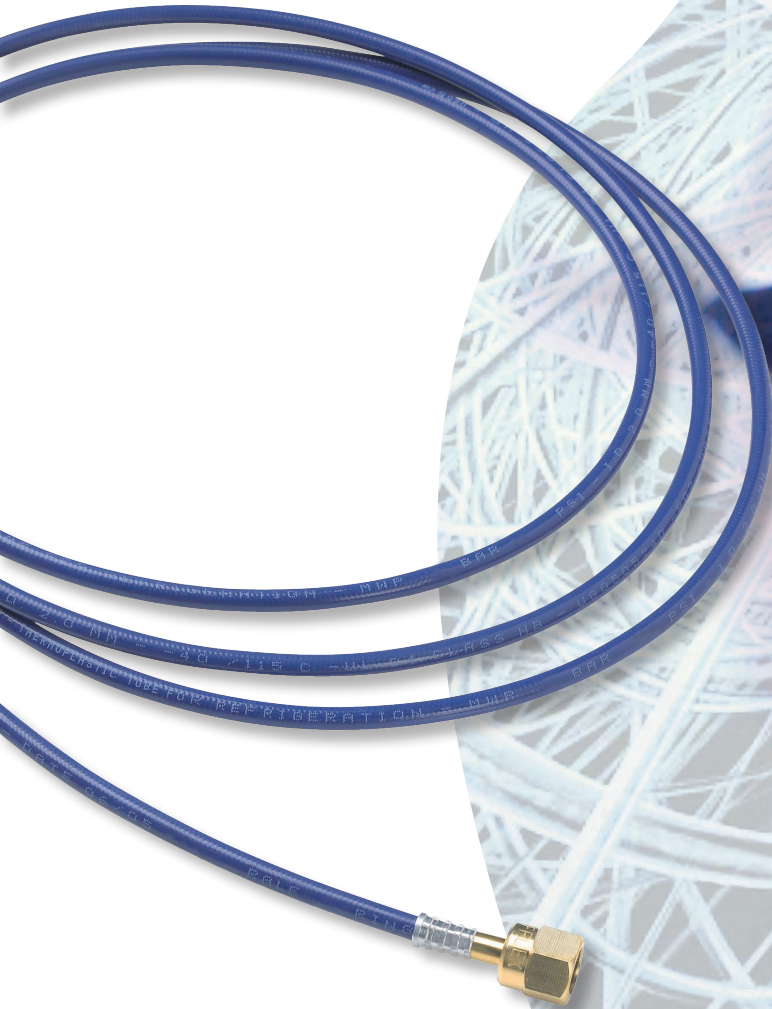




Refflex



**Refrigeration
Flexible Hoses
and Fittings**

The Flexible Connection



Why REFFLEX® ?

Refrigeration systems are subject to mechanical vibrations. These are caused by compressors, driving motors and gas pulsations, and are being transferred to equipment and pipe work.

Small bore copper lines in the first place, as these are used for connecting auxiliary equipment such as pressure switches, are very vulnerable and taking up the vibrations, may grow brittle and the result could be a broken tube and loss of refrigerant.

REFFLEX® is an extremely strong material and yet has a great vibration eliminating performance, vibrations do not come through!

Apart from that, because of the simple way of making your own flexible connection, along with the wide range of special fittings, REFFLEX® not only is safe, it is cost reducing as well.

REFFLEX® is a product of the Netherlands and is applied by contractors and OEM customers all over the world.

REFFLEX® is the most sophisticated system of flexible tubing, having excellent mechanical and thermal properties combined with a very high flexibility. It is suitable for all non-corrosive refrigerants including natural gases and the relevant special oils such as ester- and PAG.

REFFLEX® refrigeration hose has the following excellent properties:

- highly flexible, bending at extreme short radius
- types for HFC/HFO, HC and CO2
- suitable at -40°C/115°C / HP hoses: -40°C/130°C
- max.working pressure 80 bar / HP hoses 130/160 bar
- very high burst proof values (at 20° C)
 - DN-2.0 mm > 450 bar and
 - DN-5.0 mm > 400 bar
 - DN-5.0 mm CO2 > 600 bar
- absorbing all possible multidirectional vibrations
- ozone-, UV- and oil resistant
- extremely strong and reliable
- very easy to work with
- different colours of hose available
- fitting sizes 7/16" and 5/8" UNF (SAE 1/4" and 3/8"), 6.0 mm ODS and for 6.0 mm compression fittings (ERMETO®, WALPRO®)

Why REFFLEX® ?

DN-2.0 mm & DN-5.0 mm system

REFFLEX® offers a full choice of straight, angle and tee-connectors. The flared nuts are made of hot-forged brass as the best option for the refrigeration industry. Both straight and angle connectors have the swivel nut sliding backwards far enough to position a copper gasket whenever required. Access valve depressors are available for the 1/4" flare fittings.

REFFLEX® simplifies the connection of:

- Pressure switches
- Pressure transducers
- Manometers
- Water flow controls
- Fan speed controls
- Oil separators, level regulators (DN-5.0 mm)

REFFLEX® tube complies to EN-1736.



VIDEO:

Learn more about our hoses and fittings.

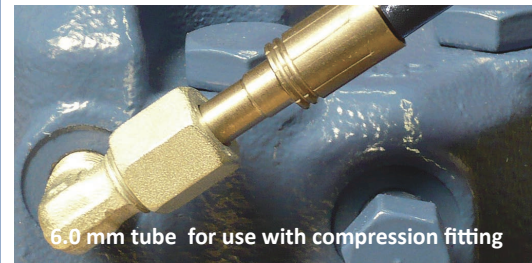
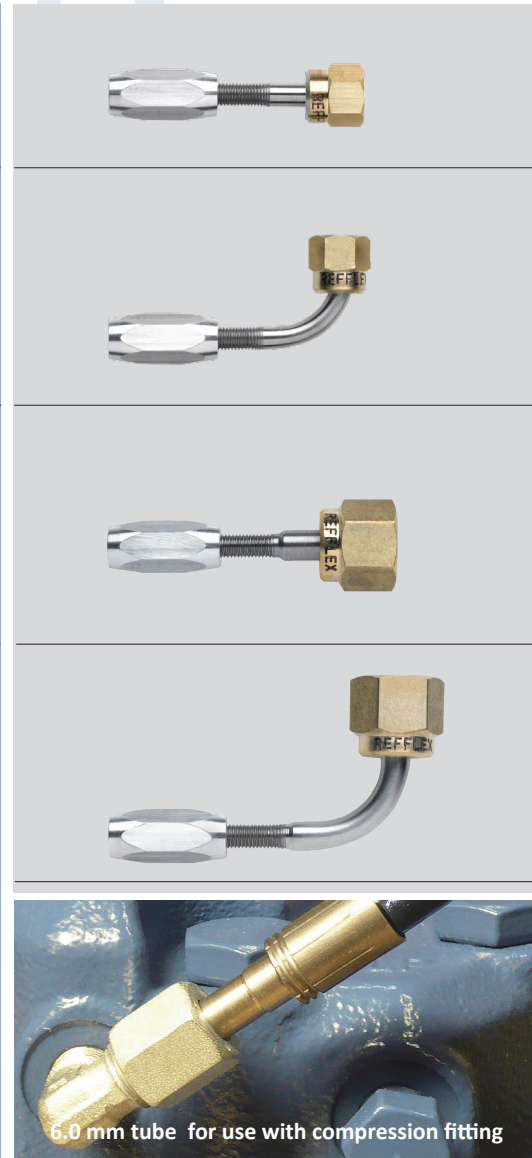
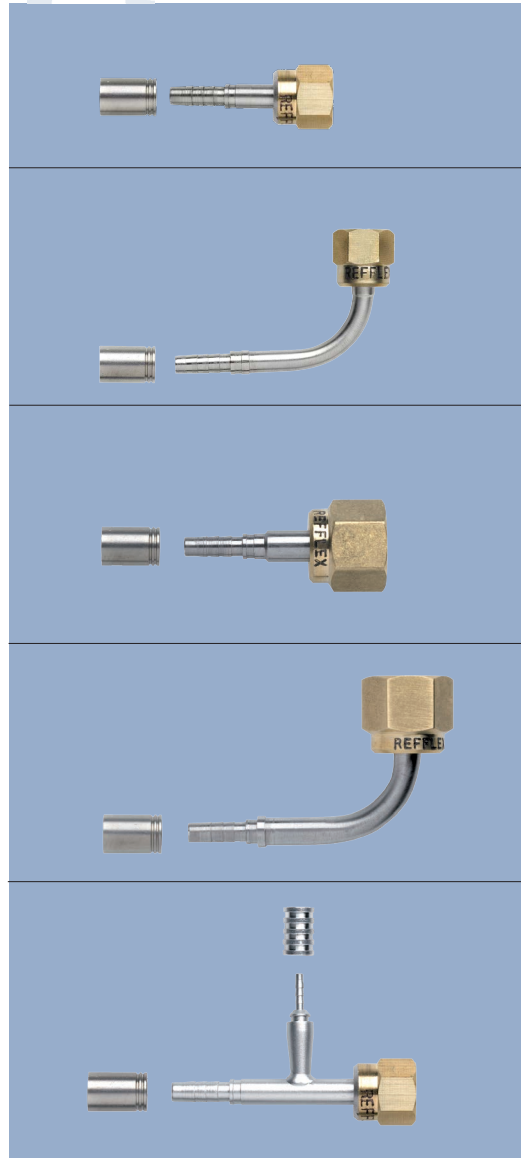
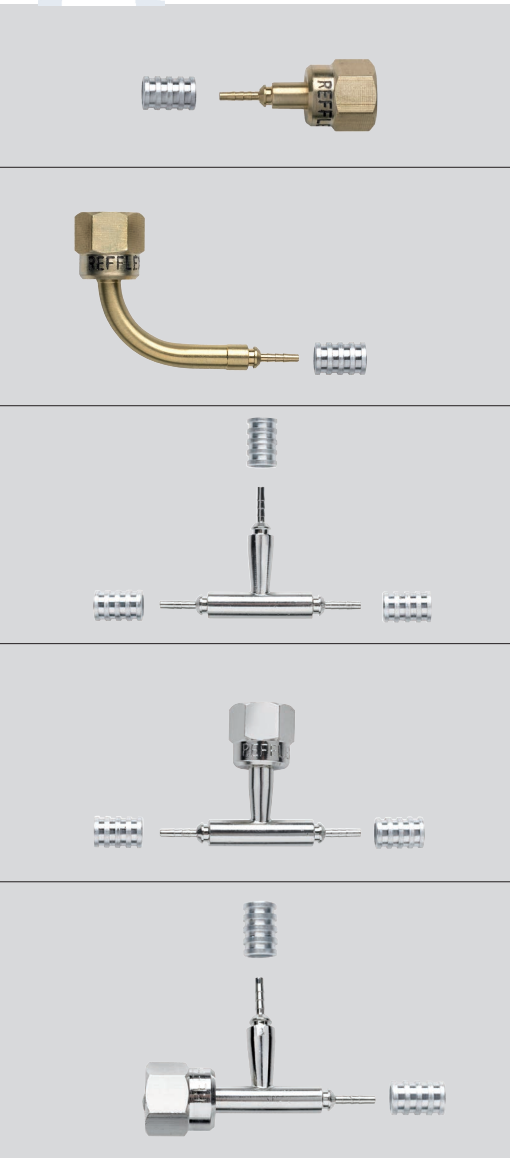


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DN-2.0 mm capillary fittings
1/4" SAE FL (7/16" UNF)

DN-5.0 mm crimping fittings
1/4" SAE FL (7/16" UNF)
3/8" SAE FL (5/8" UNF)

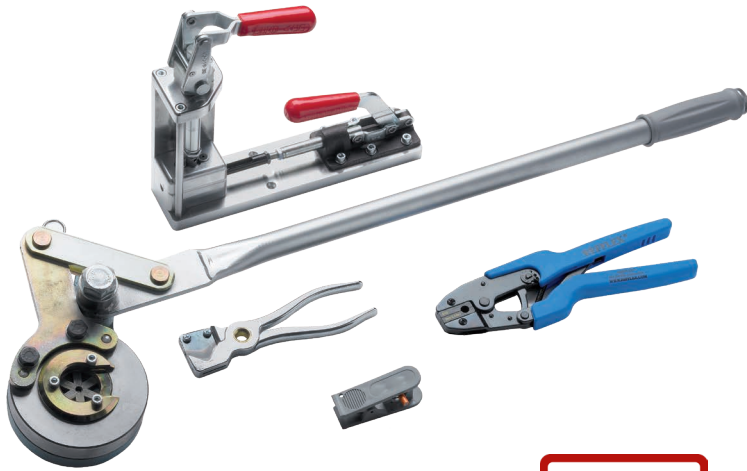
DN-5.0 mm screw fittings
1/4" SAE FL (7/16" UNF)
3/8" SAE FL (5/8" UNF)



6.0 mm tube for use with compression fitting

Quick and easy assembly

For series production or making your own flexible connection on site.



VIDEO:

Instructions how to assemble our DN-2.0 mm and DN-5.0 mm hoses.



Prefabricated hoses

Besides the option to make your REFFLEX® flexible connection with our special tools, we also offer prefabricated hoses.

Advantages of our prefabricated hoses:

- Time saving
- No investment in tools
- Ideal for larger amounts
- Made according to your required length and fittings
- Available for all our types of hoses
- Most common lengths on stock
- Red caps on the fittings protect the hose against dirt



VIDEO:

Learn more about our prefabricated hoses.

Sophisticated tools are available for preparing the best quality connections with REFFLEX® hoses and fittings.

The work bench tool is the ideal choice for series production, while the hand held tool does the job on site.

For the DN-5.0 mm range with crimping fittings an electrical crimping tool is available, for even faster installation.

The DN-5.0 mm screw fittings do not require special tools at all.



DN-5.0 mm high pressure hoses for CO2 & NH3

Over 20 years ago, REFFLEX® brought their first generation of flexible polyamide hoses on to the market that are now being used worldwide. These DN-2.0 mm and DN-5.0 mm hoses are suitable for use in HFC/HFO and in subcritical CO2 installations.

In a transcritical CO2 installation, temperature and pressure can become too high for polyamide hoses when connected directly to the discharge valve or cylinder head. To overcome this problem REFFLEX® brings two new types of hose to the market.

Aramid synthetic fiber.

Type A: Nylon-Aramid, suitable for CO2, PS=130 bar, TS=130 °C

This new hose uses a modified PA core material which can withstand high temperatures. The hose is reinforced with aramid between the core and the cover. Aramid is a very strong synthetic fiber and thanks to high tensile strength and a melting point of over 500 °C, it is an extremely suitable material for this application. Aramid is also used in military applications such as bulletproof vests.



Specifications:

- Inside diameter: 5 mm (3/16")
- Outside diameter: 8 mm (5/16")
- Core material: PA ("Nylon")*
- Reinforced: Aramid (high-tensile fibre)
- Max. working temp.: 130 °C (266 °F)
- Max. working press.: 130 bar (1885 PSI)
- Test pressure: 500 bar (7250 PSI)

* Heat resistant, PA 6.12

PTFE core material for NH3.

Type B: Teflon-Stainless Steel, suitable for NH3 and CO2, PS=160 bar, TS=130°C

For this hose REFFLEX® applies PTFE (Teflon) core material, which makes the hose, besides CO2-T, also suitable for NH3 applications. The hose is reinforced with a stainless steel braid.



VIDEO:

Learn more about our HP hoses.



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Specifications:

- Inside diameter: 5 mm (3/16")
- Outside diameter: 8 mm (5/16")
- Core material: Pure PTFE ("Teflon")
- Reinforced: Single layer AISI-314 wired
- Max. working temp.: 130 °C (266 °F)
- Max. working press.: 160 bar (2320 PSI)
- Test pressure: 500 bar (7250 PSI)

COLDFLEX® hoses with larger inside diameter



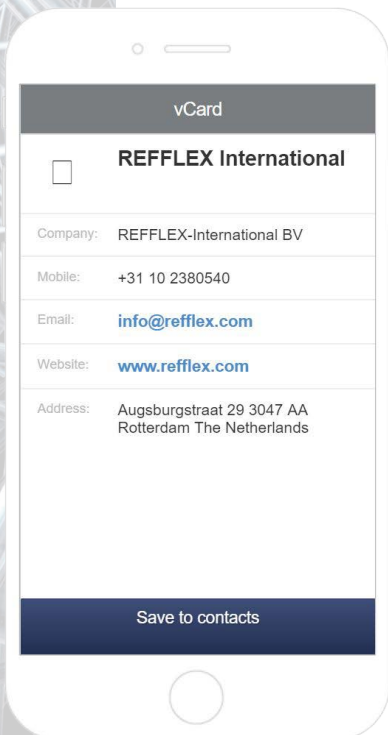
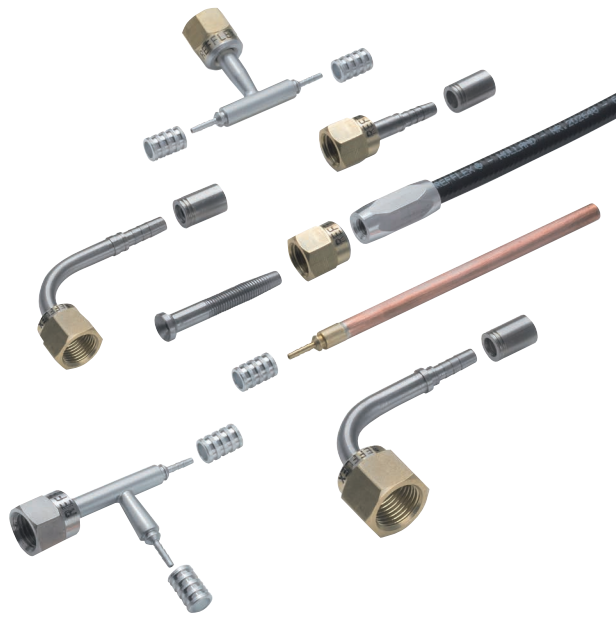
COLDFLEX® flexible oil tube has a larger Inside diameter than our standard DN-2.0 mm and DN-5.0 mm system and therefore a larger flow capacity.

COLDFLEX® flexible hose is available in sizes DN-8.0 mm, DN-12.0 mm and DN-16.0 mm

FL/ODS full range of connectors

REFFLEX® offers a full range of solid machined flared connectors in the sizes 1/4" until 3/4" ODS (7/16" until 7/8" UNF) with brass nipples and solid stainless steel nuts.





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The Flexible Connection