

## Installation regulations

### Water & gas hoses

#### Installation



**CORRECT**

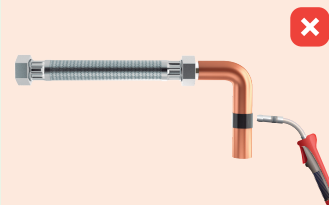


**INCORRECT**

Do not weld heat-transmitting elements (such as copper pipes) when these are in contact with the flexible hose.

Do not apply solder directly to the flexible hose. Install the flexible hose only after a cooling period, after welding.

Do not install the flexible hose in any environment that exceeds 60°C continuously.



Ensure that the product features defined in the technical data sheet cover the needs of the installation where the flexible hose is to be installed.

Make sure the correct length of hose is installed. Under no circumstances should two hoses be directly joined end to end.

All components of our hoses have been satisfactorily inspected and verified. However, damage may occur during transport, handling or storage.

### Water

#### Installation



**CORRECT**



**INCORRECT**

#### SIN TENSIÓN

#### CON TENSIÓN

Before installing the flexible hose, always check that the hood is correctly pressed. If in doubt, do not install the flexible hose.



Connection to the tap: Screw by hand (never with a tool) after checking that the O-ring is correctly positioned.

It is not necessary to use a spanner. Screw the nuts by hand (more than 1/4 turn with a tool) after checking that the O-ring is correctly positioned. Do not use tools that damage the nut.






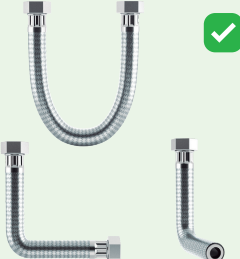
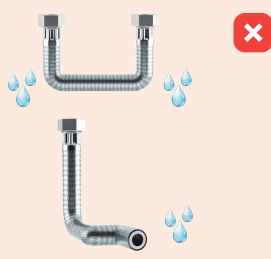

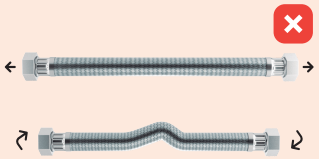

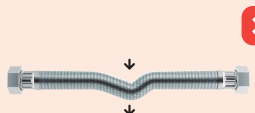

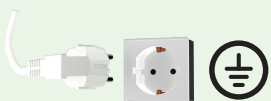


Replace the hose if it has not been used for a year. Stagnant water for long periods of time can negatively affect the product, due to evaporation of chlorine. This will lead to bad taste in the drinking water and the appearance of black particles when applying pressure.

Periodically check the condition of the flexible components and replace them if there is damage or wear on the braiding. If you detect any deterioration, such as for example in the case of corrosion, broken braiding wires, replace the product immediately.

After 3 months of non-use, clean the hose with a constant flow of clean water.

Connection to 3/8" and 1/2" cut-off wrench: Tighten by hand and tighten 1/4 turn with the appropriate wrench. Check that there is no leak. If there is, tighten again lightly with a wrench.

Water			
Installation	 CORRECTO	 INCORRECTO	
	WITHOUT TENSION	UNDER TENSION	
Flexible hoses must be installed in plain sight; they must not go through the wall or be embedded or hidden behind walls. Do not install the flexible hose in contact with plaster or concrete.			
For proper use, always install a flexible hose with an elbow or with a sufficient straight portion before bending (1.5 to 2 times the outside diameter).			
Respect the minimum bending radius indicated specifically for each diameter. Do not pinch the braided hose during installation. NOTE: The Twist allows for greater bending			
Do not install flexible hoses under tension or torsion.			
Do not apply a temporary or constant external force on the flexible hose once it has been installed (do not leave elements supported or hanging from the flexible hose).			
Prolonged contact with cleaning products, liquids used to facilitate soldering, or aggressive chemical substances can damage the surface and cause deterioration of the flexible.			
Check the grounding of appliances (air conditioning units, bathtubs, etc.) connected to flexible cables, since any electrical dispersion can cause corrosion of the flexible cable.			

Do not put the flexible hose in contact with sharp edges that may damage it.

Each time one end of the hose is disconnected and remained in the same installation, the gasket located at that end (if present) must be replaced.

# Installation regulations

## Water

### Installation tips

If the hose is used for hot water tanks, make sure that any remaining air is purged from the tank after installation, before putting it into operation for the first time.

If the fluid inside the hose freezes, it is prohibited to heat it to defrost it. Under no circumstances should hot air be applied above 70°C constantly and without interruption. Do not use sources of intense heat, such as electric resistors applied directly to the hose.

If one end of the hose is installed with fibre joints, moisten the joint beforehand to ensure watertightness.

Do not reuse braided hose components in other devices once they have been installed.

The introduction of chemicals into the water could cause damage to the installation and the core of the flexible connections. Consult TUCAI's technical department to determine the compatibility of chemical additives with the materials of your installation.

The water transported through Tucai flexible connections must comply with the following characteristics:









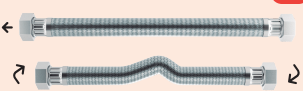

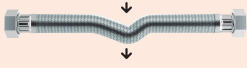

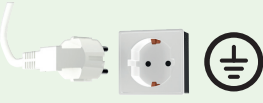
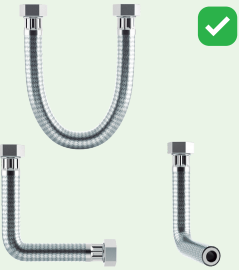
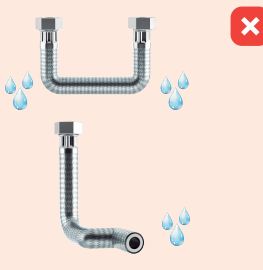
- The pH of the water must be between 6 and 8. The water must be free of chlorites, chlorides and ammonium compounds, all of which are potentially corrosive and harmful to materials in contact with water.
- Only add additives that maintain the neutral pH of the water
- Mineral oil or amine type additives should never be used.
- Failure to comply with these warnings could contaminate the water and expose the installation to irreparable deterioration.
- For use inside buildings only, do not expose the flexibles to direct sunlight.
- Do not install the flexible near ozone sources.
- Before use, any installation with flexible hose components must be tested at 1.5 times the service pressure. Once the connector has been installed, check the installation to identify a possible leak.
- Consult TUCAI's Technical Department for special applications outside the intended use.

### Thermal insulation of flexible connections

In the event that you must install thermal insulation on the flexibles, make sure to use only the shell type with self-adhesive insulation. Any other type of thermal insulation is not allowed to be used, since it would imply using other adhesives (other than the one already provided by the self-adhesive shell insulation type) that are specifically prohibited because they could cause irreparable damage to the braid of the flexible.

In the event that you must install thermal insulation on the flexibles, make sure to strictly comply with the Installation Manual, and the advice and warnings indicated by the insulation manufacturer. Under no circumstances should a flexible hose with galvanized steel braid be insulated.

Consult the latest version of the recommendations, as well as the specific installation manual for each gas product at [www.tucai.com](http://www.tucai.com) or in the QR located at the top of page 107 and at the bottom of page 109.

Gas			
Installation	 CORRECT	 INCORRECT	
Before installing the flexible hose, always check that the all pieces are correctly pressed. If in any doubt, do not install the flexible hose.			
Flexible hoses must be installed in plain sight; they must not pass through the wall or be embedded or hidden behind walls. Do not install the flexible hose in contact with plaster or concrete.			
For proper use, always install a flexible hose with an elbow or with a sufficient straight section before bending.			
Do not install flexible hoses in tension or twisted.			
Do not apply a punctual or constant external force to the flexible hose once installed (do not leave items resting or hanging from the flexible hose).			
Prolonged contact with aggressive cleaning products or chemical substances can damage the braiding and/or the outer layer and cause the hose to burst.			
Check the ground connection of the electrical appliances (air conditioning units, bathtubs, etc.) connected to flexible hoses, since any electrical dispersion can cause corrosion of the flexible hose.			
Respect the minimum bending radius indicated specifically for each diameter.			

Periodically check the condition of the flexible components and replace them if there is damage or wear on the pipe or components. If you detect any deterioration, replace the product.

Do not use sealing gaskets other than those supplied with the hose. If the sealing gaskets are not included in the product, use PTFE tape of appropriate quality or sealing paste standardized according to UNE 60722.

Always install the flexible with the gaskets at the ends to ensure tightness.