Care of your product

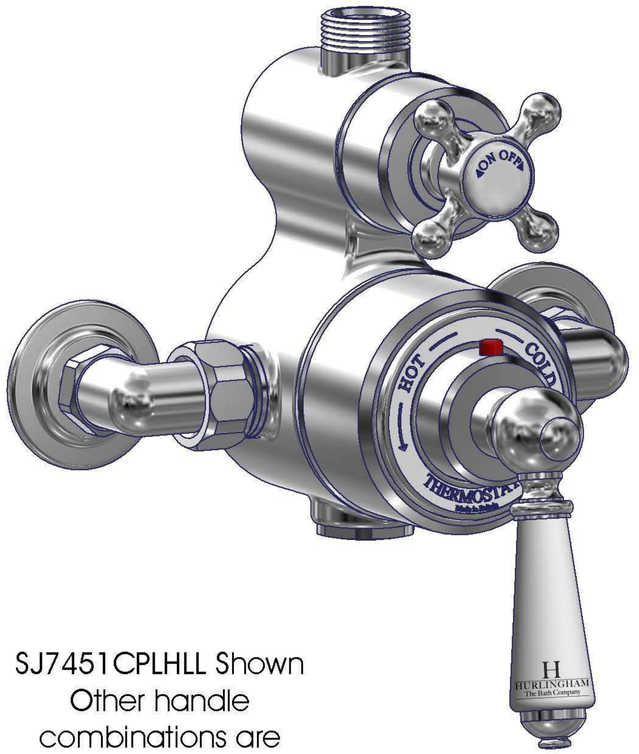
After Installation	We strongly recommend that the product be securely covered to prevent contamination or damage by any form of building materials such as paint, plaster, tile adhesive, grout or sealants until all building and finishing work is completed.
Polished & plated brass parts	After use all finishes should be maintained by wiping with a soft, damp, clean cloth and then polished using a soft dry duster. **NO** abrasive powder, detergents or polishes should be used, cleansers containing alcohol, acid or corrosive chemicals should **NOT** be used. Some household bleaches and denture cleaners can damage plated or coloured finishes and if spilt on to a fitting should be washed off immediately with cold water.
Polished wood parts	To clean, wipe regularly with a warm damp cloth slightly impregnated with a light disinfectant. Wipe off any surface water. Do **not** clean with an abrasive cloth or cleaning agent. Do **not** clean with undiluted bleach and if you leave bleach in the closet pan overnight, ensure that the seat and lid are left upright as strong bleach will affect the lacquer. Polish whenever you can with beeswax or similar wax polish. This will not only enhance the depth of colour but will protect the lacquer against moisture.
Ceramic parts	Should be cleaned regularly with warm soapy water. They can then be rinsed with clean water and, if required , dried and polished with a soft cloth. Some proprietary cleaners can damage the glazed surface and we recommend that the instructions on the bottle of your selected cleaner are followed. Leaving strong cleaners or bleach in ceramic parts overnight can damage the glazed surface.

If these instructions are followed we believe this product will give many years of satisfactory use.
We have a policy of continuous improvement and reserve the right to change specifications without notice.
Please retain this document for future reference.
If you have any comment regarding these products and instructions we invite you to write to:

Hurlingham The Bath Company
Hurlingham Business Park
Fulbeck Heath
Grantham
Lincolnshire
NG32 3HL
Tel: 01400 263310

HURLINGHAM
The Bath Company

Installation and user instructions

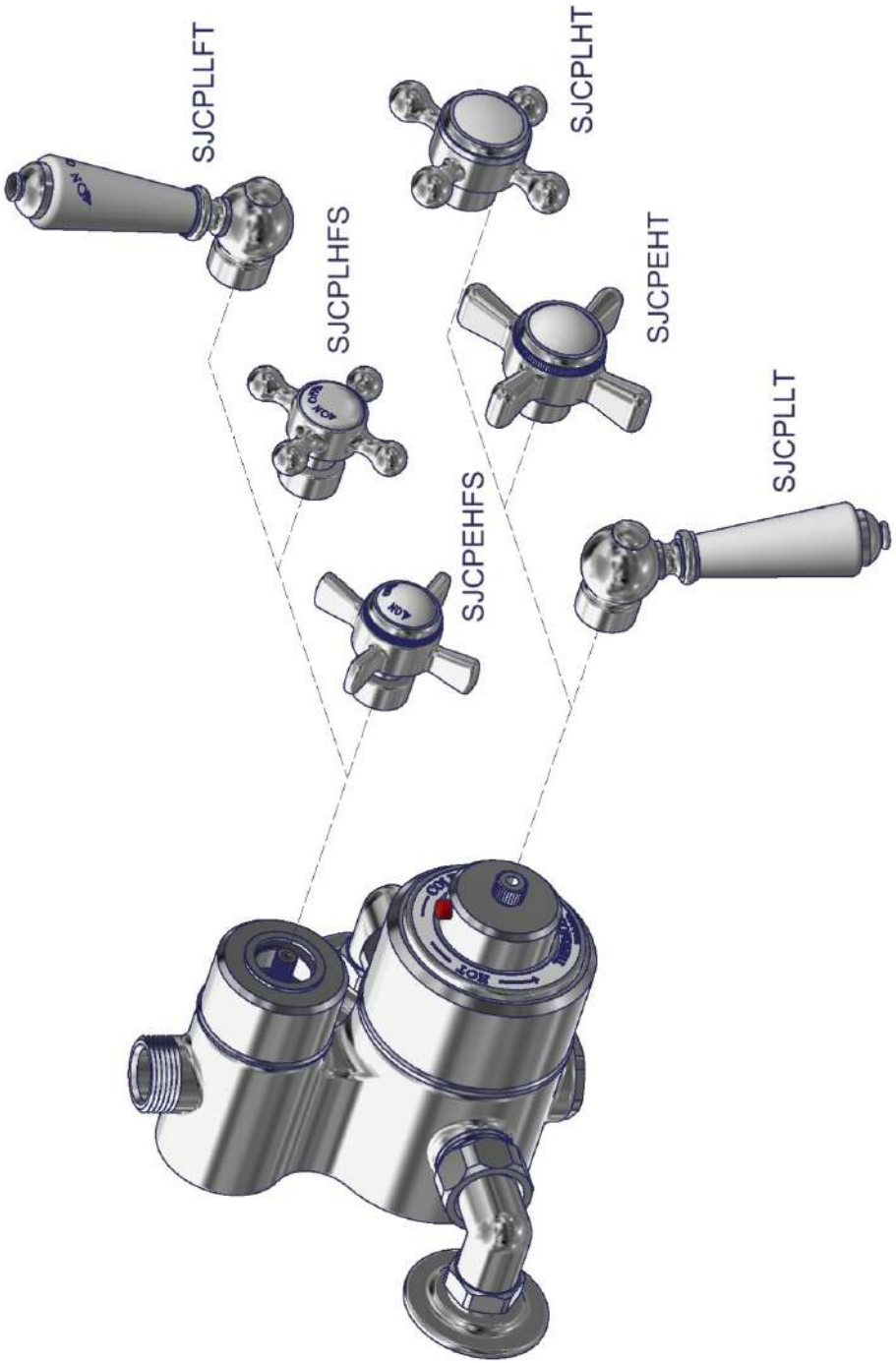


SJ7451CPLHLL Shown
Other handle combinations are available

EXPOSED THERMOSTATIC SHOWER VALVE

Ref:
SWT001N

Date
October
2019



(Continued from page 10)

uppermost and previously marked spline in line. Care should be taken with this operation to ensure that there is no damage to the 'O' rings.

b. Tighten the cartridge fixing nut (3). This must not be over tightened. A force of not more than 15nM should be applied.

c. Reverse the removal operations f to b to fully reassemble the valve.

When reassembled check for water-tightness and operation as detailed previously.

(Continued from page 9)

To remove ceramic disc valve.

a. Isolate hot and cold supplies
c. Remove handle as detailed on page 3.
d. Unscrew cover (9) to reveal the headwork mechanism (8)
e. Remove complete headwork with on/off handle after loosening with spanner or socket, inspect for damage or debris. Ensure that the spindle rotates easily and opens and closes the ceramic disc apertures. Debris can be flushed away but if damage has occurred a new complete mechanism (8) will be required.

To reassemble; reverse the above procedures ensuring that the mechanism is firmly tightened. The full rotation of this handle is 90°.

2 If the valve does not control the temperature correctly it may be necessary to service/clean the temperature control cartridge, and there are screen filters on the cartridge which may, after a period of time, require cleaning. Care should be taken with the following procedure to ensure that the cartridge is not damaged.

To remove the thermostatic cartridge.

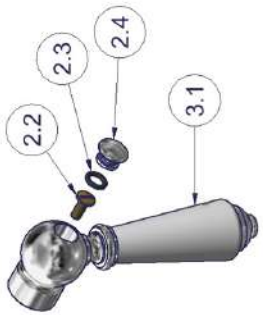
a. Isolate hot and cold supplies and put temperature handle at 3 o'clock position.
b. Remove handle as detailed on page 3.
c. Pull off temp control (6).
d. Undo grubscrew (5.2) and pull off shield (5.1).
e. Unscrew cartridge fixing nut (3). Being careful not to rotate brass spline of cartridge (2).
f. At this point it is advisable to mark the cartridge(2) brass spline with marker pen in line with the top of the cartridge.
g. Carefully pull out cartridge (2).
h. Inspect the inside of the body and the cartridge for signs of debris. Debris can be flushed away and the cartridge filters gently cleaned with a soft brush. The cartridge has no user serviceable components and is not to be dismantled, but can be soaked in a suitable descaler.

To reassemble

a. Lightly lubricate the "O" rings with silicon grease. Carefully push the cartridge back into the body with the groove

(Continued on page 11)

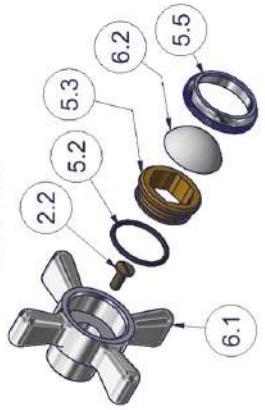
SJCPLLT



SJCPLLFT

Pull out cover button (2.4), use screwdriver to remove screw (2.2) and then pull off handle (2.1, 3.1).

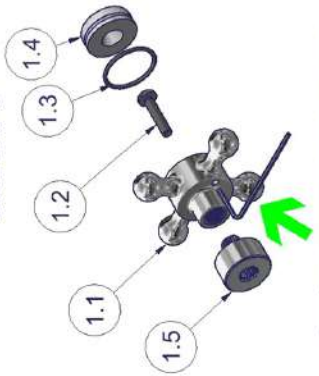
SJCPEHT



SJCPLHT

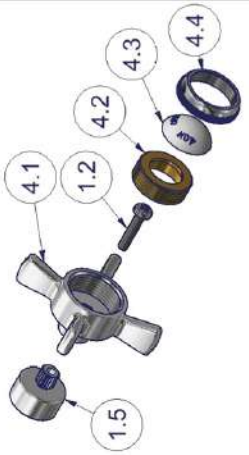
Pull off index assembly (5.2, 5.3, 5.4, 5.5, 6.2), use screwdriver to remove screw (2.2) and then pull off handle (5.1, 6.1).

SJCPLHFS



Carefully insert tool such as small hexagon key into hole in base of handle (1.1) to push out index (1.4) , use screwdriver to remove screw (1.2) and then pull off handle (1.1).

SJCPEHFS



Unscrew index assembly (4.2, 4.3 & 4.4), use screwdriver to remove screw (1.2) and then pull off handle (4.1).

READ BEFORE INSTALLATION

Important	Please leave this guide with the end user after installation. Read instructions fully before beginning installation.
Product Details	Serial Number: Date Installed: Installer:

General Notes
The thermostatic shower valve should have isolating valves fitted for servicing purposes. The hot supply should be to the left, and the cold supply to the right when viewed from the front. This is indicated by coloured dots adjacent to the inlet tails, red for hot - blue for cold. The information plate on the back of the thermostatic shower valve also indicates this and the serial number. Please record this serial number on the useful information page of these instructions.

Water Supplies.
The thermostatic shower valve is suitable for connecting to gravity feed, high pressure, low pressure, pumped systems and unequal pressure. For satisfactory performance of the thermostatic shower valve, we only recommend its use with St James Shower Kits. The cold water pressure should not be greater than 10 times the hot water pressure. The following alternative water supply requirements should be met:-

1 *Gravity Feed (Balanced Supplies)*

(Continued on page 5)

(Continued from page 8)
over-ride button has to be depressed to obtain a higher temperature up to approximately 45°C. This maximum temperature may be adjusted to suit user requirements as detailed below (amount increased over maximum will also apply to the "38°C position")
move the handle anticlockwise for hotter, and clockwise for colder.

Maximum Temperature Adjustment

a. Turn handle to until red button is at the 3 o'clock position.
b. Remove handle as detailed on page 3.
c. Pull off temp control (6).
d. To increase maximum temperature replace temp control (6) 2 spline grooves (2.5° C) towards cold (i.e. clockwise).
g. To decrease maximum temperature replace temp control (6) 2 spline grooves (2.5° Celsius) towards hot (i.e. anticlockwise).
h. Replace handle and check required maximum temperature.

Troubleshooting
Every thermostatic shower valve is fully tested before leaving the factory and the following causes should be checked and eliminated before dismantling / servicing the thermostatic shower valve.

- Installation instructions are fully complied with.
- Water supplies instructions are fully complied with.
- Check valves (13.4) in the elbows are clear of debris.

If these checks show no fault then follow the instructions under maintenance.

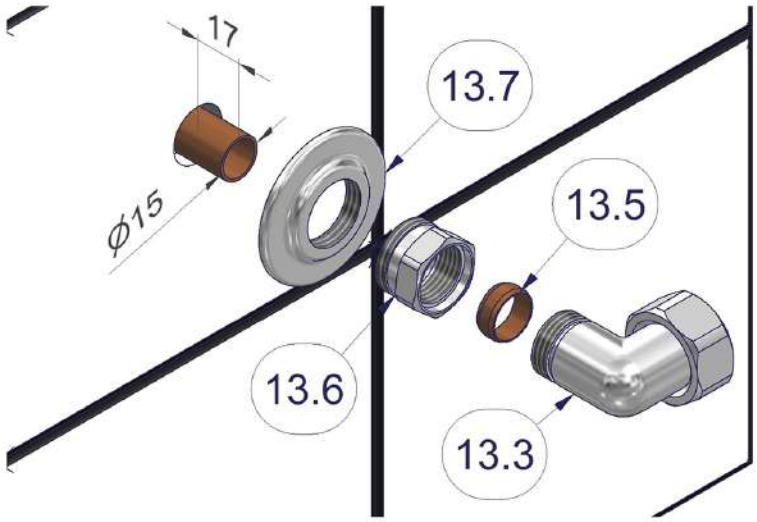
Maintenance
If the valve has been operating correctly for a time, but no longer performs acceptably, it may require servicing.

1 If the ON-OFF control does not shut off positively the ceramic disc valve should be inspected for signs of debris or damage.

(Continued on page 10)

(Continued from page 5)

a. Drill and plug the wall to suit, using plugs and screws (15.2, 15.3).
b. Fit grub screw (15.4) into body of the thermostatic shower valve.
c. The thermostatic shower valve should be positioned onto backplate (15.1) and held in position by the grub screw (15.4). Assemble compression nuts (13.6) and cover plate (13.7) together and slide on to the feed pipes with the copper olive (13.5). Connect elbows (13.3) to the body of the thermostatic shower valve and the feed pipes.
d. The hot feed pipe is on the left and the cold feed pipe is on the right when looking at the front of the thermostatic shower valve. Tighten the compression nuts (13.6) to obtain a water tight seal. The cover plates can now be "spun back" to the finished tile surface using a sealant if necessary between the cover plates and the finished tile surface. Assembly detail is shown below.
e. Fit shower connection to the outlet thread on the top of the shower body.
f. Test operation of the valve and ensure water-tightness.



Elbow assembly detail.

Operation
Turn the ON/OFF handle anticlockwise to obtain a flow. The handle can be stopped at any point to set the flow required.

Temperature is controlled by the lower handle up 38°C where the red

(Continued on page 9)

(Continued from page 4)

The cold water is fed directly from the cold water storage tank, which also supplies the hot water cylinder. The distance between the bottom of the cold water tank and the shower head must be a minimum of 1 metre (0.1 bar). For good performance particularly with shower roses of 4" diameter and larger we suggest the shower head be at least 2 metres below the bottom of the cold water tank. Pipe runs for these supply conditions should be short and in 22mm pipe.

2 *Unequal Pressures (Gravity Hot & Mains Cold)*
Cold mains to be a maximum of 5 bar when used in conjunction with a minimum of 1 metre (0.1 bar) head on the hot side. The orifice plate (14) supplied should be installed in the cold supply under these conditions.

3 *Unvented Systems - Vented Thermal Store Units, Instantaneous Gas Heaters and Combination Boilers*
These systems should be capable of delivering hot water at 65°C at a rate of 6 Litres per minute at least.

4 *Pumped Showers*
The pump manufacturer's installation instructions should be carefully followed. A pumped system should never be used with mains pressure supplies.

5 *Other Systems*
Our technical department should be contacted if other systems are being considered.

Water Bylaws
This thermostatic shower valve should be installed in compliance with the water bylaws. For details refer to the latest copy of the Water Bylaws Guide or your local Water Authority. The inlet elbows of the thermostatic shower valve include single check valves.

Installation
Before connecting the thermostatic shower valve, water should be flushed through the pipework for 15 minutes to remove ALL debris and solder flux. The pipework centres are 150mm, and a pipe protrusion, from the finished tile surface, of 17mm should be showing to connect the elbows (13.3). Using the enclosed TEMPLATE mark out the thermostatic shower valve back plate (15.1) fixing holes.

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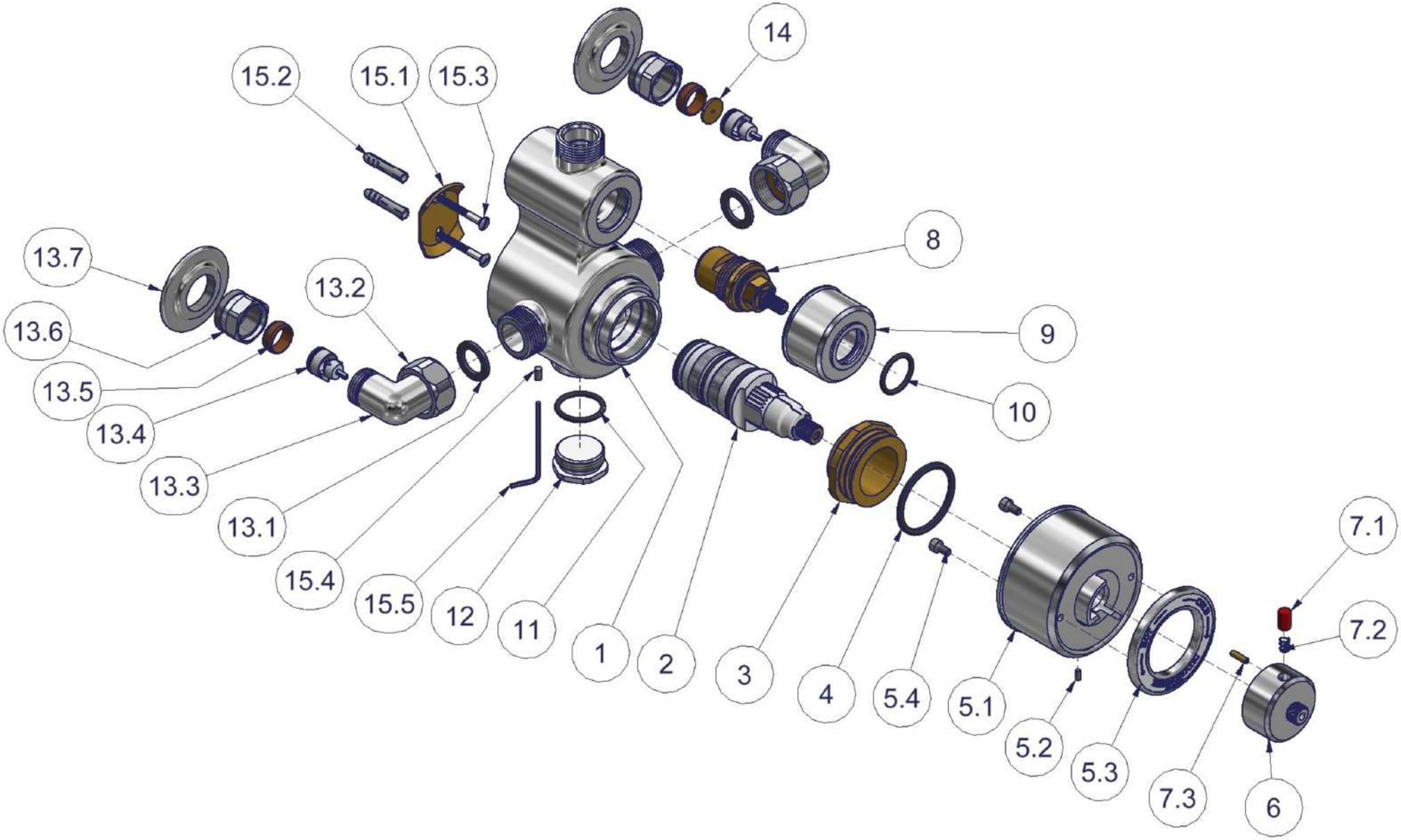
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