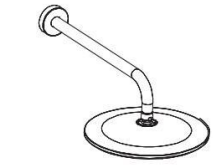


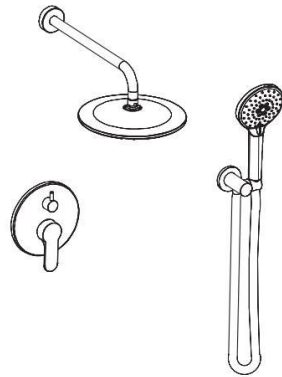
Installation Manual



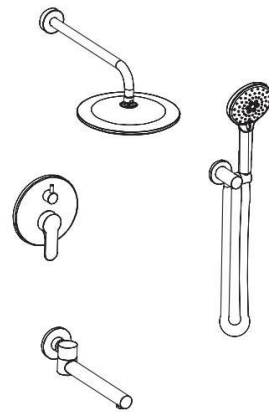
Single Function Type



Dual Function type



Dual Function type



Three Function Type

**Single/dual/three
pressure balance concealed shower system**

INDEX

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IAPMO RESEARCH AND TESTING, INC.

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CERTIFICATE OF LISTING



IAPMO Research and Testing, Inc. is a product certification body in which its product certification system includes inspection and testing of samples taken from the supplier's stock or from the market or a combination of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and/or warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics below and is not to be construed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

Issued To:

KAIPING ZHUGE SANITARY WARE CO., LTD

AREA A AND AREA B, 2ND FLOOR, 3RD FLOOR, BLOCK 3, NO. 5, CHENGNAN 1ST ROAD, CUIZHAN LAK KAIPING, GUANGDONG, CHINA

Product:

Plumbing Fixture Fittings

Products are in compliance with the following code(s):

**Uniform Plumbing Code (UPC®)
National Plumbing Code of Canada**

Products are in compliance with the following standard(s)

ASME A112.18.1-2018/CSA B125.1-18

File Number: 13386

Effective Date: December 2021

Void After: December 2026*

Tom Colberg
Chairman, Product Certification Committee



SAIR
Chief Technical Service Officer

*This certificate is not evidence of current listing. To verify listing status, visit the IAPMO R&T Product Listing Directory at pld.iapmo.org

This listing period is based upon the last date of the month indicated on the Effective Date and Void After Date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Production of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alteration of this certificate could be grounds for revocation of the listing. This document shall be reproduced in its entirety.

IAPMO RESEARCH AND TESTING, INC.

CERTIFICATE OF LISTING



Issued To: KAIPING ZHUGE SANITARY WARE CO., LTD Effective Date: December 2021
 File Number: 13386
 Product: Plumbing Fixture Fittings Void After: December 2026

This certificate is not evidence of current listing. To verify listing status, visit the IAPMO R&T Product Listing Directory at pld.iapmo.org

Identification:

Plumbing supply fittings shall be marked with the manufacturer's recognized name, trademark, or other mark or, in the case of private labeling, the name, trademark or other mark of the customer for whom the fitting was manufactured. The marking shall be accomplished by use of a permanent mark or by placing a permanent label on the product. Markings on plumbing supply fittings shall be visible after installation.

Showerheads and hand-held showers shall be marked with the manufacturer's specified maximum flow rate, in L/min and gpm.

Kitchen, lavatory, and metering faucets shall be marked with the manufacturer's specified maximum flow rate, in L/min and gpm or L/cycle and gpc.

Single-handle and single-control bath and shower mixing valves shall have their temperature control settings identified alphabetically, numerically, or graphically.

High-efficiency commercial pre-rinse spray valves shall be marked with the manufacturer's specified maximum flow rate, in L/min (gpm).

Listed products shall bear the cUPC® certification mark.

Packaging for plumbing supply fittings shall be marked with the manufacturer's name, trademark, or other mark as well as the model number or, in the case of private labeling, the name, trademark, or mark of the customer for whom the fitting was manufactured as well as the model number.

Packaging for showerheads and hand-held showers shall be marked with the manufacturer's specified maximum flow rate and either the manufacturer's specified minimum flow rate or the statement "For use with automatic compensating valves rated at xxx L/min (yyy gpm) or less", where xxx L/min (yyy gpm) is the manufacturer's specified minimum flow rate.

Packaging for kitchen, lavatory, and metering faucets shall be marked with the manufacturer's specified maximum flow rate, in L/min and gpm or L/cycle and gpc.

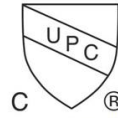
Characteristics:

Fittings may include lavatory, sink, bath & shower, lawn and sediment faucets. Plumbing fixture fittings to be installed in accordance with the manufacturer's instructions and the requirements of the latest edition of the Uniform Plumbing Code and National Plumbing Code of Canada.

Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

IAPMO RESEARCH AND TESTING, INC.

CERTIFICATE OF LISTING



Issued To: KAIPING ZHUGE SANITARY WARE CO., LTD Effective Date: December 2021
 File Number: 13386
 Product: Plumbing Fixture Fittings Void After: December 2026

This certificate is not evidence of current listing. To verify listing status, visit the IAPMO R&T Product Listing Directory at pld.iapmo.org

Models

Base Model	Description
*****	Shower set
First *	Different type of Finishes
CP	Chrome
BN	Burshed Nickel
H	Matte Black
ORG	Oil Rubbed Bronze
LSJ	Brushed Golden
QH	Gun Gray
Second *	Different type of Valve Body
T1	
Third *	Different type of Faceplate
M1	
M2	
M3	
Fourth *	Different type of Handle
B1	
B2	
B3	
Fifth *	Different type of the Shower Arm
L1	
L2	
L3	
L4	
Sixth *	Different type of Shower Heads
D1	

Installation Precautions

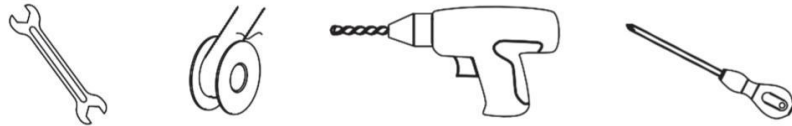
I. When you open the product packing, please check the product and accessories at first. If there is any discrepancy, please contact the company or our distributor immediately.

1. The hot and cold water supply pipe of the faucet must be properly connected.
2. When facing the front of the faucet, the hot water supply is on the left and cold water supply is on the right. Incorrect connection will cause permanent to the cartridge.
3. If the accessories to be changed without affecting the use, we will not make a prior notice.
4. The impurities in the water supply pipe must be cleared before installation to avoid blockage.
5. The water pressure of the faucet is 0.05MPa-1.0MPa(including cold water and hot water pressure)

Applicable water temperature range: 4℃ - 90℃.

II.Preparation before installation

1. Please read the installation manual carefully before installation.
2. Installation work must be performed by a professional plumber.
3. Installation tool.



III.Product reparation

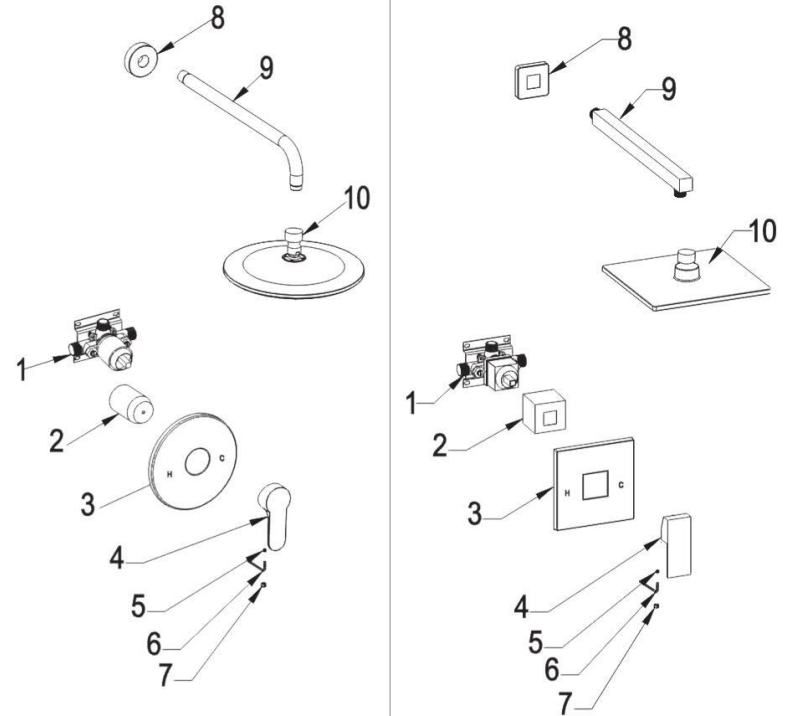
If the cartridge is worn out which cause leakage, please turn off the water source. Remove the handle, panel, and decorative cover in sequence, remove the gland with a wrench, then take out the cartridge and copper sleeve.

IV.Clearance and Maintenance

In order to keep the faucet appearance smooth and good performance, please follow the below steps to clean and maintain the faucet.

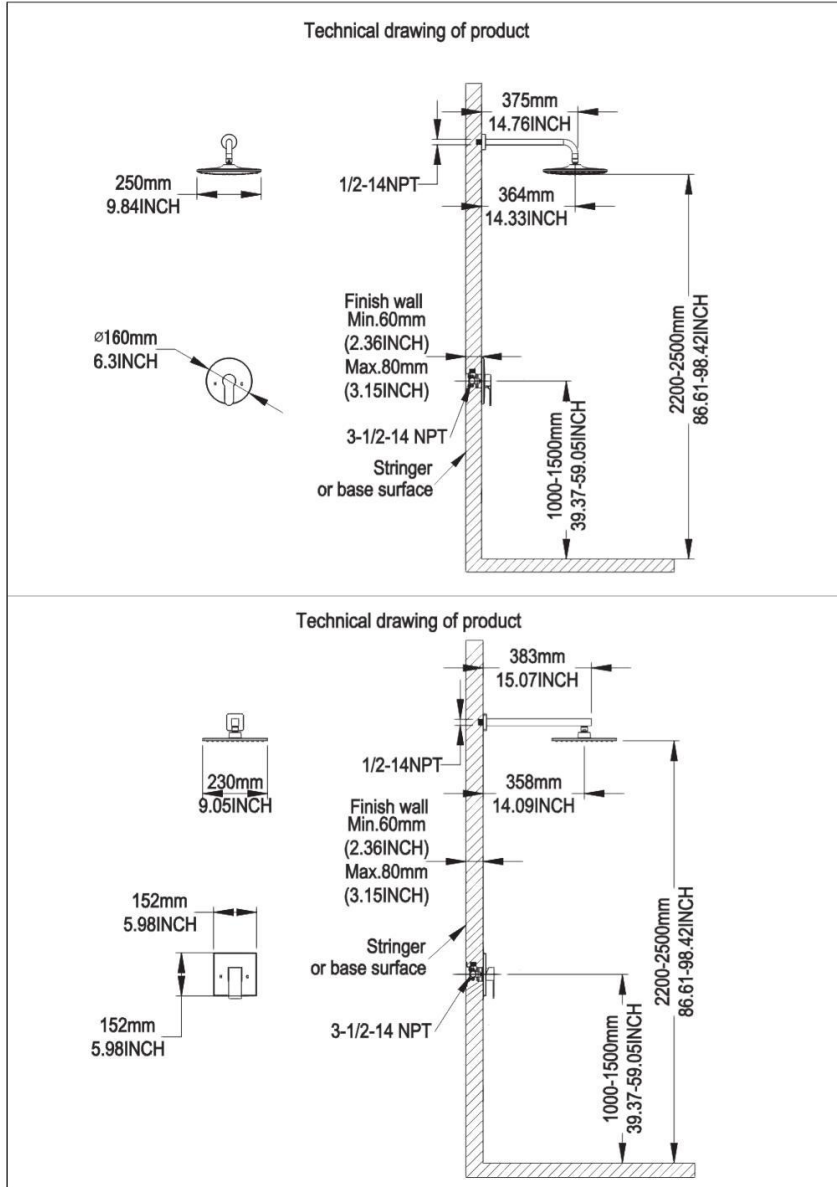
1. Clean with water and dry with a soft cotton cloth.
2. Use a mild liquid and a colorless glass cleaner to remove surface dirt and scale, also you can use the cleaner without grinding function.
3. Do not use detergents, polishing tools, abrasive cloth, paper towels or scrapers to clean the faucet.
4. Do not use acid cleaners, insoluble granular detergents, soaps, etc to clean the faucet.

Single function concealed faucet parts list



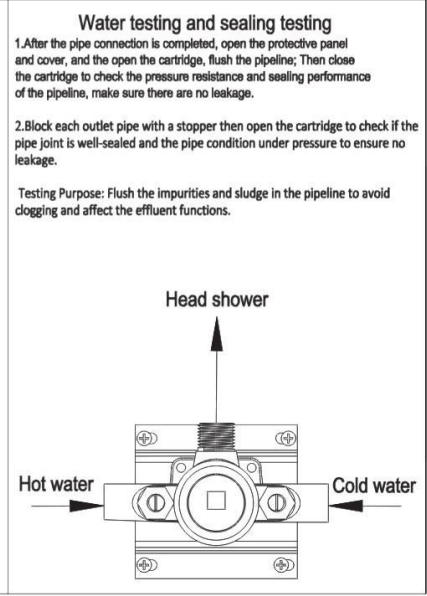
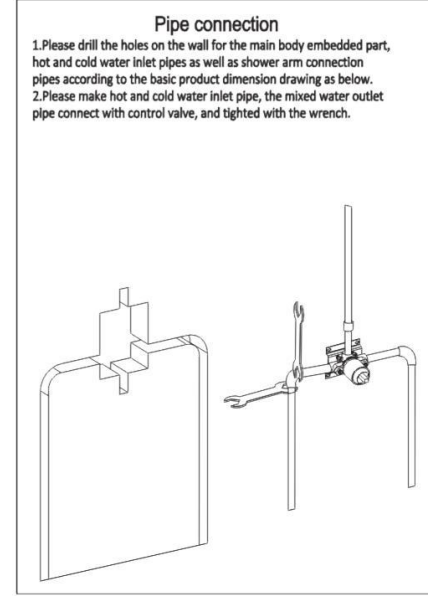
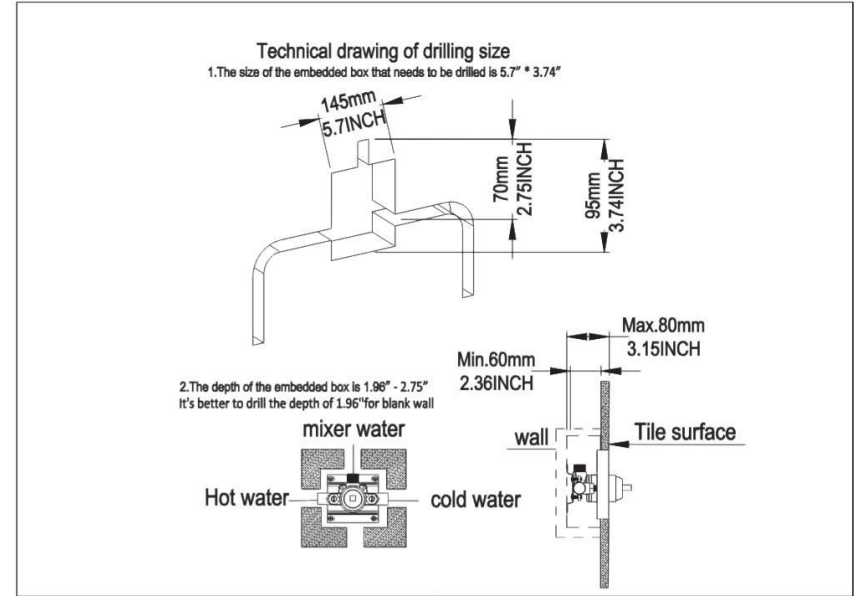
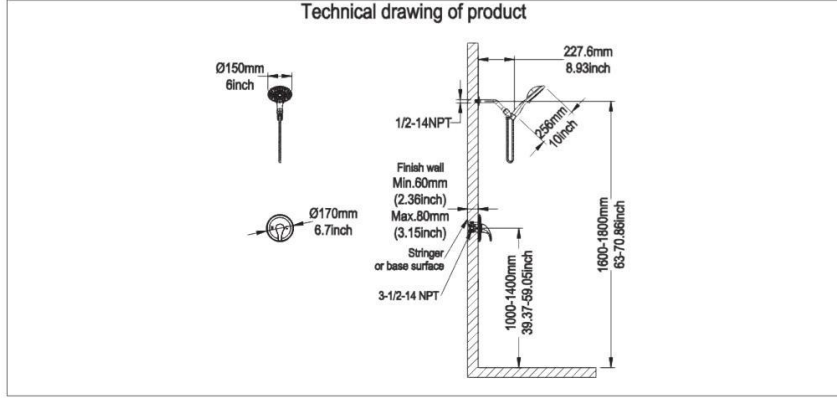
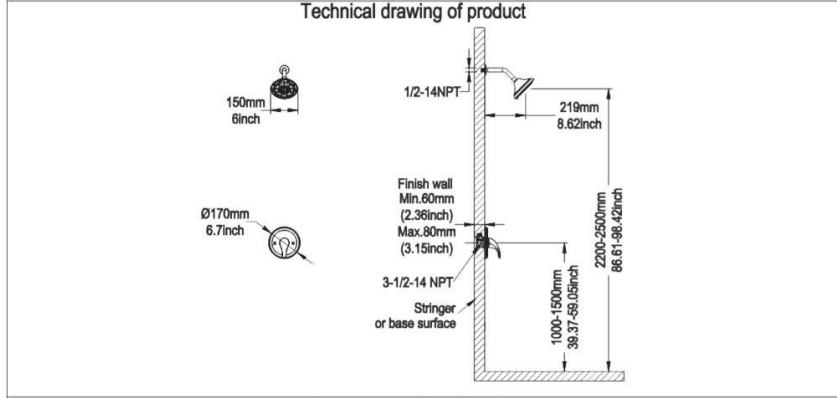
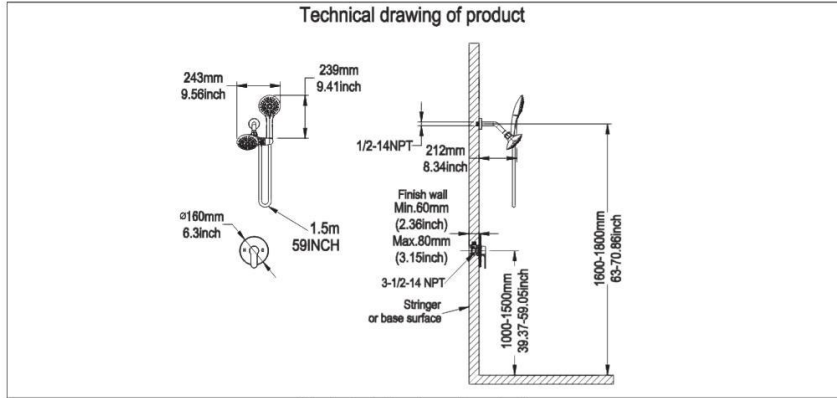
No	Description	QTY
1	Rough-in valve	1
2	Protective cover	1
3	Cover board	1
4	On/off handle	1
5	Hexagonal screw	1
6	Allen key	1
7	Decorative hat	1
8	Cover board	1
9	Shower arm	1
10	Shower head	1

No	Description	QTY
1	Rough-in valve	1
2	Protective cover	1
3	Cover board	1
4	On/off handle	1
5	Hexagonal screw	1
6	Allen key	1
7	Decorative hat	1
8	Cover board	1
9	Shower arm	1
10	Shower head	1



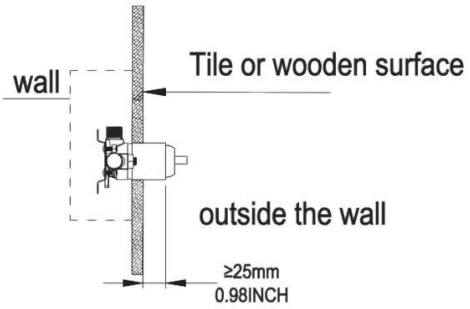
Single function concealed faucet parts list

No	Description	QTY	No	Description	QTY	No	Description	QTY
1	Rough-in valve	1	1	Rough-in valve	1	1	Rough-in valve	1
2	Protective cover	1	2	Protective cover	1	2	Protective cover	1
3	Cover board	1	3	Cover board	1	3	Cover board	1
4	Diverter handle	1	4	Diverter handle	1	4	Diverter handle	1
5	Hexagonal screw	1	5	Hexagonal screw	1	5	Hexagonal screw	1
6	Allen key	1	6	Allen key	1	6	Allen key	1
7	Decorative hat	1	7	Decorative hat	1	7	Decorative hat	1
8	Cover board	1	8	Cover board	1	8	Cover board	1
9	Shower arm	1	9	Shower arm	1	9	Shower arm	1
10	Shower head	1	10	Shower head	1	10	Shower head	1
11	Shower head	1				11	Bracket	1
12	Shower hose	1				12	Shower hose	1

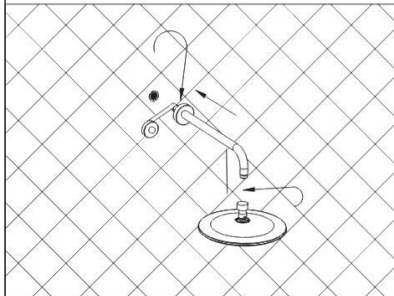


The procedure of sealing the wall

Use a parallel ruler to measure the flatness of the embedded box casing and the vertical wall surface. If the wall surface is not flat, it should be patched to ensure the embedded box casing and vertical wall angle meets at nearly ideal angle of 90, then lay the tile decoration.

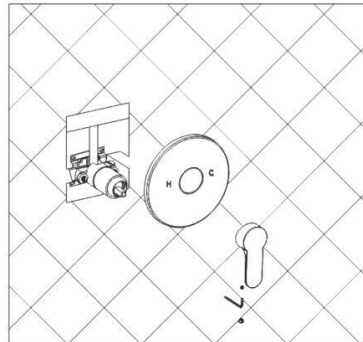


Handle shower installation

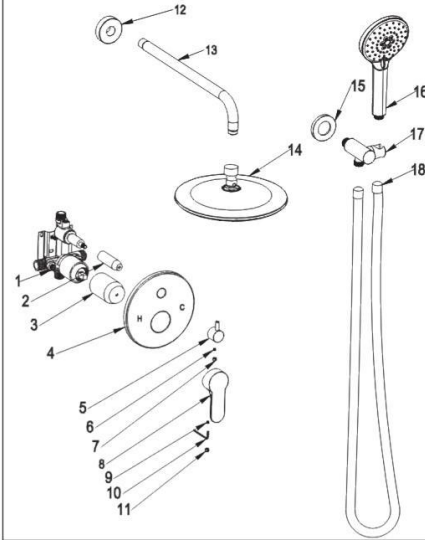


Installation of Rough-in valve

1. Take off the protective panel and cover
2. The decorative panel and the handle are connected to the control valve as shown below sequence

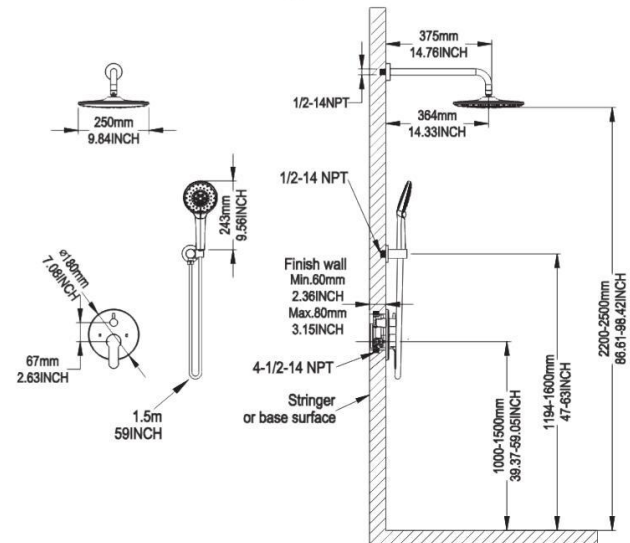


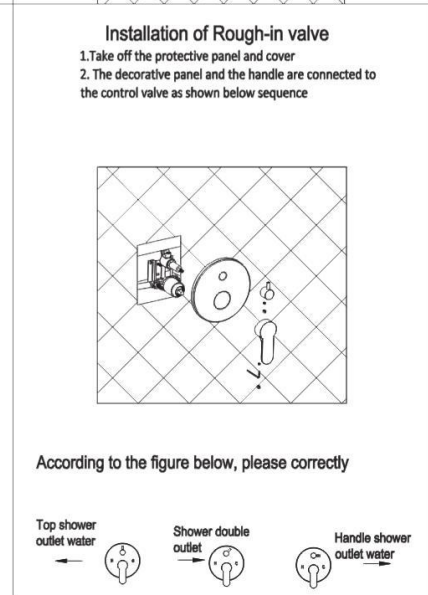
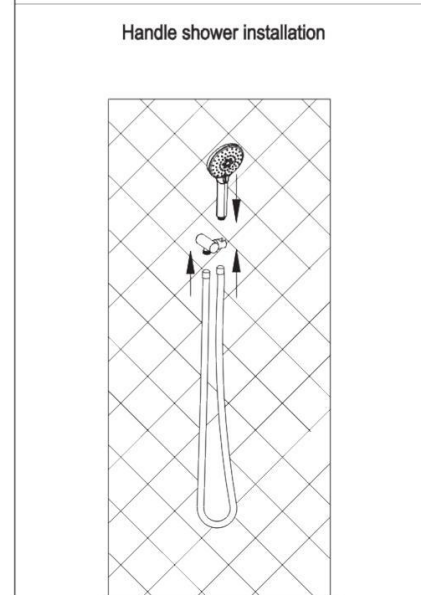
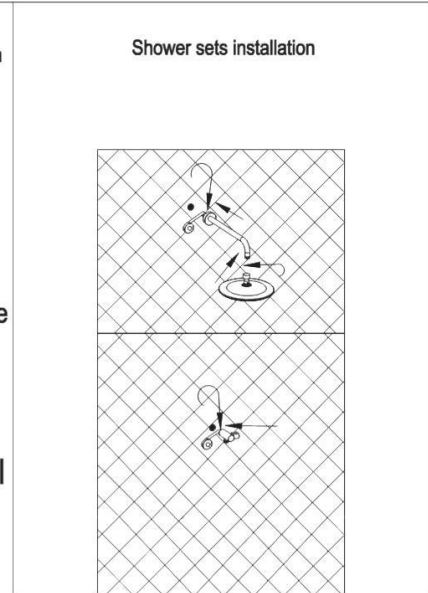
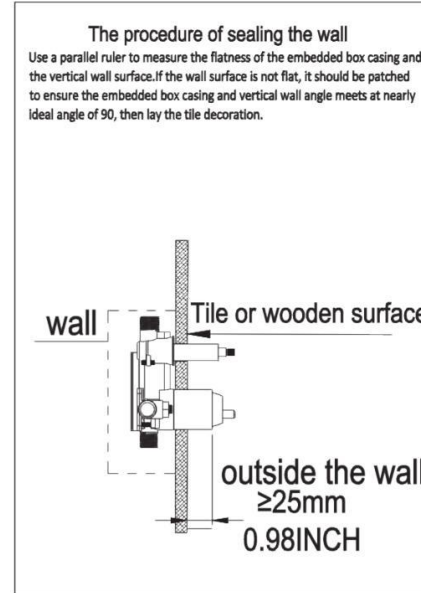
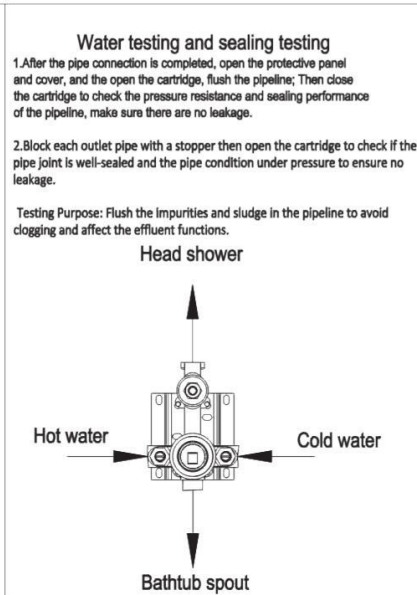
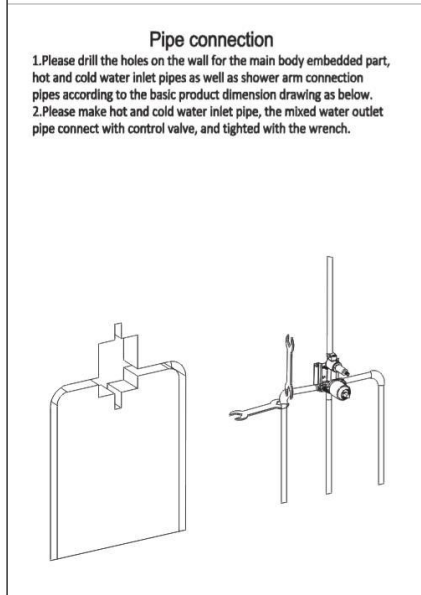
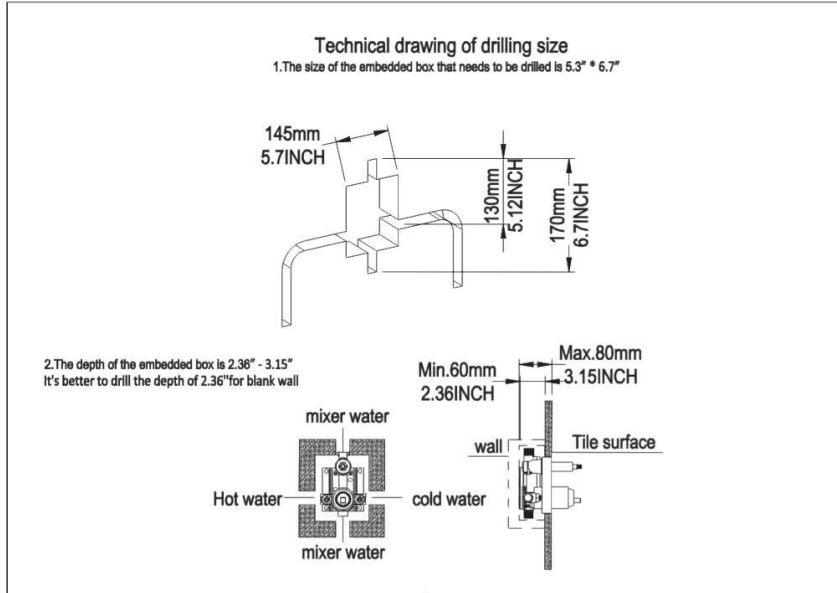
Dual function concealed faucet parts list



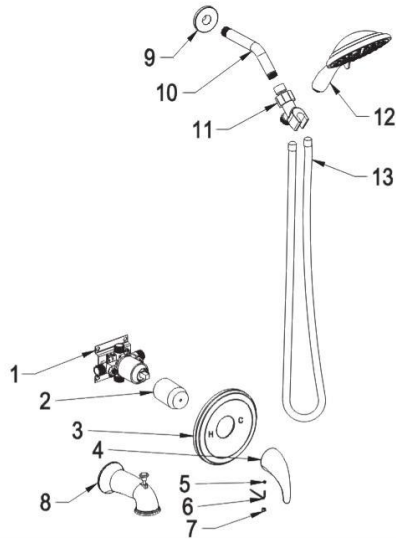
No	Description	QTY
1	Rough-in valve	1
2	protective cover	1
3	protective cover	1
4	cover board	1
5	diverter handle	1
6	Hexagonal screw	1
7	Decorative hat	1
8	on/off handle	1
9	Hexagonal screw	1
10	Allen key	1
11	Decorative hat	1
12	cover board	1
13	shower arm	1
14	shower head	1
15	Wall covering	1
16	handle shower	1
17	Bracket	1
18	shower hose	1

Technical drawing of dual function



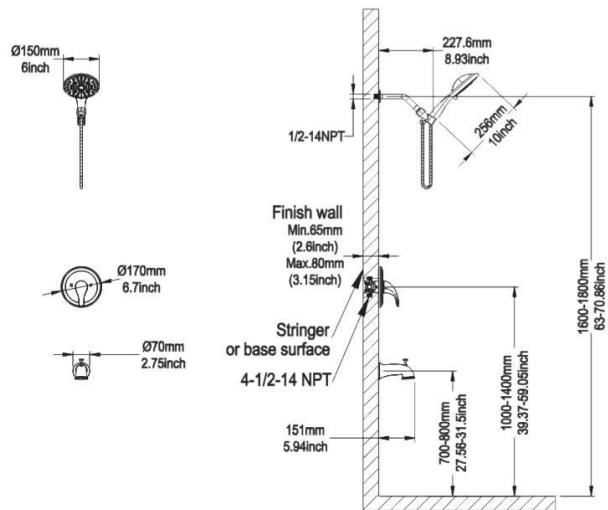


Dual function concealed faucet parts list



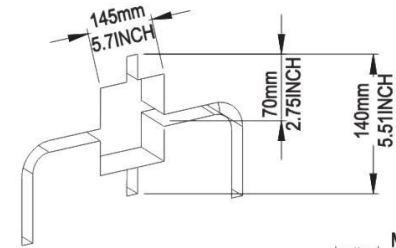
No	Description	QTY
1	Rough-in valve	1
2	Protective cover	1
3	Cover board	1
4	Diverter handle	1
5	Hexagonal screw	1
6	Allen key	1
7	Decorative hat	1
8	Bathtub spout	1
9	Cover board	1
10	Shower arm	1
11	Bracket	1
12	Shower head	1
13	Shower hose	1

Technical drawing of product

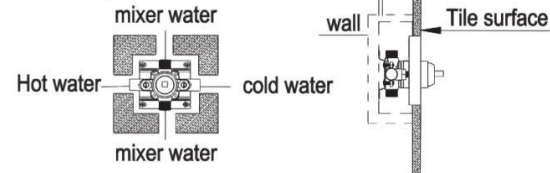


Technical drawing of drilling size

1. The size of the embedded box that needs to be drilled is 5.7"×5.51"

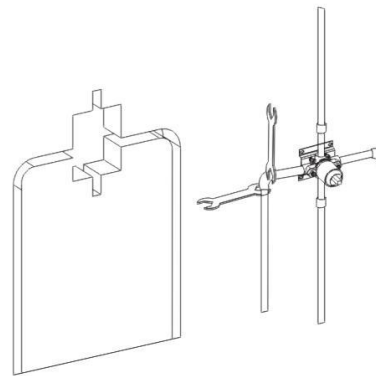


2. The depth of the embedded box is 2.6"-3.15"
It's better to drill the depth of 1.96" for blank wall



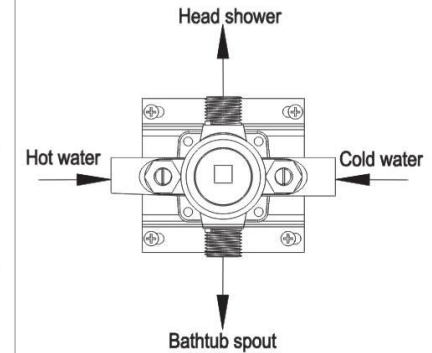
Pipe connection

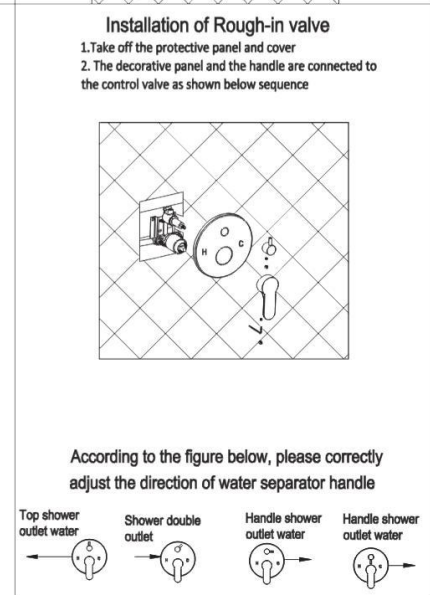
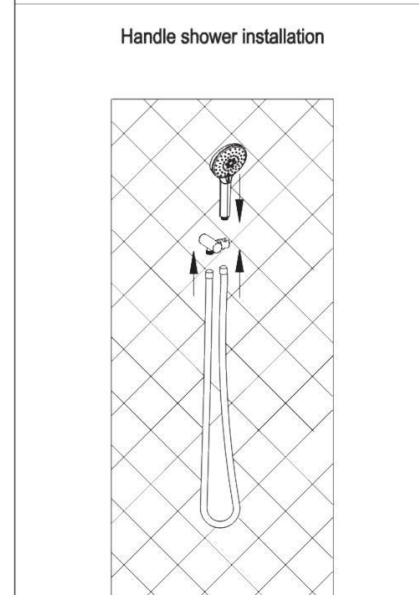
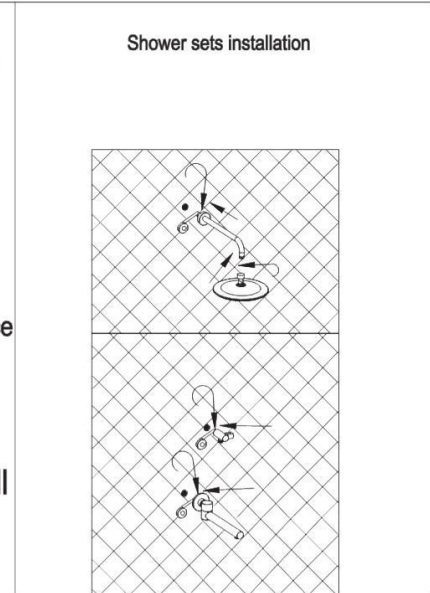
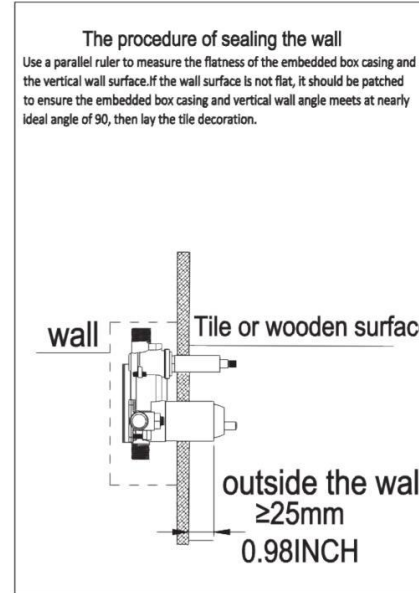
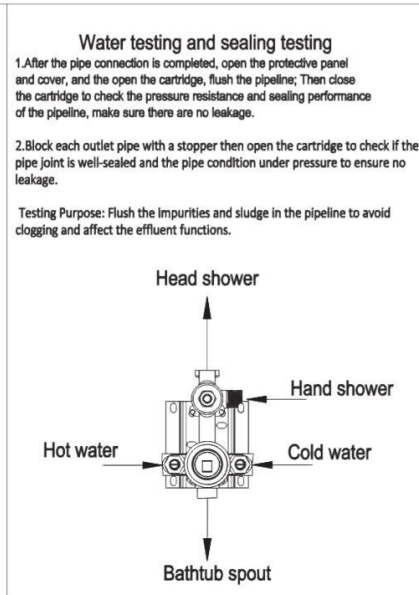
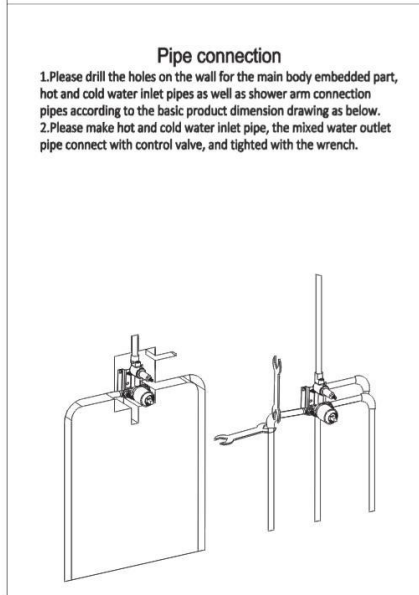
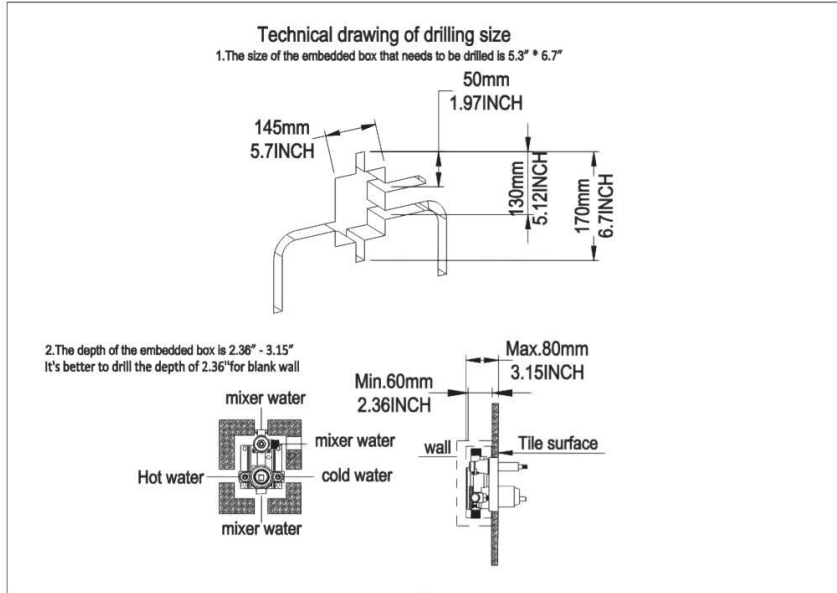
1. Please drill the holes on the wall for the main body embedded part, hot and cold water inlet pipes as well as shower arm connection pipes according to the basic product dimension drawing as below.
2. Please make hot and cold water inlet pipe, the mixed water outlet pipe connect with control valve, and tightened with the wrench.



Water testing and sealing testing

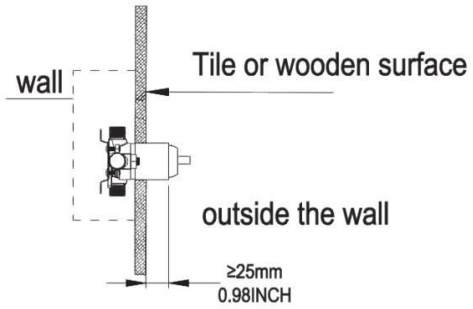
1. After the pipe connection is completed, open the protective panel and cover, and open the cartridge; then open the pipeline; then close the cartridge to check the pressure resistance and sealing performance of the pipeline, make sure there are no leakage.
 2. Block each outlet pipe with a stopper then open the cartridge to check if the pipe joint is well-sealed and the pipe condition under pressure to ensure no leakage.
- Testing Purpose: Flush the impurities and sludge in the pipeline to avoid clogging and affect the effluent functions.



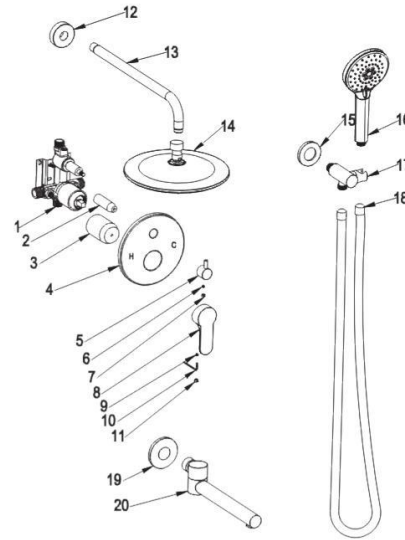


The procedure of sealing the wall

Use a parallel ruler to measure the flatness of valve body and the vertical wall surface. If the wall surface is not flat, it should be patched to ensure the valve body and vertical wall angle meets at nearly ideal angle of 90, then lay the tile decoration.

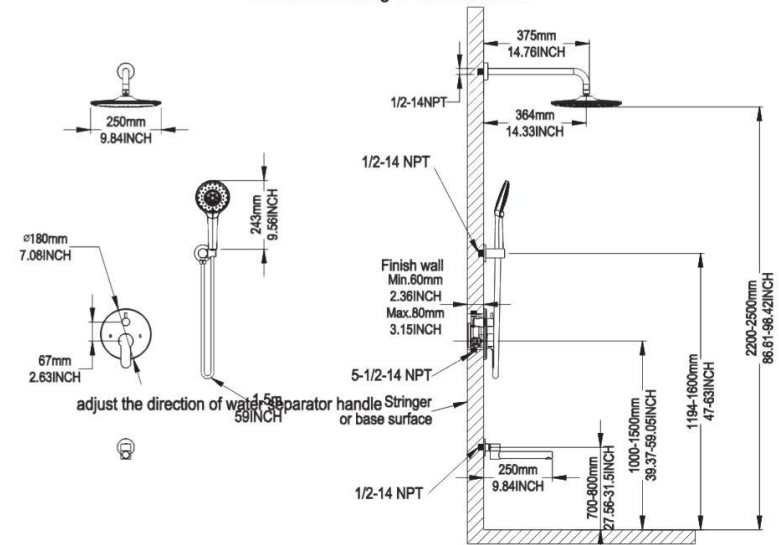


Three function concealed faucet parts list



No	Description	QTY
1	Rough-in valve	1
2	protective cover	1
3	protective cover	1
4	cover board	1
5	diverter handle	1
6	Hexagonal screw	1
7	Decorative hat	1
8	on/off handle	1
9	Hexagonal screw	1
10	Allen key	1
11	Decorative hat	1
12	cover board	1
13	shower arm	1
14	shower head	1
15	Wall covering	1
16	handle shower	1
17	Bracket	1
18	shower hose	1
19	cover board	1
20	rotatable bathtub spout	1

Technical drawing of three function



Troubleshooting		
Problem	Possible Cause	Corrective Action
Water does not shut off completely.	<ol style="list-style-type: none"> O-ring is not seated correctly or worn. Cartridge may be defective. 	<ol style="list-style-type: none"> Reseat or replace O-ring. Replace cartridge.
Leaks at waterline connection.	<ol style="list-style-type: none"> Worn or broken washer. Faucet body may be defective. 	<ol style="list-style-type: none"> Replace washer. Replace faucet(contact us for the replacement).
Leaks from handle.	<ol style="list-style-type: none"> Cartridge may come loose. Cartridge may be defective. 	<ol style="list-style-type: none"> Reseat cartridge tight. Replace cartridge.
Leaks at hose connection.	<ol style="list-style-type: none"> Hose connection is loose 	<ol style="list-style-type: none"> Tighten hose. Replace hose.
Leaks at shower valve connection.	<ol style="list-style-type: none"> Connection may come loose or not seated completely Defective shower valve inlet or outlet connector. 	<ol style="list-style-type: none"> Check connections. Replace valve body
Diverter knob does not work.	<ol style="list-style-type: none"> Diverter cartridge may be defective. 	<ol style="list-style-type: none"> Replace cartridge
LED light does not Light or noisy LED showerhead.	<ol style="list-style-type: none"> Defective LED generator. 	<ol style="list-style-type: none"> Replace LED spray head (for kitchen faucet). Replace LED threaded pipe (for separate faucet spout). Replace LED generator(for others).
Low flow.	<ol style="list-style-type: none"> Check for water pressure problems. Aerator may be dirty or clogged. 	<ol style="list-style-type: none"> Clean or replace the aerator. Remove water flow restrictor if available. Install booster or pump(if applicable).