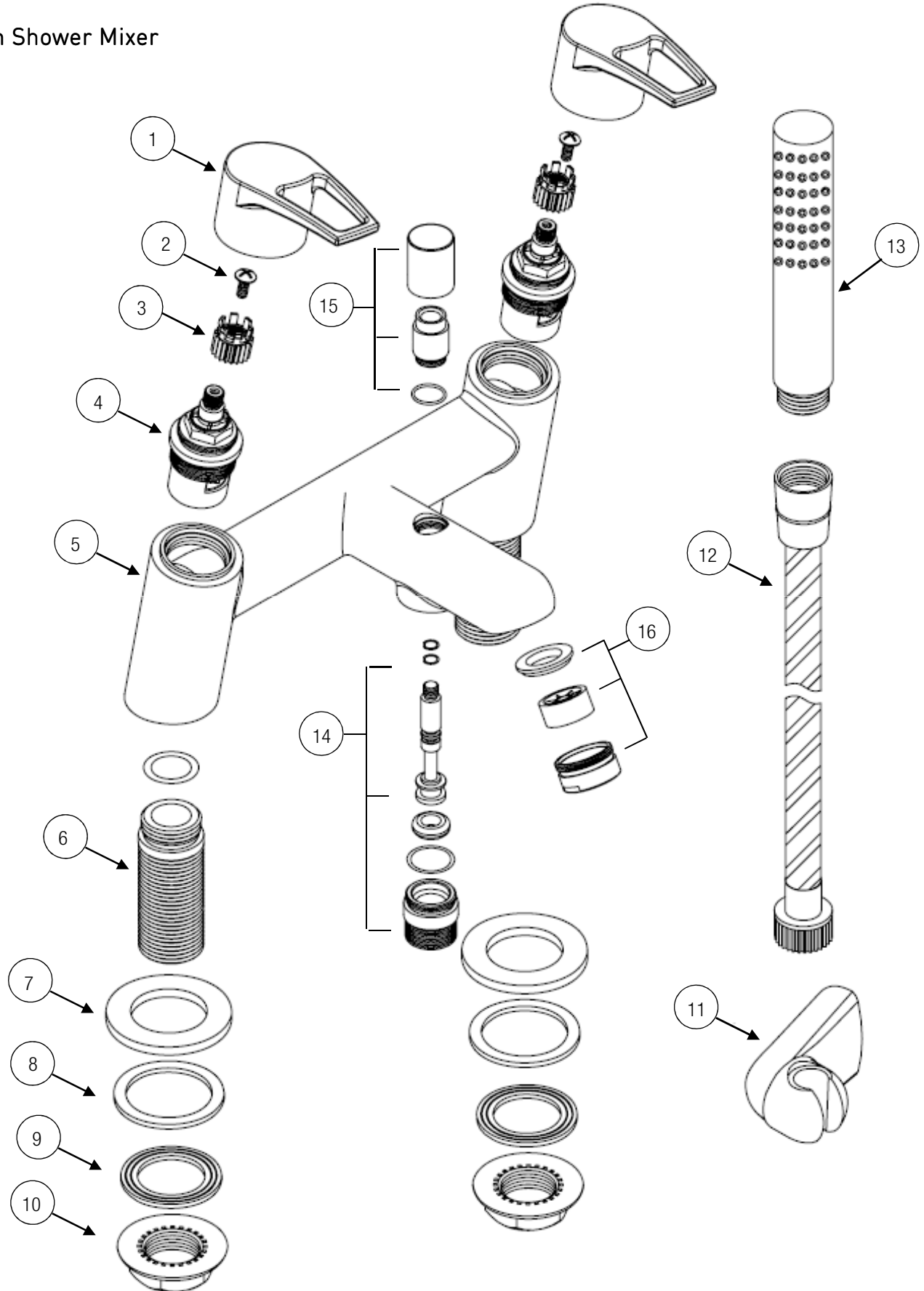
Bath Shower Mixer

1. Identify all components are present prior to starting installation using the diagram overleaf.
2. Slide the Plinth (7) and washer (8) onto the threaded tail (6) and install the mixer body (5) to the bath.
3. Using washers (9) and the backnuts (10) secure the mixer body (5) to the bath by tightening the backnuts (10) onto the threaded tails (6) (a suitable spanner maybe needed to fully tighten the backnuts (10)).
4. Connect the hot and cold water supplies using ¾" tap connectors (not supplied).
5. Fit the shower hose (12) to the hose outlet, using the small washer and the handset (13) to the hose using the small washer.
6. Fit the wall bracket (11) to the wall using the fixings supplied, ensuring the handset (13) and hose (12) reaches it.
7. Turn the handles in both directions, letting the water flow for a few minutes to check all joints and connections for leaks.
8. To switch from bath to shower mode, pull the diverter knob up, to revert back to bath filling mode push the diverter knob back down.

1.	Handle	x2	9.	Washer	x2
2.	Grub Screw	x2	10.	Backnut	x2
3.	Spline Adaptor	x2	11.	Wall Bracket	x1
4.	Valve	x2	12.	Shower Hose	x1
5.	Mixer Body	x1	13.	Handset	x1
6.	Threaded Tail	x2	14.	Diverter Mechanism	x1
7.	Plinth	x2	15.	Diverter Knob	x1
8.	Washer	x2	16.	Flow Straightener	x1

Installation cont.

Bath Shower Mixer



Installation cont.

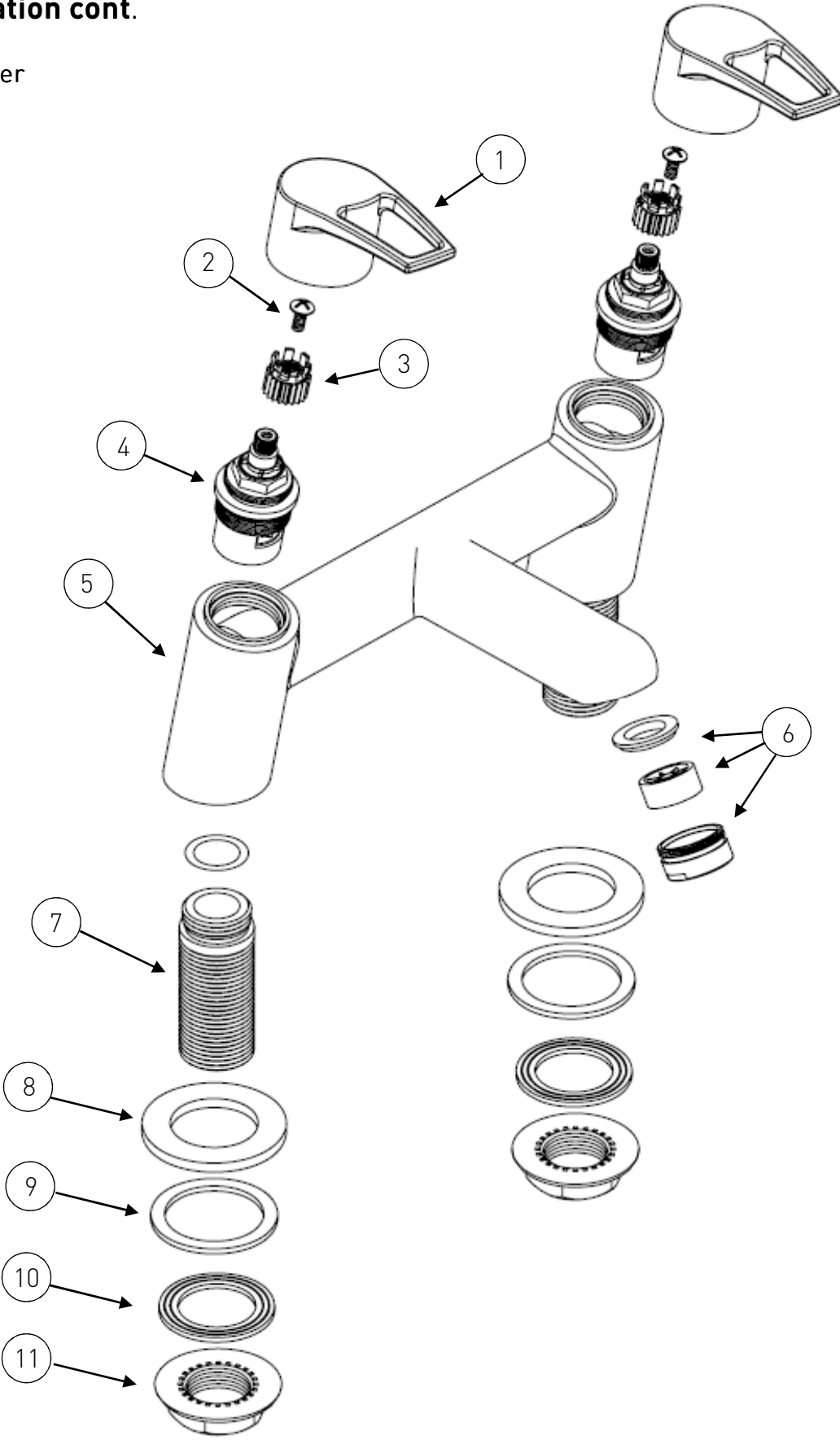
Bath Filler

1. Identify all components are present prior to starting installation.
2. Slide the Plinth (8) and washer (9) onto the threaded tail (7) and install the mixer body (5) to the bath.
3. Using washers (10) and the backnuts (11) secure the mixer body (5) to the bath by tightening the backnuts (11) onto the threaded tails (7) (a suitable spanner maybe needed to fully tighten the backnuts (11)).
4. Connect the hot and cold water supplies using $\frac{3}{4}$ " tap connectors (not supplied).
5. Turn the handles in both directions, letting the water flow for a few minutes to check all joints and connections for leaks.

1.	Handle	x2	7.	Threaded Tails	x2
2.	Grub Screw	x2	8.	Plinth	x2
3.	Spline Adaptor	x2	9.	Washer	x2
4.	Valve	x2	10.	Washer	x2
5.	Mixer Body	x1	11.	Backnut	x2
6.	Flow Straightener	x1			

Installation cont.

Bath Filler



Maintenance

General Cleaning

Your fitting has a high quality finish and should be treated with care to preserve the visible surfaces. All finishes will wear if not cleaned correctly. The only safe way to clean your product is to wipe with a soft damp cloth. Stains can be removed using washing up liquid. All bathroom cleaning products (powders and liquids) will damage the surface of your fitting, even the non-scratch cleaners.

Note: Never use abrasive detergents or disinfectants or those containing alcohol, hydrochloric acid or phosphoric acid.



Bristan recommend E-cloth for cleaning all of our bathroom & kitchen products. Using just water, E-cloth gives a smear free, deep clean by breaking up and holding dirt, which normal cloths leave behind. Order through your Bristan stockist (order code: E-CLOTH).

Cleaning the Showerhead – SM BSM C

Your Bristan showerhead has rub-clean nozzles for easy cleaning. Simply rub your fingers across the rubber spray jets regularly and before you turn the shower on to remove any scale or debris.

The hardness of the water in your area will determine how often you should clean your showerhead. Build up of scale in particularly hard water areas combined with constant use means you may need to clean your showerhead once a week. To ensure continued performance the showerhead needs to be regularly descaled.

See map of Hard Water Regions in the UK on page 17 to see the water type in your area.

Tip: If the showerhead is heavily scaled or has not been maintained for a long period of time a solution of hot water and white vinegar may be needed to clear the scale.

Mix a 50/50 solution and rub the nozzles thoroughly with the solution making sure the solution gets into all of the nozzles.

Wash off the solution with clean water.

Maintenance

Cleaning the Valves – Basin Taps, Bath Taps, Bath Filler and Bath Shower Mixer

We advise that your fitting is regularly serviced in hard water areas to maintain optimum performance (see map of Hard Water Regions in the UK on page 17).

If your fitting begins to leak the following should be carried out;

Isolate both hot and cold water supplies to the kitchen mixer by either:

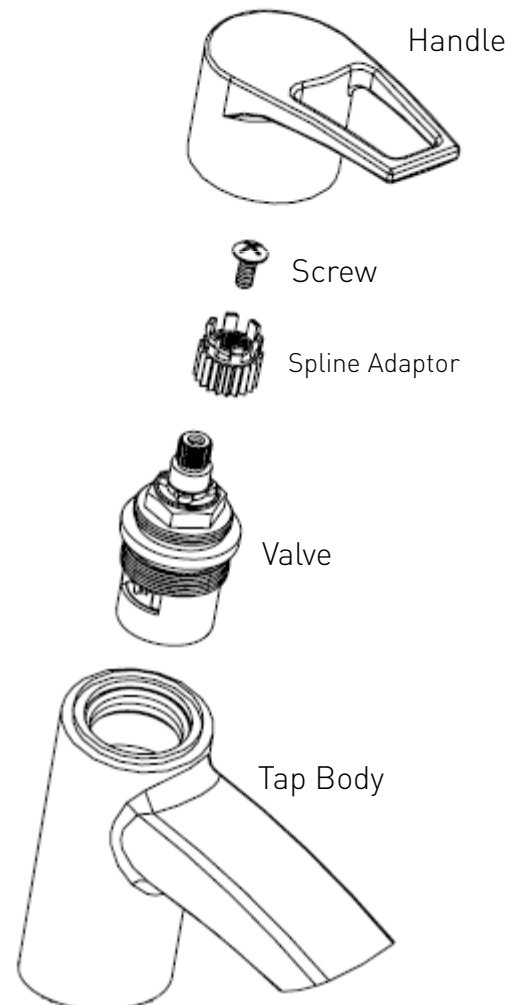
- Turning the water supply off at the mains stopcock or
- Turning off the isolation valves to the kitchen mixer.

1. Remove the handle by pulling it up off the spline adaptor.
2. Loosen the screw and pull the spline adaptor off from the valve spindle.
3. Using a suitable spanner remove the valve from the tap body.
4. Clean the valve and the seating inside the tap body.
5. If necessary replace the valve

Please visit www.bristan.com/sparesfinder in order to find spare parts for this product.

6. Replace the valve into the tap body and tighten fully using a suitable spanner.
7. Push the spline adaptor back onto the valve spindle.

8. Tighten the screw into the centre of the valve spindle to secure the spline adaptor in position.
9. Replace the handle by pushing firmly onto the spline adaptor.



Maintenance

Cleaning the Cartridge – Basin Mixer

We advise that your fitting is regularly serviced in hard water areas to maintain optimum performance (see map of Hard Water Regions in the UK overleaf).

If your fitting begins to leak the following should be carried out;

Isolate both hot and cold water supplies to the kitchen mixer by either:

- Turning the water supply off at the mains stopcock or
- Turning off the isolation valves to the kitchen mixer.

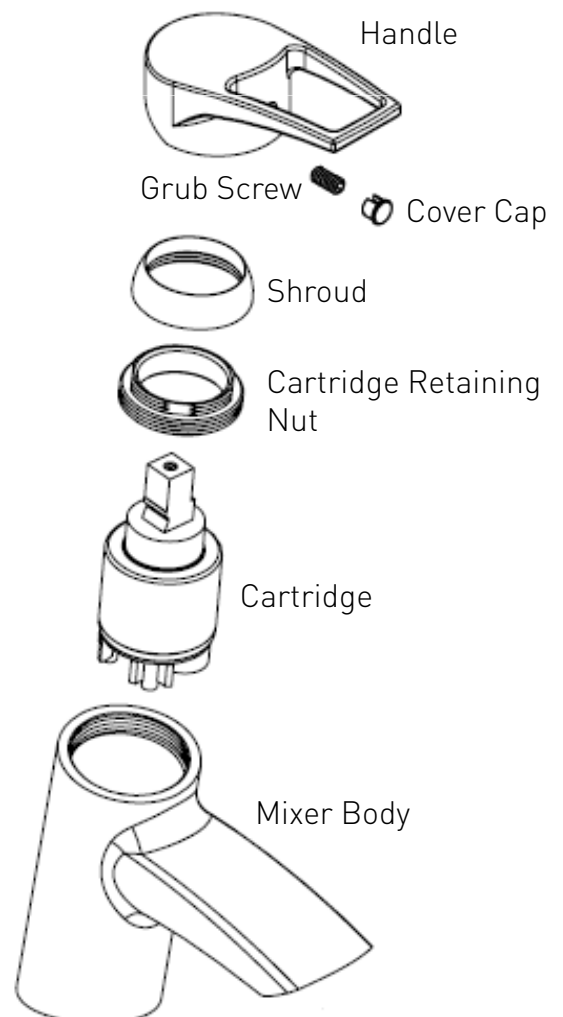
1. Remove the handle by prising out the cover cap using a flat bladed tool and loosen the grub screw using a suitable hexagonal key.
2. Unscrew the shroud from the cartridge retaining nut.
3. Using a suitable spanner unscrew the cartridge retaining nut from the mixer body.
4. Pull the cartridge out from the mixer body.
5. Clean the cartridge and the seating inside the mixer body.
6. If necessary replace the cartridge.

Please visit www.bristan.com/sparesfinder in order to find spares for this product.

7. Replace the cartridge back into the mixer body.

Note: The cartridge has locating pins on the bottom which align with locating holes in the body.

8. Using a suitable spanner tighten the cartridge retaining nut back onto the mixer body.
9. Screw the shroud onto the cartridge retaining nut.
10. Replace the handle, tighten the grub screw and replace the cover cap.



Hard Water Regions in the UK



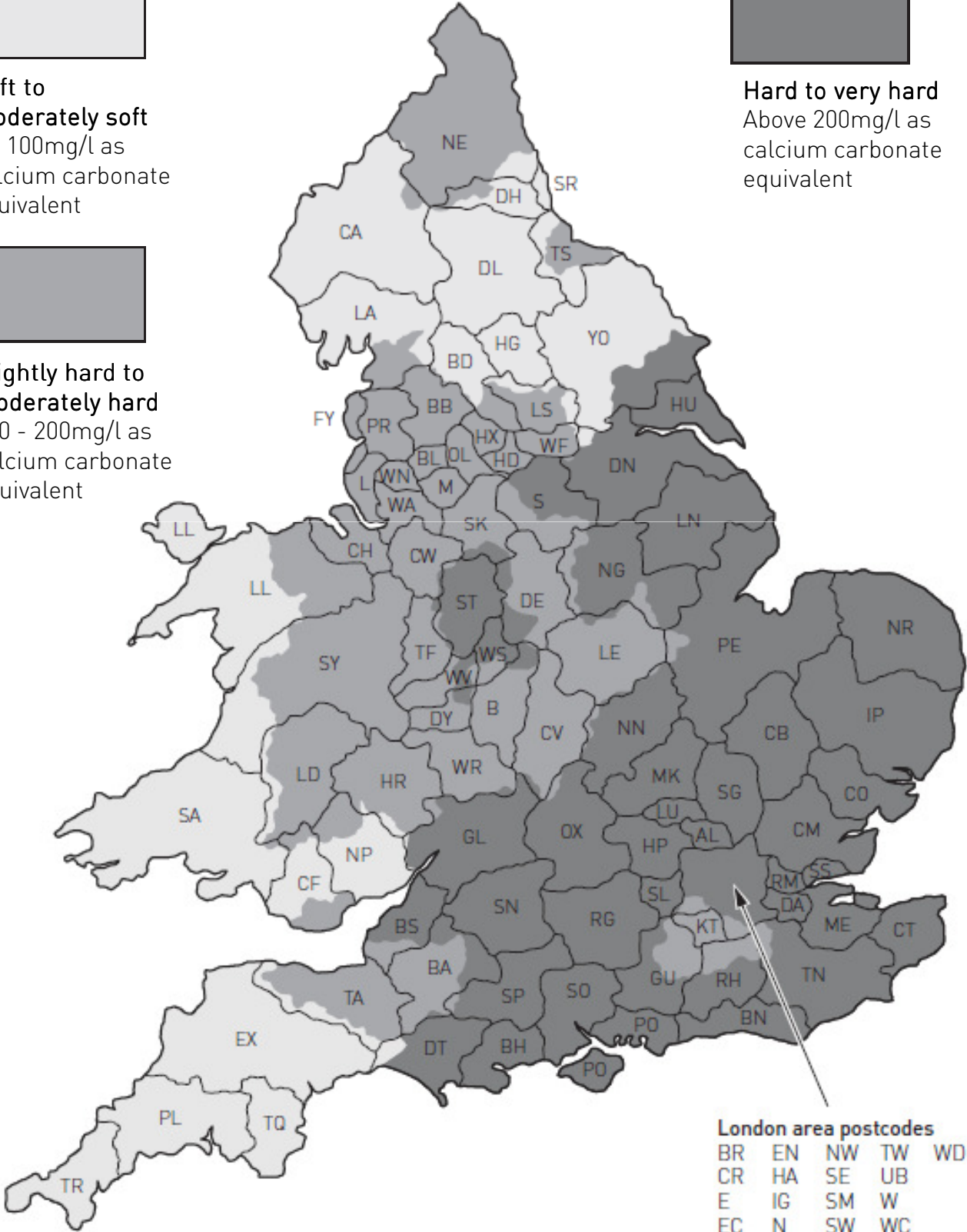
Soft to moderately soft
0 - 100mg/l as calcium carbonate equivalent



Slightly hard to moderately hard
100 - 200mg/l as calcium carbonate equivalent



Hard to very hard
Above 200mg/l as calcium carbonate equivalent



Troubleshooting

Symptom	Cause	Remedy
No flow or poor flow rate.	Partially closed stop or service valve in water supply pipework to the tap.	Open stop or service valve.
	Head of water is below the minimum distance required.	Refer to the Specification section for minimum pressures required.
	Possible airlock / blockage in supply pipework	Remove water supplies from the fitting and flush the system to remove any airlocks / debris.
	Cartridge / Valve not opening fully.	Service fitting. Refer to maintenance section on page 14-16.
Water dripping for a few seconds after the tap has been turned off.	This is caused by 'capillary action' and residual water in the spout being siphoned out. This should only last for a couple of seconds.	
Constant dripping / leaking when the tap is not in use.	Cartridge / Valve not fully shutting off.	Service fitting and replace cartridge / valve. Refer to maintenance section on page 14-16.
Fitting does not turn on.	Water supplies not turned on.	Check that the water supplies to the fitting are turned on.
	Closed stop or service valve.	Open stop or service valve.
Water does not come out of the showerhead when using the bath shower mixer.	Diverter mechanism not fully open.	Open the diverter mechanism fully by pulling the diverter knob up.
	Insufficient water pressure / header height.	Refer to the specification section for minimum pressures required.



Guarantee

Bristan Guarantee

Bristan offers solid guarantees to provide you with complete peace of mind.

Taps and Mixers

5 year parts and 1 year labour*. Gold, painted and special finishes 3 years parts only.

All subject to proof of purchase.

Mixer Shower Valves

5 year parts. 5 year labour* (subject to registration), or 1 year with proof of purchase.

Gold, painted and special finishes 3 years parts only.

Pumps and Power Showers

2 year parts. 1 year labour* (subject to registration).

Electric Showers/Instantaneous Water Heaters

2 year parts. 1 year labour* (subject to registration).

Accessories

5 year parts only. Includes bathrooms accessories, shower accessories (e.g. hoses, handsets and poles), wastes, WC levers and light pulls. Gold, painted and special finishes 3 years parts only.

Sanitaryware

5 year parts only. Subject to proof of purchase.

*Labour provided by an approved Bristan engineer. Guarantee only applies to products with a manufacturing fault. A deferred payment will be necessary in order to secure any visits by our engineers which will be charged if the problem is found **not** to be a manufacturing fault. If the fault is found to be down to a manufacturing error, the payment will be released and not charged.

This guarantee applies to products purchased within the United Kingdom or Republic of Ireland, but does not apply to products used commercially.

The guarantee is only available to original purchasers who have proof of purchase.

The installation must allow ready access to all products for the purpose of inspection, maintenance or replacement.

Any part found to be defective during the above guarantee period will be replaced without charge, providing that the product has been installed in accordance with the instructions, used as intended, and regularly serviced.

Servicing should be carried out at regular intervals of no more than 12 months and more frequently in hard water areas (heavy lime scale) areas.

In the unlikely event that any problems are encountered with the product's performance on installation, you must obtain guidance/authorisation from our Customer Service Department, and be able to supply proof and date of purchase, before any remedial action is taken.

The guarantee excludes general wear and tear and damage caused by accident, misuse or neglect, and does not cover the following:

- Components that are subject to general wear and tear such as filters, seals, 'O' rings and washers etc.
- Damage caused by faulty installation
- Damage caused by lime scale or any waterborne debris
- Damage caused by inappropriate cleaning products (see user instructions)
- Damage caused by the use of non-Bristan parts
- The product being used for a purpose other than intended by the manufacturer.

In the interests of continuous product improvement Bristan reserves the right to alter specification as necessary.

BRISTAN

This booklet covers product codes
SM ½ C, SM ¾ C, SM BAS C, SM BSM C, SM BF C

Helpline

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