

Recommendations for installation and use / Disclaimer

All our flexible hose assemblies are inspected. However, a damage may occur during transport, handling or storage.

- Inspect the hose assembly prior to installation for any damage, consider that a damaged hose or braid, rusted, crushed, uncrimped must not be fitted under any circumstances. If there is any doubt, do not install it.
- Check that the proper hose assembly length is being installed. Do not directly fit two hose assemblies end to end.
- Do not install hose assemblies in a stretched or twisted position. Connect fixed ends first to avoid twisting the hose.
- Thread tape, sealant or greases should not be used on flared or washer connections.
- Remember to observe the minimum bend radius listed in the chart below. Any hose assembly being bent beyond the recommended bend radius should not be installed.

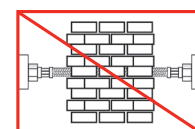
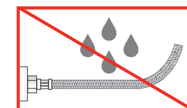
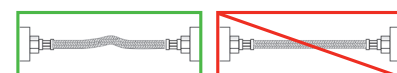
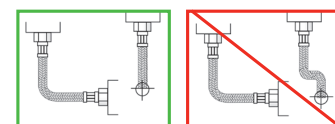
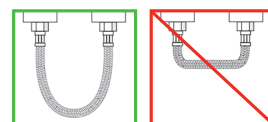
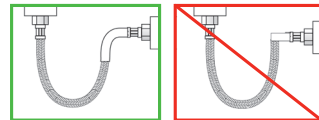
Minimum bend radius

Hose size	Minimum bend radius
1/2"	2"
3/4"	4"
1"	5"
1 1/4"	6.5"
1 1/2"	9"
2"	12"

- Do not install a hose assembly against a wall with a rugged finish that could possibly cause abrasion of the wire braiding nor against sharp corners.
- Do not install fiberglass insulation with rigid plastic outer casing as can restrict the flexibility of the hose and affect function
- Flexible hose assemblies shall not be passed through partition walls or floors. It is strictly forbidden to cement or plaster a flexible hose assembly that must always be easily accessible.
- Our EPDM rubber flexible hose assemblies are only for use with water. Compatibility varies with temperature and concentration; it is therefore essential that real compatibility is determined by the end user.
- Introduction of chemicals into the system or unit may cause damage of the inner core of the hose. Consult a water treatment specialist for chemical compatibility before using any chemical additives.

Fluid in contact with hose inner material shall have the following characteristics to prevent deterioration or malfunction:

- ▶ PH of fluid between 6.5 and 8.5.
WARNING: pH value higher than 8 in combination with hard water, or higher chloride concentration in combination with lower hardness water, are both favourable conditions to produce brass dezincification. Avoid any work condition which can produce dezincification to brass material, as this will produce a serious failure and leakage in your installation.
- ▶ Fluid must be free of:
 - Ammonium or any ammonia products
 - Chlorides and sulphates
- ▶ Any additive shall be neutral in terms of PH.
- ▶ Amino and mineral oil based additives shall not be used.
- Prolonged contact with detergents or aggressive chemicals may result in damages of the braid and cause leaks.
- Any installation with flexible hose assemblies must be tested at 1.5 times the service pressure before it is put in use. Once installed, revise the installation in search of any leak.
- For use indoor only, do not expose to direct sunlight.
- Your installation might be subject to regulation on fire resistance materials. Make sure your selected materials comply with required regulations.
- Check periodically the state of flexible hose assemblies and substitute them in case any damage of tear and wear of the braid. If any deterioration is detected such as broken wires, replace the product.



TUCAI WILL NOT BE RESPONSIBLE FOR FAILED HOSE ASSEMBLIES AND/OR SUBSEQUENT DAMAGES THAT MAY OCCUR BY FAILING TO FOLLOW THE PROVIDED INSTRUCTIONS FOR INSTALLATION AND USE.

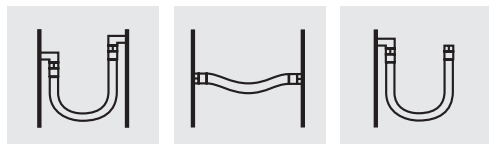
IMPORTANT

- The use of any adhesive (other than the one intended for the self-adhesive shell insulation type) is specifically forbidden. The adhesives could cause irreparable damage to your flexible connection or modify the surface and will affect the tightness between the nut and connector.
- Hoses are for static pressure applications. Shock or pulsing will reduce the life of the hose and will void the warranty. Do not exceed the pressure ratings in the table below.

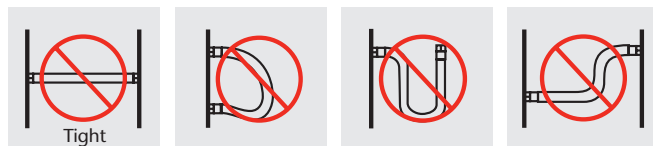
Nominal ID inches	Max Pres PSI (BAR)	Bend radius inch (mm)
1/2	500 (35)	2 (50)
3/4	450 (32)	4 (100)
1	350 (25)	5 (125)
1 1/4	300 (21)	6.5 (165)
1 1/2	300 (21)	9 (230)
2	300 (21)	12 (300)

- Hoses are for water applications. Do not use these hoses for gas applications.
- Do not twist or crush the hose, or overtighten the connection.
- Do not allow braid to come into contact with flux used for sweating copper pipe.
- The temperature range for the hose is 5°F to 230°F.
- This hose is a wear item. Routine inspections are required. Consider flexible all metal hose where service or inspection may be difficult.
- Do not solder the Sweat Adapter while it is Connected to the hose.
 - ▶ Always solder the Sweat side first,
 - ▶ Allow it to cool, and
 - ▶ Only then, make the connection by threading the hose swivel end to the adapter.

RIGHT



WRONG



WARNING

INSPECT THE INSTALLATION PERIODICALLY IN ORDER TO IDENTIFY POSSIBLE DAMAGES OR LEAKS.

- Replace the flexible hose in case of any deterioration is detected such as broken wires or any other damages.
- Contact with chlorine/chloride products or aggressive chemicals may damage the outer braiding and cause leaks.
- Use non-corrosive fluids only
- Don't overtighten the end fittings.

It is essential that all warnings shown on the labels are followed when installing the flexible hose.

Hose Assemblies must not be subjected to improper installation or exposure to high humidity, corrosive chemicals, cements, solvents when stored. They should be protected from flux and solder drips and be installed in a manner that allows easy inspection and replacement.

Failure to follow the Installation, Operation and Maintenance recommendations could result in product or property damage. Read the last section for basic operating instructions. Hoses are designed for Hydronic heating and cooling service only, not for gas or steam applications.