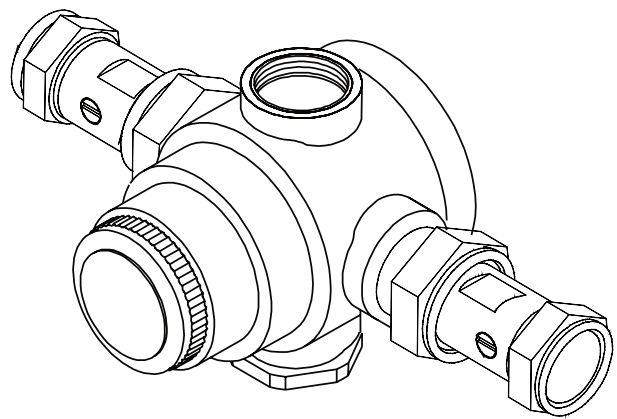

BRISTAN

Installation Instructions and User Guide

Thermostatic Mixing Valve



Models Covered:

TS6000ECP

**Please keep this booklet for future
reference.**

**Installer, when you have read these
instructions please ensure you leave
them with the user.**

Contents

Welcome to your new Bristan Thermostatic Mixing Valve.

All products manufactured and supplied by Bristan are safe provided they are installed, used correctly and receive regular maintenance in accordance with these instructions. Isolation valves **must** be fitted to the inlet water supplies to ensure ease of future maintenance.

This valve allows safe flushing of the tap or shower to avoid installation debris to clog up the mechanical areas of the valve. This product **must** not be modified in any way as this will invalidate the guarantee.

Full access must be made available for future maintenance / servicing purposes. This product needs to be installed in accordance with, and meet the requirements of the Water Supply (Water Fittings) Regulations 1999 and Scottish Byelaws 2004.

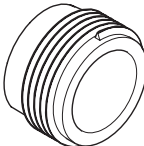
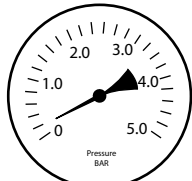
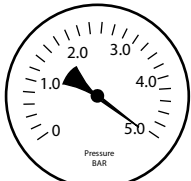
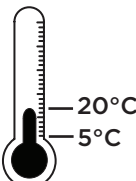
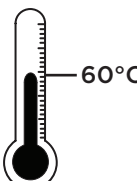

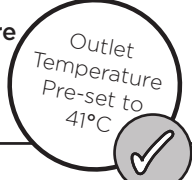
If in doubt, contact a registered plumber or your Local Water Authority or the Secretary of the Institute of Plumbing, address as follows;-

The Institute of Plumbing,
64 Station Lane,
Hornchurch,
Essex,
RM12 6NB, Tel: 01708 472791

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Specifications

Specifications		Inlet Water Temperature		 <p>Inlet Connection 28 mm Compression</p> <p>Outlet Connection 1 1/4" BSP Female</p>
<p>Working Pressures</p> <p>Min: 0.01 MPa (0.1 bar) Max: 0.5 MPa (5.0 bar)</p> <div>   </div> <p>Maximum Static Pressure: 1.0 MPa (10.0 bar)</p>		<p>Cold Water Supply</p>  <p>Min: 5°C Max: 20°C</p>	<p>Hot Water Supply</p>  <p>60°C</p>	
		<p> IMPORTANT The inlet hot water must be at least 10°C above the required blend temperature.</p>		<p>Maximum Pressure Differential: 5:1</p> <div>  </div>

Installation

IMPORTANT: Please ensure both supply pipes are flushed before connecting the mixing valve to prevent plumbing/pipe debris from entering the mixing valve.

1. Choose whether to have a top or bottom outlet by using the blanking cap and o-ring.
2. Plumb the pipes to the desired location for the mixing valve.
3. Remove the backplate and mark the position of the fixing holes.

4. Drill and use the screws and plugs provided to secure the backplate to the wall.

5. Connect the valve to the pipework, using filters to prevent debris entering the valve (not supplied). We recommend using a high tightening torque (90-95Nm) on all 28mm compression fittings to secure the valve.

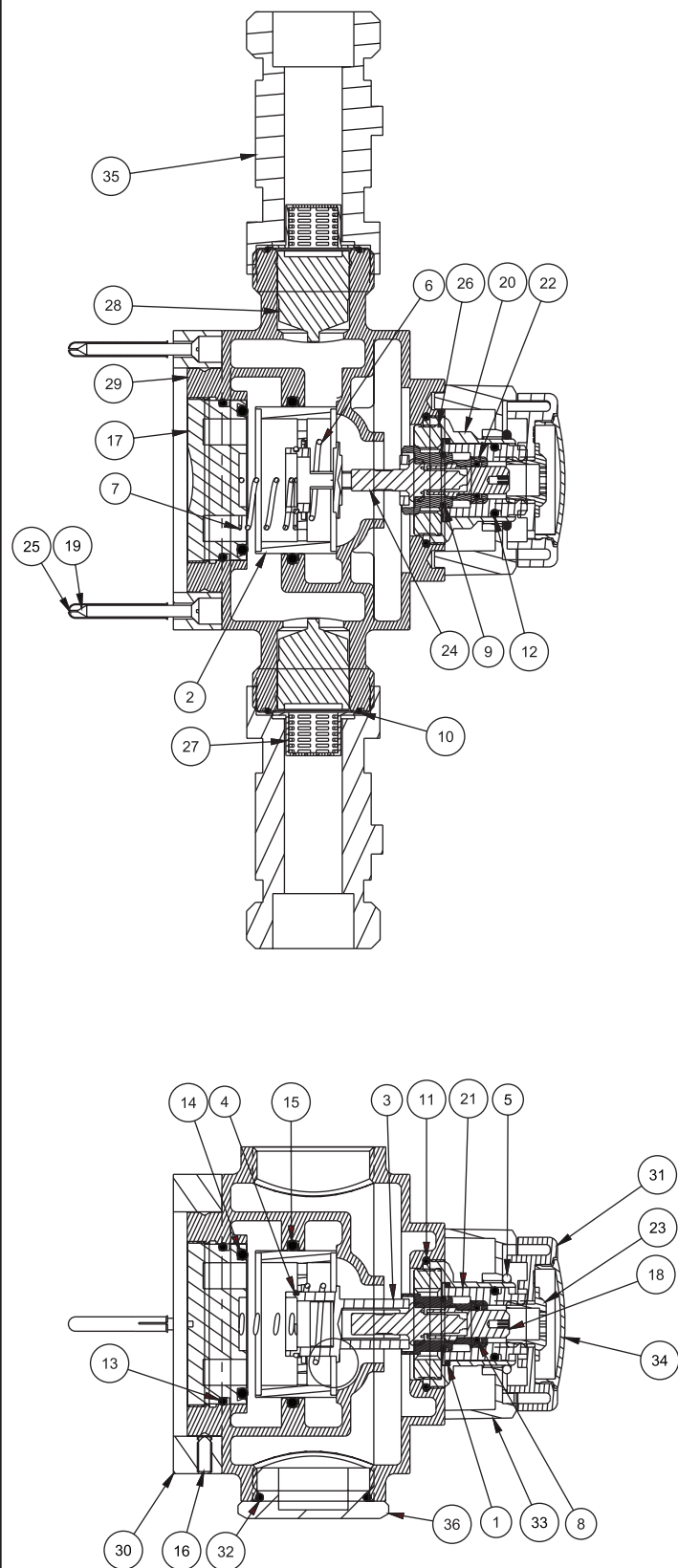
Remember: Ensure the valve is fitted with the hot inlet on the left, cold on the right when viewed from the front.

6. Locate the valve body on to the backplate and secure with the grub screw.

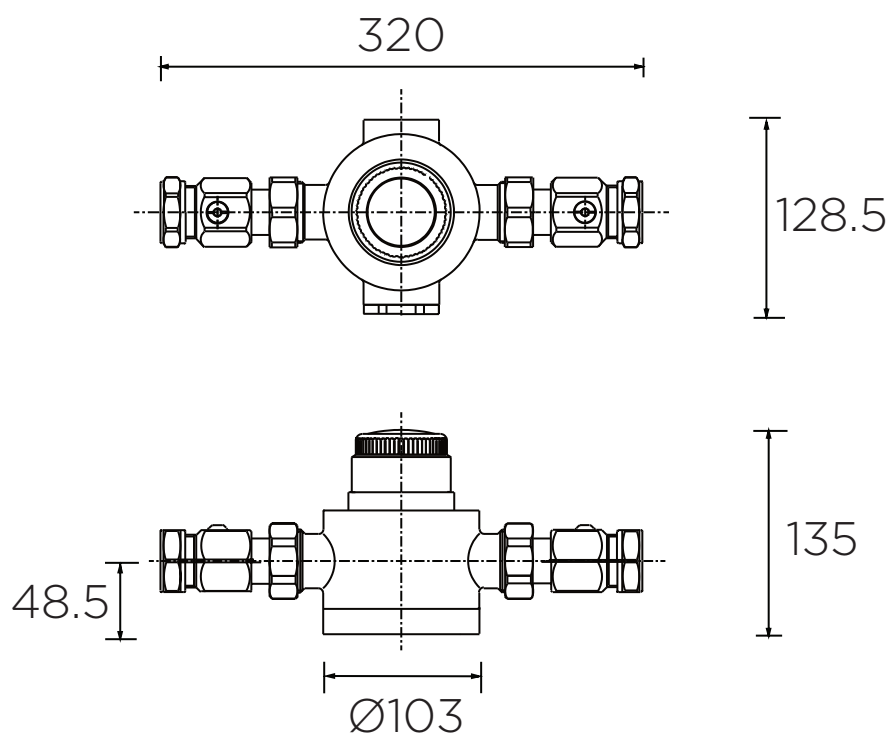
Component List

Component List:

Item	Description	Qty
1	Washer	1
2	Piston	1
3	Thermostat Housing	1
4	Wire Ring	1
5	Spring Ring	1
6	Large Spring	1
7	Return Spring	1
8	O-Ring	1
9	O-Ring	1
10	O-Ring	1
11	O-Ring	1
12	O-Ring	1
13	O-Ring	1
14	O-Ring	1
15	O-Ring	1
16	Grub Screw	1
17	Bottom Cap	1
18	Adjusting Screw	1
19	Screw	2
20	Head	1
21	Spindle Nut	1
22	Adjustment Housing	1
23	Retaining Screw	1
24	Thermostat Element	1
25	Wall Plug	2
26	Hexagon Insert	1
27	Filter Washer (Part of Ball Valve)	2
28	Check Valve	2
29	Valve Body	1
30	Backplate	1
31	Control Knob	1
32	O-Ring	1
33	Blue Sleeve	1
34	Blue Indice	1
35	Ball Valve	2
36	Blanking Plug	1



Dimensions



General Cleaning

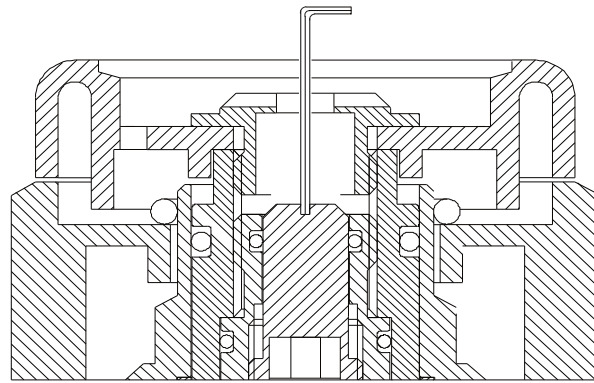
Bristan products are made from premium materials, with hand polishing and electroplated finishes.

Your shower kit should be regularly cleaned with warm water, a mild pH-neutral liquid soap, and polished with a soft cloth. Any residues from soap, toothpaste, shampoos and shower gels can cause blemishes if not rinsed off straight after use.

Household bleaches and cleaners contain harsh chemicals and may damage the surface finish. Avoid using abrasive cloths, scouring pads, scrub sponges, steel wool or anything similar.

Maintenance

FIG 1



Temperature Adjustment

This valve is pre-set to a outlet temperature of 41°C.

Can be adjusted to have a maximum temperature between 38°C - 46°C

To adjust the temperature, follow the steps below:

1. Turn on the valve and set to the maximum temperature.
2. See Fig 1. Prise off the blue cover cap from the front of the control knob. Using the supplied 2.5 Allen key, insert through the retaining screw and locate into the groove of the adjusting screw.
3. Turn the adjusting screw clockwise for a cooler temperature, anti-clockwise for a hotter temperature.
4. Wait for a few minutes after adjusting for the temperature to stabilise. Use a thermometer to measure the outlet temperature. Repeat steps 2 and 3 until you reach the desired result.
5. Replace the knob cap.

Tamper Proofing

The control knob can be fixed into 2 set positions, locked and unlocked. This is to prevent users from adjusting the temperature to higher settings.

Unlocking the valve allows the user to select temperatures colder than the maximum set temperature but not higher.

The valve is factory set to the locked position below:

- Position the control knob so that the stops on the inside of the knob are positioned on each side of the lug in the sleeve.
- Screw in the retaining screw and follow the Temperature Adjustment steps to calibrate the temperature.
- Replace the knob cap.

To unlock the valve, set to the position below:

- Position the control knob so that the stops on the inside of the knob are to the left of the lug in the sleeve.
- Screw in the retaining screw and follow the Temperature Adjustment steps to calibrate the temperature.
- Replace the knob cap.

Maintenance

Servicing the Valve

This valve should at least be serviced with every three months to maintain optimum performance. It may need more frequent servicing if sited in a hard water area to ensure optimum performance.

To service the valve, follow the steps below:

1. Turn both isolating lugs to shut-off the water supplies. Remove the valve from the wall.
2. Remove the filters from the isolating lugs and rinse of any debris.
3. Remove the knob insert. Undo and remove the retaining screw. Remove the control knob, ring and sleeve to expose the head assembly.
4. Remove the head assembly from the body using a 29mm A/F spanner. Remove the bottom cap and piston assembly together with the thermostat and return spring.

Note: The piston can be dis-assembled further but this is not necessary for cleaning/servicing.

5. Remove O-rings and check for damage, replace parts if necessary. Soak all metal components in a suitable solution until fully de-scaled. Grease O-rings using a WRAS Approved grease.

Re-Assembly

1. Replace piston ensuring ease of movement when in place. This should move with light finger pressure.
2. Replace spring and bottom cap. Screw in gently, DO NOT use excessive force.
3. Unscrew the bottom cap by 3/4 turn to give correct gap.
4. Re-assemble the head assembly ensuring the adjusting screw is screwed back fully.
5. Fit the thermostat into the head assembly. Fit the head assembly into the valve body.
6. Re-fit the sleeve and control knob, secure with the retaining screw.
7. Fit the valve back onto the wall, ensuring the filters are in place.
8. Complete the commissioning and temperature adjustment steps to re-calibrate the valve.,

Issue: D7
Part Number: 800308

BRISTAN

Bristan Group Ltd.

UK: Bristan Group, B78 1SG.

EU: Masco Europe S.à.r.l.

14 Rue Strachen

6933 Mensdorf

Luxembourg

Customer Service: +44330 026 6273

Web: www.bristan.com

Email: enquire@bristan.com

A Masco Company

At Bristan, we want to make things as easy as possible for our customers. That's why we offer solid guarantees on all our products, effective from the date of purchase, to give you peace of mind.

To start your free guarantee simply scan the QR code and register your product.
Alternatively visit **www.bristan.com/register**.

For any other queries, please call our Customer Service on **0330 026 6273** where our expert team of advisors will be able to offer you any help and advice.

For full guarantee terms and conditions visit **www.bristan.com/service-centre/guarantees**.

