



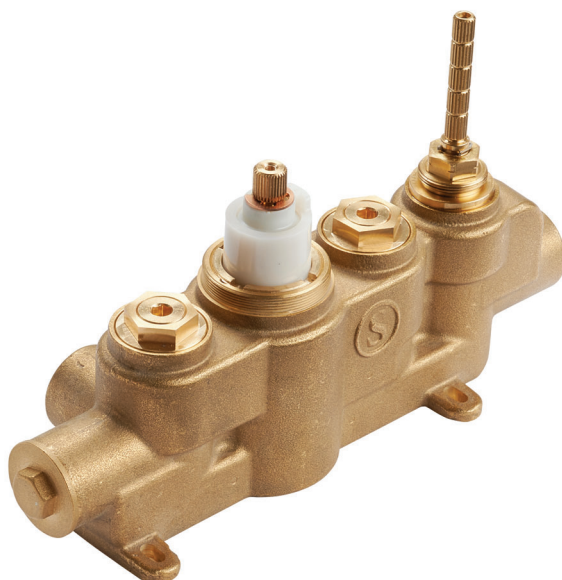
SWADLING

BRASSWARE

INSTALLATION INSTRUCTIONS

Single Controlled Thermostatic Shower Mixer

Part No: 5SINGLECASTING



IMPORTANT INSTALLATION INFORMATION

- Before Installation, please check all parts against the parts list on the back page of this booklet.
- Make sure that the parts are undamaged and that their finish is as expected.
- Should you find a faulty or damaged part, please be in touch with our Customer Services Team immediately using the contact details below.
- Any claim for faulty or damaged parts will require the affected part to be returned to Swadling Brassware for inspection and testing.
- No claim for damaged parts or issues with a product finish will be accepted after the product has been installed.

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IMPORTANT INFORMATION

Recommended outlet temperatures

44°C for bath fill see notes below

41°C for showers

41°C for washbasins

38°C for bidets

Mixed water temperatures must never exceed 46°C. Due to tolerances, the maximum mixed water temperature can be as much as 2°C above the final maximum set outlet temperatures in everyday use. A safe 38°C (+/-1°C) pre-set temperature is achieved when the black line on the splined spindle is aligned with the round indicator on the white plastic thermostatic hot stop (see setting the temperature diagrams).

Note:

46°C is the maximum mixed water for a bath filling valve. The maximum temperature takes account of the allowable temperature tolerances inherent in thermostatic mixing valves and temperature losses in metal baths. It is not a safe bathing temperature for adults or children and for SAFETY REASONS the maximum bathing temperature should not exceed 41°C. Always check temperature of water before bathing! The British Burns Association recommends 37 to 37.5°C as a comfortable bathing temperature for children. In premises covered by Care Standards Act 2000, the maximum mixed water outlet temperature is 43°C.

The thermostatic mixing valve must be installed in such a position that maintenance of the TMV and its valves, as well as the commissioning and testing of the TMV, can be undertaken once second-fix trim-set is installed. See individual trim-set instructions for final temperature setting.

The valve is suitable for all water systems including Gravity fed, Pumped Systems, Combination Boilers, Condensing Boilers, Mains Pressure fed Systems. However if used in low pressure gravity fed installations, maximize flow rates using 22mm pipe work for the HOT and COLD supplies into the valve and to the final shower outlet reducing to fittings where necessary.

Best practice is to always fit isolation valves as close as is practicable to both the HOT and COLD inlet supplies.

*Optimum condition of use	High Pressure	Low Pressure
Flow pressure Hot and Cold	1 to 5.0 Bar	0.5 to 1 Bar
Hot Supply Temperature	55 to 65 °C	55 to 65 °C
Cold Supply Temperature	Equal to or less than 25 °C	Equal to or less than 25 °C

*Optimum performance is achieved when hot and cold inlet pressures are balanced to within 10% of each other. For Dynamic flow pressures above 5 bar fit pressure reducing valves.

FLOW RATE INFORMATION

0.5 Bar	10.3 Lpm
1 Bar	14.6 Lpm
3 Bar	25.7 Lpm
4 Bar	29.9 Lpm
5 Bar	33.4 Lpm

PLUMBING INFORMATION

Flow Rates given are based on valve open outlets with no built-in resistance downstream

Inlets and Outlets are 3/4 inch BSP (Parallel) - IMPORTANT* never use Tapered threaded fittings!

Quarter-Turn ceramic headwork cartridges fitted

Thermostatic mixer technology

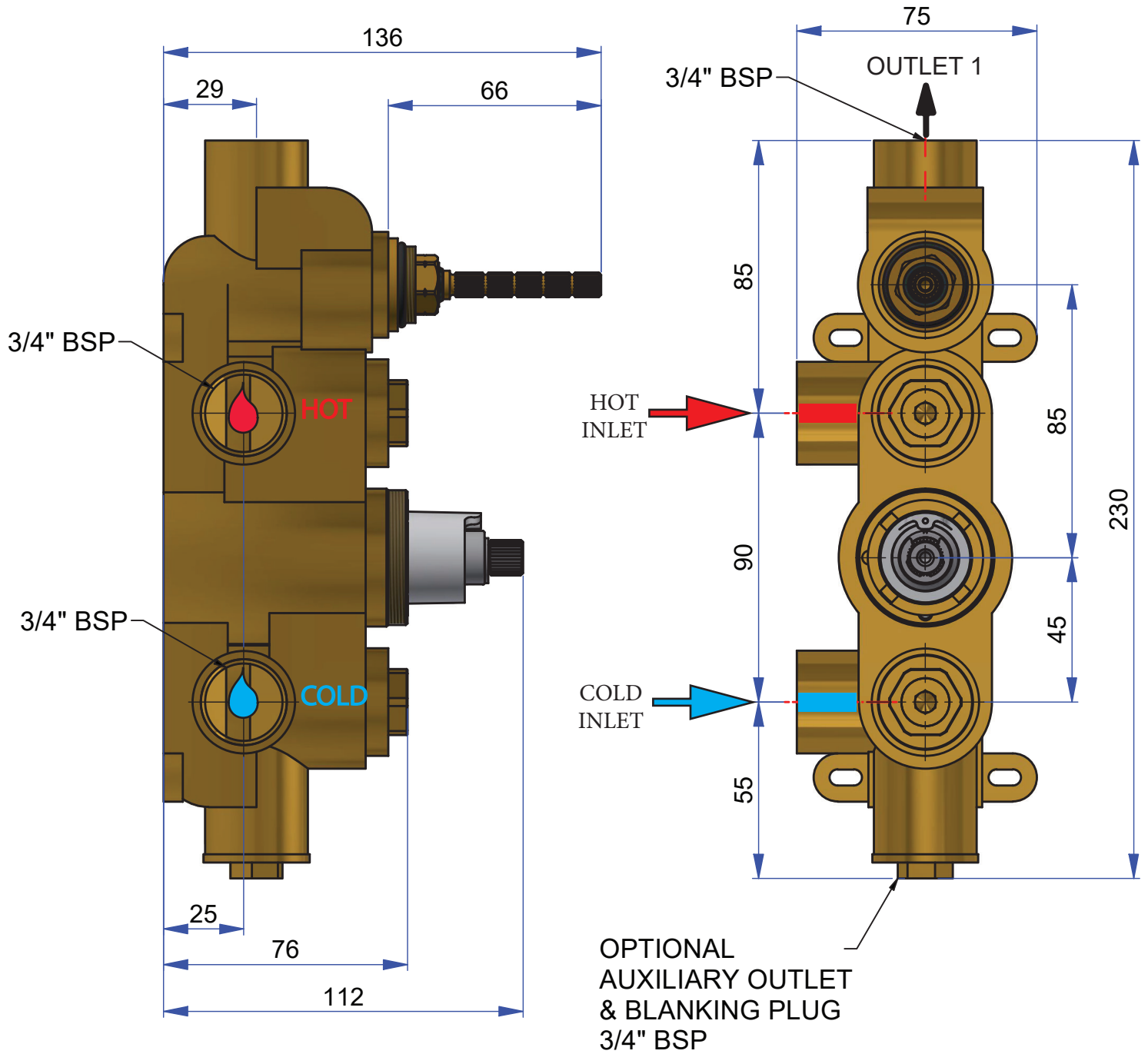
Hot & Cold NRV's (Check Valves) fitted

Hot & Cold water isolation function incorporated for TMV and/or ceramic headwork servicing

GENERAL DIMENSIONS & CONFIGURATION

MAX Pressure = 5.0 BAR

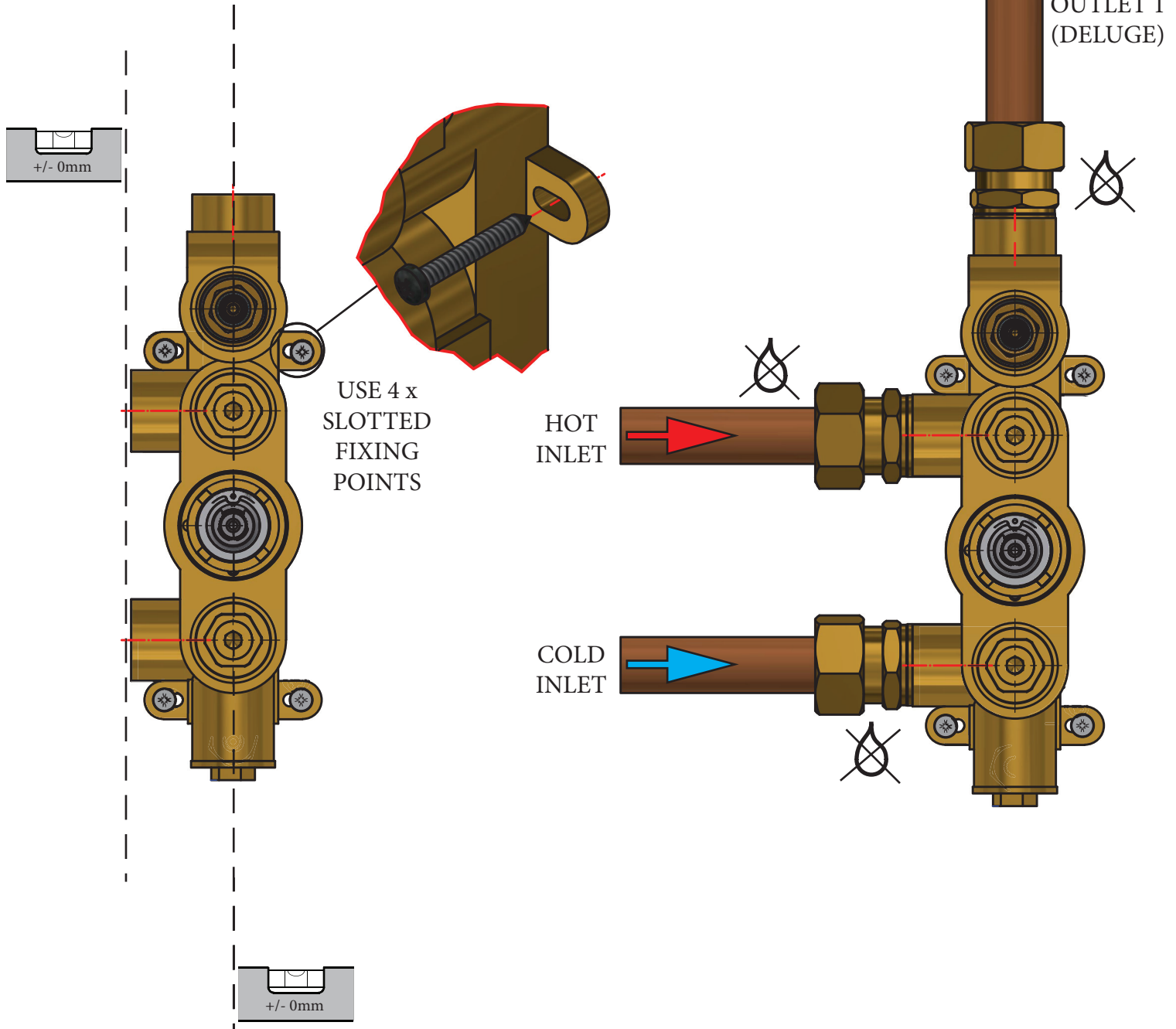
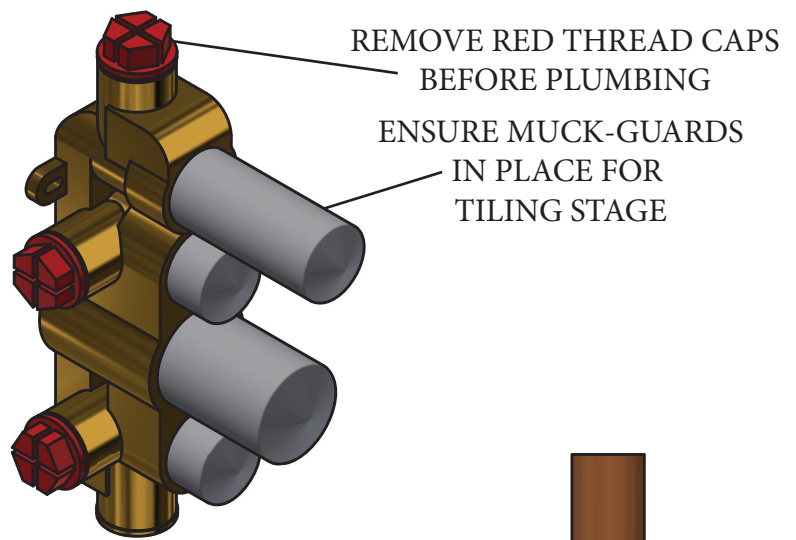
Fit Pressure reducing Valves above 5.0 BAR



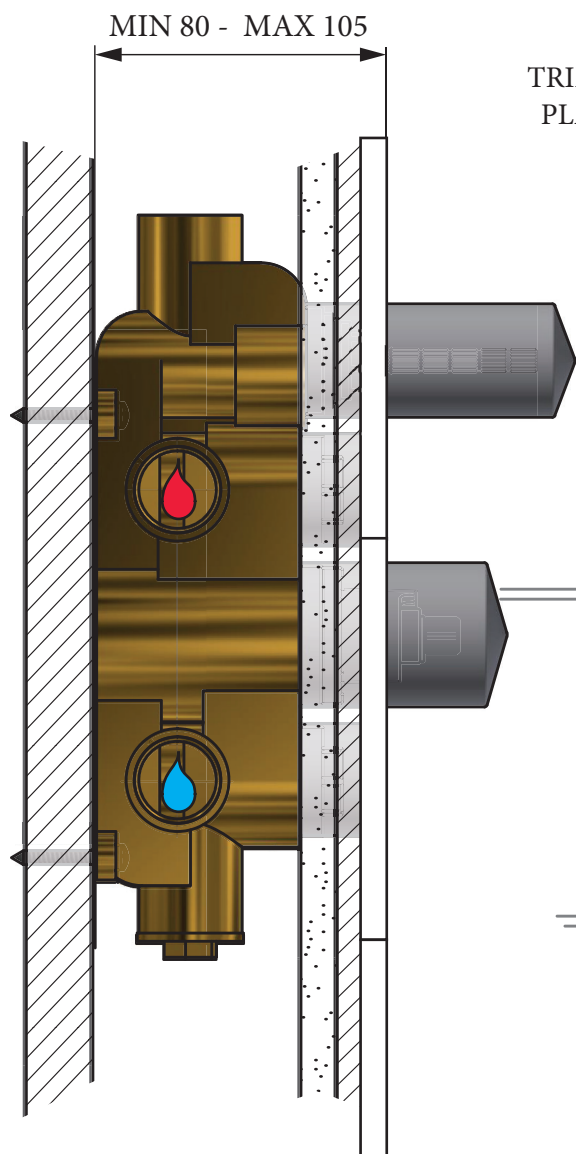
MOUNTING & PLUMBING

The Inlets and outlets are 3/4" BSP (Parallel) Threads. DO NOT USE TAPER THREADED ADAPTERS OR OVERTIGHTEN ADAPTERS

Use appropriate thread sealer. Oil-based non-setting jointing compounds should not be used!

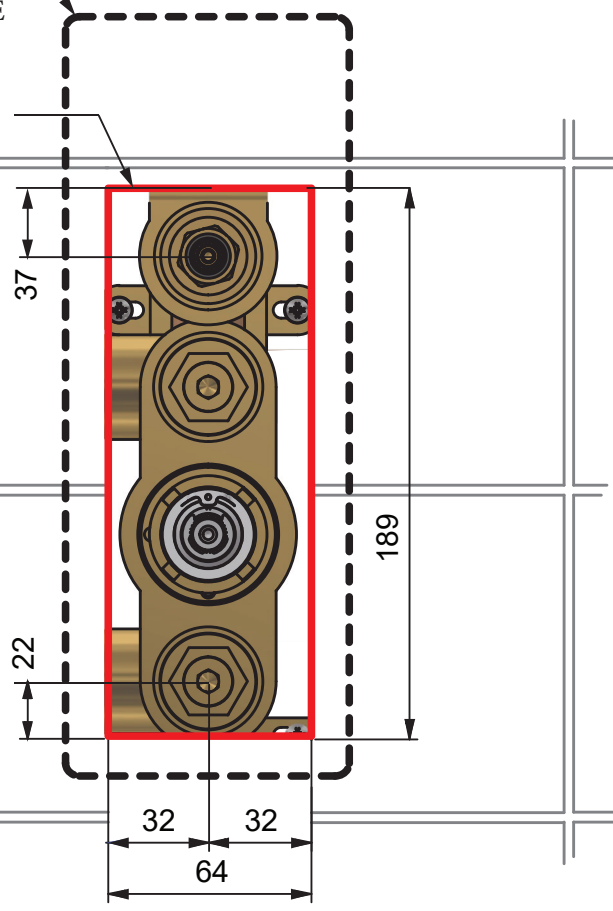


TILING APERTURE & TILE BUILD-UP

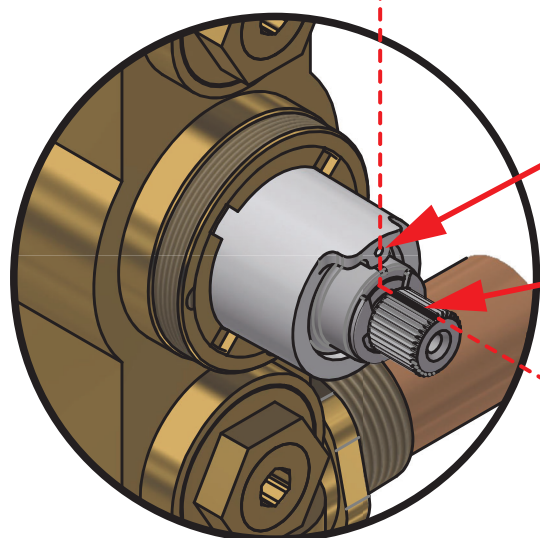


TRIM SET COVER
PLATE EXAMPLE

APERTURE



ALIGN FOR
38°C (+/-1°C)



HOT STOP
INDICATOR
CIRCLE

BLACK
INDICATOR
LINE

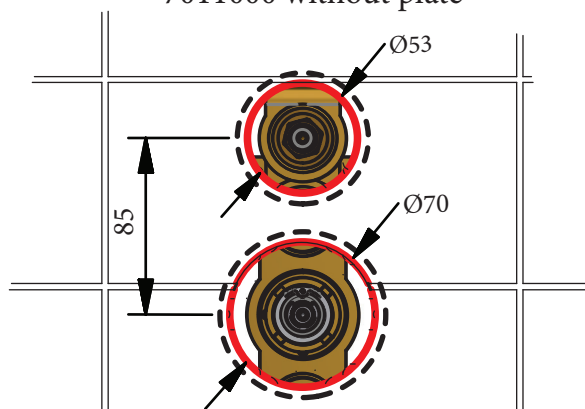
In advance of fitting the final-fit
Trim-Set use this as a guide to set the
temperature to 38°C (+/-1°C)

IMPORTANT !

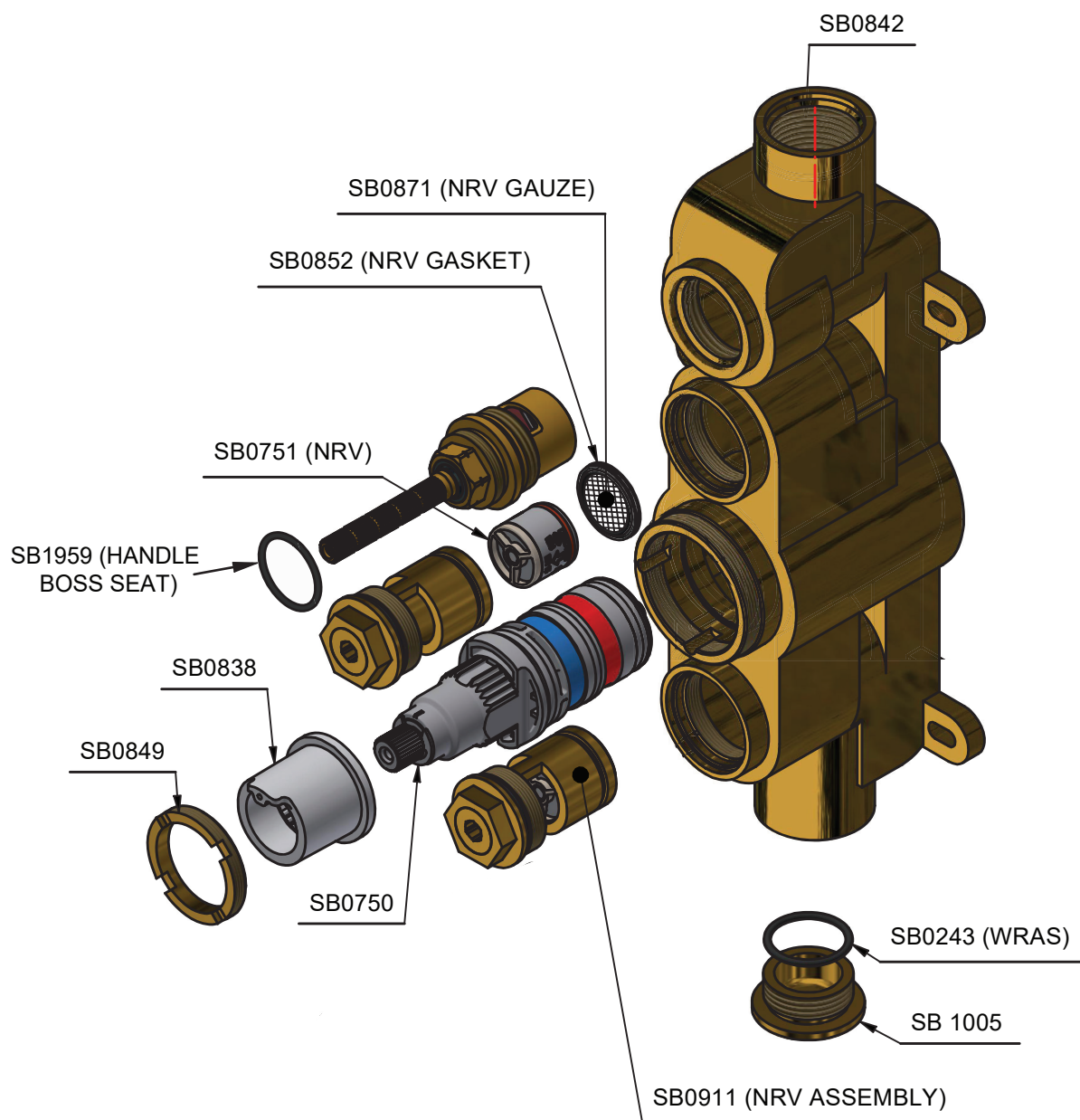
TILING APERTURE FOR ALL MODELS EXCEPT:
7010100 – Invincible Without Plate,

IMPORTANT !
TILING APERTURE FOR:
7010100 - Invincible Without Plate
ONLY

SINGLE CONTROLLED VALVE
7011000 without plate



PARTS LIST

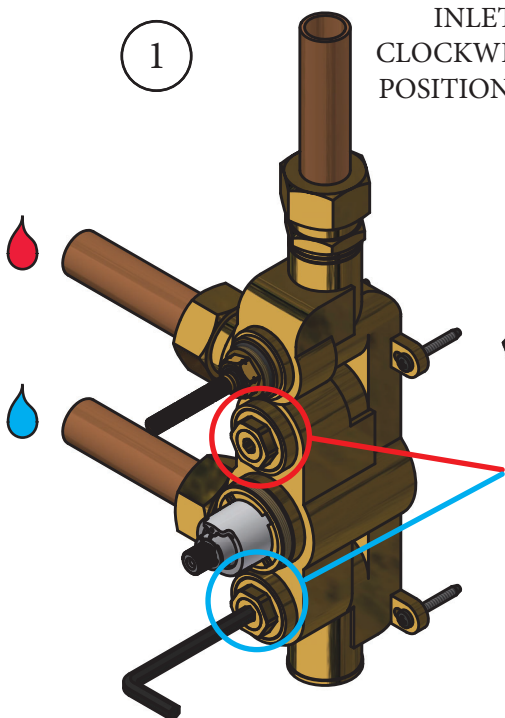


TMV & ON/OFF CARTRIDGE SERVICING & REPLACING

IMPORTANT!

FULLY ISOLATE BOTH **HOT** AND **COLD** INLETS HERE. GENTLY WIND CLOCKWISE TO THE NATURAL 'STOP' POSITION. ONCE ISOLATED - CHECK!

1



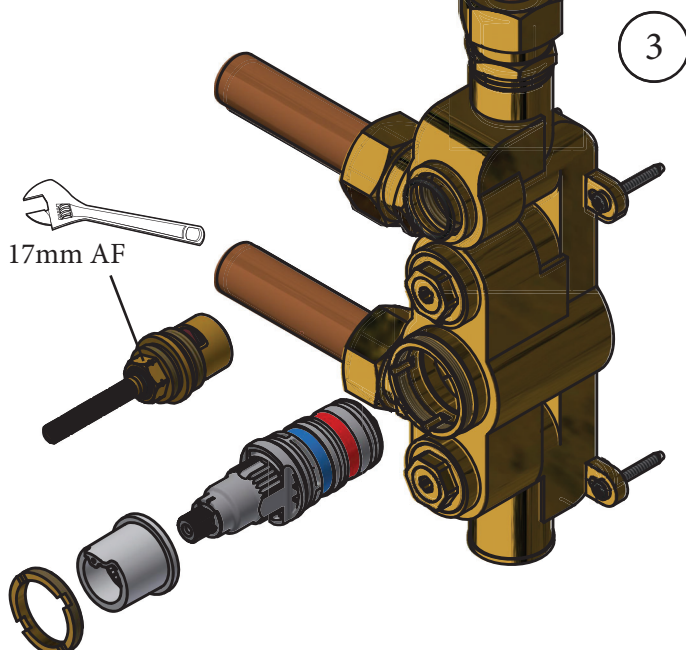
6mm AF

IMPORTANT!

ONCE ISOLATED - CHECK!

TURN 'ON' CONTROL 90° CLOCKWISE TO ASSESS WATER FULLY ISOLATED BEFORE DISASSEMBLY

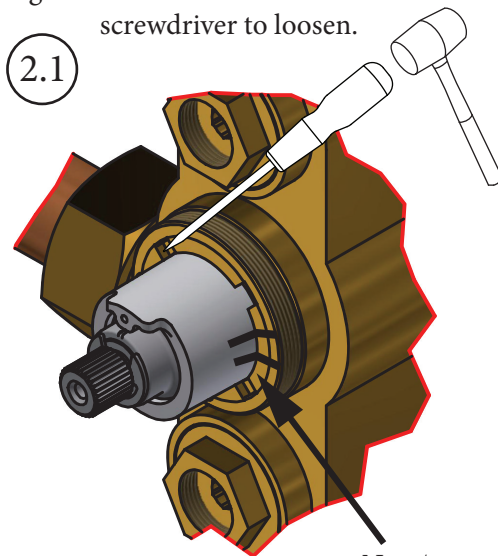
ONCE ASSESSED, IT IS GOOD PRACTICE TO TURN BACK TO 'OFF' POSITION - 90° ANTICLOCKWISE.



17mm AF

Gently tap TMV fastening nut & groove anticlockwise with flat face screwdriver to loosen.

2.1



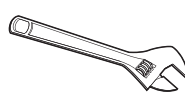
Note*

15Nm guide mark for reassembly

OR

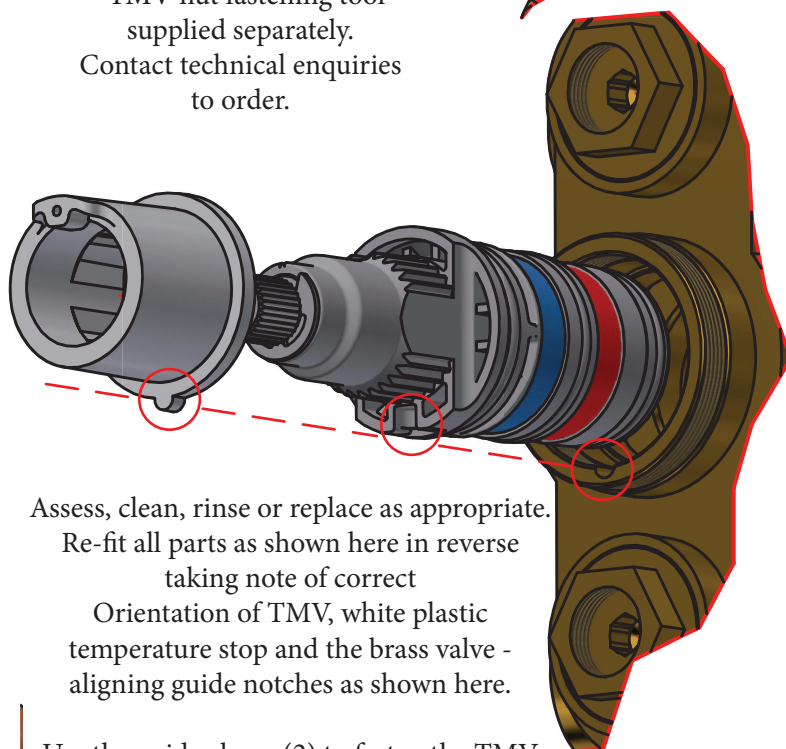
*SB0886

2.2



21mm AF

*TMV nut fastening tool supplied separately.
Contact technical enquiries to order.



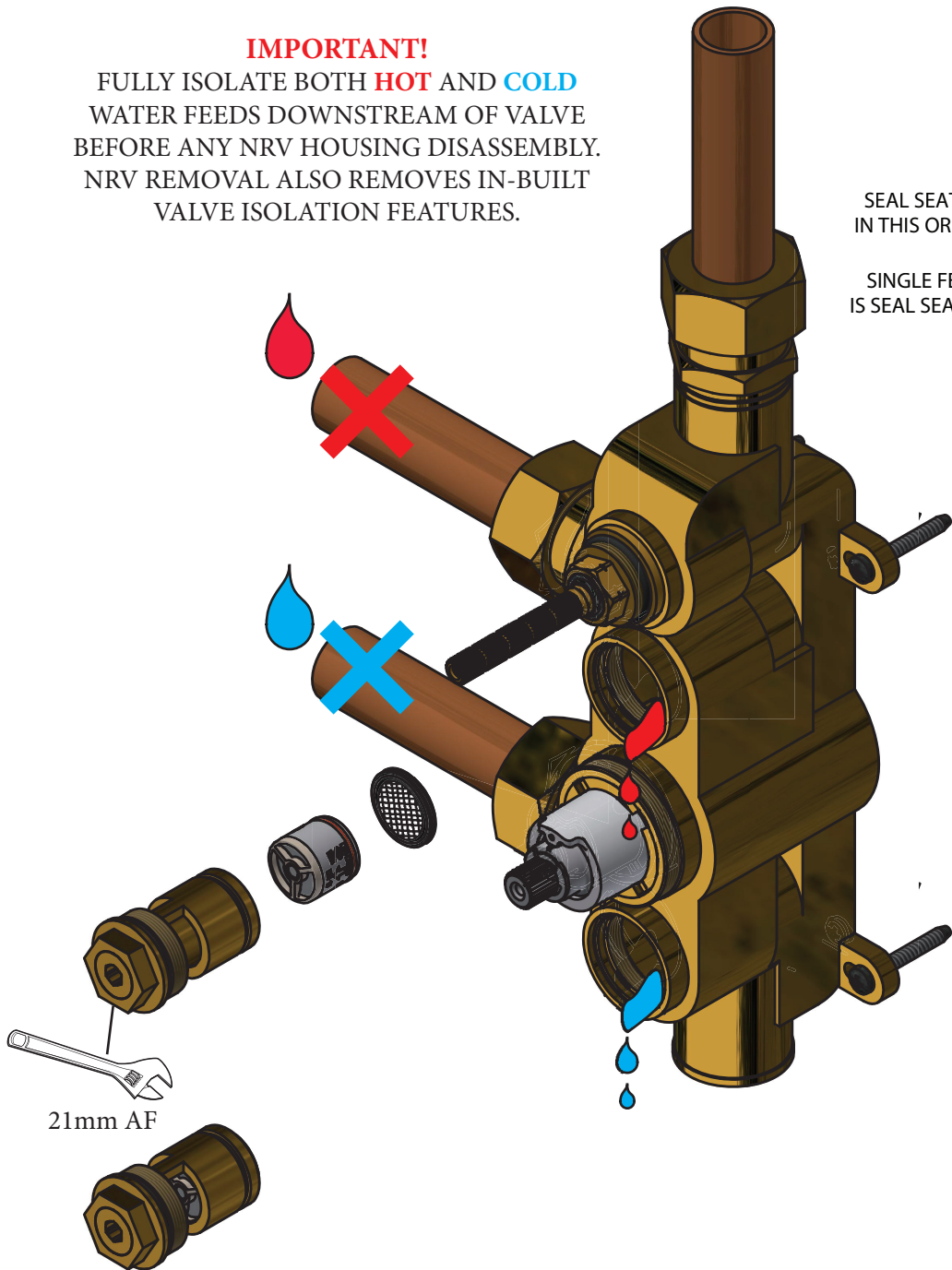
Assess, clean, rinse or replace as appropriate.
Re-fit all parts as shown here in reverse taking note of correct Orientation of TMV, white plastic temperature stop and the brass valve - aligning guide notches as shown here.

Use the guide above (2) to fasten the TMV fastening nut to the 15Nm guide mark shown on valve - if using screwdriver tap fastening nut gently clockwise to tighten to the guide marks shown. Do not over tighten!

**NRV (CHECK VALVE)
FLUSH OUT, CLEANING OR REPLACEMENT**

IMPORTANT!

FULLY ISOLATE BOTH **HOT** AND **COLD**
WATER FEEDS DOWNSTREAM OF VALVE
BEFORE ANY NRV HOUSING DISASSEMBLY.
NRV REMOVAL ALSO REMOVES IN-BUILT
VALVE ISOLATION FEATURES.



SEAL SEAT GASKET
IN THIS ORIENTATION

SINGLE FEATURE
IS SEAL SEAT FOR NRV

DOUBLE FEATURE
IS SEAL SEAT FOR
SHOWER VALVE

