



# RECOMMENDATIONS FOR USE OF THE HOSES AND TECHNICAL FORM

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## 1 Recommendations for fitting IFT hoses between 2 fixed points



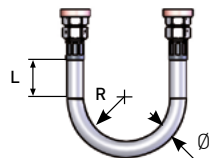
GOOD

BAD

For all assemblies, the correct length involves:

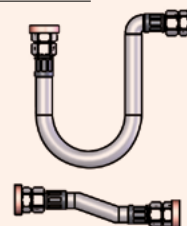
- $R \geq 6 \varnothing$  (bending radius)\*
- $L = 4$  Diameter (straight run after each end)

\* Take into account the minimum bending radius of the hose used.



The use of angled fittings improves the bending radius.

Keep to the minimum radius.



The length must be sufficient.

Any traction or tension on the end caps should be avoided.



Hoses must not be twisted.

- The fixed fitting must be fitted first.
- The hose must always be bent in the same plane.



Provide supports where the hose's own weight could have a detrimental effect.



The supports are different and appropriate for each location.



## 2 Tightening swivel nuts for gas threads

Our nuts are suitable for cylindrical threads only.

The seal, either via a gasket or metal-to-metal, is by simple locking in place with a spanner.

Nut tapping (inches)	"	1/8	1/4	3/8	1/2	3/4	1	1"1/4	1"1/2	2
Max torque (in N.m)	N.m	10	20	25	25	40	50	60	60	70

Tightening with a tool that could damage the nut (multi-grip pliers - pin spanner) should be avoided. A visual check after tightening is necessary. For tap connections (M8x100, M10x100, M11x100, M12x100) max torque of 8 N.m recommended.









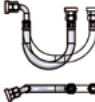
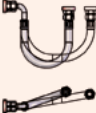
### 3 General instructions for fitting hoses

- All our hoses are inspected: however, an anomaly can always escape inspection, just as damage can occur during transport or handling.
- Also, before fitting a hose, we ask the fitter to carry out a final check. An anomalous hose (damaged fitting or braid, non-crimped/poorly crimped, oxidized or split bushing, etc.) must not be fitted under any circumstances.
- When fitting hoses, observe the minimum bending radius and avoid tensioning, pulling or twisting the hose (use 2 suitable spanners). Simple locking in place is sufficient for a gasket or metal/metal seal.
- Bushings for hoses fitted for very cold water must be stainless steel (air conditioning).
- Each hose must be fitted with at least one fitting with a swivel nut.
- Do not use the hose as an expansion coupling (when connecting fixed straight columns); in this case, use elbows and make an expansion loop after consulting us.
- Do not fit two hoses end to end.
- Do not position a hose against a rough or rough plastered wall, metal sheets or sharp-edged objects, as these could destroy the braid by friction when the taps are opened and closed.
- Our nut fittings have a cylindrical thread and are sealed at their seat (by gasket if flat seat, metal/metal if spherical-tapered seat). Adapting a male fitting or tapered thread directly to it without a union is prohibited, as is using any other type of seal: oakum, grease, etc.
- Our EPDM rubber hoses are designed exclusively for the passage of raw water or glycol solutions. In the case of water treatment, the customer must check the chemical compatibility of the components; do not use amine or mineral oil-based additives. If in doubt, contact us.
- Do not fit hoses near hot parts exceeding 100°C.
- Keep rubber and plastic hoses away from flames: blowtorches, soldering lamps, matches, etc. BEWARE OF WELDING near hoses; protect them well.
- For outdoor use (solar collectors, swimming pools, etc.) use EI (stainless steel), ETV (U.V. resistant textile) or IPO (all stainless steel) hoses if temperature >110°C.
- If the hose freezes, thaw with hot water.
- Crossings of partitions, slabs, floors must be made under a protective sheath allowing the passage of the hose equipped with its fittings. Embedding a hose in a slab or partition, even plaster, is strictly forbidden.
- All hose installations must be easily accessible, and a hose change should not take more than 15 minutes. This change must not cause any damage to the wall, partition or floor; if it does, fit in the traditional way. All hoses must be replaceable. Hoses must not be laid in the thickness of a slab without direct access to the fittings.
- All installations involving hoses must be tested at 1.5 times the operating pressure before commissioning. This pressure should be maintained for 1/2 an hour during the test.
- Beware of the risk of an iron/copper "galvanic couple": use suitable iron/iron or brass/copper fittings.
- For the construction sector, do not forget that all completed installations must be pressure-tested (in accordance with EN DTU in force).
- Sealing is the responsibility of the fitter, except for fittings with integral seals.

### 4 General transport and storage instructions

- Avoid storing hoses near an electric motor ozone source, fluorescent lamps, etc.
- Observe the bending radius on the packaging.
- If possible, leave the hoses in their original packaging before use.
- Avoid impacts.

### 5 Specific recommendations for use

Quick fittings	GOOD	BAD	Expansion loop	GOOD	BAD
Deburr the copper tube			Axial load: Use elbows and fit the hose in a U-shape.		
Insert the straight tube and push it in as far as it will go into the quick fitting.					
Place the clips between the moving part and the fixed part of the fitting.			Twist: Align the fittings and hoses.		

Can only be fitted to copper hoses complying with standard NF EN 1057

#### N.B. :

- If the crimping is not carried out in our workshops, the company carrying out the crimping is responsible for its work and must carry out checks on samples in accordance with our crimping instructions.
- Our LP hoses are marked IFT, with the nominal diameter, the date of manufacture and, where applicable, the approval name and technical evaluation number, on the crimping bushings.



IFT Groupe Omerin SAS  
Zone Industrielle - F 63600 Ambert  
Tel: +33 (0)4 73 82 32 33  
ift@omerin.com

[www.flexibles.com](http://www.flexibles.com)

The information provided on this data sheet is indicative and subject to change without notice. All hoses ordered must comply with IFT's installation recommendations, which can be viewed in its catalogue. IFT can under no circumstances be held liable for any incidents arising from inappropriate use, particularly in the case of installation not carried out in accordance with the rules of the trade and the standards in force. © Registered trademark of IFT. Drawings and photos are not contractually binding. Reproduction is prohibited without the prior consent of IFT.