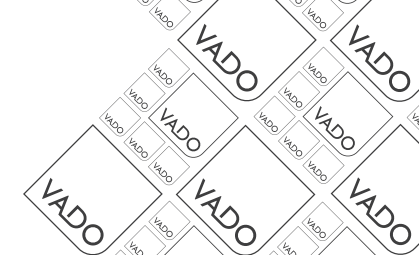




where inspiration flows



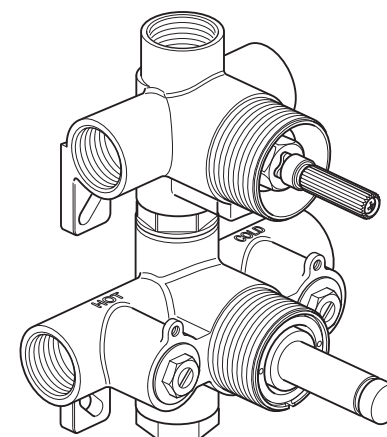
Installation Guide

This instruction booklet covers model:

CEL-148D/2/RO, CEL-148D/2/SQ, ELE-148D/2, LIF-148D/2, MIX-148D/2,
NOT-148D/2, ORI-148D/2, PHA-148D/2, PHO-148D/2.

CEL-148D/3/RO, CEL-148D/3/SQ, ELE-148D/3, LIF-148D/3, MIX-148D/3,
NOT-148D/3, ORI-148D/3, PHA-148D/3, PHO-148D/3.

CON-BV048D/2-BR
CON-BV048D/3-BR



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tel 01934 744466. fax 01934 744345
aftersales@vado.com
www.vado.com



Important - please read

Please read these instructions carefully before starting installation and keep for future reference.

Remove all packaging and check the product for missing parts or damage before starting installation.

Any alterations made to this product and fittings may infringe water regulations and will invalidate the guarantee.

The installation must comply with all Local/National Water Supply Authority Regulations/Byelaws and Building and Plumbing Regulations.

To be installed in accordance with BS EN806.

We strongly recommend that you use a qualified and registered plumber.

General installation

This fitting is a mixing device and therefore operating pressures (hot and cold supply) should be kept as balanced as possible in order to assure optimum efficiency.

When installed, the fitting must comply with the requirements of the Water Supply (Water Fittings) Regulations 1999 and Scottish Byelaws 2004.

For further information, contact the Water Regulations department of your local water supplier (see the WRAS website www.wras.co.uk for details) or the Water Regulations Advisory Scheme by email (info@wras.co.uk) or telephone: 01495848454.

Before making any inlet pipe connections, all supply pipes MUST be thoroughly flushed to remove debris. Failure to do so could result in damage or low flow from the mixer unit.

The fitting of strainers is recommended as close as practicable to the water supply inlets of the thermostatic mixing valve.

The fitting of isolation valves is required as close as is practicable to the water supply inlets of the thermostatic mixing valve.

If the concealed valve is connected to pipework that is fixed by soldering, it is essential the concealed valve is protected to prevent the check valves, thermostatic cartridge and headworks being exposed to elevated temperatures which can cause internal damage.

Please note: if installing in an enclosed environment, access should be left for servicing and maintenance. No costs relating to inadequate access can be accepted.

Operating Specifications

Operating Pressure

Minimum operating pressure for shower **0.2 bar**

Minimum operating pressure for bath **1 bar**

Maximum operating pressure **5 bar**

Operating specifications

Conditions of use for Type 2 valves

	High Pressure
Maximum Static Pressure (Bar)	10
Flow Pressure, Hot & Cold (Bar)	0.5 to 5
Hot Supply Temperature (°C)	55 to 65
Cold Supply Temperature (°C)	Equal to or Less than 25

Note: Valves operating outside these conditions cannot be guaranteed by the Scheme to operate as Type 2 valves.

Valve designation: HP-S-T.

If a water supply is fed by gravity then the supply pressure should be verified to ensure the conditions of use are appropriate for the valve.

Recommended outlet temperatures

The industry recommends the following mixed water outlet temperature for use in all premises:

44° C for bath fill but see notes below;

41° C for showers;

The mixed water temperatures must never exceed 46° C.

The maximum mixed water temperature can be 2° C above the recommended maximum set outlet temperatures.

Note:

46° C is the maximum mixed water temperature from the bath tap. 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.

The British Burns Association recommends 37° to 37.5° C as a comfortable bathing temperature for children. In premises covered by the Care Standards ACT 2000, The maximum mixed water outlet temperature is 43° C.

The thermostatic mixing valve will be installed in such a position that maintenance of the TMV and its valves and the commissioning and testing of the TMV can be undertaken.

Operating Specifications

In-service testing:

It is recommended that all TYPE 2 approved valves are tested and evaluated against the commissioning setting results once a year. Whilst this is a recommendation in user / owner domestic dwellings, a duty of care obligation should be considered in commercial bathroom or subletting situations. When in-service testing is undertaken the following performance checks shall be carried out.

1. The supply conditions (temperatures & pressures) are broadly the same as they were at the time of installation.
2. Measure the mixed water temperature at the outlet(s).
3. Carry out the cold-water isolation test.

If there is no significant change to the set outlet temperature ($\pm 2^{\circ}\text{C}$ or less change from the original settings) and the cold-water isolation test criteria is achieved, then the valve is working correctly, and no further service work is required. If the performance falls outside of that acceptance criteria, then service or adjust the valve in line with the manufacturer's instructions.

Notes

If there is a residual flow during the commissioning or the annual verification (cold water supply isolation test), then this is acceptable providing the temperature of the water seeping from the valve is no more than 2°C above the designated maximum mixed water outlet temperature setting of the valve.

Temperature readings should be taken at the normal flow rate after allowing for the system to stabilise.

The sensing part of the thermometer probe must be fully submerged in the water that is to be tested.

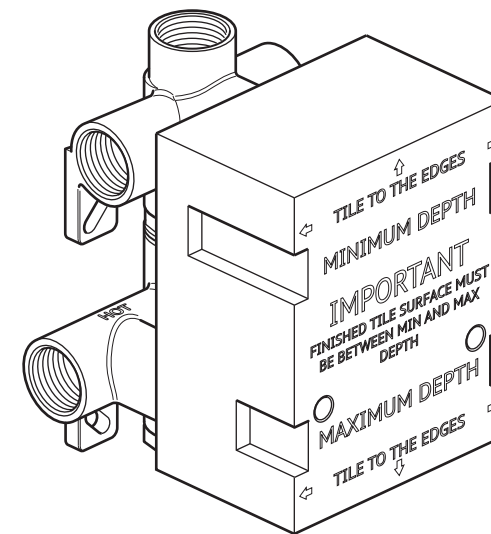
Any TMV that has been adjusted or serviced must be re-commissioned and re-tested in accordance with the manufacturers' instructions.

Contents of Packaging

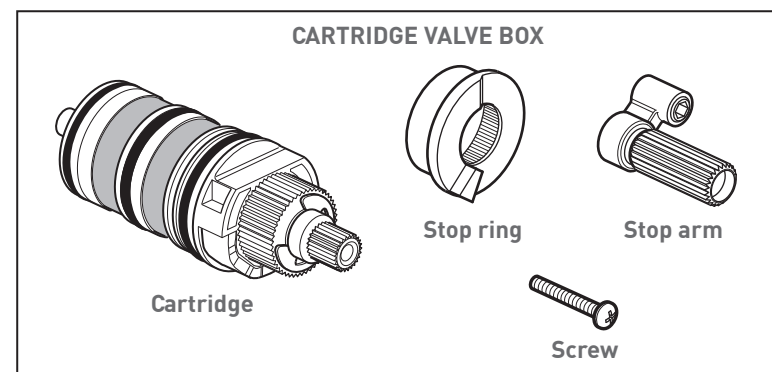
For illustrational purposes, the 3 way body is shown.



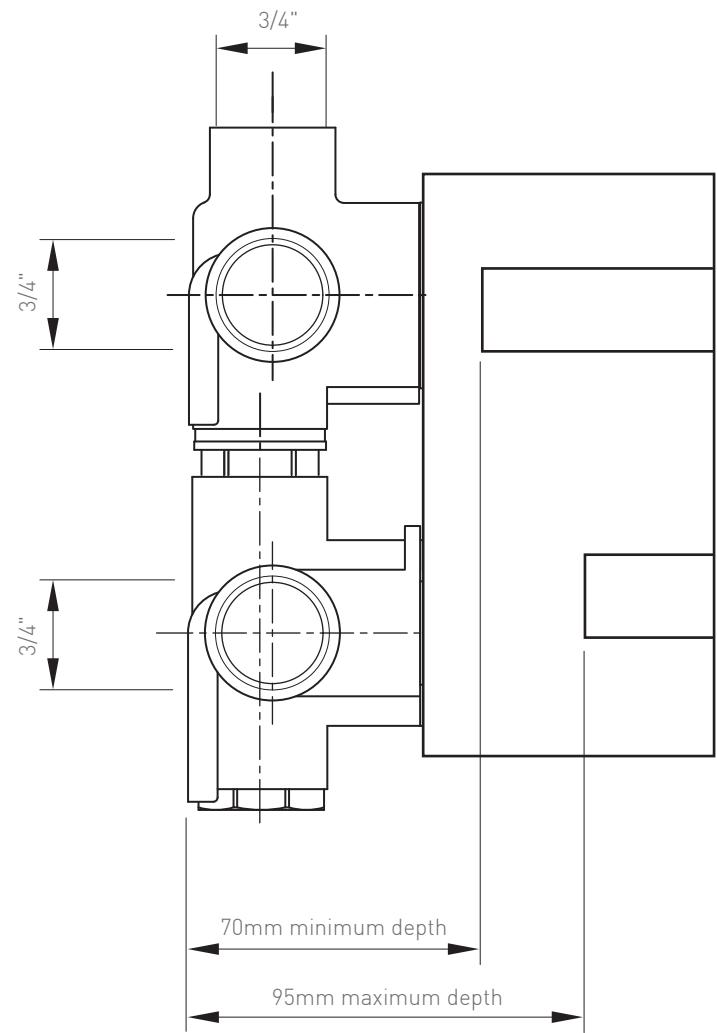
Installation guide



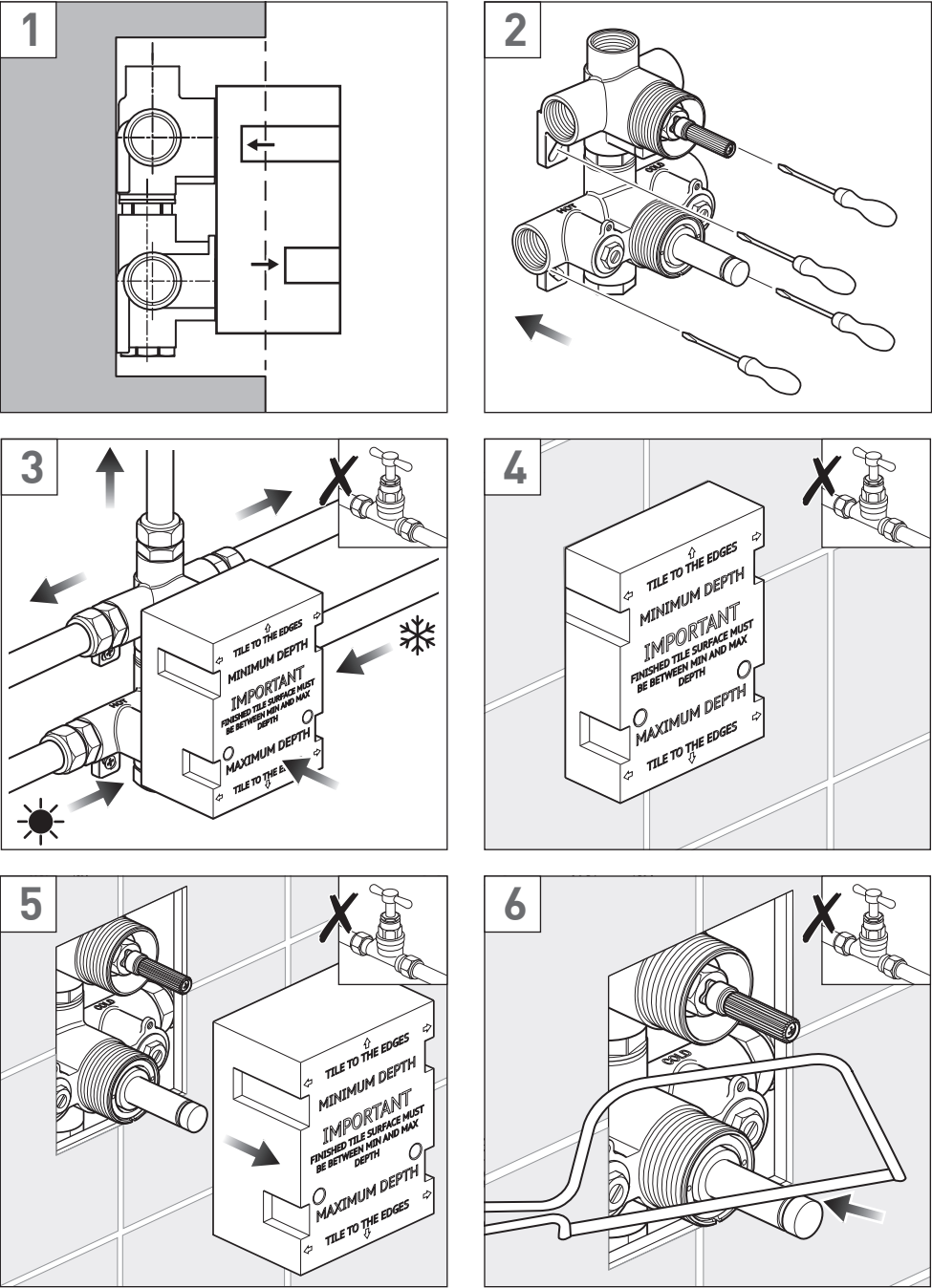
Valve body
(with mortar guard)



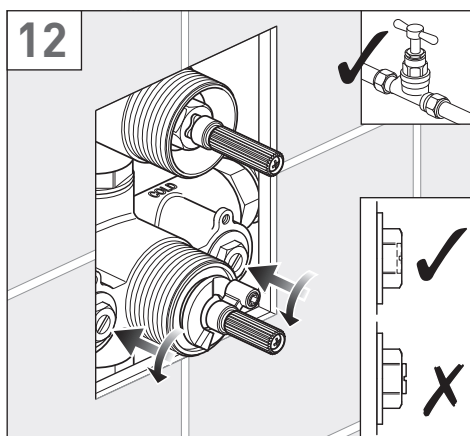
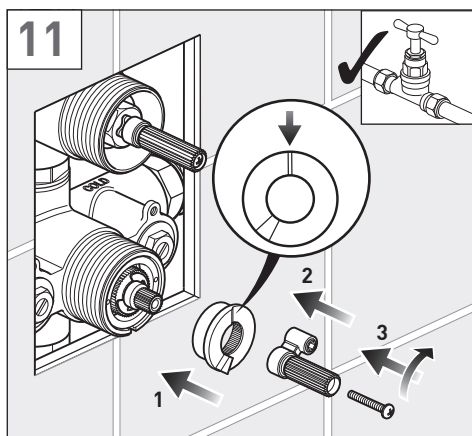
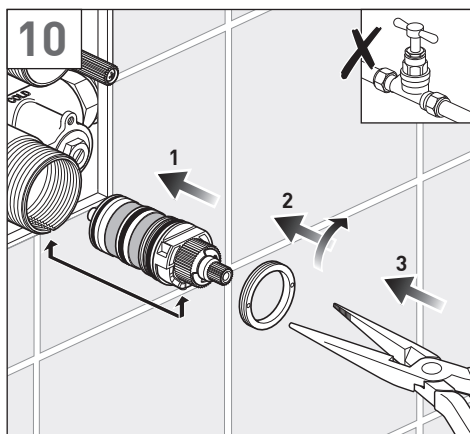
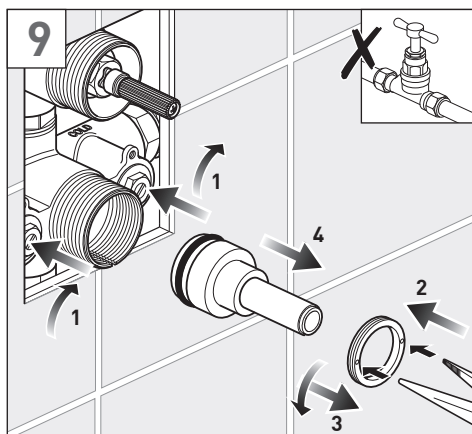
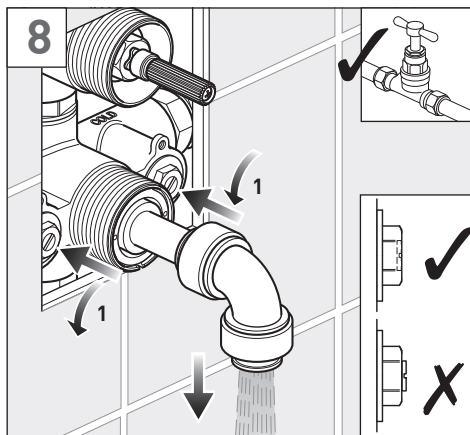
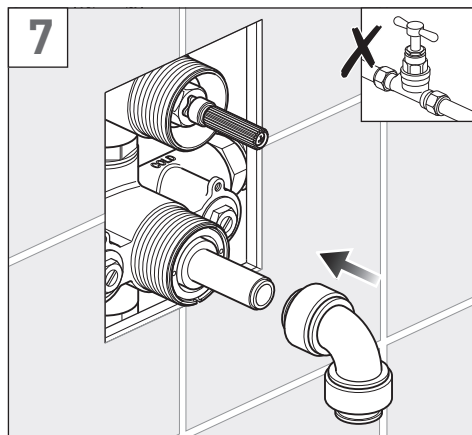
Valve dimensions



Installation - Quick guide



Installation - Quick guide

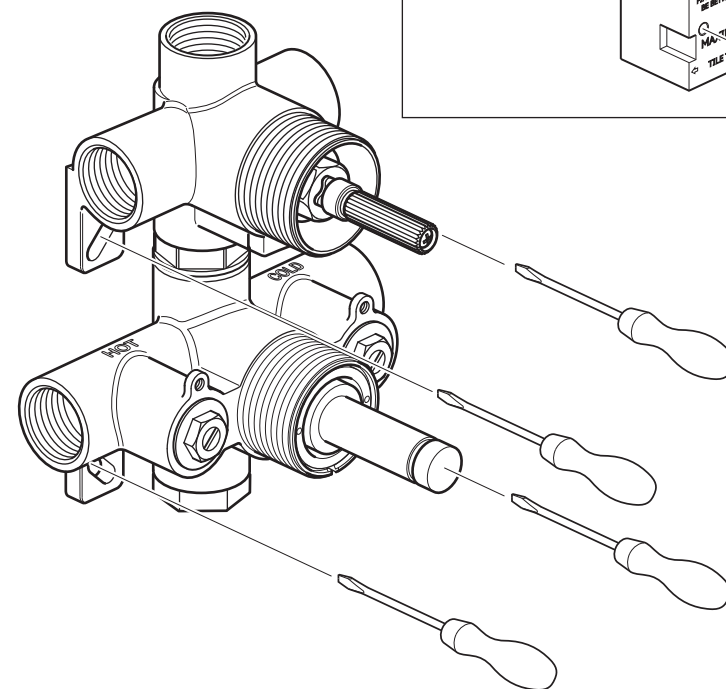
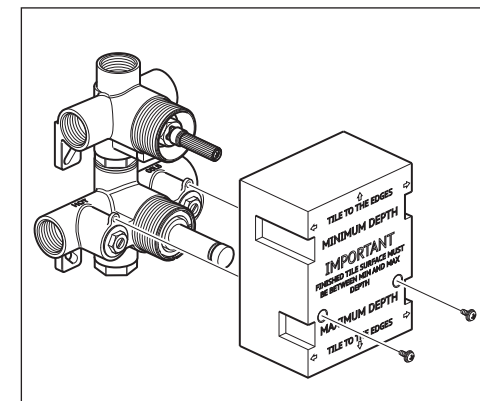


Installation

Mortar guard

During and after installation protect the outer parts by leaving the mortar guard on the valve to avoid damage to plated surfaces.

Remove the mortar guard by releasing the two screws and pulling off.



Warning! Please check for any hidden cables and pipes before drilling holes in the wall.

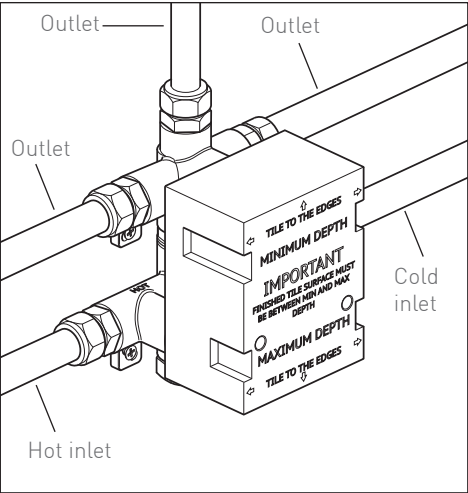
The back of the valve must be set into the wall between (70mm minimum - 95mm maximum) from the face of the finished wall.

Select the position for the shower valve and offer the shower valve to the wall, make sure the valve is vertical with a level and fixed to a flat surface, mark the 4 fixing points with a suitable pencil.

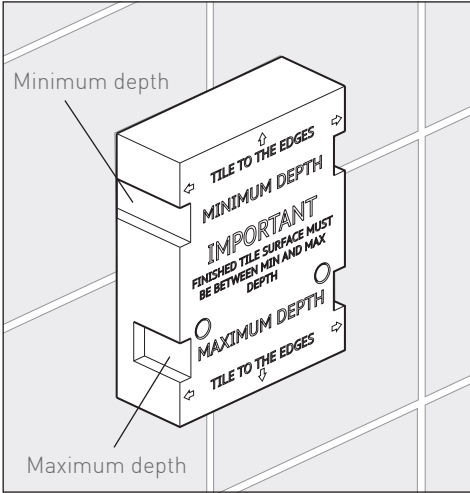
Secure using suitable fixings.

Replace the mortar guard and secure in position with the two screws.

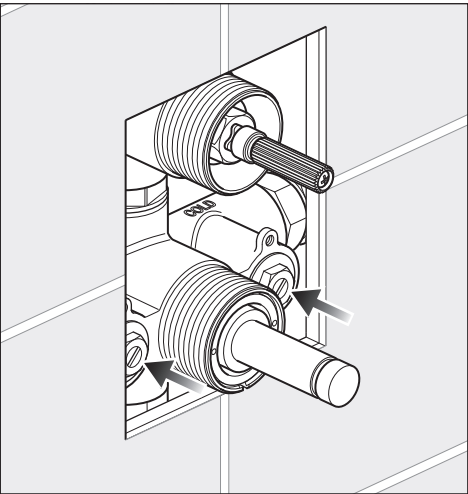
Installation



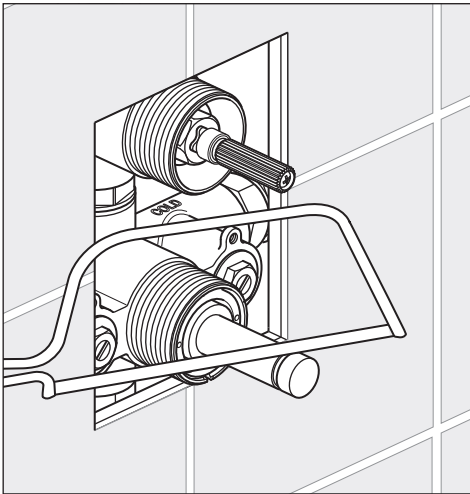
Connect hot supply to the lower left inlet of the valve and cold supply to the lower right inlet. Connect the open outlets to desired channels.



Finish the wall by tiling up to the mortar guard, keep the final finished wall surface between the min and max marks. Unscrew the 2 mortar guard screws and remove from the wall.

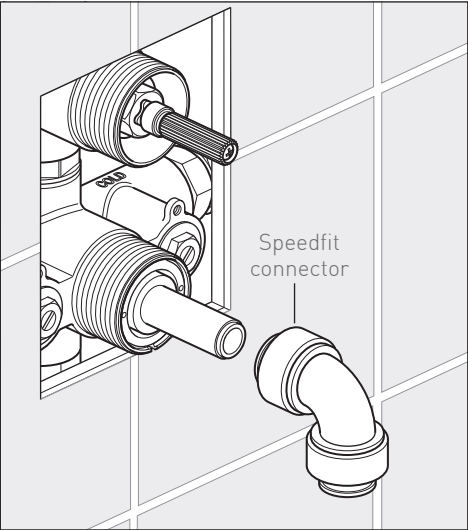


Turn off both non return valves by turning clockwise, do not overtighten.

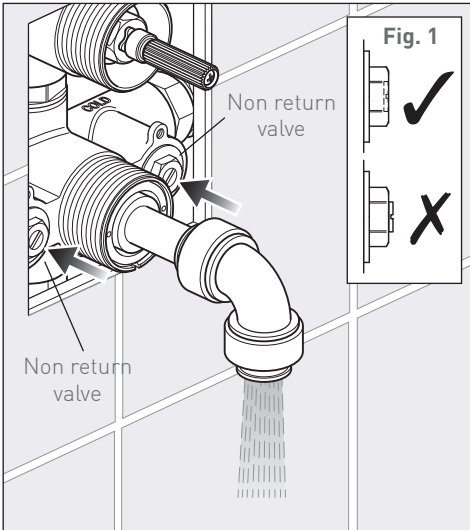


Important: ensure the hot and cold water supplies have been isolated. Using a suitable tool, cut the end off the drain through the easy cut section.

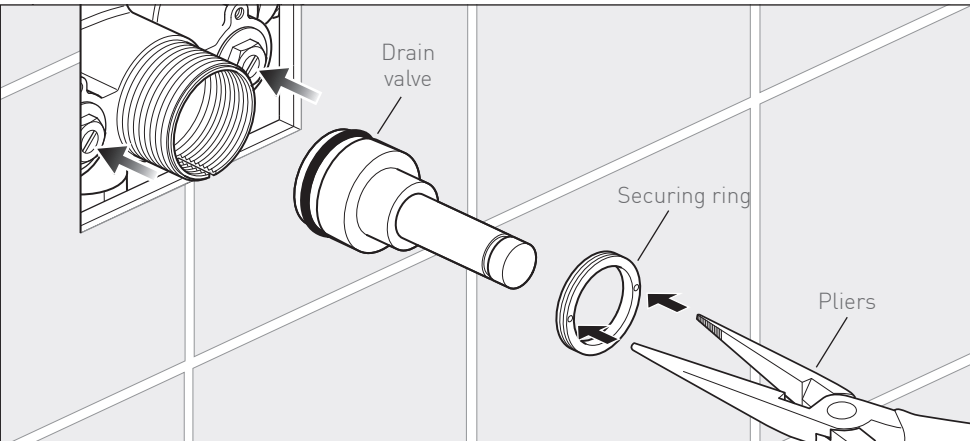
Installation



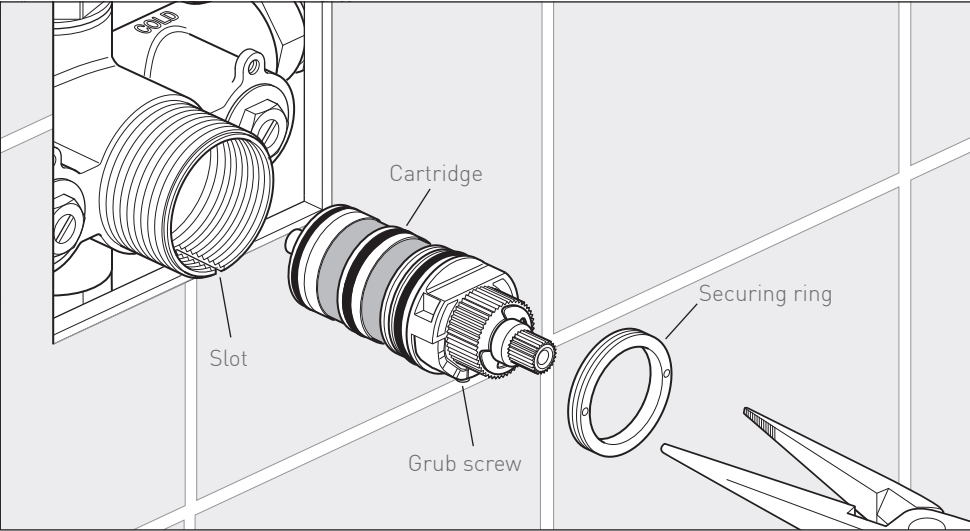
We recommend to push a speedfit connector (not supplied) over the drain, and place a bucket underneath. If a speedfit connector is not being used, carefully hold a bucket underneath the drain valve.



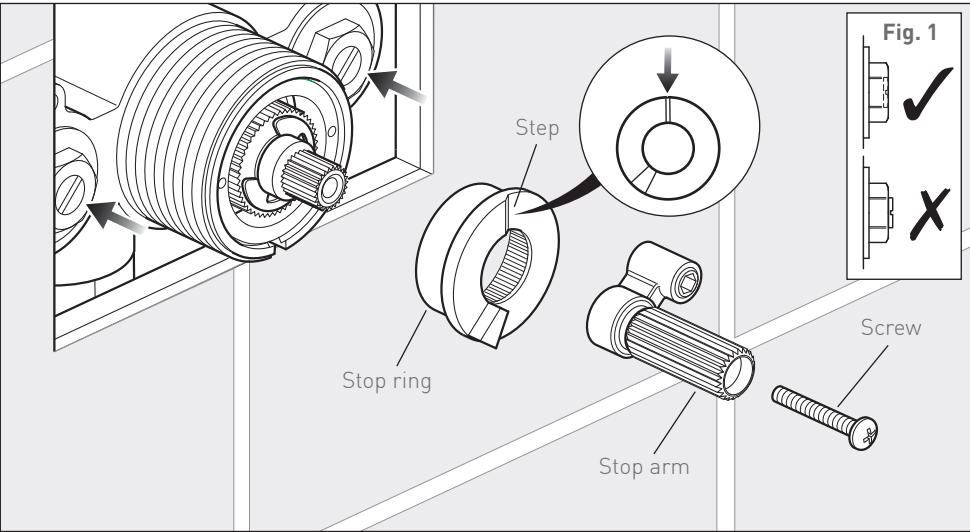
Turn on at the mains, open both non return valves and allow the debris and water to drain. When loosening the non return valve do not unscrew further than the face of the nut (see Fig. 1). After approximately two minutes of flushing the pipe work and product close both non return valves. Do not overtighten.



Close both non return valves. Remove the speedfit connector. Using a pair of long-nosed pliers unscrew the securing ring and remove. Pull the drain valve out from the body



Push the cartridge into the body, align the grub screw with the slot and continue to push the cartridge all the way in.
Fit the securing ring and tighten using a pair of long-nosed pliers



Push the stop ring onto the splines of the cartridge, making sure that the step on the stop ring is at 12 o'clock. Slide the stop arm on and secure in position with the screw.
Open both non return valves.

Guarantee

All VADO products come with a 2 year guarantee as standard. Within this guarantee period, VADO will provide replacement parts and any labour **[SEE NOTE 1]** needed to complete the product repair.

This standard guarantee may be extended by registering your product on our website at: <https://www.vado.com/support/guarantee>.

Once registered, this product will have a 15 year (2 years parts and labour plus 13 years parts only) or a 10 year (2 years parts and labour plus 8 years parts only) guarantee dependant on the finish.

Chrome (CP) = 15 years

Matt White (MW) , Matt Black (MB) , Satin Brass (SBR) = 10 years

Guarantee Conditions

Our products are guaranteed against manufacturing defects from the date of purchase until the expiry of the relevant guarantee period shown above.

The guarantee is only valid if:

- The product has been installed, used and maintained in accordance with VADO's instructions and subjected to normal use only.
- The defect is not due to accident, misuse, neglect, or incorrect/inappropriate repair (other than by VADO or VADO authorised agents) or damage caused by foreign objects or substances.

- The extended guarantee is only available if you have completed the guarantee registration process.

This can be done via the VADO website or via telephone to our Aftersales team.

Registration must be completed within 6 months from the date of purchase. Under the extended guarantee period VADO will, at its option, offer to supply any replacement product (or component part) assessed to be defective **[SEE NOTE 2]**.

- The guarantee (whether standard or extended) is non-transferable to any subsequent owner.
- Mould, Mildew build up, the effects of limescale and corrosion are not covered under this guarantee.

- This guarantee does not cover damage and/or malfunction caused by inappropriate cleaning (please refer to our recommended care guidelines).

All claims under the guarantee should be notified in the first instance to our Aftersales department, contact details below, this must be done no later than the last day of the relevant guarantee period.

All claims must be accompanied by proof of purchase (sales receipt or delivery note) from an official VADO dealer.

The guarantee does not extend to any consequential loss or damage.

After repair or replacement, the relevant guarantee period will be calculated from the original date of purchase.

VADO operates a policy of continuous product development and therefore reserves the right to change the product, packaging and documentation specifications without notice.

In situations where like-for-like replacements are not possible, VADO will endeavour to provide the closest alternative. E&OE.

NOTES:

[1] Labour via our engineer network is only available in the UK. Attendance by a VADO engineer or sub-contract engineer will be under our standard terms and conditions.

[2] VADO reserves the right to charge in advance for a product (or replacement part) pending collection and investigation (at VADO expense) to confirm a defect is due to a manufacturing issue. If a defect is found the charge will be refunded or cancelled.

This guarantee is in addition to and does not affect your statutory rights as a consumer.

Tel: 01934 745163 Email: aftersales@vado.com

CAMEO

Concealed 1 outlet thermostatic valve

User Guide

CAM-148D



Welcome

Thank you for choosing VADO

Our products can be found in some of the most prestigious hotel, commercial and residential developments across the world, therefore you can expect exceptional product quality and outstanding customer service.

This product has passed through stringent quality assurance processes coupled with demanding lifecycle mechanical testing to ensure it is recognised by the KIWA TMV2 Scheme and reaches the exacting standards that allow us to offer our premium 10 and 15 year guarantees. *

To ensure this product operates at its optimum efficiency, it is essential this product is maintained and serviced in accordance with these instructions.

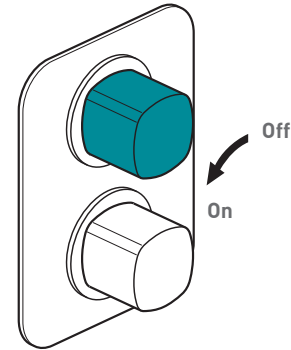
We work to ensure our product designs are harmonious with all sanitaryware, so when you choose VADO, your choice of coordinating items is unlimited.

With VADO, you can really let your inspiration flow.

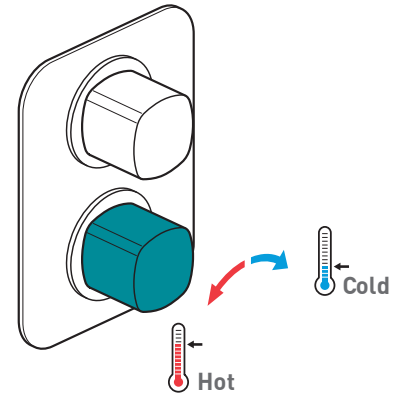
For any technical or operational queries please contact our experienced aftersales team on 01934 745163.

Vado, Wedmore Road, Cheddar, Somerset, England BS27 3EB
tel 01934 744466. fax 01934 744345
aftersales@vado.com
www.vado.com

Operation



Turning the flow control handle in the direction of the arrow (anti-clockwise) increases the flow of water



Turning the temperature control handle in the direction of the arrows increases/decreases the temperature

Servicing:

It is a requirement that all TMV2 approved valves shall be verified against the original set temperatures results once a year. When commissioning/testing is due the following performance checks shall be carried out.

Measure the mixed water temperature at the outlet.

Carry out the cold water supply isolation test by isolating the cold water supply to the TMV, wait for five seconds if water is still flowing check that the temperature is below 46° C.

If there is no significant change to the set temperature ($\pm 2^{\circ}\text{C}$ or less from the original settings) and the fail-safe shut off is functioning, then the valve is working correctly and no further service work is required.

Notes:

If there is a residual flow during the commissioning or the annual verification (cold water supply isolation test), then this is acceptable providing the temperature of the water seeping from the valve is no more than 2°C above the designated maximum mixed water outlet temperature setting of the valve.

Temperature readings should be taken at the normal flow rate after allowing for the system to stabilise.

The sensing part of the thermometer probe must be fully submerged in the water that is to be tested.

Any thermostatic mixing valve (TMV) that has been adjusted or serviced must be re-commissioned and re-tested in accordance with the manufacturers instructions.

See **vado.com** for more information.

Maintenance:

We advise that the below is carried out annually as failure to do so may result in invalidation of warranty.

Shut off the water supply to both hot and cold inlets, before commencing any maintenance work below.

See isolation procedure on page 7.

Thermostatic cartridge

This thermostatic valve is fitted with a single filtering facility.

Filters are fitted on the thermostatic cartridge.

Depending on the water quality, filters may become dirty, causing reduced flow and inefficient working of the valve.

To clean the filters, you must first remove the cartridge from the housing.

Removing the Cartridge

1. Shut off the water supply to both inlets at the isolating valves. Ensure the thermostatic valve has been successfully isolated. See page 7 for correct procedure.

2. Remove the temperature control handle. Remove the screw from the temperature stop arm and pull off. Pull off the stop ring. Pull off the plate securing ring and unscrew the shroud. Using a pair of long-nosed pliers unscrew the securing ring and remove.

For more information see the installation manuals.

3. Pull out the thermostatic cartridge.
4. Clean filters by rinsing them under running water to remove any debris.
5. If there is limescale deposits then it is recommended to immerse the cartridge for a few minutes in 50% white vinegar + 50% hot water, brush the filters gently and then rinse under running water to clean all particles. If this is not effective, a replacement cartridge should be fitted.

Maintenance:

6. Before reassembling the cartridge, clean its housing with a wet cloth and grease the 'O' rings using a suitable silicone grease, insert the thermostatic cartridge.
 7. Screw the securing nut on and tighten using long-nose pliers, careful not to overtighten.
 8. Place the temperature stop ring on the cartridge so the step is located at 12 o'clock.
 9. Turn the water supply on via the isolating valves.
 10. Check the water temperature to ensure correct commissioning.
- See page 8 of the Trim Kit instructions or Vado.com for commissioning.**
11. Replace shrouds, plate, securing ring, stop arm and handle.
 12. Secure the handle (see page 10 of Trim kit installation).

Isolation procedure:

IMPORTANT:

Please see the below procedure for isolating concealed thermostatic valves.

1. Remove handles/faceplate and trim parts allowing access to the isolation points on the valve.
2. Screw down the isolation screws clockwise until you feel a resistance (taking care not to over tighten).
3. Turn shower on to check isolation, please ensure that your body/hands are not under the flow of water as there is a potential for delivery of hot water.
4. Remove temperature stop ring (essential).
5. With shower in the on position, replace temperature handle on thermostatic valve (ensure temperature stop ring has been removed).
6. Turn temp handle fully anti-clockwise until stop point is reached and can be turned no further, please ensure that your body/hands are not under the flow of water as there is potential for delivery of hot water if isolation has been unsuccessful.
7. Turn temperature handle fully clockwise until you feel a resistance.
8. If there is no flow of water coming from the outlet during both points 6 and 7 isolation has been successful, you may now remove and maintain the thermostatic cartridge.
9. If at any of the above points water continues to flow please isolate at an alternative point within the system for both hot and cold and repeat points 3-9.

Cleaning instructions:

The electroplating on this product is finished to the highest standard. Due care needs to be taken to ensure the appearance is retained.

We recommend cleaning all products with a soft damp cloth ONLY and advise strongly against the use of all aggressive/corrosive cleaning products i.e. powders and liquids. If these instructions are not followed, this may invalidate your guarantee in the event of a problem occurring.

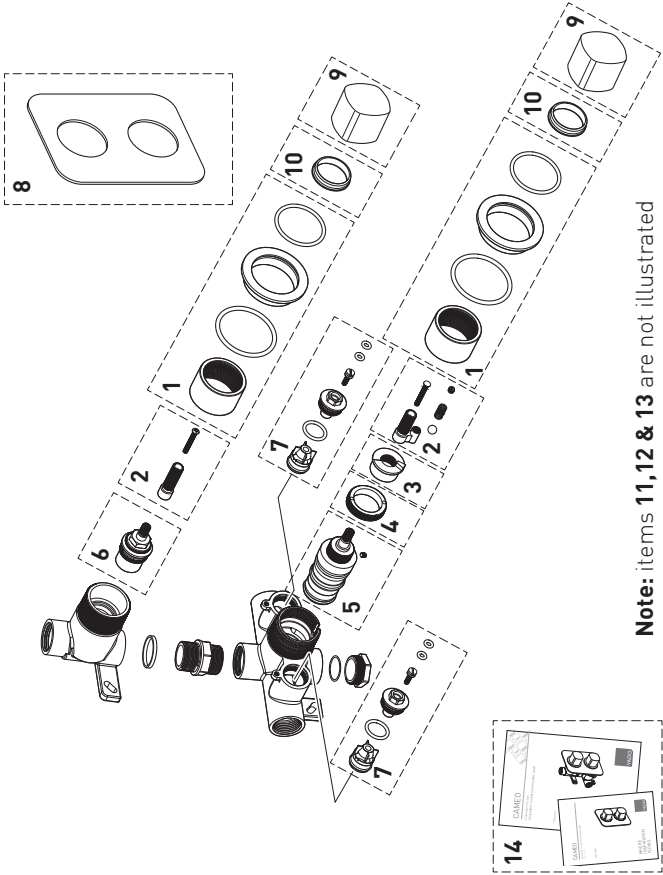
Notes:

For parts and parts list see next page.

Parts list:

Item	Description	Part Code	Quantity
1	Fixing Ring Kit	CAM-33-(CP/MB/MW/SBR)	2
2	Spindle Kit	CON-148-SPINDLE-KIT	1
3	Stop Ring	CON-148-STOP-RING	1
4	Locking Ring - Temp Cartridge	CON-148-TEMPLOCKRING	1
5	Temperature Cartridge	V-704-34S	1
6	Headworks	C-301-RTC	1
7	NRV + Isolator kit	CON-148-NVR-KIT	1
8	Plate	CAM-0010- (CP/MW/MB /SBR)	1
9	Temp Handle: Flow Handle:	CAM-32-(CP/MW/MB/SBR) CAM-31-(CP/MW/MB/SBR)	1 1
10	Handle Spacer	CON-148HANDLESPACER	2
11	Grub Kit	CON-148-GRUBKIT	1
12	148B kit tool	CON-148CART-TOOL-PLA	1
13	148B Engineer tool	CON-148CART-TOOL-BRA	1
14	Installation guide & User manual		1

Parts:



Note: items 11, 12 & 13 are not illustrated

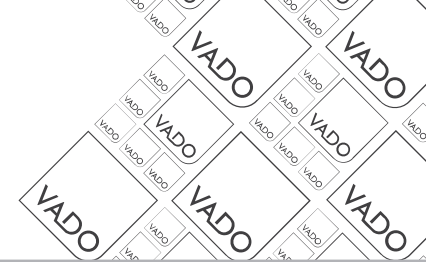


where inspiration flows

CAMEO

Installation Guide

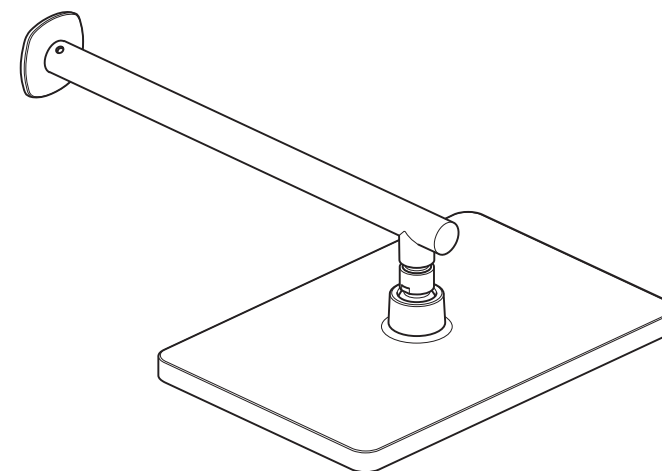
Fixed shower head with wall mounted arm



This instruction booklet covers these models:

CAM-HEAD/SA
(All finish options)

CAM-HEAD/SA



Cleaning Instructions

If these instructions are not followed, your guarantee may be invalidated.

- Clean only with water and a soft damp cloth
- Do not use any aggressive/corrosive cleaning products
- Do not use abrasive cloths

Due care needs to be taken to ensure the appearance is retained.
For further cleaning instructions, please consult this product's user guide.

Keep for future reference

Vado
Wedmore Road, Cheddar, Somerset, England BS27 3EB
tel 01934 744466. fax 01934 744345
aftersales@vado.com
www.vado.com



Important - Please Read

Please read these instructions carefully before starting installation and keep for future reference.

Remove all packaging and check the product for missing parts or damage before starting installation.

Any alterations made to this product and fittings may infringe water regulations and will invalidate the guarantee.

The installation must comply with all Local/National Water Supply Authority Regulations/Byelaws and Building and Plumbing Regulations.

To be installed in accordance with BS EN806.

We strongly recommend that you use a qualified and registered plumber.

General Installation

When installed, the fitting must comply with the requirements of the Water Supply (Water Fittings) Regulations 1999 and Scottish Byelaws 2004.

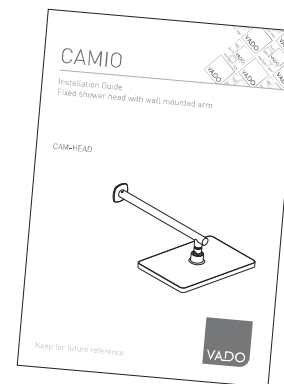
For further information, contact the Water Regulations department of your local water supplier (see the WRAS website www.wras.co.uk for details) or the Water Regulations Advisory Scheme by email (info@wras.co.uk) or telephone: 01495848454.

The fitting of an isolating valve to the inlet feed is advised for ease of maintenance.

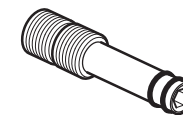
Please take great care when installing this product not to damage its surface.

Please note if installing in an enclosed environment, access should be left for servicing and maintenance. No costs relating to inadequate access can be accepted.

Contents



**Installation &
User Guide**



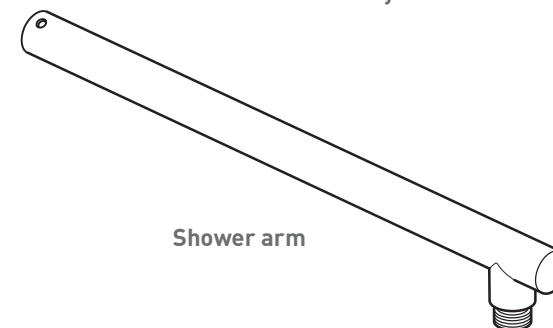
Connector



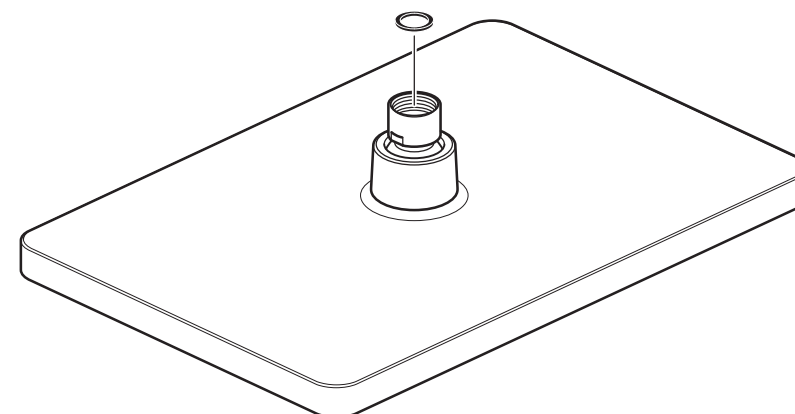
Hex key



Shroud

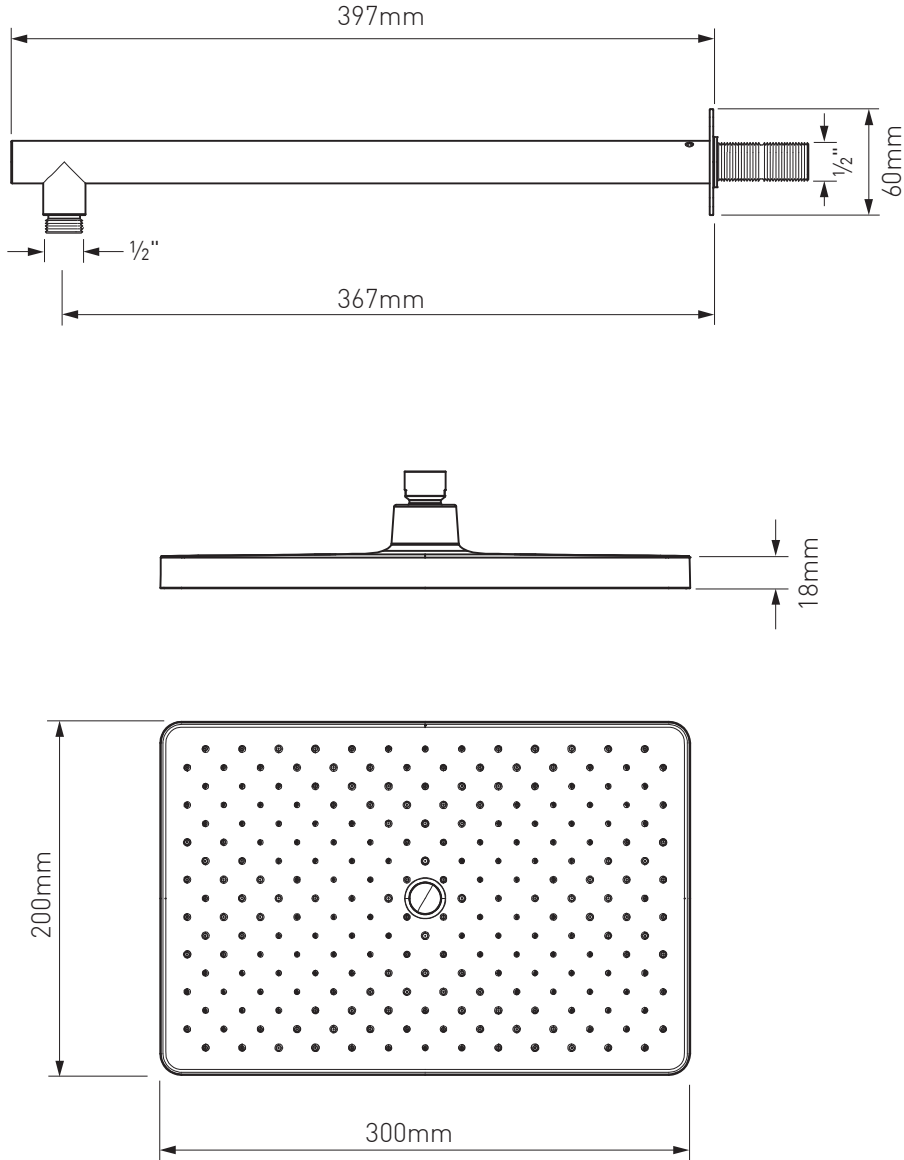


Shower arm

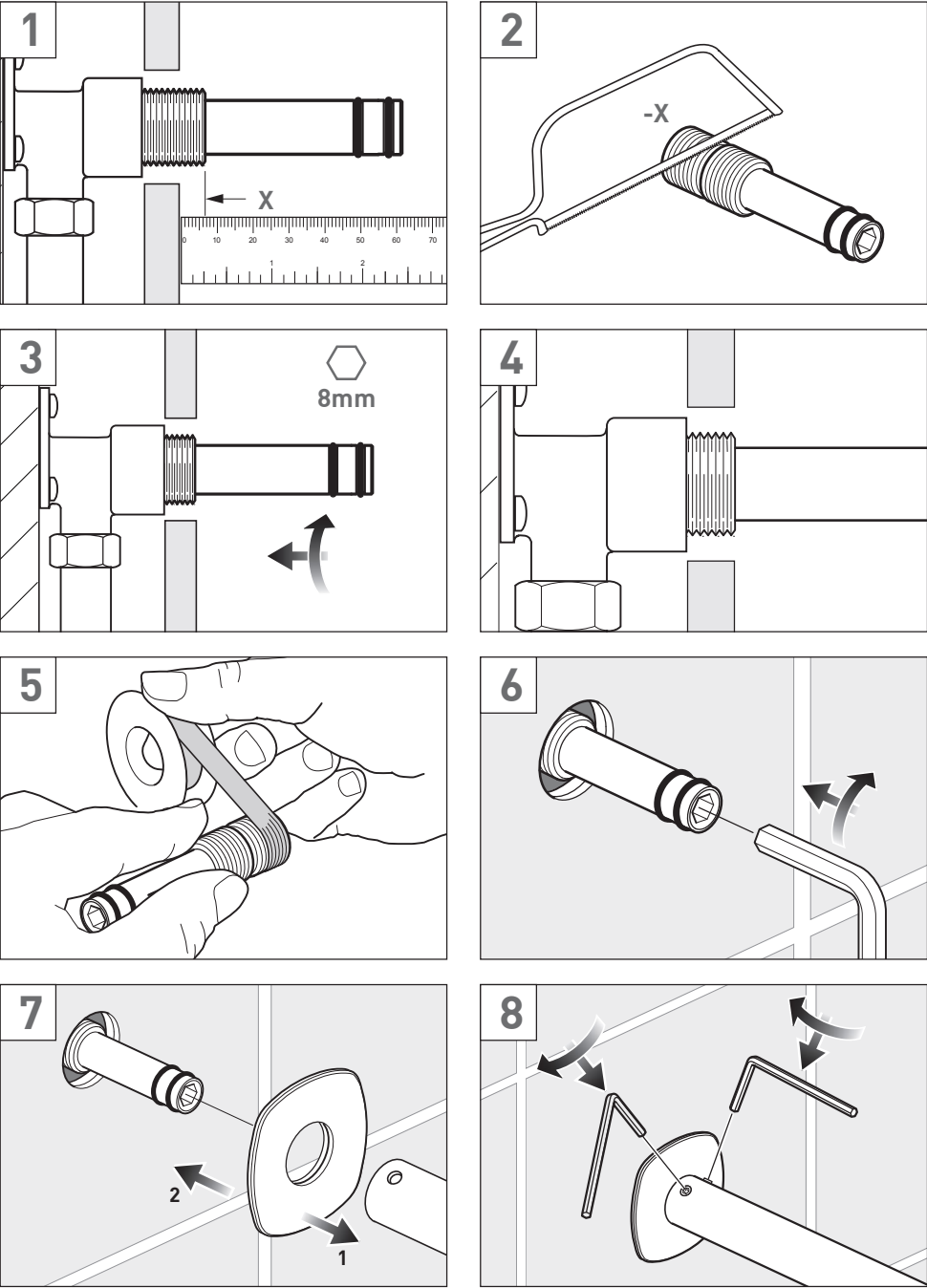


Shower head with washer

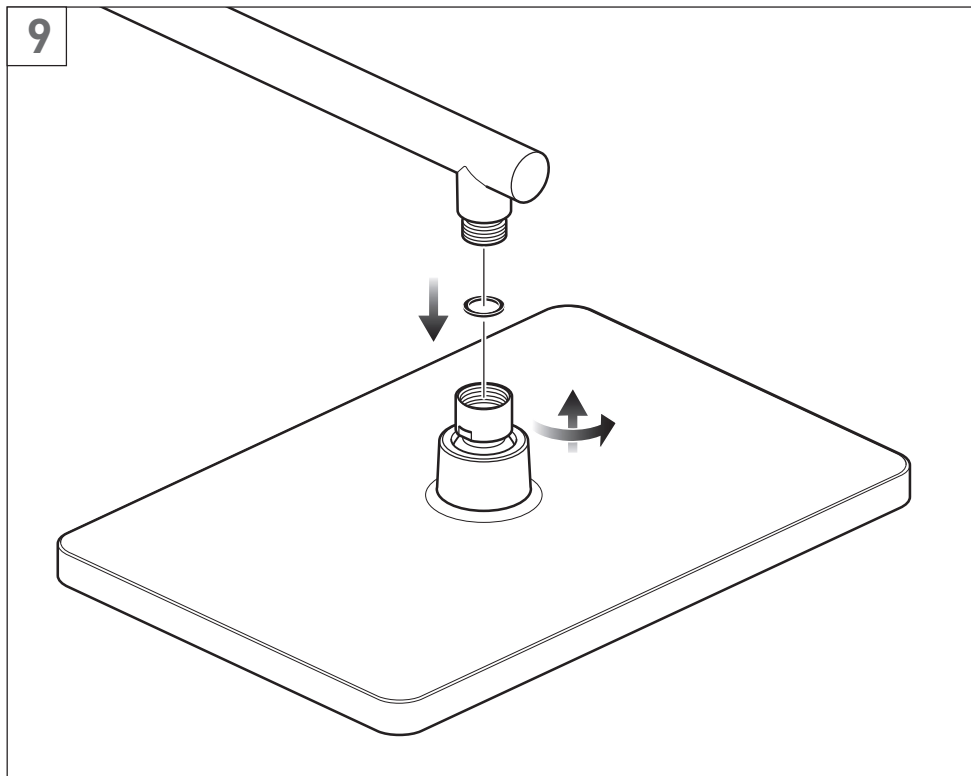
Dimensions



Quick Guide



Quick Guide

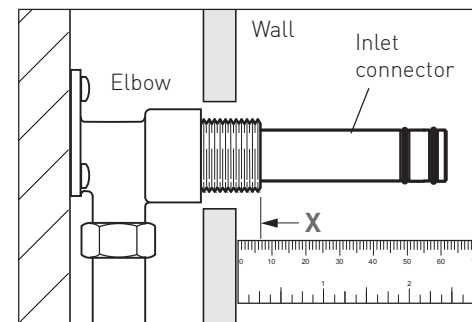


Installation

Prepare the wall with a 1/2" connector (a fixed elbow is shown on the right, not supplied). Connect the water supply from the valve. Check for leaks, and finish off the wall.

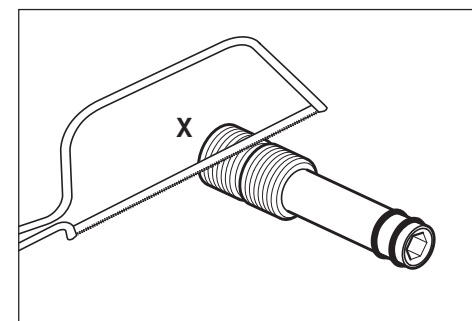
Screw in the supplied inlet connector. The end of the thread should be flush with the final wall surface.

Take the measurement from the final wall surface to the end of the thread (**Xmm**).

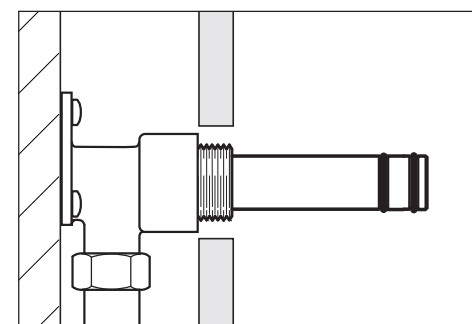


Remove the connector from the elbow. If necessary carefully cut the bottom of the connector by this measurement (**Xmm**). Remove any burrs.

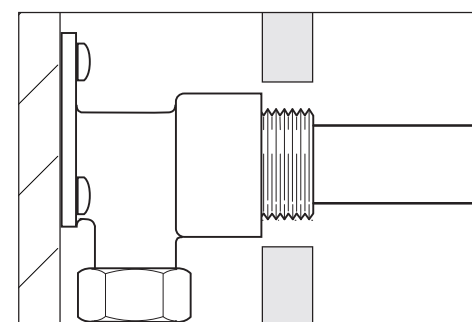
There is a cutout half way along the thread to aid cutting if necessary.



Check the length of the connector by screwing into the elbow.

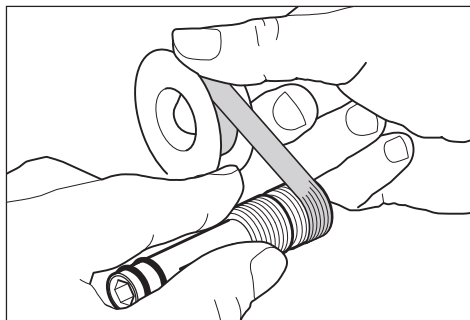


The connector should be flush with the wall. Remove the connector.

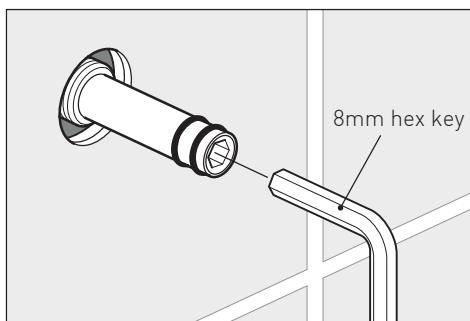


Installation

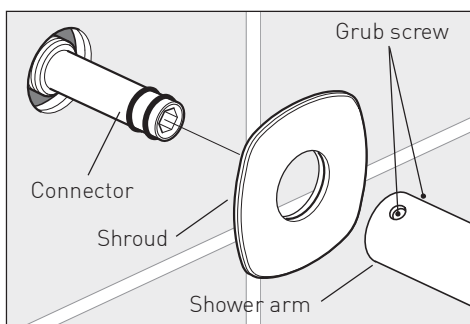
Use PTFE tape on the connector.



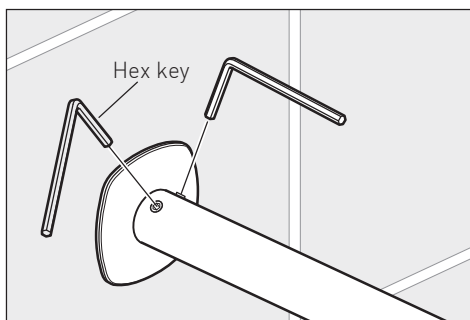
Screw in the connector and tighten using a 8mm hex key (not supplied) in the end of the connector.



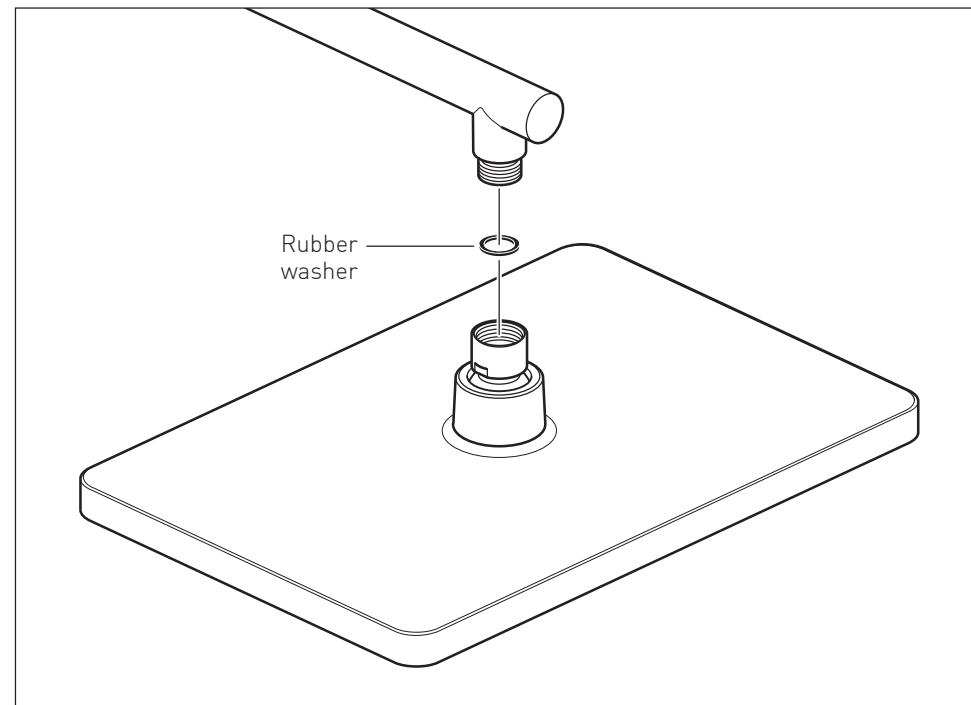
Fit the shroud onto the arm and carefully slide the shower arm over the connector and against the wall, make sure that the outlet on the end of the shower arm is pointing downwards and the grub screws are on top.



Tighten the grub screw using the hex key.



Installation



Shower head

Place a rubber washer into the shower head. Screw the shower head onto the shower arm.

Operation

The shower head can be tilted in the required direction.

Cleaning Instructions

The coating on this product is finished to the highest standard. Due care needs to be taken to ensure the appearance is retained.

We recommend cleaning all products with a soft damp cloth ONLY and advise strongly against the use of all aggressive/corrosive cleaning products i.e. powders and liquids. If these instructions are not followed, this may invalidate your guarantee in the event of a problem occurring.

Guarantee

All VADO products come with a 2 year guarantee as standard. Within this guarantee period, VADO will provide replacement parts and any labour **[SEE NOTE 1]** needed to complete the product repair.

This standard guarantee may be extended by registering your product on our website at: <https://www.vado.com/support/guarantee>.

Once registered, this product will have a 15 year (2 years parts and labour plus 13 years parts only) or a 10 year (2 years parts and labour plus 8 years parts only) guarantee dependant on the finish.

Chrome (CP) = 15 years

Matt White (MW) , Matt Black (MB) , Satin Brass (SBR) = 10 years

Guarantee Conditions

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- The defect is not due to accident, misuse, neglect, or incorrect/inappropriate repair (other than by VADO or VADO authorised agents) or damage caused by foreign objects or substances.
- The extended guarantee is only available if you have completed the guarantee registration process.

This can be done via the VADO website or via telephone to our Aftersales team.

Registration must be completed within 6 months from the date of purchase. Under the extended guarantee period VADO will, at its option, offer to supply any replacement product (or component part) assessed to be defective **[SEE NOTE 2]**.

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- Mould, Mildew build up, the effects of limescale and corrosion are not covered under this guarantee.
- This guarantee does not cover damage and/or malfunction caused by inappropriate cleaning (please refer to our recommended care guidelines).

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The guarantee does not extend to any consequential loss or damage.

After repair or replacement, the relevant guarantee period will be calculated from the original date of purchase.

VADO operates a policy of continuous product development and therefore reserves the right to change the product, packaging and documentation specifications without notice.

In situations where like-for-like replacements are not possible, VADO will endeavour to provide the closest alternative. E&OE.

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Tel: 01934 745163 Email: aftersales@vado.com



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CAMEO

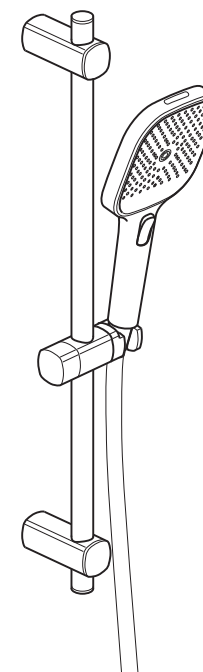
Installation Guide
Multi function slide rail shower kit



This instruction booklet covers model:

CAM-MFSRK
(All finish options)

CAM-MFSRK



! Cleaning Instructions

If these instructions are not followed, your guarantee may be invalidated.

- Clean only with water and a soft damp cloth
- Do not use any aggressive/corrosive cleaning products
- Do not use abrasive cloths

Due care needs to be taken to ensure the appearance is retained.
For further cleaning instructions, please consult this product's user guide.

Keep for future reference

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Wedmore Road, Cheddar, Somerset, England BS27 3EB
tel 01934 744466 fax 01934 744345
aftersales@vado.com
www.vado.com



Important - please read

Please read these instructions carefully before starting installation and keep for future reference.

Remove all packaging and check the product for missing parts or damage before starting installation.

Any alterations made to this product and fittings may infringe water regulations and will invalidate the guarantee.

The installation must comply with all Local/National Water Supply Authority Regulations/Byelaws and Building and Plumbing Regulations.

To be installed in accordance with BS EN806.

We strongly recommend that you use a qualified and registered plumber.

General installation

When installed, the fitting must comply with the requirements of the Water Supply (Water Fittings) Regulations 1999 and Scottish Byelaws 2004.

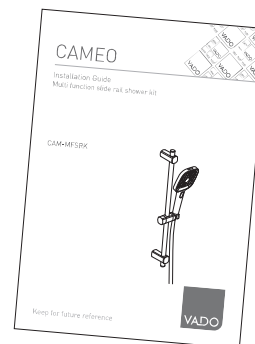
For further information, contact the Water Regulations department of your local water supplier (see the WRAS website www.wras.co.uk for details) or the Water Regulations Advisory Scheme by email (info@wras.co.uk) or telephone: 01495848454.

The fitting of an isolating valve to the inlet feed is advised for ease of maintenance.

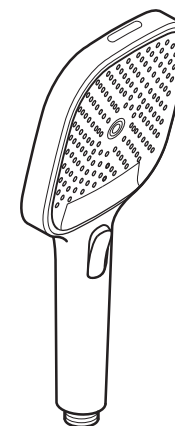
Please take great care when installing this product not to damage its surface.

Please note if installing in an enclosed environment, access should be left for servicing and maintenance. No costs relating to inadequate access can be accepted.

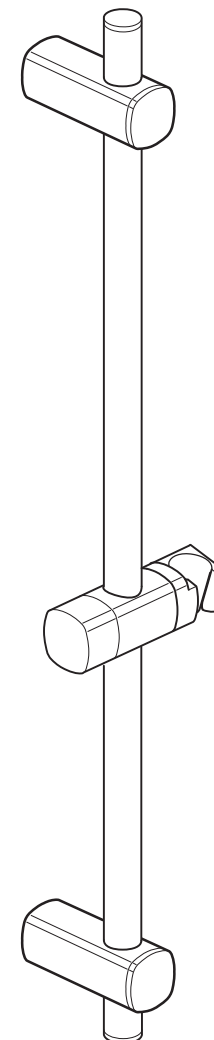
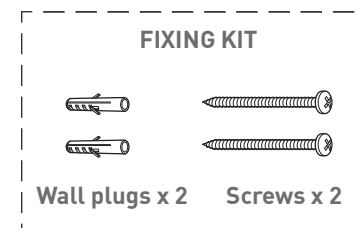
Contents of Packaging



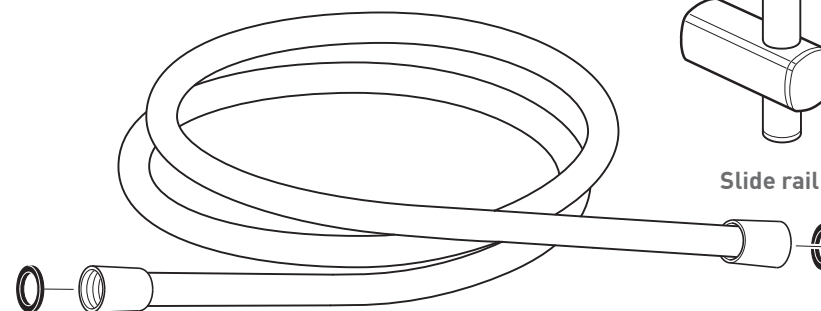
**Installation guide &
User manual**



Handset

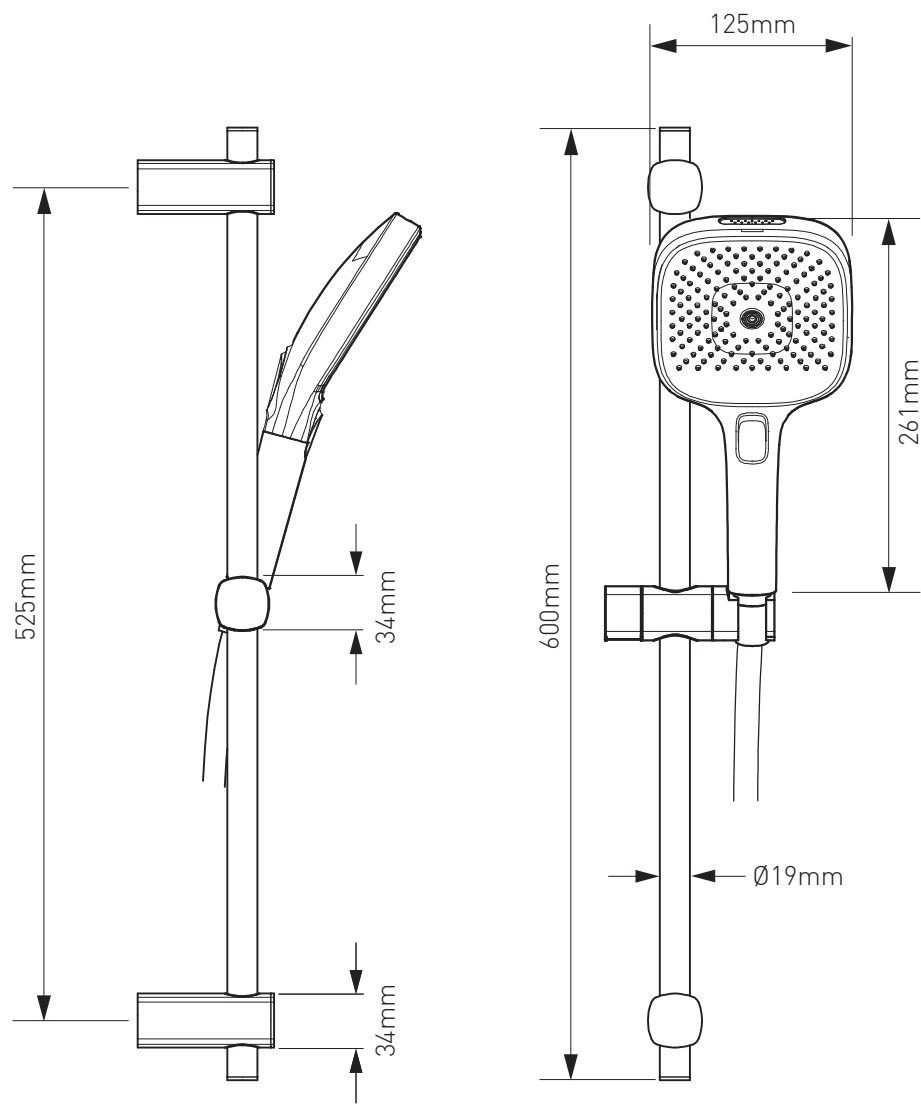


Slide rail

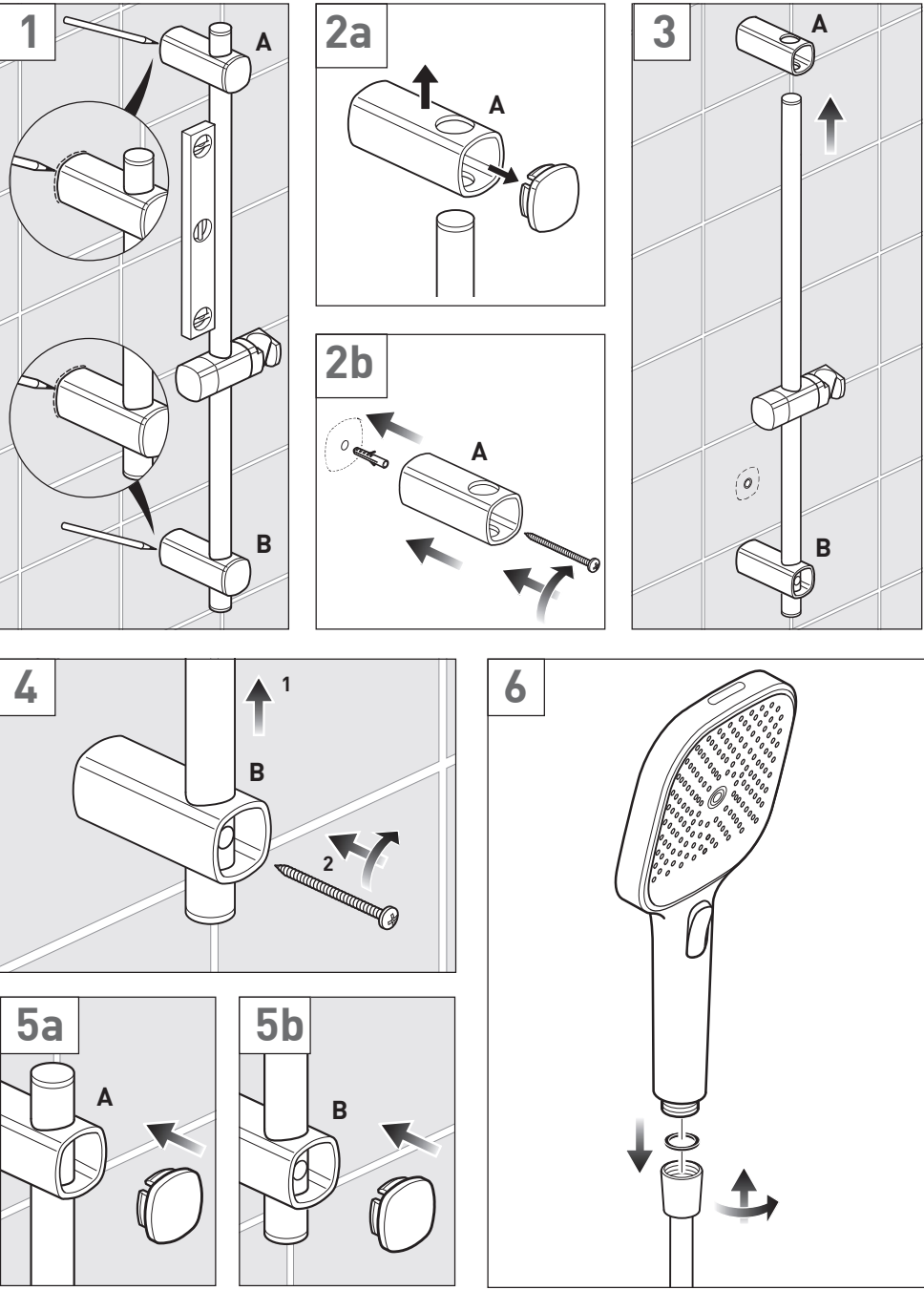


Shower hose with 2 washers

Dimensions



Installation - Quick guide

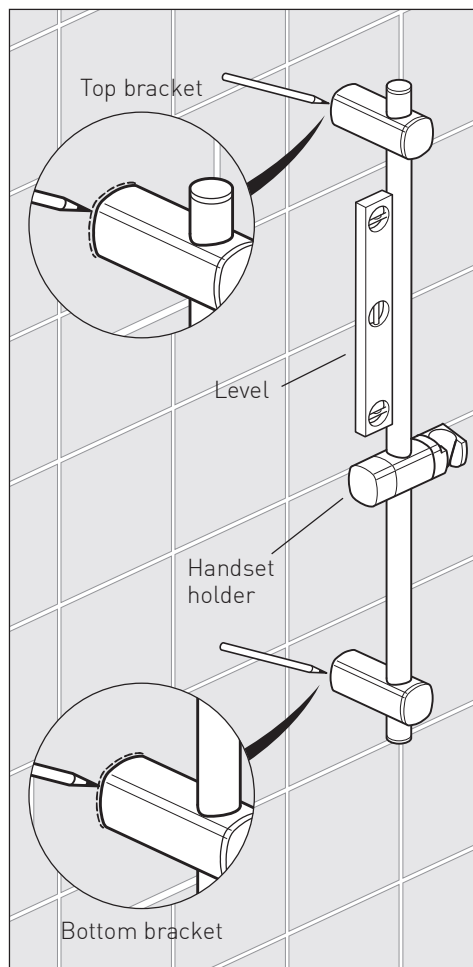


Installation

⚠ Warning! Please check for any hidden cables and pipes before drilling holes in the wall.

Position the rail on the wall, bearing in mind the different heights of people likely to use the shower.

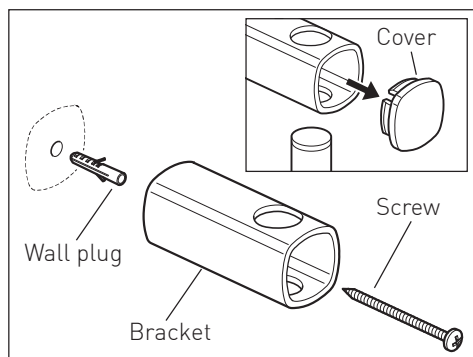
Make sure that the riser rail is vertical using a level. Mark the wall to indicate the position of both brackets and remove.



Using a 6mm drill bit for the wall plug, drill the wall at the centre of the marked positions.

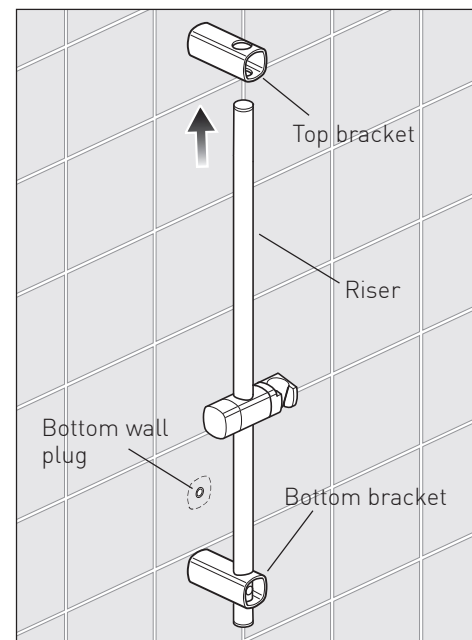
Note: If fixing through tiles use masking tape to stop the drill from slipping. Insert the plug so that its head goes beyond the tile and into the wall behind.

Remove the top bracket and take off the cover. Fix in position using the supplied wall plug and screw.

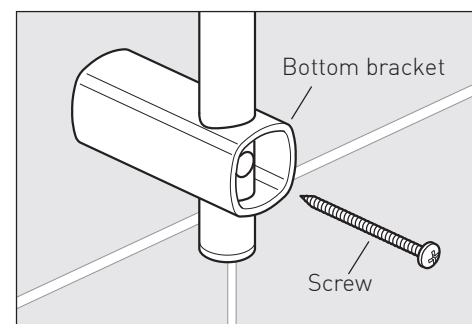


Installation

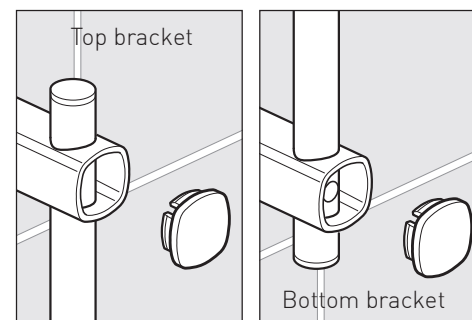
Slide the rail up through the top bracket so that the bottom bracket is at the previously marked position.



Remove the cover from the bottom bracket and insert the screw through the hole in the bracket and into the wall plug.



Re-fit the covers.



Installation

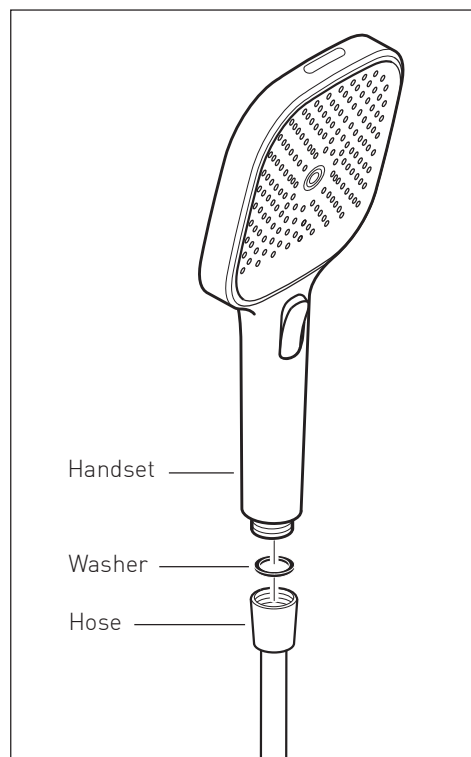
Handset

Place one of the rubber washer into the cone end of the hose and screw to the handset.

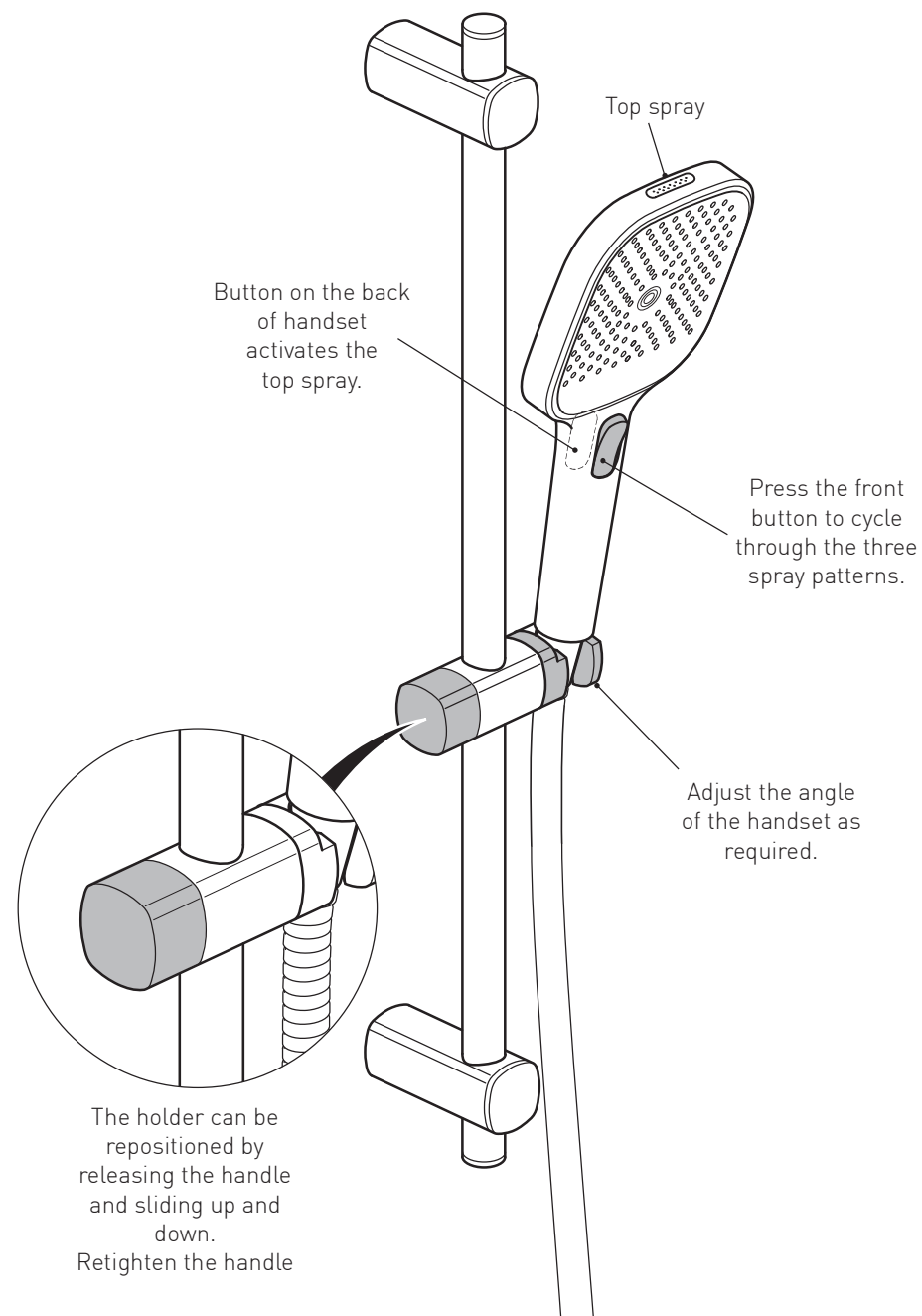
Place the handset into the holder.

Valve

Place the second rubber washer into the other end of the hose and attach it to the valve outlet.



Operation



Cleaning Instructions

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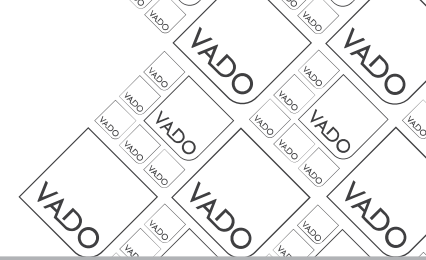
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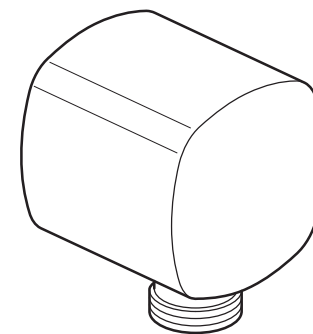
Installation Guide
Wall outlet



This instruction booklet covers these models:

CAM-OUTLET
(All finish options)

CAM-OUTLET



Cleaning Instructions

If these instructions are not followed, your guarantee may be invalidated.

- Clean only with water and a soft damp cloth
- Do not use any aggressive/corrosive cleaning products
- Do not use abrasive cloths

Due care needs to be taken to ensure the appearance is retained.
For further cleaning instructions, please consult this product's user guide.

Keep for future reference

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Important - Please Read

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Any alterations made to this product and fittings may infringe water regulations and will invalidate the guarantee.

The installation must comply with all Local/National Water Supply Authority Regulations/Byelaws and Building and Plumbing Regulations.

To be installed in accordance with BS EN806.

We strongly recommend that you use a qualified and registered plumber.

General Installation

When installed, the fitting must comply with the requirements of the Water Supply (Water Fittings) Regulations 1999 and Scottish Byelaws 2004.

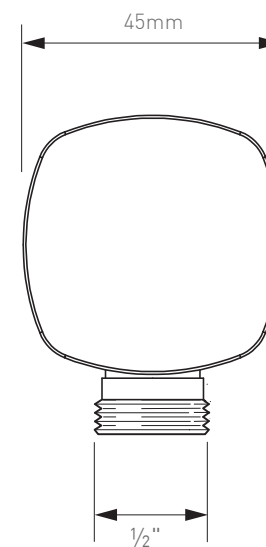
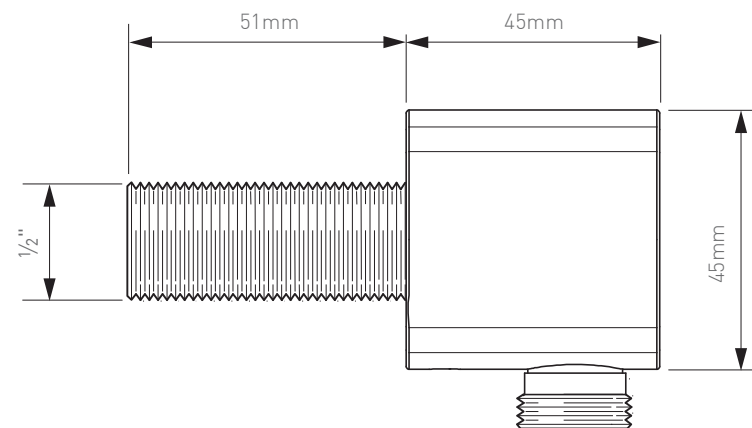
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Please take great care when installing this product not to damage its surface.

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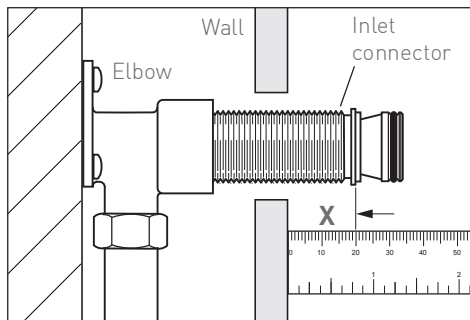
Dimensions



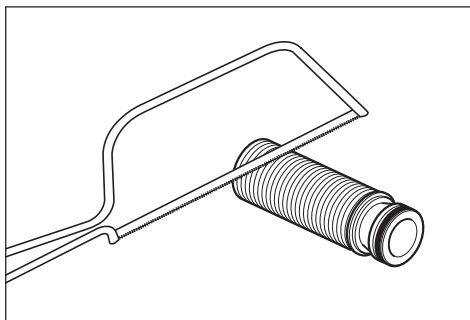
Installation

Prepare the wall with a ½" connector (a fixed elbow is shown on the right, this is not supplied). Connect the water supply from the valve. Check for leaks, and finish off the wall.

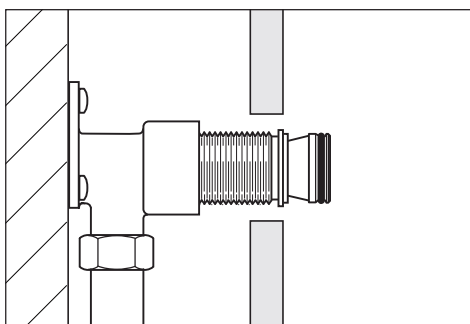
Screw in the supplied inlet connector. Take the measurement from the finished wall surface to the outside shoulder of the connector (**Xmm**).



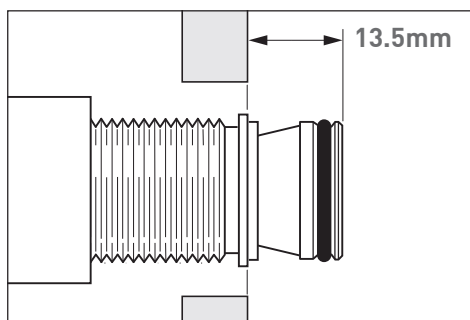
Remove the connector from the elbow. If necessary carefully cut the bottom of the connector by this measurement (**Xmm**). Remove any burrs.



Check the length of the connector by screwing into the elbow.

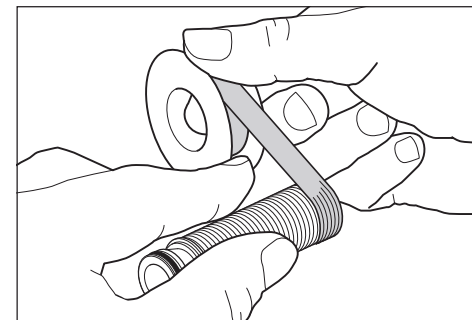


The distance between the wall and the end of the connector should be 13.5mm. Remove the connector.

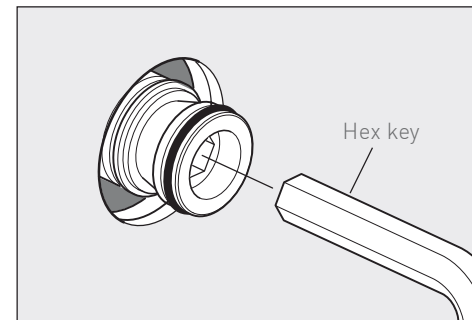


Installation

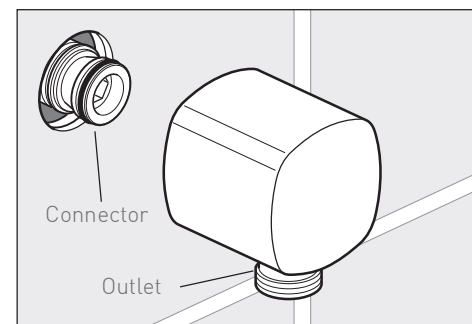
Use PTFE tape on the connector.



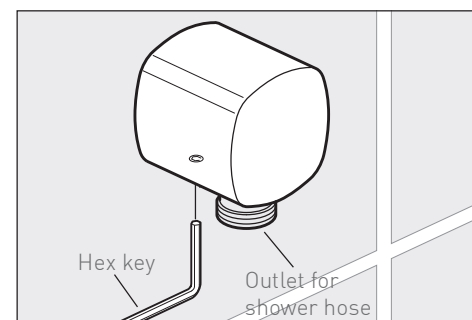
Screw in the supplied connector and tighten using a hex key in the end of the connector.



Carefully slide the outlet over the connector and against the wall, make sure that the outlet is pointing downwards.



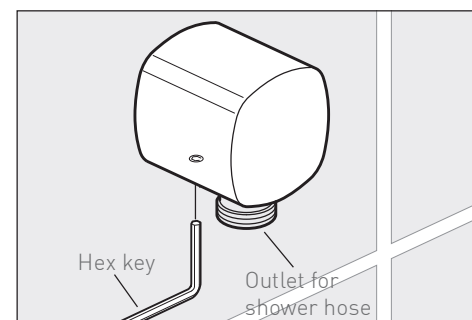
Tighten the grub screw on the underside using a hex key.



Shower hose connection

Make sure there is a rubber washer in the nut end of the shower hose and screw onto the outlet (not shown).

Place the handset into the holder using the cone end of the shower hose.



Cleaning Instructions

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