8. Guarantee & Registration

8.1 Guarantee

All products are manufactured to the highest standards and 5-year guarantee covers any defect in manufacture. As gold and special effect finishes are softer than chromium plate, special care must be taken when cleaning, a 3-year guarantee covers these finishes.

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

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

- Those components subject to wear and tear such as 'O' rings and washers etc,
- Damage caused by faulty installation,
- Damage caused by any waterborne debris,
- Damage caused by improper cleaning products,
- Damage caused by the use of non-Bristan parts,
- The product being used for a purpose other than intended.

The company reserves the right, in the event of a claim not covered by the guarantee, to charge the claimant for parts and labour at current rates. This guarantee is given in addition to and does not affect your statutory rights.

In the interests of continuous product development we reserve the right to alter the specification as necessary.

8.2 Registration

To register your product with us please complete and return the enclosed registration card.

PRODUCT CODE: FN SHCVO C

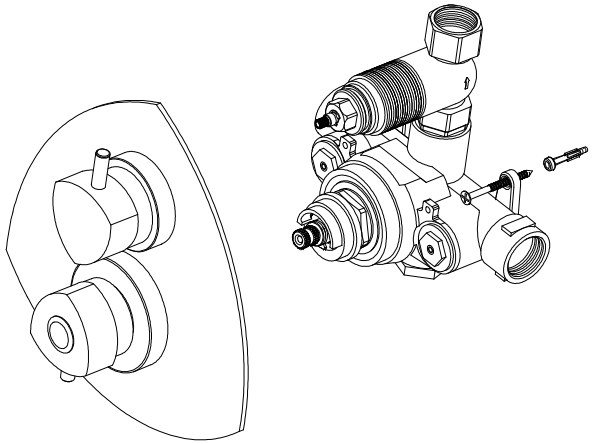
TELEPHONE HELP LINE! +44 (0) 870 4425553

Bristan Limited
Birch Coppice Business Park
Dordon
Tamworth
Staffordshire
B78 1SG
UK
Web site: www.bristan.com
Telephone: +44 (0) 870 4425556
Facsimile: +44 (0) 870 4425554
Email: enquire@bristan.com

BRISTAN

Fusion Thermostatic Dual Control Shower - Recessed Valve Only

(FN SHCVO C)



Fitting Instructions & Contents List

Please leave these instructions with the user

Contents

1. Introduction

Your Bristan dual control shower fitting is a thermostatic mixer incorporating a wax capsule thermostat to ensure constant showering temperatures.
This valve has been designed to comply with BS EN 1287:1999 & BS EN 1111:1999, manufactured to the highest quality standards and is a 'Water Regulations Advisory Scheme' approved product.
These instructions are for your guidance to a safe and successful installation and should be left with the user.

2. Specification

Inlet / Outlet Connections: G ¾ " (female).
Water Pressures: Min. 0.2 bar - Max. 8 bar (Max. Pressure Ratio 5:1)
Maximum Outlet Temp: Factory set to 38°C (can be re-set to suit site conditions).

Hot Supply Temperature

Minimum recommended: 60°C
Maximum Hot Supply: 80°C

Please Note: -

The inlet hot water temperature must be at least 10°C above the required blend temperature to ensure that safety shut off will work.

7. Cleaning & Maintenance

7.1. Cleaning

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

7.2. Maintenance (See Fig. 2)

7.2.1. We advise that the valves, check valves and filters (if fitted) be regularly serviced, particularly in hard water areas. ***The water supplies must be isolated remote from the shower valve before removal of check valves and filters (if fitted). To allow easier access to the flow control valve and temperature control valve water supplies can be isolated within the shower valve body. This is achieved by turning the grub screw clockwise to its maximum position within the retaining nut.*** Removing the flow control handle and pulling the concealing plate away from the wall will reveal the valve and water connections. Removing the retaining nut allows access to the check valves.

Should either valve need to be dismantled for maintenance then the procedure is:

Temperature Control Valve (See Fig.3):

7.2.2. Isolate water supply. Remove both handles, by removing handle caps and loosening the screws. Remove the concealing plate and unscrew the shroud (d) remove the nylon stop (e), taking note of its position, unscrew brass retaining ring and remove the temperature control valve. Clean with water to remove debris.

7.2.3. Before reassembling the valve, clean its housing with a wet cloth and grease the O-rings on the valve.

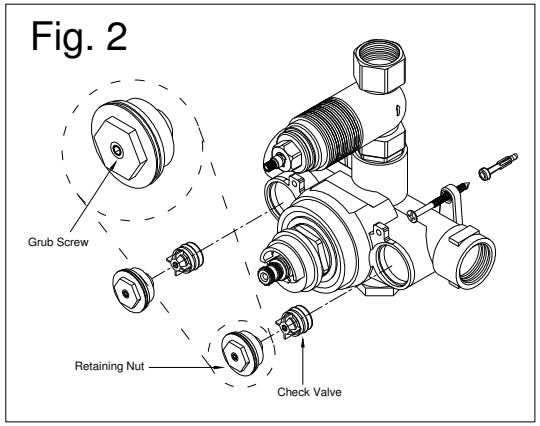
7.2.4. Reassemble the valve and replace the nylon stop (e) in its original position. Reinstall body into wall cavity (if removed). Turn on water supply, if necessary reset temperature. **(See section 5.2. for setting).**

Flow Control Valve (See Fig. 4):

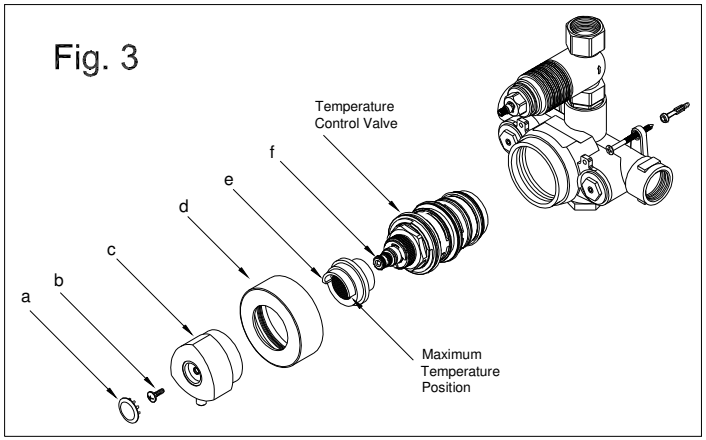
7.2.5. Isolate water supply. Remove the flow control handle (a), by removing concealing cap (c) and loosening the grub screw (b). Remove the concealing plate and unscrew the shroud (d).

7.2.6. Unscrew the flow control valve from the body and carefully clean seating and rubber seal. Replace components and turn on the water supply. Contact our helpline if problem persists.

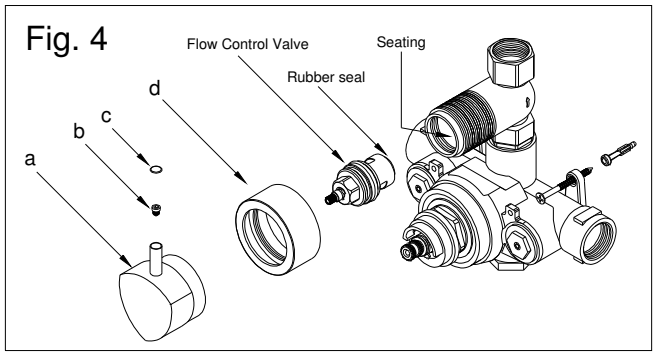
Check Valve & Filter



Temperature Control Valve



Flow Control Valve



3. Pack Contents Checklist

Valve Body	(x1)
Concealing Plate	(x1)
Fixing Kit	(x1)
Wall Outlet	(x1)

4. Installation

Prior to drilling into walls, check there are no hidden electrical wires, cables or water supply pipes with the aid of an electronic detector. If you use power tools do not forget:

- Wear eye protection
- Unplug equipment after use

4.1. Identify all components and check for completeness, particularly before arranging fitting.

4.2. This mixer should be installed in compliance with Water Regulations. For further details contact your Local Water Authority.

4.3. This mixing valve is suitable for use with the following systems:

- Gravity Fed Hot & Cold (Equal Pressure)
- Gravity Fed Hot & Mains Cold (Differential Pressure - Max. Ratio 5:1)
- Unvented Systems
- Gas Combination Boiler
- Pumped System

Please Note: -

On gravity systems the minimum distance from the underside of the cold water storage tank to the shower valve must be 2 metres.

It is also recommended that when installing a concealed valve, full access is provided for servicing purposes.

4.4. Mark out the wall using the concealing plate as a template (4), mark around the outside and measure inside this line by approximately 15mm all round. This inside line is the shape of the aperture, which should be maintained as the wall is finished, to allow access to the valve and elbows for maintenance. Use the polystyrene plastering shroud to protect the valve when completing the wall finish.

4.5. Shower Valve (See Fig. 1)

4.5.1. **(See Safety Note)** Determine correct orientation and position for the valve (1) and secure to supporting member or wall through the body lugs (2) with the screws and rawl plugs provided (3). Connect to the appropriate water supplies (elbows / adaptors not supplied). It is recommended that inline filters (not supplied) be fitted at this stage. **Hot on the left and cold on the right with the outlet at the top. Prior to connection, water should be flushed through the system to remove all debris.**

4.5.2. Screw the shrouds (5 & 12) onto the valve body (1) and fit concealing plate (4). Prior to fitting the flow control handle (9) screw the spline adaptor (14) on the flow control valve using the screw (13) supplied.

4.5.3. Ensure that the flow control valve is in the off position and fit the flow control handle (9) to the valve with the handle lever pointing upward, secure with grub screw (10) and conceal with cap (11). Fit the temperature control handle (6) to the temperature control valve, with the red button pointing downward, so that the stop pin inside the handle is at the maximum position in the nylon stop **(see Fig. 2)** and secure using the screw (7) and conceal with handle cap (8). The maximum temperature will remain the same (factory set to 38°C) providing the spindle has not moved prior to fitting the temperature control handle (6). **(To re-set temperature, see section 5.2.)**

4.5.4. If required, the wall outlet (15) can be mounted to the wall using the threaded adapter (16) and backnut (17) **(see Fig. 1a)**. Connected to the shower valve outlet this would allow the use of an adjustable riser kit.

5. Operation & Setting

5.1. Operation

There are 2 control handles on this valve. To control the flow, turn the handle (9) anti-clockwise to turn on and increase the flow, and clockwise to decrease and turn off. Turn the temperature control handle (6) anti-clockwise for hot and clockwise for cold. If in operation an increase in temperature above the factory set temperature is required, simply depress the red button on the temperature handle when it reaches the stop and continue to turn the handle anti-clockwise until the desired temperature is found.

5.2. Setting (see Fig. 3)

5.2.1. The maximum temperature can be adjusted to suit site conditions or user preference. To adjust this, follow this procedure.

5.2.2. Turn on the water supplies and fully open the flow control letting the water run long enough to ensure that the hot water supply is at its maximum temperature.

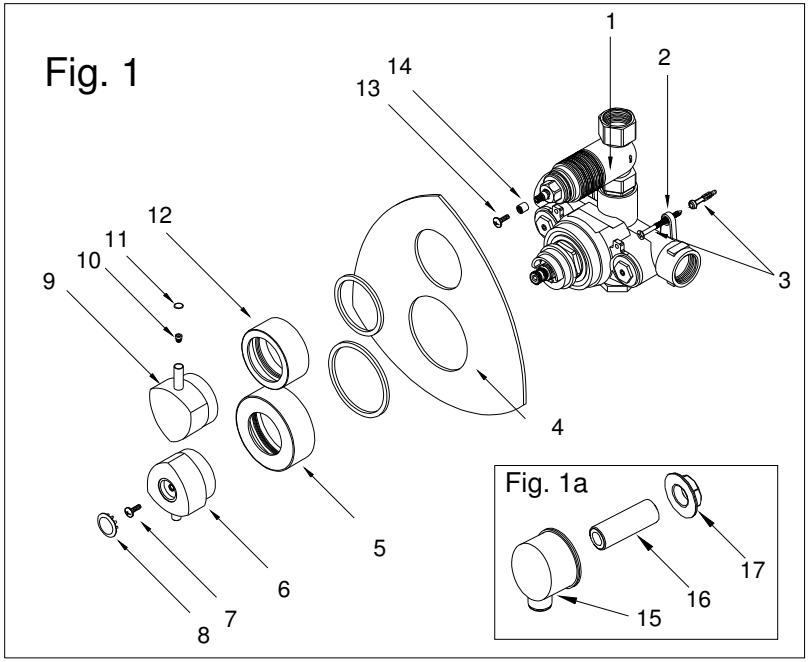
5.2.3. Turn the temperature control handle (c) anti-clockwise to its maximum position and check the outlet temperature. It has been factory set at 38°C at balanced supply pressures 0.5 Bar.

5.2.4. **Whilst the water is flowing** remove the temperature control handle (c), by removing the cap (a), loosening the screw (b) and pulling the handle off the spindle (f).

5.2.5. Turn the spindle (f) until the required maximum temperature is achieved, anti-clockwise to increase the temperature and clockwise to reduce it.

5.2.6. Replace the handle, so that the pin inside the handle (c) is at the maximum position in the nylon stop (e), refit screw (b) and cap (a).

Installation Diagram



6. General Fault Diagnosis

If your valve fails to function correctly, the following should be checked:

6.1. Check that the hot and cold connections are the correct way around. Hot on the left, cold on the right.

6.2. Ensure that the hot water temperature is adequate. The recommended minimum temperature is 60°C. the hot temperature should be at least 10°C higher than the blend temperature to ensure that the safety shut off will work.