

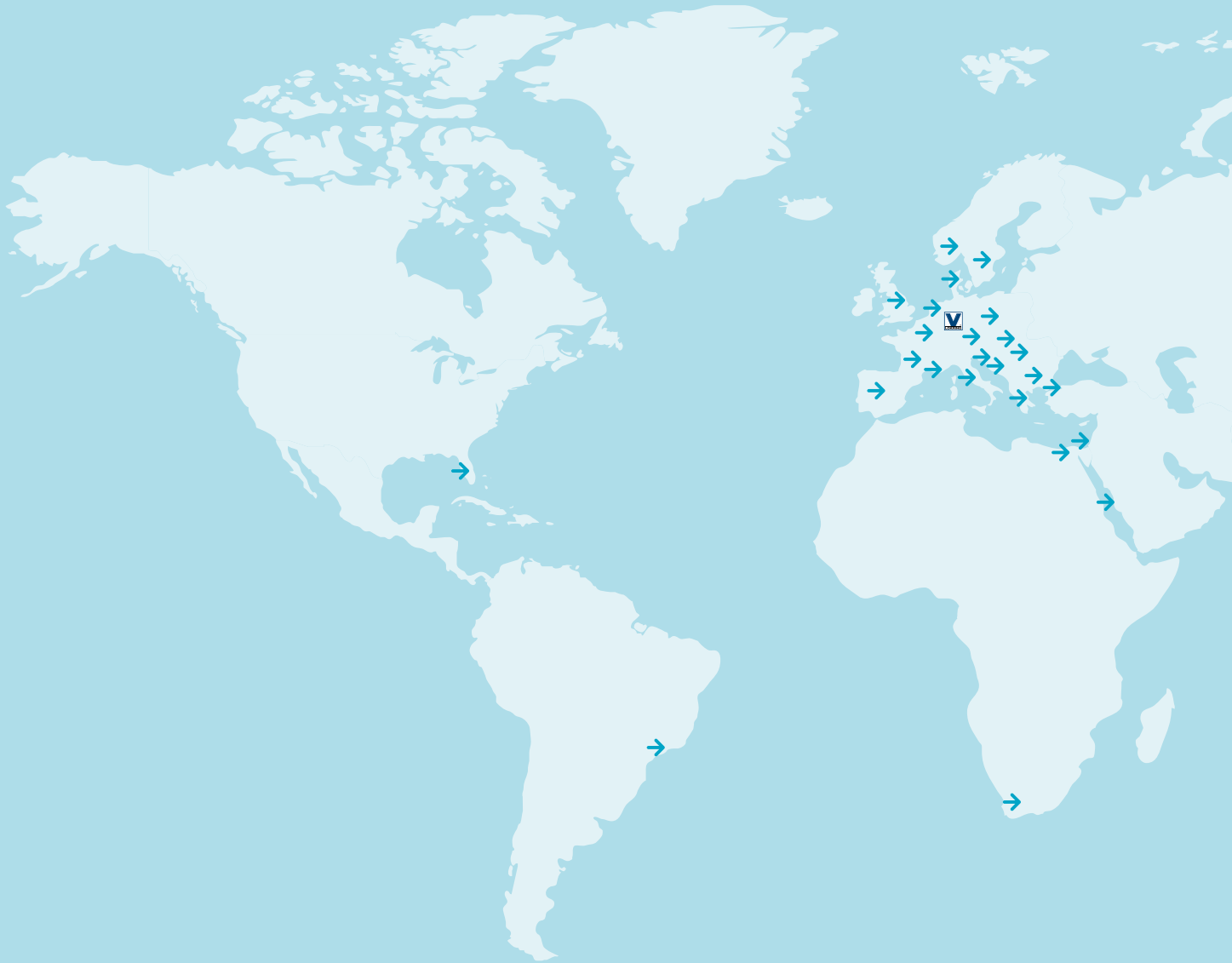
REFRIGERATION AND AIR CONDITIONING INSTALLATION, SERVICE AND ORIGINAL EQUIPMENT

Solder-free tube connections, tools and accessories for refrigeration and air-conditioning technology



WELCOME TO VULKAN LOKRING

WE ARE YOUR GLOBAL PARTNER FOR TOP CONNECTIONS





DEAR CUSTOMER,

For more than 30 years now, **VULKAN LOKRING**'s success has been founded on solder-free tube connection technology for refrigerant lines. Originally developed for the absolute extreme conditions of space technology, we have continually optimised our tube connections for the purposes of refrigeration and air-conditioning technology following takeover of the global patent rights for the tube connection technology, and have since developed into the leading specialist in this area on the world market.

In the meantime, more than 1,000,000,000 LOKRINGS have been successfully used in the industrial volume production of vehicle air-conditioning systems, cooling and freezing units. Every year, many more millions of vehicle air-conditioning systems, refrigerators and freezers leave the production lines of the leading manufacturers of vehicles and white goods with LOKRING tube connection technology installed. The expert knowledge we have gained as an original equipment manufacturer to industry can of course be drawn on continually for our tube connections for industrial refrigeration and air-conditioning technology, too. This enables **VULKAN LOKRING** to be able to offer you a coordinated system of tube connections with TÜV certificate and in OE quality for almost every installation or service situation.

Alongside the tried-and-trusted tube connections, **VULKAN LOKRING** also supplies a comprehensive range of tools and devices in order to offer you, as a partner in refrigeration and air-conditioning technology, a complete system solution from a single source.

Thanks to a world-wide sales network in more than 30 countries and production facilities in Germany, USA, Brazil and India, our teams of experienced engineers provide competent service directly on site. Our world-wide procurement management guarantees top-quality products at prices to suit the market.

Make the most of **VULKAN LOKRING**'s experience and services as **your best connection!**

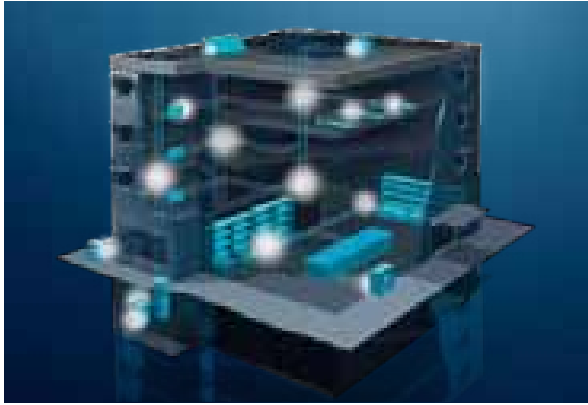
Sebastian Hackforth

Dr. Achim Brodde

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AND THIS IS HOW IT WORKS

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TOP CONNECTIONS

Whether you are a beginner or convinced user, you will find our comprehensive range of tube connections with the respective assembly tools here. This system will make you a specialist in solder-free tube connections in the twinkling of an eye.

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TOOLS AND DEVICES

Everything from one source
Our comprehensive assortment of tools and devices includes everything you need for professional work in refrigeration and air-conditioning technology. Thanks to in-house production and certified procurement management, we guarantee top quality for our products.

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ACCESSORIES AND CONSUMABLES

Here you can find the accessories and consumables you need for professional applications in refrigeration and air conditioning servicing.

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OUR SERVICE

Would you like to request more information about other VULKAN LOKRING products, or send an inquiry or order? You'll find the documents you need here. We're happy to help.

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LOKRING: ADVANTAGE OF SOLDER-FREE TUBE CONNECTIONS

QUICK, CLEAN AND RELIABLE

The patented LOKRING tube connection system provides an innovative system of solder-free tube connections for every installation situation in refrigeration and air-conditioning technology. LOKRING tube connections can be made without a great deal of force being necessary, using simple hand assembly tools. LOKRING guarantees an absolutely clean, permanent and purely mechanical tube connection with long-term hermetic

air-tightness. This is confirmed by the special TÜV test and approval*. All this makes LOKRING tube connections one of the most economical and reliable methods of connecting refrigerant tubes.

* See page 13 for further information about the TÜV test and approval

THE ADVANTAGES OF THE LOKRING PRINCIPLE

- ✔ approx. 40% time saving
- ✔ Absolutely clean, efficient and reliable
- ✔ Installation work during business hours and public access
- ✔ Installation work in situations where there is a fire hazard
- ✔ Light hand assembly tool without energy connection
- ✔ Installation can also be carried out by non-skilled workers
- ✔ No nitrogen as protective gas
- ✔ No solder-related quality problems

CONCLUSION:

Cost and time savings of up to 40%

AREAS OF APPLICATION

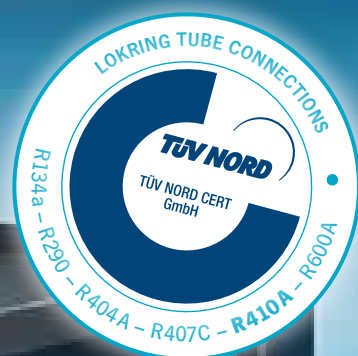
Areas of application for LOKRINGs include all refrigerant pipes in the areas of installation, service, original equipping of:

- ⊕ Air-conditioning systems (split, multi-split, VRF, HVAC)
- ⊕ Industrial product cooling
- ⊕ Heat pumps
- ⊕ Solar thermal systems
- ⊕ Geothermal energy

CONCLUSION:

Every split and bond system in refrigeration and air-conditioning technology.





ONE SYSTEM – ENDLESS POSSIBILITIES

- ⊕ Couplers and reducing connectors
- ⊕ YT-branches
- ⊕ Euro flare-fittings
- ⊕ Long radius elbows
- ⊕ Elbows and elbow reducers
- ⊕ T-connectors and T-reducing connectors

CONCLUSION: Doesn't work? – There's no such thing!



LOKRING ASSEMBLY



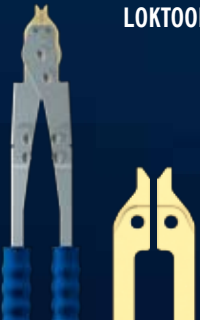
ONE JOINT, TWO RINGS, FOUR STEPS – THAT'S ALL THERE IS TO IT.

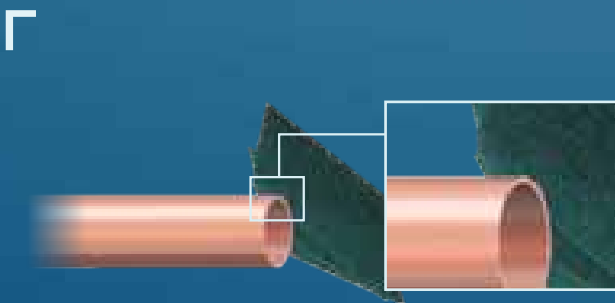
A LOKRING tube connection can be made without a great deal of effort. All you need is a LOKRING tube connection, a hand assembly tool and some LOKPREP. The ergonomic hand assembly tool works without energy connection, and the patented lever mechanism means extremely little strength is needed for assembly. Compare it with conventional tube connection

methods for yourself, and you will see that »lokringing« has the potential to become a classic. Where DIY experts have their »rawl plugs« or »flex«-cut materials, you and your customers could be »lokringing« in all sorts of situations.



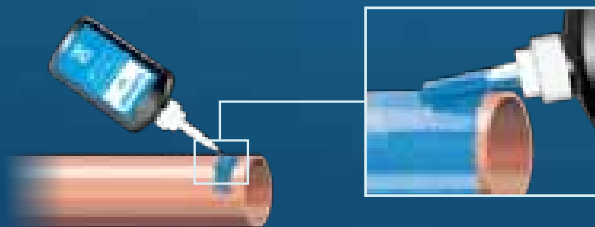
THE COMPONENTS OF A LOKRING CONNECTION

-  **JOINT**
The shape of the joint to be used is defined by one of the many types, sizes and repair situations.
-  **LOKRINGS**
When assembled, LOKRINGS guarantee a permanent tube connection. Up to a diameter of 12 mm, the LOKRINGS are pre-assembled on the fitting when delivered.
-  **LOKPREP**
Thanks to its specially developed properties, LOKPREP secures the airtight seal of the tube connection for a lifetime.
-  **LOKTOOL**
The hand assembly tool reduces the manual force needed during assembly. The assembly jaws are easy to replace to match the size of the LOKRING to be fitted.



STEP 01 | TREAT THE TUBE ENDS

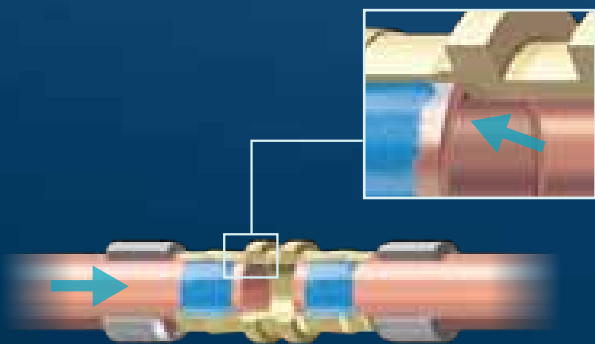
To make a tube connection, the tube ends must be metallic bright and free of longitudinal grooves caused by production. To remedy this, clean and polish the tube ends with our sandpaper or abrasive mats.



STEP 02 | APPLY LOKPREP

Next, wet the whole tube circumference with LOKPREP by guiding the bottle 360° around the outside of the tube. Apply the LOKPREP a little away from the cut edge to prevent it getting onto the inside of the tube.

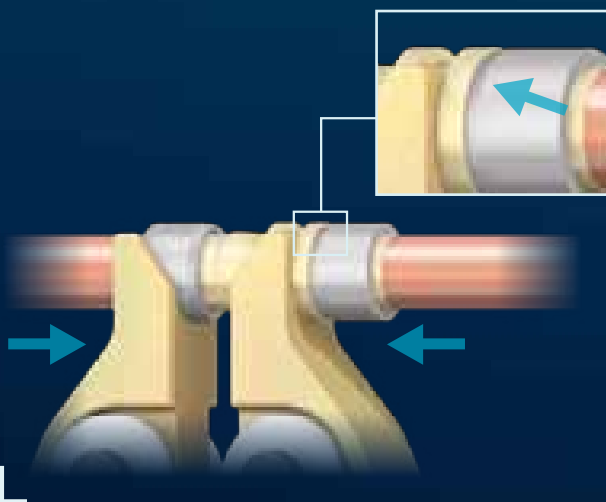
Depending on the repair situation, there are several different possibilities of applying LOKPREP over an area - see page 11.



STEP 03 | INSERT TUBES *

Then insert the tube ends with the LOKPREP film into the joint. Make sure that the ends of the tubes are inserted to the inner limit of the joint and remain fixed in this position during assembly.

* Please note the instructions about the use of LOKIN sleeves on page 36 / 37.



STEP 04 | PRESS

Finally, set the assembly tool behind the LOKRING and the assembly stop on the joint and press the LOKRING axially onto the joint until it is flush to the assembly stop - that's all there is to it!

THE LOKRING FUNCTIONAL PRINCIPLE

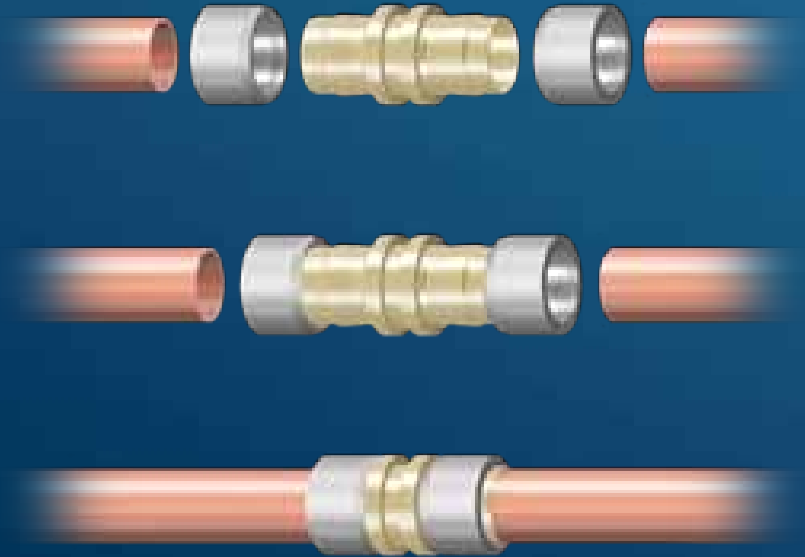
PATENTED AND FREELY COMBINABLE

HOW LOKRING WORKS

The patented LOKRING tube connection works on the basis of »simple« physical laws. It consists of two LOKRINGS and one tubular joint which takes the two tube ends. During assembly, the tube ends are inserted into the joint to the inner limit.

Then an assembly tool is used to push the two LOKRINGS axially onto the joint. Due to the conical inner contour of the LOKRINGS and the special outer and inner contour of the joint, the diameter of the joint is reduced during assembly so that the tube and the joint form a metallic-hermetic connection through surface pressing.

The lifetime air-tightness of the fitted connection is guaranteed by the state of permanent elastic pre-tension, which is produced by the balance of the radial forces of the LOKRINGS acting in the opposite direction to the tube to the LOKRINGS.



THE LOKRING MATERIAL COMBINATIONS



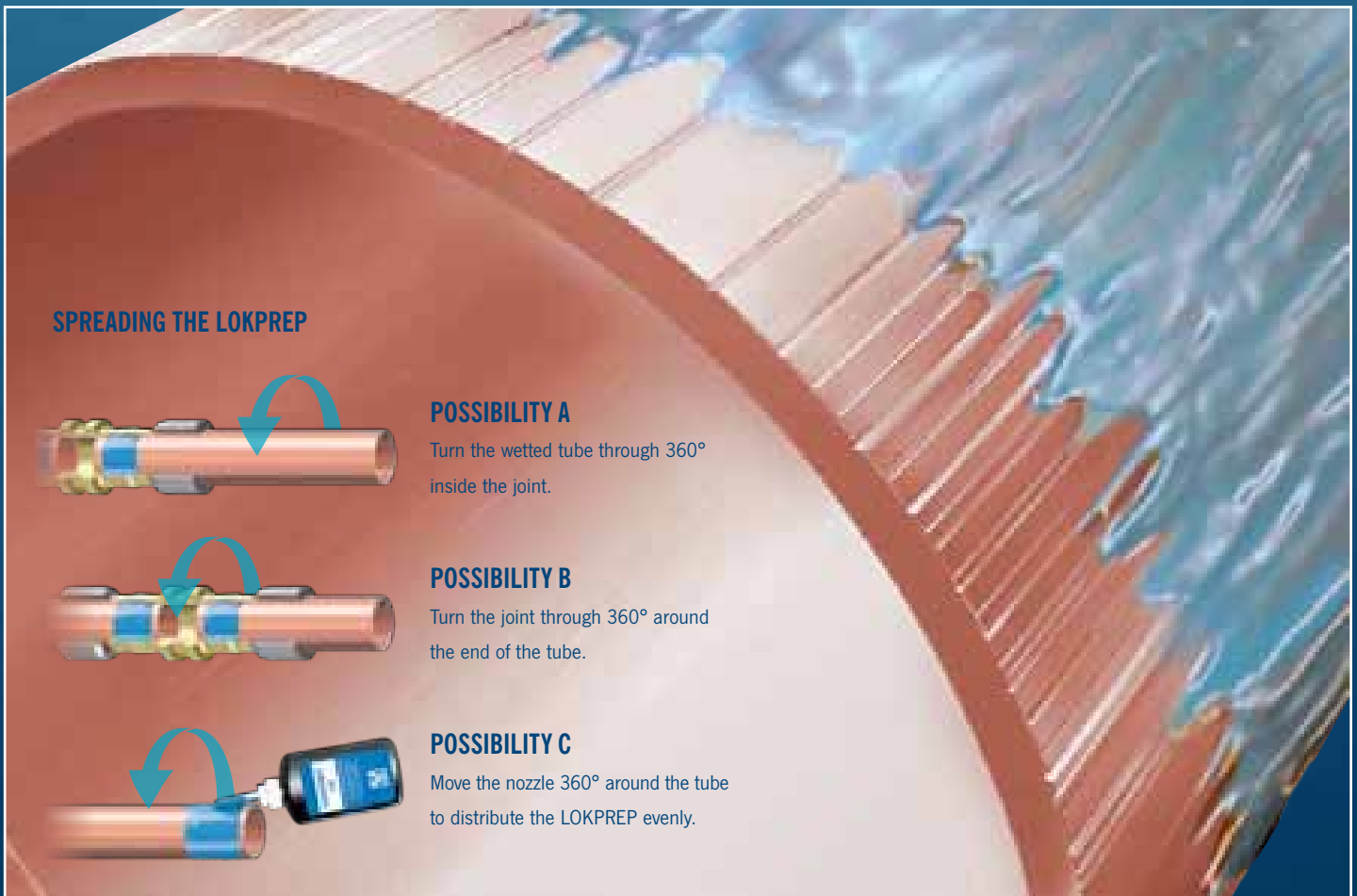
What can you connect using LOKRINGS? There's a simple answer to that: All the metallic tubes commonly used in air-conditioning and refrigeration technology. There is almost no limit to the combination variations here. One rule of thumb is: If at least one of the tubes to be connected is made of aluminium, an aluminium LOKRING must be used as well. In all other cases, a brass LOKRING is used. In the case of special tube materials, tube coatings or environmental influences on the material we will be happy to help.

MATERIAL ASSIGNMENT

 Copper  Brass  Steel  Aluminium

LOKPREP FLUID

HOW TO MAKE YOUR TUBE CONNECTION PERFECT ALL ROUND.



360° LOKPREP FOR THE TUBE – NO WORRIES FOR YOU ALL ROUND.

Metal tubes can have longitudinal grooves on the surface from production. These production-related faults can be compensated quite easily by wetting the tube ends to be connected with LOKPREP fluid before assembly. Thanks to its capillary characteristic, it can even flow into microscopic cavities and fill these out completely.

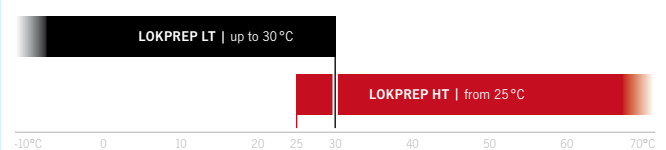
LOKPREP is not an adhesive, rather an anaerobic filler which hardens under oxygen exclusion and in contact with free metal ions. Its elastic structure is permanently retained in a temperature range of -50 to $+150^{\circ}\text{C}$ – thus compensating material-specific deformations due to fluctuations in temperature. Since LOKPREP does not contain solvents which have to evaporate during hardening, the finished connection is ready for use shortly after assembly.

LOKPREP LOW-TEMPERATURE (LT) AND HIGH-TEMPERATURE (HT)

Since LOKPREP's hardening time depends on the ambient temperature, we have developed two fluid types. The hardening time of the LOKPREP LT has been optimally matched to ambient temperatures up to 30°C .

LOKPREP HT develops its optimum characteristics only at temperatures above 30°C . This gives you maximum assembly flexibility at all times and increases safety at the same time.

LOKPREP application depending on the ambient temperature in $^{\circ}\text{C}$



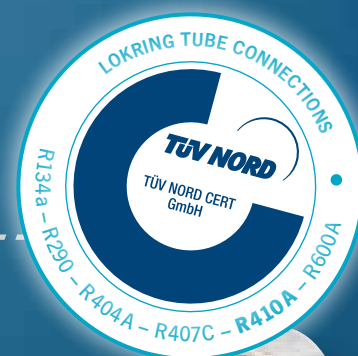
WHEN WE SWAP RINGS, WE'RE MAKING A PROMISE. GUARANTEED BY QUALITY CONTROL AND TÜV CERTIFICATE.



LOKRING QUALITY MANAGEMENT

The name VULKAN LOKRING has been standing for top quality for 30 years. Our quality management system has been certified by the material testing authority in North-Rhine Westphalia according to DIN EN ISO 9001:2000. To guarantee this quality permanently, we manufacture our LOKRINGS using our own production and control procedures. Thanks to highly developed systems for industrial image processing, we manage to carry out dimension tolerance checks on all the LOKRINGS we produce. As an original equipment manufacturer to the automotive industry, we are used to not making mistakes.





TÜV APPROVAL FOR ALL REFRIGERATION SYSTEMS AND HEAT PUMPS

The EU standard (EN 378-2), German TÜV (Technical Control Board) and »new« refrigerants such as R 410 A make high demands on tube connections in refrigeration and air-conditioning technology. For the first time, each of these requirements can now be met through a solder-free tube connection. The type-examination tests carried out by the TÜV were not only passed without exception by the LOKRING tube connection, the requirements were even exceeded as far as air-tightness, durability and reliability were concerned. Here is an extract from the tests carried out by the TÜV:

TEST	REQUIREMENT	RESULT
Leak test	Airtight (2×10^{-6} mbar l/s helium 4.6)	✔ Hermetically sealed
Temperature and alternating pressure resistance test	Air-tightness after 2600 cycles with temperatures changing between -10 °C and 110 °C and pressure loads alternating by ± 40 bar during a cycle period of 15 min.	✔
Burst test	5 x rated pressure (250 bar)	✔ 350 – 400 bar (tube burst)
Inner pressure threshold test	2 x 105 load change from 1 – 50 bar	✔
Pressure test	At least 1.1 x rated pressure (gaseous)	✔
BAlternating bending test	2 x 105 load change, inner pressure 50 bar	✔

In addition to the comprehensive TÜV tests, the LOKRING tube connection was tested to maximum extreme loads in tensile tests. The result is impressive: The connection withstands an extraction force of 40 kN without any problems. This corresponds to a weight of approx. 4 tonnes, in other words the weight of a fully grown elephant!

TECHNICAL FEATURES

- ➔ Hermetically sealed metal/metal tube connection through surface pressing, i.e. no O-ring or cutting ring seal.
- ➔ Permanent tube connection according to EU standard EN 378-2
- ➔ Purely mechanical tube connection, i.e. »cold« tube connection without thermal method such as soldering or welding.

PERMISSIBLE AREAS OF APPLICATION

- ➔ Operating pressure: 50 bar with 5-fold safety, i.e. 250 bar.
- ➔ Temperature range: -50 °C to +150 °C
- ➔ Tube diameter: 1.6 to 35 mm
- ➔ Tube wall thickness: 0.5 to 1.5 mm
- ➔ We will be happy to provide advice on further areas of application.

LOKRINGING RATHER THAN SOLDERING

THE BEST CONNECTION FOR REASONS OF SAFETY AND ECONOMY.

During the installation and service of refrigeration and air-conditioning technology, the connection of refrigerant pipes is one factor critical for success. For decades, soldering was the only – albeit unpopular – method that could be used for this. Because complex and time-consuming assembly work,

potential leaks and soiling were all accepted as part of the package. In other words, soldering is a necessary evil?! Not any more, because the patented LOKRING tube connection now provides you with a procedure that is as absolutely reliable as it is efficient.

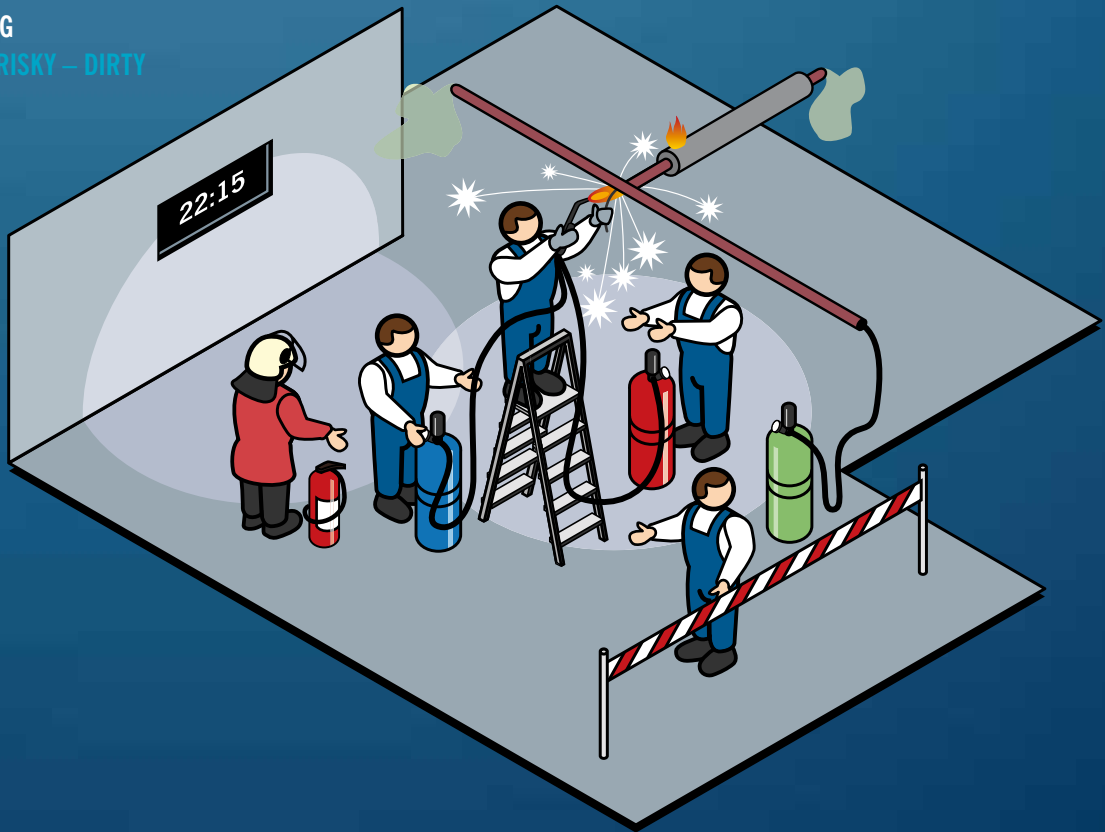
➔ FOR YOU AND YOUR CUSTOMERS LOKRINGING RATHER THAN SOLDERING MEANS:

- ➔ No fire protection or safety restrictions in rooms or buildings used.
 - ➔ No cost-intensive and complicated feeding of nitrogen as a protective gas.
 - ➔ No toxic substances (phosgene, hydrochloric acid, dioxine) produced by burning refrigerant or oil residue.
 - ➔ No strain on the fitters caused by heavy soldering, welding and nitrogen equipment.
 - ➔ No reduction of tube connection quality by outer influences such as wind, cold or rain when working outside.
 - ➔ No complicated heat protection measures of pre-insulation and no time spent waiting for the soldering spot to cool down.
 - ➔ No problems with system operation caused by capillary tubes or electronic expansion valves being soiled by solder scale.
-

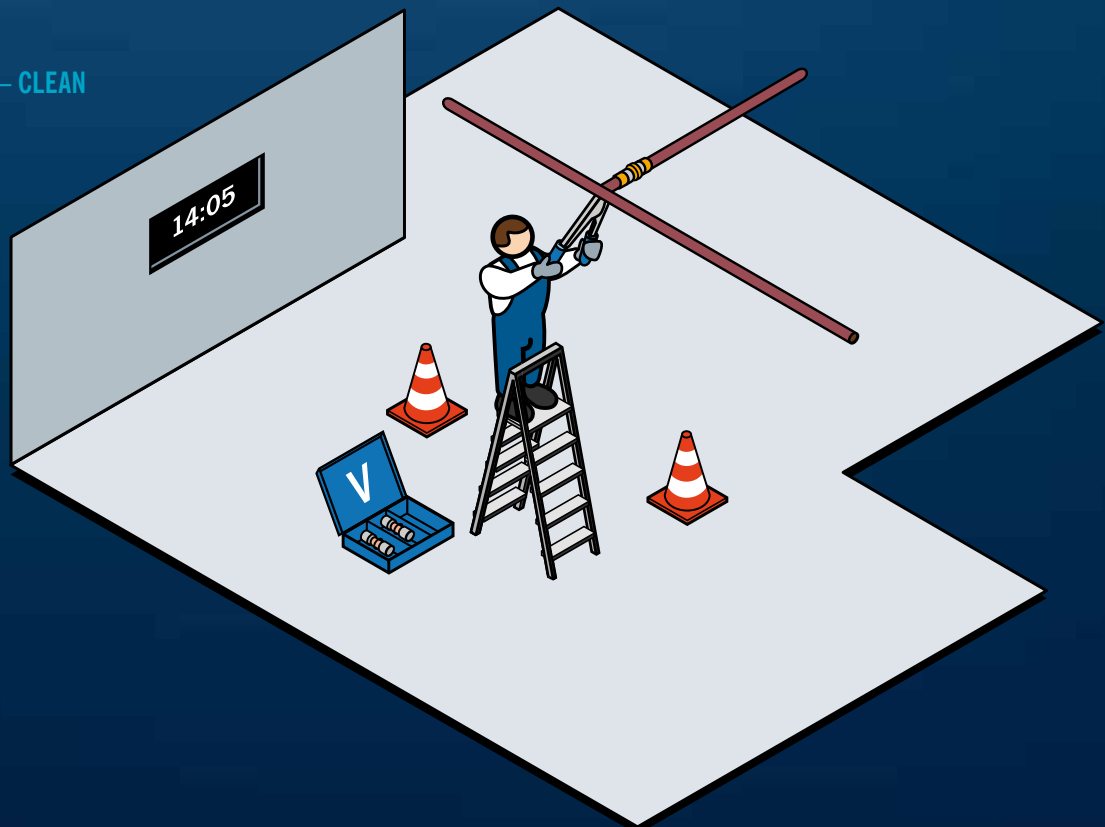
➔ LOKRINGING: THE BEST CONNECTION FOR REASONS OF SAFETY AND ECONOMY

- ➔ Miles of problem-free tube laying during system installation.
- ➔ Assembly through ergonomic hand assembly tools without energy connection.
- ➔ Assembly work can be carried out in rooms with a fire hazard, without having to hold up business or keep people away from the installation spot.
- ➔ Straightforward assembly can be carried out without soldering training or special knowledge being necessary.
- ➔ Up to 40% saving on costs and time.
- ➔ Permanently hermetically sealed thanks to pure metallic seal through surface pressing.
- ➔ More than 1,000,000,000 LOKRINGs installed so far.
- ➔ Patented development from 30 years of experience with tube connections
- ➔ Solder-free tube connection with TÜV approval (R410A ✓) and EU standard conformity (EN 378-2)

➔ WITHOUT LOKRING
 COMPLICATED – RISKY – DIRTY



➔ WITH LOKRING
 SIMPLE – QUICK – CLEAN



CONNECTING TUBES PROFESSIONALLY IS CALLED: »LOKRINGING« SUITABLE FOR A WIDE RANGE OF DIFFERENT AREAS

➔ DOMESTIC COOLING TECHNOLOGY AND APPLIANCES



30 YEARS OF
EXPERIENCE

In our special »DOMESTIC COOLING TECHNOLOGY AND APPLIANCES« programme, we supply the complete range for the professional servicing of domestic refrigeration units and plug-in cooling equipment in a separate catalogue.

AREAS OF APPLICATION:

- ➔ Servicing domestic refrigeration units (refrigerators and freezers, wine coolers)
- ➔ Servicing plug-in product cooling (commercial)
- ➔ Servicing cooling units in gastronomy

ONE SYSTEM – ENDLESS POSSIBILITIES:

- ➔ Compressor replacement
- ➔ Dryer replacement
- ➔ Repairs to the charging tube (with or without schrader valve)
- ➔ Repairs to leaking tubes:
 - Tube connectors
 - Tube reducing connectors
 - Capillary tube T-reducer for insertion into the suction pipe
 - Tube T-connector
 - Tube elbow connector

THE ADVANTAGES OF THE LOKRING PRINCIPLE:

- ➔ Customer-friendly on-site service
- ➔ Repairs without having to hold up business
- ➔ Assembly without soldering training or special knowledge being necessary
- ➔ Problem-free connecting of different tube materials and diameters
- ➔ Significant time and costs savings

FOR YOU, NO SOLDERING MEANS:

- ➔ No complex removal of tubes to the workshop
- ➔ No toxic substances produced (phosgene, hydrochloric acid, dioxine)
- ➔ No danger of combustible refrigerants becoming ignited
- ➔ No unpleasant smells
- ➔ No surface damage through solder tin
- ➔ No use of nitrogen against oxide formation

➔ OE FOR REFRIGERATION AND A/C TECHNOLOGY



SOLUTIONS FOR
MANUFACTURERS

Alongside the installation and servicing of split and bond systems, the tube connection range is also suitable for refrigeration and air-conditioning technology as well as economical applications in a wide range of original equipment. Wherever conventional tube connection methods or soldering make the setting up of tube connections more difficult, LOKRINGs are already being used in production of refrigeration and air-conditioning technology.

USE IN PRODUCTION

- ➔ Tube connections: Al/Cu – Al/Al – Ti/Cu
- ➔ Tube connections difficult to reach due to design / production
- ➔ Avoidance of physical or cosmetic damage to other device components through the solder processes
- ➔ Professional permanent tube connections in place of screw connections or soldering

➔ INDUSTRIAL MANUFACTURING



LEADING
OEMs

For 30 years now VULKAN LOKRING has been a global original equipment manufacturer of industrial vehicle air-conditioning systems, refrigeration and freezing units. More than 1,000,000,000 LOKRINGs have been successfully assembled, and every year, millions and millions more vehicle air-conditioning systems, refrigerators and freezers leave the production lines of the leading manufacturers of vehicles and white goods with LOKRING tube connection technology installed.

The expert knowledge we have gained as an original equipment manufacturer to industry can of course be drawn on continually for the advanced development of our tube connections for industrial refrigeration and air-conditioning technology, too. This means that we often already know today which tube connection technology will be the »technical standard« in future.

➔ VEHICLE A/C SERVICING



MANUFACTURER
APPROVALS

In the field of automotive air conditioning servicing, the tube and hose connection system from VULKAN LOKRING provides a straightforward, clean and versatile alternative based on current vehicle value for the repair of the refrigerant pipes in vehicle air-conditioning systems. Conventional methods such as welding, soldering and thread cutting, as well as long waiting times for expensive original spare parts are thus a thing of the past.

As the test winner in terms of garage suitability, the fully automatic air-conditioning unit SpeedMaxx 3 guarantees economical air conditioning servicing. Thanks to its »Made in Germany« philosophy, VULKAN LOKRING guarantees you a top precision air-conditioning service unit from its own development and production departments at an amazing price.

LOKRING TUBE CONNECTION TECHNOLOGY

EASY. QUICK. HERMETICALLY SEALED.





LOKRING

SIMPLY CONNECTING WHAT BELONGS TOGETHER



THERE'S A NAME FOR PROFESSIONAL CONNECTIONS:

»LOKRING«

With the patented LOKRING system, you will be able to carry out professional installation of refrigeration and air-conditioning systems easily and quickly. Connect different materials and different diameters to one another? No problem with LOKRING! All the metallic tubes used in refrigeration and air-conditioning technology can be connected to one another hermetically sealed thanks to LOKRING. The comprehensive range of special connectors ensures

you a maximum choice for every installation. Our hand assembly tool firmly presses the connection into place in no time. Difficult assembly situations are no longer a problem with LOKRING.

The TÜV-tested LOKRING connection is absolutely airtight and pressure-resistant up to 50 bar with fourfold safety. You can use LOKRING connections without any reservations in a temperature range of -50 °C to $+150\text{ °C}$



TOP CONNECTIONS

Whether you are a beginner or convinced user, you will find our comprehensive range of tube connections with the respective assembly tools here. This system will make you a specialist in solder-free tube connections in the twinkling of an eye.

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ASSEMBLY TOOLS FOR LOKRING CONNECTIONS

LOKTOOL: MZ | Hand assembly tool



LOKTOOL hand assembly tool*

The classic model. Our patented hand assembly tools were developed especially for LOKRING assembly. You only need one tool, because the assembly jaws can be exchanged quickly and easily.

* Supplied without assembly jaws. See next page.

Article no.	Article name	Description
L13002095	LOKtool MZ	Hand assembly tool

LOKTOOL: MZ-V | Hand assembly tool



LOKTOOL hand assembly tool*

The flexible model. The MZ-V was developed for use in areas that are difficult to access. The handles of the MZ-V are offset on both sides, allowing full use in places difficult to access.

* Supplied without assembly jaws. See next page.

Article no.	Article name	Description
L13002811	LOKtool MZ-V	Hand assembly tool

LOKTOOL: MB x EVP | Assembly jaws



1 pair

LOKTOOL assembly jaws for LOKRING

The assembly jaws fit all the hand assembly tools. They can be replaced quickly and easily, thus making LOKRING assembly possible with only one tool for different tube diameters.

Article no.	Article name	For tube outer ø
L20000304	LOKtool MB 8 EVP	up to 8 mm
L20000305	LOKtool MB 10 EVP	9 – 11 mm
L20000306	LOKtool MB 12 EVP	12 – 13 mm
L20000307	LOKtool MB 16 EVP	14 – 17 mm
L20000308	LOKtool MB 19 EVP	18 – 20 mm
L20000309	LOKtool MB 22 EVP	22 mm
L20000607	LOKtool MB 28 EVP	28 – 28.6 mm
L20000623	LOKtool MB 35 EVP	35 mm

ASSEMBLY TOOLS FOR LOKRING CONNECTIONS

LOKTOOL: ROMAX | Battery-powered pressing tool



LOKTOOL ROMAX

Powerful pressing tool for working independently of the power supply. Professional and safe single-sided and double-sided assembly of LOKRING connections up to a diameter of 28.6 mm (1 1/8"). A special hydraulic valve and electronic monitoring system make operation safe and guarantee top working quality. Low-fatigue work in all positions thanks to balanced centre of gravity.

Scope of supply*

- ⊕ Battery-powered pressing tool ROMAX
- ⊕ Assembly jaws fitting MBA-28
- ⊕ Rechargeable battery RA-12V
- ⊕ Charger LG-ROMAX, 230 V
- ⊕ Plastic case

* Supplied without assembly jaws.

Article no.	Article name	Description
L13003523	LOKtool ROMAX	Battery-powered pressing tool case set

Available separately

L14000870	LOKtool MBA-28	Die stock type SBS1
L14003168	LOKtool RA-12V	Spare rechargeable battery RA-12V

LOKTOOL: SL | Sandpaper



LOKTOOL high-quality sandpaper

- ⊕ For cleaning tube ends, in top 3M® quality
- ⊕ Grain 120
- ⊕ Dimensions 230 mm x 280 mm
- ⊕ Packing unit: 1 sheet

Article no.	Article name	Description
L14000002	LOKtool SL	Sandpaper

LOKTOOL: SV.3 | Abrasive mat



LOKTOOL high-quality abrasive mat

- ⊕ For cleaning tube ends, in top 3M® quality
- ⊕ Suitable for all surfaces
- ⊕ Solvent-resistant
- ⊕ Dimensions: 158 mm x 224 mm
- ⊕ Packing unit: 3 mats

Article no.	Article name	Description
L13004251	LOKtool SV.3	Abrasive mat

LOKPREP: LT UND HT | Anaerobic filler



up to 30 °C



from 25 °C

LOKPREP anaerobic filler*

LOKPREP was developed especially for LOKRING assembly and always has to be used wherever LOKRINGs are to be fitted. LOKPREP is used for additional safety in LOKRING connection technology to compensate possible unevenness in the tube surface such as longitudinal grooves or surface porosity, thus guaranteeing that every LOKRING connection is hermetically sealed.

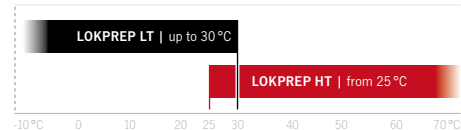
LOKPREP LT and HT

We supply 2 variants to make processing even easier, depending on the ambient temperature. You can use both fillers, which differ only in curing time depending on the ambient temperature. LOKPREP HT for high ambient temperatures in particular allows you even more flexibility during assembly.

* A detailed description of the use of LOKPREP can be found on page 11.

Article no.	Article name	Description
LT		up to 30°C
L14003407	LOKprep LT 15 ML	15 ml
L14003406	LOKprep LT 50 ML	50 ml
HT		from 25°C
L14003404	LOKprep HT 15 ML	15 ml
L14003581	LOKprep HT 50 ML	50 ml

LOKPREP application depending on the ambient temperature in °C



LOKRING BASIC EQUIPMENT

THE PERFECT STARTER PACKAGE

LOKBOX: MZ-V MB 0835 | Tool set for LOKRING assembly



LOKBOX tool set for LOKRING assembly

Assembly tools for all sizes arranged clearly in a handy case with a firm foam insert.

Scope of supply

- ⊕ Hand assembly tool MZ-V
- ⊕ Assembly jaws MB EVP
- ⊕ Plastic case

Article no.	Article name	Description	Quantity
L13004600	LOKbox MZ-V MB 0835	Tool set	1

Available separately

L14003575	LOKbox MZ, empty	Plastic case, empty	1
L13002811	LOKtool MZ-V	Hand assembly tool	1
L20000304	LOKtool MB 8 EVP	Assembly jaws	2
L20000305	LOKtool MB 10 EVP	Assembly jaws	2
L20000306	LOKtool MB 12 EVP	Assembly jaws	2
L20000307	LOKtool MB 16 EVP	Assembly jaws	2
L20000308	LOKtool MB 19 EVP	Assembly jaws	2
L20000309	LOKtool MB 22 EVP	Assembly jaws	2
L20000607	LOKtool MB 28 EVP	Assembly jaws	2
L20000623	LOKtool MB 35 EVP	Assembly jaws	2

LOKBOX: 50 MZ-V MOBIL MB 0828 | LOKRING tool set



LOKRING tool set in a mobile assembly box

In addition to assembly tools for sizes 8 – 28 mm, there's also plenty of room for your tools, vacuum pump and individual LOKRING assortment in our spacious assembly box. A further storage tray with adjustable compartments ensures clearly arranged contents.

Scope of supply

- ⊕ Hand assembly tool MZ-V
- ⊕ Assembly jaws MB EVP
- ⊕ Mobile assembly box

Article no.	Article name	Description	Quantity
L13004641	LOKbox 50 MZ-V Mobil MB 0828	Mobile assembly box	1

Available separately

L13004642	LOKbox 50, empty	Mobile assembly box	1
L13002811	LOKtool MZ-V	Hand assembly tool	1
L20000304	LOKtool MB 8 EVP	Assembly jaws	2
L20000305	LOKtool MB 10 EVP	Assembly jaws	2
L20000306	LOKtool MB 12 EVP	Assembly jaws	2
L20000307	LOKtool MB 16 EVP	Assembly jaws	2
L20000308	LOKtool MB 19 EVP	Assembly jaws	2
L20000309	LOKtool MB 22 EVP	Assembly jaws	2
L20000607	LOKtool MB 28 EVP	Assembly jaws	2

Technical data

Dimensions (L x W x H)	613 x 375 x 419 mm
Weight	11.2 kg

LOKBOX: GGA-03 | LOKRING basic equipment



LOKRING basic equipment – LOKBOX GGA -03

All you need for a perfect start in the world of quick, easy and low-cost installation and repairs to air-conditioning systems and for larger industrial applications in a sturdy steel case with clear inner compartments.

Scope of supply

- Steel case
- Assembly tool and jaws
- LOKPREP anaerobic filler
- Brass connectors
- Brass reducers
- Euro flare-fittings
- LOKIN stabilisation inserts

Article no.	Article name	Description
L13003205	LOKbox GGA-03	Set in case

Technical data

Dimensions (L x W x H)	440 x 330 x 95 mm
Weight	11.5 kg
Empty weight	5.7 kg

Items available separately

See table below

Article no.	Article name	Description	Quantity	Article no.	Article name	Description	Quantity
L13004605	LOKbox GGA-03, empty	Steel case, empty	1	L13004631	LOKring LR-Euro-06-EBK	Euro flare-fitting	2
L13002811	LOKtool MZ-V	Hand assembly tool	1	L13004324	LOKring LR-Euro-10 EBK	Euro flare-fitting	2
L20000304	LOKtool MB 8 EVP	Assembly jaws	2	L13004325	LOKring LR-Euro-12-EBK	Euro flare-fitting	2
L20000305	LOKtool MB 10 EVP	Assembly jaws	2	L13004326	LOKring LR-Euro-12,7-EBK	Euro flare-fitting	2
L20000306	LOKtool MB 12 EVP	Assembly jaws	2	L13004328	LOKring LR-Euro-16-EBK	Euro flare-fitting	2
L20000307	LOKtool MB 16 EVP	Assembly jaws	2	L13004330	LOKring LR-Euro-18-EBK	Euro flare-fitting	2
L20000308	LOKtool MB 19 EVP	Assembly jaws	2	L13004331	LOKring LR-Euro-19-EBK	Euro flare-fitting	2
L20000309	LOKtool MB 22 EVP	Assembly jaws	2	L12001978	LOKin 9,53 VH Ms 07	Stabilisation insert	4
L14003406	LOKprep LT 50 ML	Anaerobic filler	1	L12001988	LOKin 9,53 VH Ms 10	Stabilisation insert	4
L13004601	LOKring 6 NK Ms 50	Brass connector	4	L12002457	LOKin 10 VH Ms 08	Stabilisation insert	4
L13001390	LOKring 9,53 NK Ms 50	Brass connector	4	L12002018	LOKin 10 VH Ms 10	Stabilisation insert	4
L13001391	LOKring 10 NK Ms 50	Brass connector	4	L12002458	LOKin 12 VH Ms 07	Stabilisation insert	4
L13001220	LOKring 12 NK Ms 50	Brass connector	4	L12002017	LOKin 12 VH Ms 10	Stabilisation insert	4
L13001571	LOKring 12,7 NK Ms 50	Brass connector	4	L12001979	LOKin 12,7 VH Ms 07	Stabilisation insert	4
L13001261	LOKring 16 NK Ms 50	Brass connector	4	L12001989	LOKin 12,7 VH Ms 10	Stabilisation insert	4
L13001262	LOKring 18 NK Ms 50	Brass connector	4	L12001980	LOKin 16 VH Ms 07	Stabilisation insert	4
L13000605	LOKring 19 NK Ms 50	Brass connector	4	L12001990	LOKin 16 VH Ms 10	Stabilisation insert	4
L13000607	LOKring 22 NK Ms 50	Brass connector	2	L12002033	LOKin 18 VH Ms 10	Stabilisation insert	4
L13001396	LOKring 10/9,53 NR Ms 50	Brass reducer	2	L12001991	LOKin 19 VH Ms 10	Stabilisation insert	4
L13001822	LOKring 12,7/12 NR Ms 50	Brass reducer	2	L12001997	LOKin 22 VH Ms 10	Stabilisation insert	4
L13001823	LOKring 19/18 NR Ms 50	Brass reducer	2				

CONNECTORS FOR CONNECTING TUBES

LOKRING: x NK MS 50 | Brass connectors



LOKRING brass connectors**

For connecting copper and/or steel tubes with identical tube outer diameters.

* Further sizes available on request.
** Please see page 36 on how to use LOKIN stabilisation inserts.

Article no.	Article name	Tube outer- \varnothing^*	
		[mm]	[inches]
L13004601	LOKring 6 NK Ms 50	6	-
L13001435	LOKring 6,35 NK Ms 50	6.35	1/4
L13001392	LOKring 8 NK Ms 50	8	5/16
L13001390	LOKring 9,53 NK Ms 50	9.53	3/8
L13001391	LOKring 10 NK Ms 50	10	-
L13001220	LOKring 12 NK Ms 50	12	-
L13001571	LOKring 12,7 NK Ms 50	12.7	1/2
L13001226	LOKring 15 NK Ms 50	15	-
L13001261	LOKring 16 NK Ms 50	16	5/8
L13001262	LOKring 18 NK Ms 50	18	-
L13000605	LOKring 19 NK Ms 50	19.05	3/4
L13000607	LOKring 22 NK Ms 50	22.2	7/8
L13000608	LOKring 25,4 NK Ms 50	25.4	1
L13001944	LOKring 28 NK Ms 50	28	-
L13001945	LOKring 28,6 NK Ms 50	28.6	1 1/8
L13003346	LOKring 35 NK Ms 50	35	1 3/8

LOKRING: x NK AL 50 | Aluminium connectors



LOKRING aluminium connectors

For connecting aluminium tubes or for connecting aluminium tubes to copper or steel tubes with identical tube outer diameters.

* Further sizes available on request.

Article no.	Article name	Tube outer- \varnothing^*	
		[mm]	[inches]
L13001439	LOKring 6 NK Al 50	6	-
L13001393	LOKring 8 NK Al 50	8	5/16
L13001394	LOKring 9,53 NK Al 50	9.53	3/8
L13001395	LOKring 10 NK Al 50	10	-
L13004273	LOKring 12 NK Al 50	12	-
L13001270	LOKring 13 NK Al 50	12.7	1/2
L13001272	LOKring 15 NK Al 50	15	-
L13001273	LOKring 16 NK Al 50	16	5/8
L13001274	LOKring 18 NK Al 50	18	-
L13001275	LOKring 19 NK Al 50	19	3/4
L13001600	LOKring 20 NK Al 50	20	-
L13001276	LOKring 22 NK Al 50	22	7/8
L13003824	LOKring 25,4 NK Al 50	25.4	1
L13003556	LOKring 28 NK Al 50	28	-
L13003717	LOKring 28,6 NK Al 50	28.6	1 1/8
L13003557	LOKring 35 NK Al 50	35	1 3/8

CONNECTORS

WITH SCHRADER VALVE FOR FAST SERVICE

LOKRING: x NK MS SV 50 | Brass connectors with schrader valve



LOKRING connectors with 1/4" SAE schrader valve**

For connecting copper and/or steel tubes with identical tube outer diameters and a 1/4" schrader valve connection.

Article no.	Article name	Tube outer -ø*	
		[mm]	[inches]
L13004612	LOKring 6 NK Ms SV 50	6	-
L13001505	LOKring 6,35 NK Ms SV 50	6.35	1/4
L13001504	LOKring 8 NK Ms SV 50	8	5/16
L13001398	LOKring 9,53 NK Ms SV 50	9.53	3/8
L13001399	LOKring 10 NK Ms SV 50	10	-
L13001221	LOKring 12 NK Ms SV 50	12	-
L13001752	LOKring 12,7 NK Ms SV 50	12.7	1/2
L13001225	LOKring 15 NK Ms SV 50	15	-
L13001324	LOKring 16 NK Ms SV 50	16	5/8
L13001325	LOKring 18 NK Ms SV 50	18	-
L13001334	LOKring 19 NK Ms SV 50	19	3/4
L13001326	LOKring 20 NK Ms SV 50	20	-
L13001327	LOKring 22 NK Ms SV 50	22	7/8

* Further sizes available on request.
 ** Please see page 36 on how to use LOKIN stabilisation inserts.

LOKRING: x NK AL SV 50 | Aluminium connectors with schrader valve



LOKRING Kupplungen mit 1/4" SAE Schraderventil

For connecting aluminium tubes or for connecting aluminium tubes to copper or steel tubes with identical tube outer diameters with 1/4" SAE schrader valve.

Article no.	Article name	Tube outer -ø*	
		[mm]	[inches]
L13002376	LOKring 9,53 NK Al SV 50	9.53	3/8
L13002377	LOKring 13 NK Al SV 50	13	1/2

* Further sizes available on request.
 ** Cover cap included in the scope of supply.



T-CONNECTORS

FOR CONNECTING TUBES WITH 90° BRANCH

LOKRING: x NTK MS 50 | Brass T-connectors



LOKRING brass T-connectors**

For connecting copper and/or steel tubes with 90° branch and identical tube outer diameters.

* Further sizes available on request.
 ** Please see page 36 on how to use LOKIN stabilisation inserts.

Article no.	Article name	ø* tube 1 = tube 2 = tube 3	
		[mm]	[inches]
L13004614	LOKring 6 NTK Ms 50	6	—
L13001191	LOKring 6,35 NTK Ms 50	6.35	1/4
L13001192	LOKring 8 NTK Ms 50	8	5/16
L13001193	LOKring 9,53 NTK Ms 50	9.53	3/8
L13001194	LOKring 10 NTK Ms 50	10	—
L13001195	LOKring 12 NTK Ms 50	12	—
L13001698	LOKring 12,7 NTK Ms 50	12.7	1/2
L13001198	LOKring 16 NTK Ms 50	16	5/8
L13001190	LOKring 18 NTK Ms 50	18	—
L13001199	LOKring 19 NTK Ms 50	19	3/4
L13000812	LOKring 22 NTK Ms 50	22	7/8
L13003339	LOKring 28 NTK Ms 50	28	—
L13003338	LOKring 28,6 NTK Ms 50	28.6	11/8

LOKRING: x NTK AL 50 | Aluminium T-connectors



LOKRING aluminium T-connectors

For connecting aluminium tubes or for connecting aluminium tubes to copper or steel tubes with 90° branch with identical tube outer diameters.

* Further sizes available on request.

Article no.	Article name	ø* tube 1 = tube 2 = tube 3	
		[mm]	[inches]
L13003130	LOKring 9,53 NTK Al 50	9.53	3/8
L13003176	LOKring 10 NTK Al 50	10	—
L13003170	LOKring 16 NTK Al 50	16	5/8

ELBOWS AND LONG RADIUS ELBOWS WITH LOKRING CONNECTIONS SAVES SPACE GOING ROUND CORNERS

LOKRING: x NWK MS 50 | Brass elbow connectors



LOKRING Brass elbow connectors*

For connecting copper and/or steel tubes with 90° branch and identical tube outer diameters.

Article no.	Article name	Tube outer \varnothing^*	
		[mm]	[inches]
L13004621	LOKring 6 NWK Ms 50	6	-
L13001495	LOKring 6,35 NWK Ms 50	6.35	1/4
L13001978	LOKring 8 NWK Ms 50	8	5/16
L13001397	LOKring 9,53 NWK Ms 50	9.53	3/8
L13001313	LOKring 10 NWK Ms 50	10	-
L13001205	LOKring 12 NWK Ms 50	12	-
L13001699	LOKring 12,7 NWK Ms 50	12.7	1/2
L13001201	LOKring 16 NWK Ms 50	16	5/8
L13001203	LOKring 18 NWK Ms 50	18	-
L13001202	LOKring 19 NWK Ms 50	19	3/4
L13001204	LOKring 22 NWK Ms 50	22	7/8
L13003344	LOKring 25,4 NWK Ms 50	25.4	1
L13002732	LOKring 28 NWK Ms 50	28	-
L13003182	LOKring 28,6 NWK Ms 50	28.6	11/8

* Please see page 36 on how to use LOKIN stabilisation inserts.

LOKRING: x NBK CU 50 | Brass long radius elbow with LOKRING connections



LOKRING brass elbow 90° with LOKRING connections*

For connecting copper and/or steel tubes with identical tube outer diameters with better flow behaviour.

Article no.	Article name	Tube outer \varnothing^*	
		[mm]	[inches]
L13004622	LOKring 6 NBK Cu 50	6	-
L13004623	LOKring 6,35 NBK Cu 50	6.35	1/4
L13004624	LOKring 8 NBK Cu 50	8	5/16
L13004625	LOKring 9,53 NBK Cu 50	9.53	3/8
L13004626	LOKring 10 NBK Cu 50	10	-
L13004627	LOKring 12 NBK Cu 50	12	-
L13004628	LOKring 12,7 NBK Cu 50	12.7	1/2
L13003944	LOKring 16 NBK Cu 50	16	5/8
L13004115	LOKring 18 NBK Cu 50	18	-
L13003945	LOKring 19 NBK Cu 50	19	3/4
L13003946	LOKring 22 NBK Cu 50	22	7/8
L13003979	LOKring 25,4 NBK Cu 50	25.4	1
L13003947	LOKring 28 NBK Cu 50	28	-
L13003948	LOKring 28,6 NBK Cu 50	28.6	11/8
L13003949	LOKring 35 NBK Cu 50	35	13/8

* Please see page 36 on how to use LOKIN stabilisation inserts.

REDUCING CONNECTORS

TWO DIFFERENT DIAMETERS – ONE CONNECTION!

LOKRING: x NR MS 50 | Brass reducing connectors



LOKRING brass reducing connectors**

LOKRING brass reducing connections, one of our special strengths. Choose »your« individual tube combination from our standard range in diameters from 6 mm up to and including 35 mm. For connecting copper and/or steel tubes with different tube outer diameters.

* Further sizes available on request.

** Please see page 36 on how to use LOKIN stabilisation inserts.

SELECTION AID: STEP 01 | Choose reducing connector

	Tube-ø		to tube-ø of the reducer														
	mm	inches	6	1/4 6.35	5/16 8	3/8 9.53	10	12	1/2 12.7	5/8 16	18	3/4 19	7/8 22	1 25.4	28	1 1/8 28.6	
6.35 1/4			01	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8 5/16			02	03	+	+	+	+	+	+	+	+	+	+	+	+	+
9.53 3/8			04	05	06	+	+	+	+	+	+	+	+	+	+	+	+
10 -			07	08	09	10	+	+	+	+	+	+	+	+	+	+	+
12 -			11	12	13	14	15	+	+	+	+	+	+	+	+	+	+
12.7 1/2			16	17	18	19	20	21	+	+	+	+	+	+	+	+	+
16 5/8			22	23	+	24	25	26	27	+	+	+	+	+	+	+	+
18 -			+	+	+	+	28	29	+	30	+	+	+	+	+	+	+
19 3/4			+	+	+	31	+	32	33	34	35	+	+	+	+	+	+
22 7/8			+	+	+	+	36	+	37	38	39	40	41	+	+	+	+
25.4 1			+	+	+	+	+	+	+	+	+	42	43	+	+	+	+
28 -			+	+	+	+	+	44	+	45	46	+	47	+	+	+	+
28.6 1 1/8			+	+	+	+	+	+	+	48	49	+	50	51	52	53	+
35 1 3/8			+	+	+	+	+	+	+	+	+	+	54	+	55	56	+
mm			6	6.35	8	9.53	10	12	12.7	16	18	19	22	25.4	28	28.6	
inches			1/4	5/16	3/8				1/2	5/8		3/4	7/8	1		1 1/8	



How to read the table: from left to right.

The example marked shows a reducing connector with tube-ø 6.35 mm to tube-ø 6 mm of the reducer.

01

The number refers to selection aid step 02 with the ordering parameters.



SELECTION AID: STEP 02 | Choose article number and name

No.	Article no.	Article name	ø* tube 1 [mm inches]	→	ø* tube 2 [mm inches]
01	L13004603	LOKring 6,35/6 NR Ms 50	6.35 1/4	→	6 -
02	L13004604	LOKring 8/6 NR Ms 50	8 5/16	→	6 -
03	L13001519	LOKring 8/6,35 NR Ms 50	8 5/16	→	6.35 1/4
04	L13004606	LOKring 9,53/6 NR Ms 50	9.53 3/8	→	6 -
05	L13001619	LOKring 9,53/6,35 NR Ms 50	9.53 3/8	→	6.35 1/4
06	L13001629	LOKring 9,53/8 NR Ms 50	9.53 3/8	→	8 5/16
07	L13004607	LOKring 10/6 NR Ms 50	10 -	→	6 -
08	L13001649	LOKring 10/6,35 NR Ms 50	10 -	→	6.35 1/4
09	L13001651	LOKring 10/8 NR Ms 50	10 -	→	8 5/16
10	L13001396	LOKring 10/9,53 NR Ms 50	10 -	→	9.53 3/8
11	L13004608	LOKring 12/6 NR Ms 50	12 -	→	6 -
12	L13001230	LOKring 12/6,35 NR Ms 50	12 -	→	6.35 1/4
13	L13001232	LOKring 12/8 NR Ms 50	12 -	→	8 5/16
14	L13001233	LOKring 12/9,53 NR Ms 50	12 -	→	9.53 3/8
15	L13001234	LOKring 12/10 NR Ms 50	12 -	→	10 -
16	L13004609	LOKring 12,7/6 NR Ms 50	12.7 1/2	→	6 -
17	L13001830	LOKring 12,7/6,53 NR Ms 50	12.7 1/2	→	6.35 1/4
18	L13001831	LOKring 12,7/8 NR Ms 50	12.7 1/2	→	8 5/16
19	L13001702	LOKring 12,7/9,53 NR Ms 50	12.7 1/2	→	9.53 3/8
20	L13001789	LOKring 12,7/10 NR Ms 50	12.7 1/2	→	10 -
21	L13001822	LOKring 12,7/12 NR Ms 50	12.7 1/2	→	12 -
22	L13004610	LOKring 16/6 NR Ms 50	16 5/8	→	6 -
23	L13003550	LOKring 16/6,35 NR Ms 50	16 5/8	→	6.35 1/4
24	L13001407	LOKring 16/9,53 NR Ms 50	16 5/8	→	9.53 3/8
25	L13001408	LOKring 16/10 NR Ms 50	16 5/8	→	10 -
26	L13001314	LOKring 16/12 NR Ms 50	16 5/8	→	12 -
27	L13001703	LOKring 16/12,7 NR Ms 50	16 5/8	→	12.7 1/2
28	L13002450	LOKring 18/10 NR Ms 50	18 -	→	10 -

No.	Article no.	Article name	ø* tube 1 [mm inches]	→	ø* tube 2 [mm inches]
29	L13001766	LOKring 18/12 NR Ms 50	18 -	→	12 -
30	L13001315	LOKring 18/16 NR Ms 50	18 -	→	16 5/8
31	L13003552	LOKring 19/9,53 NR Ms 50	19 3/4	→	9.53 3/8
32	L13003088	LOKring 19/12 NR Ms 50	19 3/4	→	12 -
33	L13001826	LOKring 19/12,7 NR Ms 50	19 3/4	→	12.7 1/2
34	L13001446	LOKring 19/16 NR Ms 50	19 3/4	→	16 5/8
35	L13001823	LOKring 19/18 NR Ms 50	19 3/4	→	18 5/8
36	L13003551	LOKring 22/9,53 NR Ms 50	22 7/8	→	9.53 3/8
37	L13001961	LOKring 22/12 NR Ms 50	22 7/8	→	12 -
38	L13003897	LOKring 22/12,7 NR Ms 50	22 7/8	→	12.7 1/2
39	L13001400	LOKring 22/16 NR Ms 50	22 7/8	→	16 5/8
40	L13001316	LOKring 22/18 NR Ms 50	22 7/8	→	18 -
41	L13001447	LOKring 22/19 NR Ms 50	22 7/8	→	19 3/4
42	L13003333	LOKring 25,4/19 NR Ms 50	25.4 1	→	19 3/4
43	L13004003	LOKring 25,4/22 NR Ms 50	25.4 2	→	22 7/8
44	L13004179	LOKring 28/12 NR Ms 50	28 -	→	12 -
45	L13003534	LOKring 28/16 NR Ms 50	28 -	→	16 5/8
46	L13003634	LOKring 28/18 NR Ms 50	28 -	→	18 -
47	L13003216	LOKring 28/22 NR Ms 50	28 -	→	22 7/8
48	L13003334	LOKring 28,6/12,7 NR Ms 50	28.6 1 1/8	→	12.7 1/2
49	L13003335	LOKring 28,6/16 NR Ms 50	28.6 1 1/8	→	16 5/8
50	L13003543	LOKring 28,6/19 NR Ms 50	28.6 1 1/8	→	19 3/4
51	L13003106	LOKring 28,6/22 NR Ms 50	28.6 1 1/8	→	22 7/8
52	L13003336	LOKring 28,6/25,4 NR Ms 50	28.6 1 1/8	→	25.4 1
53	L13003696	LOKring 28,6/28 NR Ms 50	28.6 1 1/8	→	28 -
54	L13004088	LOKring 35/22 NR Ms 50	35 1 3/8	→	22 7/8
55	L13004087	LOKring 35/28 NR Ms 50	35 1 3/8	→	28 -
56	L13004611	LOKring 35/28,6 NR Ms 50	35 1 3/8	→	28.6 1 1/8



REDUCING CONNECTORS

TWO DIFFERENT DIAMETERS – ONE CONNECTION!

LOKRING: x NR AL 50 | Aluminium reducing connectors



LOKRING Aluminium reducing connectors*

In addition to our brass reducers, we also provide you with the possibility of putting together your very own aluminium tube combination, too. For connecting two aluminium tubes or for connecting aluminium tubes to copper or steel tubes with identical tube outer diameters.

* Further sizes available on request.

SELECTION AID: STEP 01 | Choose reducing connector

		Tube- \varnothing to tube- \varnothing of the reducer													
		inches		5/16		3/8		5/8							
		5	6	8	9	9.53	10	12	13	15	16	18	19	-	-
mm	inches														
6	-	01													
8	-		02												
9.53	3/8		03	04	05										
10	-		06	07		08									
12	-		09	10		11	12								
15	-							13	14						
16	5/8		15			16	17		18	19					
17	-										20				
18	-										21				
19	3/4		22			23					24	25			
20	-													26	
22	1 3/8					27					28		29		
mm	inches	5	6	8	9	9.53	10	12	13	15	16	18	19	-	-
		inches		5/16		3/8		5/8							



How to read the table: from left to right.

The example marked shows a reducing connector with tube- \varnothing 6.35 mm to tube- \varnothing 5 mm of the reducer.

01

The number refers to selection aid step 02 with the ordering parameters.



SELECTION AID: STEP 02 | Choose article number and name

No.	Article no.	Article name	ø* tube 1 [mm inches]	→	ø* tube 2 [mm inches]
01	L13001616	LOKring 6/5 NR Al 50	6 -	→	5 -
02	L13001596	LOKring 8/6 NR Al 50	8 5/16	→	6 -
03	L13001687	LOKring 9,53/6 NR Al 50	9.53 3/8	→	6 -
04	L13001443	LOKring 9,53/8 NR Al 50	9.53 3/8	→	8 5/16
05	L13001809	LOKring 9,53/9 NR Al 50	9.53 3/8	→	9 -
06	L13001489	LOKring 10/6 NR Al 50	10 -	→	6 -
07	L13001617	LOKring 10/8 NR Al 50	10 -	→	8 5/16
08	L13001610	LOKring 10/9,53 NR Al 50	10 -	→	9.53 3/8
09	L13001277	LOKring 12/6 NR Al 50	12 -	→	6 -
10	L13001577	LOKring 12/8 NR Al 50	12 -	→	8 5/16
11	L13001278	LOKring 12/9,53 NR Al 50	12 -	→	9.53 3/8
12	L13001279	LOKring 12/10 NR Al 50	12 -	→	10 -
13	L13003518	LOKring 15/12 NR Al 50	15 -	→	12 -
14	L13003809	LOKring 15/13 NR Al 50	15 -	→	13 -
15	L13001474	LOKring 16/6 NR Al 50	16 5/8	→	6 -

No.	Article no.	Article name	ø* tube 1 [mm inches]	→	ø* tube 2 [mm inches]
16	L13001475	LOKring 16/9,53 NR Al 50	16 5/8	→	9.53 3/8
17	L13001808	LOKring 16/10 NR Al 50	16 5/8	→	10 -
18	L13001309	LOKring 16/13 NR Al 50	16 5/8	→	13 -
19	L13001440	LOKring 16/15 NR Al 50	16 5/8	→	15 -
20	L13003169	LOKring 17/16 NR Al 50	17 -	→	16 5/8
21	L13003490	LOKring 18/16 NR Al 50	18 -	→	16 5/8
22	L13001476	LOKring 19/6 NR Al 50	19 3/4	→	6 -
23	L13003558	LOKring 19/9,53 NR Al 50	19 3/4	→	9.53 3/8
24	L13001421	LOKring 19/16 NR Al 50	19 3/4	→	16 5/8
25	L13001691	LOKring 19/18 NR Al 50	19 3/4	→	18 -
26	L13001725	LOKring 20/19 NR Al 50	20 -	→	19 3/4
27	L13003559	LOKring 22/9,53 NR Al 50	22 7/8	→	9.53 3/8
28	L13003658	LOKring 22/16 NR Al 50	22 7/8	→	16 5/8
29	L13003560	LOKring 22/19 NR Al 50	22 7/8	→	19 3/4

REDUCING CONNECTORS WITH SCHRADER VALVE FOR FAST SERVICE

LOKRING: x NR MS SV | Brass reducing connectors with schrader valve



LOKRING reducing connectors with schrader valve**

For connecting copper and/or steel tubes with different tube outer diameters. A 1/4" SAE schrader valve connection makes fast and straightforward service possible.

* Further sizes available on request.
** Please see page 36 on how to use LOKIN stabilisation inserts.

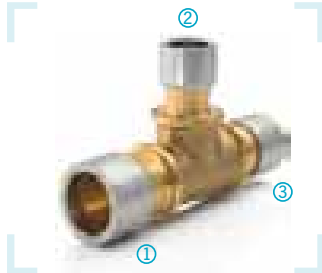
Article no.	Article name	ø* tube 1 [mm inch]	→	ø* tube 2 [mm inch]
L13004613	LOKring 8/6 NR Ms SV 50	8 5/16	→	6 -
L13001618	LOKring 8/6,35 NR Ms SV 50	8 5/16	→	6.35 1/4
L13004639	LOKring 9,53/6 NR Ms SV 50	9.53 3/8	→	6 -
L13001740	LOKring 9,53/6,35 NR Ms SV 50	9.53 3/8	→	6.35 1/4



T-REDUCERS

SOPHISTICATEDLY SIMPLE

LOKRING: x NTR MS 50 | Brass T-reducing connectors



LOKRING brass T-reducing connectors**

For connecting copper and/or steel tubes with different tube outer diameters.

* Further sizes available on request.

** Please see page 36 on how to use LOKIN stabilisation inserts.

Article no.	Article name	ø* tube ①		→	ø* tube ②		→	ø* tube ③	
		[mm]	[inches]		[mm]	[inches]		[mm]	[inches]
L13004615	LOKring 6,35/9,53/6,35 NTR Ms 50	6.35	1/4	→	5.53	3/8	→	6.35	1/4
L13001331	LOKring 8/6/6 NTR Ms 50	8	5/16	→	6	-	→	6	-
L13003433	LOKring 8/9,53/8 NTR Ms 50	8	5/16	→	9.53	3/8	→	8	1/4
L13003885	LOKring 9,53/12,7/6 NTR Ms 50	9.53	3/8	→	12.7	1/2	→	6	-
L13004616	LOKring 9,53/6/6 NTR Ms 50	9.53	3/8	→	6	-	→	6	-
L13003180	LOKring 9,53/6,35/6,35 NTR Ms 50	9.53	3/8	→	6.35	1/4	→	6.35	1/4
L13004617	LOKring 9,53/6/9,53 NTR Ms 50	9.53	3/8	→	6	-	→	9.53	3/8
L13001560	LOKring 9,53/6,35/9,53 NTR Ms 50	9.53	3/8	→	6.35	1/4	→	9.53	3/8
L13001606	LOKring 9,53/9,53/6 NTR Ms 50	9.53	3/8	→	9.53	3/8	→	6	-
L13001445	LOKring 10/10/6 NTR Ms 50	10	-	→	10	-	→	6	-
L13001356	LOKring 10/6/10 NTR Ms 50	10	-	→	6	-	→	10	-
L13001885	LOKring 10/6/6 NTR Ms 50	10	-	→	6	-	→	6	-
L13001701	LOKring 12,7/16/12,7 NTR Ms 50	12.7	1/2	→	16	5/8	→	12.7	1/2
L13004618	LOKring 12,7/6,35/12,7 NTR Ms 50	12.7	1/2	→	6.35	1/4	→	12.7	1/2
L13004619	LOKring 12,7/6,35/9,53 NTR Ms 50	12.7	1/2	→	6.35	1/4	→	9.53	3/8
L13003357	LOKring 12,7/9,53/9,53 NTR Ms 50	12.7	1/2	→	9.53	3/8	→	9.53	3/8
L13003840	LOKring 16/12,7/12,7 NTR Ms 50	16	5/8	→	12.7	1/2	→	12.7	1/2
L13002394	LOKring 16/12,7/16 NTR Ms 50	16	5/8	→	12.7	1/2	→	16	5/8
L13004077	LOKring 16/12/16 NTR Ms 50	16	5/8	→	12	-	→	16	5/8
L13001448	LOKring 16/19/16 NTR Ms 50	16	5/8	→	19	3/4	→	16	5/8
L13004620	LOKring 16/6/16 NTR Ms 50	16	5/8	→	6	-	→	16	5/8
L13003387	LOKring 16/6,35/16 NTR Ms 50	16	5/8	→	6.35	1/4	→	16	5/8
L13001922	LOKring 16/9,53/12,7 NTR Ms 50	16	5/8	→	9.53	3/8	→	12.7	1/2
L13001828	LOKring 18/12/18 NTR Ms 50	18	-	→	12	-	→	18	-
L13003881	LOKring 19/12,7/12,7 NTR Ms 50	19	3/4	→	12.7	1/2	→	12.7	1/2
L13003358	LOKring 19/12,7/16 NTR Ms 50	19	3/4	→	12.7	1/2	→	16	5/8
L13003197	LOKring 19/12,7/19 NTR Ms 50	19	3/4	→	12.7	1/2	→	19	3/4
L13002507	LOKring 19/16/16 NTR Ms 50	19	3/4	→	16	5/8	→	16	5/8
L13002693	LOKring 19/16/19 NTR Ms 50	19	3/4	→	16	5/8	→	19	3/4
L13003882	LOKring 19/19/12,7 NTR Ms 50	19	3/4	→	19	3/4	→	12.7	1/2
L13003918	LOKring 22/12,7/19 NTR Ms 50	22	7/8	→	12.7	1/2	→	19	3/4
L13001490	LOKring 22/12/22 NTR Ms 50	22	7/8	→	12	-	→	22	7/8
L13003842	LOKring 22/16/19 NTR Ms 50	22	7/8	→	16	5/8	→	19	3/4
L13001411	LOKring 22/16/22 NTR Ms 50	22	7/8	→	16	5/8	→	22	7/8
L13003883	LOKring 28,6/19/19 NTR Ms 50	28.6	11/8	→	19	3/4	→	19	3/4
L13003884	LOKring 28,6/28,6/16 NTR Ms 50	28.6	11/8	→	28.6	11/8	→	16	5/8

ELBOW REDUCING CONNECTORS

SAVES SPACE GOING ROUND CORNERS

LOKRING: x NWR MS 50 | Brass elbow reducing connectors



LOKRING brass elbow reducing connectors*

For connecting copper and/or steel tubes with different tube outer diameters.

* Please see page 36 on how to use LOKIN stabilisation inserts.

SELECTION AID: STEP 01 | Choose reducing connector

Tube-ø	to tube-ø of the reducer											
	inches	3/16	1/4	5/16	3/8	5/8	-	-	-	-	-	-
mm	5	6	6.35	8	9.53	16	-	-	-	-	-	-
8 5/16	01	02	03									
9.53 3/8		04	05	06								
10 -					07							
12.7 1/2				08	09							
19 3/4		10										
22 7/8						11						



How to read the table: from left to right.
The example marked shows a reducing connector with tube-ø 8 mm to tube-ø 5 mm of the reducer.

01

The number refers to selection aid step 02 with the ordering parameters.

SELECTION AID: STEP 02 | Choose article number and name

No.	Article no.	Article name	ø* tube 1 [mm inches]	→	ø* tube 2 [mm inches]
01	L13002851	LOKring 8/5 NWR MS 50	8 5/16	→	5 3/16
02	L13004639	LOKring 8/6 NWR MS 50	8 5/16	→	6 -
03	L13002491	LOKring 8/6,35 NWR Ms 50	8 5/16	→	6.35 1/4
04	L13004640	LOKring 9,53/6 NWR MS 50	9.53 3/8	→	6 -
05	L13001485	LOKring 9,53/6,35 NWR MS 50	9.53 3/8	→	6.35 1/4
06	L13001672	LOKring 9,53/8 NWR MS 50	9.53 3/8	→	8 5/16

No.	Article no.	Article name	ø* tube 1 [mm inches]	→	ø* tube 2 [mm inches]
07	L13003369	LOKring 10/9,53 NWR MS 50	10 -	→	9.53 3/8
08	L13003026	LOKring 12,7/8 NWR MS 50	12.7 1/2	→	8 5/16
09	L13002091	LOKring 12,7/9,53 NWR MS 50	12.7 1/2	→	9.53 3/8
10	L13003393	LOKring 19/6 NWR MS 50	19 3/4	→	6 -
11	L13002397	LOKring 22/16 NWR MS 50	22 7/8	→	16 5/8



STABILISATION INSERTS



LOKIN – A STEP TOWARDS ADDITIONAL SAFETY

BECAUSE SAFE IS QUITE SIMPLY SAFER

We have developed our LOKIN stabilisation inserts to provide additional protection to tube systems that are exposed to mechanical loads, for example. They support the calibration of the ends of the copper tubes, thus guaranteeing the safe

use of LOKRINGS. Tensile tests carried out by an independent institute have shown that the extraction force is doubled when a stabilisation insert is used.*



* Test with hard copper tube (R290) according to EN-12735-1, \varnothing 35 mm x 1.5 mm

LOKIN: x VH MS y | Stabilisation insert



LOKIN brass stabilisation inserts*

Brings additional safety into your LOKRING connection.

We have developed the LOKIN stabilisation insert especially on account of the increase in refrigerants with higher pressures. In addition to the additional safety component, the stabilisation insert supports the calibration of roll goods. The LOKIN stabilisation inserts must be inserted into the ends of the tubes before LOKRING assembly.

* Determine the outer diameter (x) of the tube used, as well as its wall thickness (y). The adjacent table is sorted according to wall thicknesses.

*	Article no.	Article name	Tube-ø (x)		Wall thickness (y)	
			[mm inches]	[mm]		
0,8	L12003155	LOKin 6 VH Ms 08	6	-	0.8	
	L12003084	LOKin 6,35 VH Ms 08	6.35	1/4	0.8	
	L12002894	LOKin 8 VH Ms 08	8	5/16	0.8	
	L12003085	LOKin 9,53 VH Ms 08	9.53	3/8	0.8	
	L12002457	LOKin 10 VH Ms 08	10	-	0.8	
	L12003087	LOKin 12,7 VH Ms 08	12.7	1/2	0.8	
0,9	L12003086	LOKin 9,53 VH Ms 09	9.53	3/8	0.9	
	L12003088	LOKin 12,7 VH Ms 09	12.7	1/2	0.9	
	L12003089	LOKin 16 VH Ms 09	16	5/8	0.9	
	L12003091	LOKin 19 VH Ms 09	19	3/4	0.9	
	1,0	L12003156	LOKin 6 VH Ms 10	6	-	1.0
L12002174		LOKin 6,35 VH Ms 10	6.35	1/4	1.0	
L12002175		LOKin 8 VH Ms 10	8	5/16	1.0	
L12001988		LOKin 9,53 VH Ms 10	9.53	3/8	1.0	
L12002018		LOKin 10 VH Ms 10	10	-	1.0	
L12002017		LOKin 12 VH Ms 10	12	-	1.0	
L12001989		LOKin 12,7 VH Ms 10	12.7	1/2	1.0	
L12001990		LOKin 16 VH Ms 10	16	5/8	1.0	
L12002033		LOKin 18 VH Ms 10	18	-	1.0	
L12001991		LOKin 19 VH Ms 10	19	3/4	1.0	
L12001997		LOKin 22 VH Ms 10	22	7/8	1.0	
L12002547		LOKin 25,4 VH Ms 10	25.4	1	1.0	
L12002550		LOKin 28,6 VH Ms 10	28.6	1 1/8	1.0	
1,1		L12003090	LOKin 16 VH Ms 11	16	5/8	1.1
		L12003092	LOKin 19 VH Ms 11	19	3/4	1.1
	L12003093	LOKin 22 VH Ms 11	22	7/8	1.1	
1,2	L12002766	LOKin 19 VH Ms 12	19	3/4	1.2	
	L12002895	LOKin 22 VH Ms 12	22	7/8	1.2	
	L12003069	LOKin 25,4 VH Ms 12	25.4	1	1.2	
	L12003067	LOKin 28,6 VH Ms 12	28.6	1 1/8	1.2	
	L12003070	LOKin 35 VH Ms 12	35	1 3/8	1.2	
1,4	L12003094	LOKin 35 VH Ms 14	35	1 3/8	1.4	
1,5	L12003068	LOKin 28 VH Ms 15	28	-	1.5	
	L12002530	LOKin 35 VH Ms 15	35	1 3/8	1.5	

EURO FLARE-FITTINGS

THE QUICK CONNECTION




INSTALLED IN NO TIME

LOKRING EURO flare-fittings, the fast and simple solution for the installation and repair of air-conditioning systems. The pre-pressed copper seal on the muff ensures safe assembly without the seal slipping even in spots that are difficult to reach. The one-sided LOKRING connection on the EURO flare-fitting allows direct connection to the copper pipe.



TOP CONNECTIONS

Whether you are a beginner or convinced user, you will find our comprehensive range of tube connections with the respective assembly tools here. This system will make you a specialist in solder-free tube connections in the twinkling of an eye.

Subject	Page
 EURO flare-fittings	038
..... EURO flare-fitting with LOKRING connection	039
..... EURO flare-fitting seals	039
..... EURO flare-fitting tools	040

LOKRING: LR-EURO-x-EBK | EURO flare-fittings**EURO flare-fittings with LOKRING connection**

EURO flare-fitting with LOKRING connection
– the clean and fast solution.

* SW = Wrench size
** SAE = Specification in inches

Article no.	Article name	ø tube		→	ø thread	
		[mm inches]			[SW* SAE**]	
L13004631	LOKring LR-EURO-06-EBK	6	-	→	17	1/4
L13004632	LOKring LR-EURO-06-EBK -3/8"SAE	6	-	→	22	3/8
L13004320	LOKring LR-EURO-06.35-EBK	6.35	1/4	→	17	1/4
L13004321	LOKring LR-EURO-06.35-EBK -3/8"SAE	6.35	1/4	→	22	3/8
L13004322	LOKring LR-EURO-09.53-EBK	9.53	3/8	→	22	3/8
L13004323	LOKring LR-EURO-09.53-EBK -1/2"SAE	9.53	3/8	→	24	1/2
L13004324	LOKring LR-EURO-10-EBK	10	-	→	22	3/8
L13004325	LOKring LR-EURO-12-EBK	12	-	→	24	1/2
L13004326	LOKring LR-EURO-12.7-EBK	12.7	1/2	→	22	1/2
L13004327	LOKring LR-EURO-12.7-EBK -5/8"SAE	12.7	1/2	→	24	5/8
L13004328	LOKring LR-EURO-16-EBK	16	5/8	→	27	5/8
L13004329	LOKring LR-EURO-16-EBK -3/4"SAE	16	5/8	→	36	3/4
L13004330	LOKring LR-EURO-18-EBK	18	-	→	36	3/4
L13004331	LOKring LR-EURO-19-EBK	19	-	→	36	3/4

LOKRING: LR-EURO-x-EB | EURO flare-fittings**EURO flare-fittings without LOKRING connection**

Can be used in combination with
LOKRING elbow connectors, LOKRING
T-connectors and their reducers.

* SW = Wrench size
** SAE = Specification in inches

Article no.	Article name	ø tube		→	ø thread	
		[mm inches]			[SW* SAE**]	
L13004343	LOKring LR-EURO-06-EB	6	-	→	17	1/4
L13004344	LOKring LR-EURO-09.53-EB	9.53	3/8	→	22	3/8
L13004345	LOKring LR-EURO-10-EB	10	-	→	22	3/8
L13004346	LOKring LR-EURO-12-EB	12	1/2	→	24	1/2
L13004347	LOKring LR-EURO-16-EB	16	5/8	→	27	5/8
L13004348	LOKring LR-EURO-18-EB	18	-	→	36	3/4
L13004633	LOKring LR-EURO-19-EB	19	3/4	→	36	3/4

LOKRING: EBD-x | EURO flare-fitting seals**Seals for EURO flare-fittings**

Specially developed for our flare-fitting
screw attachment, the seals guarantee
a safe connection.

Article no.	Article name	Size
L12003036	LOKring Dichtung EBD-06	1/4" SAE
L12003037	LOKring Dichtung EBD-10	3/8" SAE
L12003038	LOKring Dichtung EBD-12	1/2" SAE
L12003039	LOKring Dichtung EBD-16	5/8" SAE
L12003040	LOKring Dichtung EBD-18	3/4" SAE
L12003143	LOKring Dichtung EBD-19	3/4" SAE

EURO FLARE-FITTING TOOLS

ALWAYS THE RIGHT TIGHTENING TORQUE

LOKTOOL: TW 200 | Torque wrench



LOKTOOL Torque wrench*

Torque wrench for the safe tightening of EURO flare-fitting screw connections.

* Supplied without insertable open-ended wrench.

Article no.	Article name	Description
L14003605	LOKtool TW200	Torque wrench

LOKTOOL: TW 17 | Insertable open-ended wrench



LOKTOOL Insertable open-ended wrench

Insertable open-ended wrench with wrench size 17

Article no.	Article name	Description
L14003608	LOKtool TW17	Insertable open-ended wrench size 17

LOKTOOL: TW 22 | Insertable open-ended wrench



LOKTOOL Insertable open-ended wrench

Insertable open-ended wrench with wrench size 22

Article no.	Article name	Description
L14003609	LOKtool TW22	Insertable open-ended wrench size 22

LOKTOOL: TW 24 | Insertable open-ended wrench



LOKTOOL Insertable open-ended wrench

Insertable open-ended wrench with wrench size 24

Article no.	Article name	Description
L14003610	LOKtool TW24	Insertable open-ended wrench size 24

LOKTOOL: TW 27 | Insertable open-ended wrench



LOKTOOL Insertable open-ended wrench

Insertable open-ended wrench with wrench size 27

Article no.	Article name	Description
L14003611	LOKtool TW27	Insertable open-ended wrench size 27

LOKBOX: K-TWS 200 | EURO flare-fitting tool set



LOKBOX EURO flare-fitting tool set

The professional package for tightening EURO flare-fitting screw connections to the right torque. Complete equipment for all sizes of EURO flare-fitting screw connections in one plastic case.

Scope of supply

- ⊕ Torque wrench
- ⊕ Insertable open-ended wrench in the sizes 17, 22, 24, 27
- ⊕ Sturdy plastic case

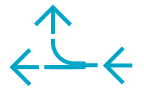
Article no.	Article name	Description
L13004642	LOKbox K-TWS 200	LOKBOX tool set

Separat erhältlich

L14003612	LOKbox K-TWS, leer	Plastic case, empty
L14003605	LOKtool TW200	Torque wrench
L14003608	LOKtool TW17	Insertable open-ended wrench size 17
L14003609	LOKtool TW22	Insertable open-ended wrench size 22
L14003610	LOKtool TW24	Insertable open-ended wrench size 24
L14003611	LOKtool TW27	Insertable open-ended wrench size 27

YT-BRANCHES

YOU DETERMINE THE CONNECTION



SIMPLE AND FAST


LOKRING YT-branch system has been specially developed by our engineers for the simple planning and fast installation of VRF air-conditioning systems or for retrofitting air-conditioning system. You save lots of time and money since fire protection measures are no longer required for operation to be maintained. Together with our range of LOKTUBE quality copper tubes, you

design refrigeration and air-conditioning systems easily, quickly and cleanly, all from a single source. Benefit from your advantage over competitors and achieve maximum customer satisfaction. That will not only help you to bind existing customers' loyalty further, the unique LOKRING YT-system will guarantee you new customers, too.



TOP CONNECTIONS

Whether you are a beginner or convinced user, you will find our comprehensive range of tube connections with the respective assembly tools here. This system will make you a specialist in solder-free tube connections in the twinkling of an eye.

Subject	Page
 YT-Branches	042
YT-branches metric and inch sizes	042
YT-branch sets metric and inch sizes	044

YT-BRANCHES

FOR REFRIGERATION AND AIR-CONDITIONING SYSTEMS

LOKTUBE: YT-BRANCH YT x | Metric sizes



LOKTUBE YT-branch metric sizes

Put your own YT-branch set together in combination with LOKRING connection technology.

Scope of supply

- ⊕ YT-branch
- ⊕ Foam insulation fire protection classification B1

* Further sizes on request. See the following page for pre-assembled sets.

Article no.	Article name	Inlet and outlet ø* [mm]
L12003011	LOKtube YT-branch YT 10	10
L12003012	LOKtube YT-branch YT 12	12
L12003014	LOKtube YT-branch YT 16	16
L14001996	LOKtube YT-branch YT 18	18
L14002143	LOKtube YT-branch YT 19	19
L14002144	LOKtube YT-branch YT 22	22
L14001998	LOKtube YT-branch YT 28	28
L14002936	LOKtube YT-branch YT 35	35

LOKTUBE: YT-BRANCH YT x | Inch sizes



LOKTUBE YT-branch inch sizes

Put your own YT-branch set together in combination with LOKRING connection technology.

Scope of supply

- ⊕ YT-branch
- ⊕ Foam insulation fire protection classification B1

* Further sizes on request. See the following page for pre-assembled sets.

Article no.	Article name	Inlet and outlet ø* [mm inches]
L12003010	LOKtube YT-branch YT 9.53	9.53 3/8
L12003013	LOKtube YT-branch YT 12.7	12.7 1/2
L14002590	LOKtube YT-branch YT 28.6	28.6 1 1/8
L12003014	LOKtube YT-branch YT 16	16 5/8
L14002143	LOKtube YT-branch YT 19	19 3/4
L14002144	LOKtube YT-branch YT 22	22 7/8
L14002936	LOKtube YT-branch YT 35	35 1 1/8

YT-BRANCH SETS

FOR REFRIGERATION AND AIR-CONDITIONING SYSTEMS

LOKRING: LOK YT-SET x - y - z | YT-branch sets metric sizes



LOKRING YT-branch sets metric sizes*

The pre-assembled LOK YT-set with LOKRING connections and foam insulation of fire protection classification B1 get you off to a flying start in installation.

Scope of supply

- ⊕ YT-branch
- ⊕ Foam insulation fire protection classification B1
- ⊕ 3 LOKRING tube connections
- ⊕ Stabilisation inserts**



Branch-ø	Article name incl. the tube ø	Article no.
10 mm	LOK YT-SET 10 - 6 - 6	L13004130
	LOK YT-SET 10 - 10 - 6	L13004131
	LOK YT-SET 10 - 10 - 10	L13004132
	LOK YT-SET 10 - 10 - 18	L13004189
12 mm	LOK YT-SET 12 - 10 - 10	L13004133
	LOK YT-SET 12 - 12 - 06	L13004166
	LOK YT-SET 12 - 12 - 10	L13004134
	LOK YT-SET 12 - 12 - 12	L13004197
16 mm	LOK YT-SET 16 - 10 - 10	L13004135
	LOK YT-SET 16 - 12 - 10	L13004136
	LOK YT-SET 16 - 12 - 12	L13004137
	LOK YT-SET 16 - 16 - 10	L13004138
	LOK YT-SET 16 - 16 - 12	L13004139
	LOK YT-SET 16 - 16 - 16	L13004187
	LOK YT-SET 16 - 16 - 22	L13004190
	LOK YT-SET 16 - 16 - 22	L13004190
18 mm	LOK YT-SET 18 - 12 - 10	L13004198
	LOK YT-SET 18 - 12 - 12	L13004205
	LOK YT-SET 18 - 16 - 10	L13004140
	LOK YT-SET 18 - 16 - 12	L13004203
	LOK YT-SET 18 - 16 - 16	L13004141
	LOK YT-SET 18 - 18 - 10	L13004142
	LOK YT-SET 18 - 18 - 12	L13004143
	LOK YT-SET 18 - 18 - 18	L13004199
22 mm	LOK YT-SET 22 - 16 - 12	L13004144
	LOK YT-SET 22 - 16 - 16	L13004168
	LOK YT-SET 22 - 18 - 12	L13004204
	LOK YT-SET 22 - 18 - 16	L13004167
	LOK YT-SET 22 - 18 - 18	L13004145
	LOK YT-SET 22 - 22 - 18	L13004202
28 mm	LOK YT-SET 22 - 22 - 22	L13004188
	LOK YT-SET 28 - 18 - 18	L13004147
	LOK YT-SET 28 - 22 - 16	L13004146
	LOK YT-SET 28 - 28 - 12	L13004180
	LOK YT-SET 28 - 28 - 16	L13004148
	LOK YT-SET 28 - 28 - 18	L13004149

* Further sizes on request

** For the use of standardised tube, all the stabilisation inserts to be used are included in the scope of supply.

LOKRING: LOK YT-SET x - y - z | YT-branch sets inch sizes



LOKRING YT-branch sets inch size*

The pre-assembled LOK YT-set with LOKRING connections and foam insulation of fire protection classification B1 get you off to a flying start in installation.

Scope of supply

- ④ YT-branch
- ④ Foam insulation fire protection classification B1
- ④ 3 LOKRING tube connections
- ④ Stabilisation inserts**

Branch-ø	Article name incl. the tube ø	Article no.
3/8" (9.53 mm)	LOK YT-SET 9.53 - 6 - 6	L13004150
	LOK YT-SET 9.53 - 9.53 - 6	L13004151
	LOK YT-SET 9.53 - 9.53 - 9.53	L13004152
1/2" (12.7 mm)	LOK YT-SET 12.7 - 9.53 - 9.53	L13004153
	LOK YT-SET 12.7 - 12.7 - 06	L13004191
	LOK YT-SET 12.7 - 12.7 - 9.53	L13004154
5/8" (16 mm)	LOK YT-SET 16 - 9.53 - 9.53	L13004192
	LOK YT-SET 16 - 12.7 - 9.53	L13004155
	LOK YT-SET 16 - 12.7 - 12.7	L13004156
	LOK YT-SET 16 - 16 - 9.53	L13004157
	LOK YT-SET 16 - 16 - 12.7	L13004158
	LOK YT-SET 16 - 16 - 16	L13004187
	LOK YT-SET 16 - 16 - 22	L13004190
3/4" (19 mm)	LOK YT-SET 19 - 16 - 9.53	L13004159
	LOK YT-SET 19 - 16 - 16	L13004193
	LOK YT-SET 19 - 19 - 9.53	L13004160
	LOK YT-SET 19 - 19 - 12.7	L13004161
7/8" (22 mm)	LOK YT-SET 22 - 16 - 12.7	L13004162
	LOK YT-SET 22 - 16 - 16	L13004168
	LOK YT-SET 22 - 19 - 16	L13004194
	LOK YT-SET 22 - 19 - 19	L13004163
	LOK YT-SET 22 - 22 - 22	L13004188
1 1/8" (28.6 mm)	LOK YT-SET 28.6 - 19 - 19	L13004165
	LOK YT-SET 28.6 - 22 - 16	L13004164
	LOK YT-SET 28.6 - 28.6 - 16	L13004195
	LOK YT-SET 28.6 - 28.6 - 19	L13004196

* Further sizes on request

** For the use of standardised tube, all the stabilisation inserts to be used are included in the scope of supply.

COPPER TUBE

FOR THE INSTALLATION AND REPAIR OF REFRIGERATION AND AIR-CONDITIONING SYSTEMS

SIMPLY CONNECTING WHAT BELONGS TOGETHER

To meet increasing demands in refrigeration and air-conditioning technology, we recommend our precision copper tube LOKtube. The copper tubes are manufactured by selected top-quality European manufacturers that have been certified to ISO 9001:2000. Specially developed for refrigeration and air-

conditioning technology, the LOKtubes fulfil the requirements of EU regulation EN 12735-1. Together with the LOKRING tube connection technology, we thus supply you with a perfectly matched system solution for producing tube lengths efficiently all from a single source.

LOKTUBE: CUR | Copper tube



LOKTUBE CUR copper tube

Top quality material (CU DHP 99.9). Hardness grade R220 according to EU standard: EN 12735-1. Guarantees perfect tolerance dimension for the use of LOKRING tube connections.

Article no.	Article name	Tube outer ø [mm]
Wall thickness 0.8 mm		
L14003290	LOKtube CUR 6,35 x 0,8 mm	6.35
L14003291	LOKtube CUR 7,94 x 0,8 mm	7.94
L14003293	LOKtube CUR 9,53 x 0,8 mm	9.53
L14003294	LOKtube CUR 12,7 x 0,8 mm	12.7
Wall thickness 1.0 mm		
L14003269	LOKtube CUR 6,35 x 1,0 mm	6.35
L14003292	LOKtube CUR 7,94 x 1,0 mm	7.94
L14003270	LOKtube CUR 9,53 x 1,0 mm	9.53
L14003271	LOKtube CUR 12,7 x 1,0 mm	12.7
L14003272	LOKtube CUR 15,87 x 1,0 mm	15.87
L14003273	LOKtube CUR 19,05 x 1,0 mm	19.05
L14003274	LOKtube CUR 22,2 x 1,0 mm	22.2

LOKTUBE: CURI | Copper tube



LOKTUBE CURI copper tube

Insulated in accordance with highest fire protection classification 1, top quality material (CU DHP 99.9). Hardness grade R220 according to EU standard: EN 12735-1. Guarantees perfect tolerance dimension for the use of LOKRING tube connections.

See right-hand page (CURI DUO) for properties of the copper tube and sheathing.

Article no.	Article name	Tube outer ø [mm]
Wall thickness 0.8 mm		
L14003296	LOKtube CURI 6,35 x 0,8 mm	6.35
L14003297	LOKtube CURI 9,53 x 0,8 mm	9.53
L14003298	LOKtube CURI 12,7 x 0,8 mm	12.7
L14003299	LOKtube CURI 15,87 x 0,8 mm	15.87
Wall thickness 1.0 mm		
L14003263	LOKtube CURI 6,35 x 1,0 mm	6.35
L14003264	LOKtube CURI 9,53 x 1,0 mm	9.53
L14003265	LOKtube CURI 12,7 x 1,0 mm	12.7
L14003266	LOKtube CURI 15,87 x 1,0 mm	15.87
L14003267	LOKtube CURI 19,05 x 1,0 mm	19.05
L14003268	LOKtube CURI 22,2 x 1,0 mm	22.2

LOKTUBE: CURI DUO | Copper tube



LOKTUBE CURI DUO copper tube

The LOKTUBE CURI DUO copper tube provides the most common combination of pressure and suction pipes in one. Insulated in accordance with highest fire protection classification 1, top quality material (CU DHP 99.9). Hardness grade R220 according to EU standard: EN 12735-1. Guarantees perfect tolerance dimension for the use of LOKRING tube connections

Areas of application

- ⊕ All split and bond systems in refrigeration and air-conditioning technology

The characteristics of the copper tube and the sheathing

The copper tube

Alloy	Copper min. CU-DHP 99.90
	according to standard EN 12735-1
Dimensions and tolerances	according to standard EN 12735-1
Total residue	< 38 mg/m ²
Mirror surface	bright interior
State	annealed
	R 220 according to standard UNI EN 12735-1
Corrosion resistance	very high
Suitability	for the new gases R 407 C and R 410 A

The sheathing

Sheathing	polyethylene foam (PE)
	according to the regulations of the ital. G 10/91
Colour	white
Insulation thickness	approx. 7 - 9 mm
Flame resistance	self-extinguishing Cl. 1
Marking	by laser at a distance of one metre
Characteristics	odourless and non-toxic, without HCFC
Heat conductivity at 40 °C	≤ 0.040 W/m K
Average density	approx. 30 kg/m ³
Operating temperature	-70° C to + 110° C
High steam Impermeability	mu > 5000



Article no.	Article name	Tube 1 outer-ø		Tube 2 outer-ø	Wall thickness	
		[mm]	[mm]		[mm]	[mm]
L14003275	LOKtube CURI DUO 6,35 x 0,8 / 9,53 x 0,8 mm	6.35	x 0.8	9.53	x 0.8	
L14003276	LOKtube CURI DUO 6,35 x 0,8 / 12,7 x 0,8 mm	6.35	x 0.8	12.7	x 0.8	
L14003277	LOKtube CURI DUO 6,35 x 0,8 / 15,88 x 1,0 mm	6.35	x 0.8	15.88	x 1.0	
L14003278	LOKtube CURI DUO 9,53 x 0,8 / 12,7 x 1,0 mm	9.53	x 0.8	12.7	x 1.0	
L14003279	LOKtube CURI DUO 9,53 x 0,8 / 15,88 x 1,0 mm	9.53	x 0.8	15.88	x 1.0	
L14003280	LOKtube CURI DUO 9,53 x 0,8 / 19,05 x 1,0 mm	9.53	x 0.8	19.05	x 1.0	
L14003281	LOKtube CURI DUO 12,7 x 0,8 / 19,05 x 1,0 mm	12.7	x 0.8	19.05	x 1.0	

COPPER TUBE

TOOLS AND ACCESSORIES

LOKTOOL: TC3-28 | Tube cutter



LOKTOOL tube cutter

New and professional tube cutter using roller bearing technology, which makes quick and easy tube cutting possible. Diameter range: 3 mm to 28 mm.

Article no.	Article name	Description
L14003600	LOKtool TC3-28	Tube cutter
L14003603	LOKtool CW3-28	Cutting wheel for TC3-28

LOKTOOL: TC6-38 | Tube cutter



LOKTOOL tube cutter

New and professional tube cutter using roller bearing technology, which makes quick and easy tube cutting possible. The integrated deburrer rounds this innovative tool off. Diameter range: 6 mm to 38 mm.

Article no.	Article name	Description
L14003601	LOKtool TC6-38	Tube cutter
L14003602	LOKtool CW6-38	Cutting wheel for TC6-38

LOKTOOL: RC1125 | Ratchet tube cutter



LOKTOOL ratchet tube cutter

High-quality ratchet tube cutter for the clean cutting of aluminium, copper and thin-walled steel tubes with an outer diameter of 8 mm to 28.5 mm.

Article no.	Article name	Description
L14002051	LOKtool RC1125	Ratchet tube cutter
L14002075	LOKtool RCS-1125	Cutting blade for RC-1125

LOKTOOL: RC375 | Ratchet tube cutter



LOKTOOL ratchet tube cutter

Extremely compact design ratchet tube cutter for the clean cutting of aluminium, copper and thin-walled steel tubes with an outer diameter of 4 mm to 13 mm.

Article no.	Article name	Description
L14000258	LOKtool RC375	Knarren-Rohrabschneider
L14002063	LOKtool RCS-375	Schneidmesser für RC-375

LOKTOOL: LRSZ | Tube cutting pliers



LOKTOOL tube cutting pliers

For the clean cutting of aluminium, copper and thin-walled steel tubes with an outer diameter of 4 mm to 16 mm. A movement through 120° is sufficient for cutting. Clean, perpendicular cuts are produced.

Article no.	Article name	Description
L14000166	LOKtool LRSZ	Tube cutting pliers
L13001304	LOKtool LRSM	Cutting blade for LRSZ

LOKTOOL: TC-1000 | Tube cutter



LOKTOOL tube cutter

For the clean cutting of aluminium, copper and thin-walled steel tubes with an outer diameter of 4 mm to 28 mm.

Article no.	Article name	Description
L14000022	LOKtool TC-1000	tube cutter
L13003601	LOKtool TCS-1000-75015	Copper cutting blade
L14000107	LOKtool TCS-1000-75046	Stainless steel cutting blade

LOKTOOL: TC-1050 | Tube cutter



LOKTOOL tube cutter

For the clean cutting of aluminium, copper and thin-walled steel tubes with an outer diameter of 4 mm to 15 mm.

Article no.	Article name	Description
L14001102	LOKtool TC-1050	Tube cutter
L14001103	LOKtool TCS-1050	Cutting blade for TC-1050

LOKTOOL: GRATFIX N-E | Tube deburrer



LOKTOOL tube deburrer

For the quick and clean deburring of tubes, edges and steel plates.

Article no.	Article name	Description
L14001362	LOKtool Gratfix N-E	Tube deburrer
L14001363	LOKtool N-E100	Spare blade for aluminium, steel and plastic
L14001364	LOKtool N-E200	Spare blade for brass, cast material and plastic



SERVICE IN REFRIGERATION AND AIR-CONDITIONING TECHNOLOGY

INSTALLATION AND MAINTENANCE MADE EASY





EXTRACTION, EVACUATION, CHARGING UNITS FOR MOBILE A/C SERVICING

VPSDIGITAL: VPS DIGITAL | Evacuating and charging station



VPSdigital refrigeration and air-conditioning service

With the VPSdigital you can carry out the processes of evacuation, vacuum leak test and refrigerant charging automatically. When combined with the extraction unit RG-69000-220, you have the functions of an A/C service unit available.

The evacuation and charging system conveniently supports the installation and servicing of white goods, air-conditioning and industrial refrigeration systems. Processes such as evacuation, leak test and precise charging are carried out and monitored automatically by the programmable control system.

The user-friendly software makes it even easier to carry out repair jobs properly. The digital link up between vacuum pump, charging scales and testing instruments makes professional work easier. The digital display takes over representation of the values that are otherwise shown separately on the manifold gauge, vacuum gauge and charging scales.

Features

- ⊕ Graphic display with background lighting
- ⊕ Straightforward and quick operation
- ⊕ Digital pressure value measurement for high and low pressure as well as vacuum
- ⊕ Integrated results printer
- ⊕ Flexible thanks to transport feature
- ⊕ Internal scales for refrigerant cartridges up to 5 kg
- ⊕ Connection for external scales WP100

Scope of supply

- ⊕ Service hoses blue and red (2.4m)
- ⊕ Quick couplers
- ⊕ Adapter for refrigerant bottles with W21,8-14 connection
- ⊕ Recovery valve
- ⊕ Bracket for liquid charging
- ⊕ Adapter for R410A air-conditioning systems

Article no.	Article name	Description
L13003815	VPSdigital	Evacuation and charging station

Technical data

Suitable for refrigerant	R22, R134a, R404a, R413a
Vacuum pump displacement	72 l/min
W x H x D in mm	430 x 400 x 370
Weight	25 kg
Power supply	220/240 V - 50/60 Hz

Available separately*

L13002136	LOKtool NFS-A-G+ W-2400-BV	Service hose blue	1
L13002137	LOKtool NFS-A-G+ W-2400-RV	Service hose red	1
L14000009	LOKplus 16-C	Quick coupler	2
L13004074	LOKplus W21,8-14	Adapter	1
L14000219	LOKplus EV-12	Recovery valve	1
L13001521	LOKplus HFFB-1	Bracket for liquid charging	1
L14001083	LOKplus R410A 1/4" SAE x 5/16" SAE	Adapter	1

* Quantity specifications refer to the set

VPSDIGITAL: WP100 | External scales



VPSdigital external scales

For use with the fully automatic evacuating and charging station VPSdigital. You can use refrigerant tanks with an overall weight of up to 100 kg. An exact fit with dimensions of 260 mm x 60 mm x 260 mm (W x H x D), the scales can be stored comfortably in the storage compartment of the VPSdigital Service and are always on hand quickly.

Article no.	Article name	Description
L13003816	VPSdigital WP100	External scales

LOKTOOL: RG-69000-220 | Extraction unit



LOKTOOL extraction unit

Made in USA. Professional extraction unit with exclusive type approval for the German market; easy to transport thanks to its compact design, making it ideal for mobile service on refrigeration and air-conditioning systems

Features

- ⊕ Suitable for all standard refrigerants (CFC – HFC – HCF, except NH3)
- ⊕ The extraction unit is equipped with a powerful oil-free compressor (1/2 hp). The innovative design combined with a cooling fan provides optimum cooling. The unit is switched off automatically as soon as the extraction process has been completed.

Article no.	Article name	Description
L14003138	RG-69000-220	Extraction unit

Technical data

Extraction rate in kg/h	Vapour 30, liquid 84
Connections	1/4" SAE
Safety pressure limiter	38 bar
Units for pressure values	bar and psi
Power supply	220/240 V - 50/60 Hz
L x H x D in mm	432 x 254 x 305
Weight	16 kg

LOKTOOL: RG-69200-220 | Extraction system



LOKTOOL extraction system

In addition to the features of LOKtool RG-69000-220, this system has a function for separating humidity, oil and soiling from the refrigerant. A sight glass with humidity indicator signalises when the filter dryer has to be replaced.

Features

- ⊕ Suitable for all standard refrigerants (CFC – HFC – HCF, except NH3)
- ⊕ Extraction unit with a powerful oil-free compressor (1/2 hp)
- ⊕ Function for separating humidity, oil and soiling from the refrigerant
- ⊕ Sight glass with humidity indicator

Article no.	Article name	Description
L14003606	RG-69200-220	Extraction system

Technical data

Extraction rate in kg/h	Vapour 30, liquid 84
Connections	1/4" SAE
Safety pressure limiter	38 bar
Units for pressure values	bar and psi
Power supply	220/240 V - 50/60 Hz
L x H x D in mm	432 x 254 x 305
Weight	16 kg

EXTRACTION, EVACUATION, CHARGING VACUUM PUMPS

LOKTOOL: RC.xD / DIP-x / DC.xD | Vacuum pumps in comparison



LOKTOOL vacuum pumps*

All vacuum pumps have a gas ballast valve and thermal overload protection.

LOKTOOL RC.4D

- ⊕ Vacuum pump
- ⊕ LOKPLUS Öl-M068

LOKTOOL RC.8D

- ⊕ Vacuum pump
- ⊕ LOKPLUS Öl-M068

LOKTOOL DIP-402

- ⊕ Vacuum pump
- ⊕ LOKPLUS Öl-M068

LOKTOOL DC.16D

- ⊕ Vacuum pump
- ⊕ LOKPLUS Öl-M0100Plus

* See page 56/57 for a product configurator. You can use this to put a vacuum pump station of your choice together from the components vacuum pump, manifold gauge and manometer.

Article number	L14000787	L14000788	L14001731	L14000967
Article name	LOKtool RC.4D	LOKtool RC.8D	LOKtool DIP-402	LOKtool DC.16D
Power	72 l/min	142 l/min	90 l/min	285 l/min
Final partial pressure	0.005 mbar	0.01 mbar	0.01 mbar	0.005 mbar
Displacement	370 Watt	370 Watt	300 Watt	750 Watt
Voltage supply	220/240 V - 50/60 Hz	220/240 V - 50/60 Hz	220/240 V - 50/60 Hz	220/240 V - 50/60 Hz
L x W x H in mm	351 x 145 x 246	390 x 145 x 346	285 x 150 x 260	535 x 160 x 250
Weight	12 kg	13.5 kg	10 kg	26 kg

LOKPLUS: Öl-M068 / Öl-M0100PLUS | Mineral oil for vacuum pumps



LOKPLUS Mineral oil for vacuum pumps

Öl-M068 is suitable for the vacuum pumps RC.4D, RC.8D and DIP402. Öl-M0100Plus is suitable for the vacuum pump DC.16D

Article no.	Article name	Quantity	Illustration
L14000010	Öl-M068	1 l	①
L13003963	Öl-M0100Plus	1 l	②

EXTRACTION, EVACUATION, CHARGING MANOMETER

LOKTOOL: MN-x UND MH-x | Manometers



LOKTOOL low-pressure manometers

Justierbare, schwingungsfreie Niederdruck-Manometer, sowie Vakuummeter mit radialem Anschluss.

LOKTOOL high-pressure manometers

Justierbare, schwingungsfreie Hochdruck-Manometer, sowie Vakuummeter mit radialem Anschluss.

LOKTOOL manometers

- ⊕ Diameter 80 mm
- ⊕ Connection thread 1/8" NPT
- ⊕ Quality class 1.0

Low-pressure manometers				High-pressure manometers				Suitable for refrigerant											
Article no.	Article name	Scale	Bar	Article no.	Article name	Scale	Bar	R12	R22	R134a	R290	R404A	R407C	R410A	R413A	R502	R507	R600a	
L14000690	LOKtool MN-01	-1	3	L14000697	LOKtool MH-01	-1	10												01
L14000691	LOKtool MN-02	-1	15	L14000698	LOKtool MH-02	-1	35	02	02			02	02						
L14000692	LOKtool MN-03	-1	10	L14000699	LOKtool MH-03	-1	30	03	03								03		
L14000693	LOKtool MN-04	-1	10	L14000700	LOKtool MH-04	-1	30	04				04							04
L14000694	LOKtool MN-05	-1	15	L14000701	LOKtool MH-05	-1	35			05		05							05
L14000695	LOKtool MN-06	-1	10	L14000702	LOKtool MH-06	-1	30	06		06									
L14000696	LOKtool MN-07	1	10	L14000703	LOKtool MH-07	-1	30			07									
L14000779	LOKtool MN-08	-1	30	L14000778	LOKtool MH-08	-1	50							08					
L14002025	LOKtool MN-09	-1	10	L14002024	LOKtool MH-09	-1	30												09

LOKTOOL: V80 | Vacuum gauge



LOKTOOL vacuum gauge

Vacuum gauge with a scale of 0 to 1000 mbar.

Article no.	Article name	Description
L14000704	LOKtool V80	Vacuum gauge

EXTRACTION, EVACUATION, CHARGING

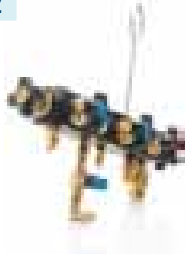
PRODUCT CONFIGURATOR FOR VACUUM PUMP STATIONS

1

2

3

4



VACUUM PUMP STATION

BODY²

MANOMETER | 01

MANOMETER | 02

VPS-x

Portable vacuum pump station

For the evacuation and charging of air-conditioning circuits. You automatically choose the suitable station with the vacuum pump. Then follow the configurator horizontally.

PA-05/

Body for manifold gauge

- ⊕ Connections 1/4" SAE (4 pcs.), 3/8" SAE (1 pce.)
- ⊕ 260 x 110 x 50 mm (L x W x H)
- ⊕ Weight 1.09 kg
- ⊕ Max. pressure 52 bar

MN-x/

Low-pressure manometer³

- ⊕ Diameter 80 mm
- ⊕ 1/8" NPT connection thread
- ⊕ Quality class 1.0

MH-x/

High-pressure manometer⁴

- ⊕ Diameter 80 mm
- ⊕ 1/8" NPT connection thread
- ⊕ Quality class 1.0

VPS-01 VPS-02¹



DIP-402

PA-05/

Body for manifold gauge

MN-x/

Low-pressure manometer³

MH-x/

High-pressure manometer⁴

X =	01	02	03	04	05	06	07	08	09
	R600a	R22	R12	R290	R134a	R134a	R134a	R410A	R413A
		R134a	R22	R22	R404A	R12			
		R404A	R502	R600a	R507				
				R407C					

VPS-03



RC.4D

PA-05/

Body for manifold gauge

MN-x/

Low-pressure manometer³

MH-x/

High-pressure manometer⁴

X =	01	02	03	04	05	06	07	08	09
	R600a	R22	R12	R290	R134a	R134a	R134a	R410A	R413A
		R134a	R22	R22	R404A	R12			
		R404A	R502	R600a	R507				
				R407C					

VPS-04¹



RC.8D

PA-05/

Body for manifold gauge

MN-x/

Low-pressure manometer³

MH-x/

High-pressure manometer⁴

X =	01	02	03	04	05	06	07	08	09
	R600a	R22	R12	R290	R134a	R134a	R134a	R410A	R413A
		R134a	R22	R22	R404A	R12			
		R404A	R502	R600a	R507				
				R407C					

¹ Vacuum pump station without bracket for mineral oil or refrigerant cartridge

² See page 070 for further information about the bodies for manifold gauges

³ See page 055 for further information about low-pressure manometers

⁴ See page 055 for further information about high-pressure manometers

5



VACUUM GAUGE

VH80

Analogue vacuum gauge⁵

Vacuum gauge with a scale of 0 to 1000 mbar

VH80

Analogue vacuum gauge⁵

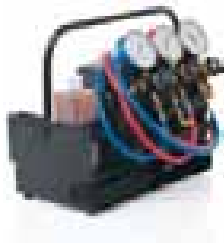
VH80

Analogue vacuum gauge⁵

VH80

Analogue vacuum gauge⁵

LOKTOOL: VPS-x/PA-05/MN-x/MH-x/V80 | Examples



LOKTOOL VPS-01 PA-5/x/x/V80 Vacuum pump station

- ⊕ Service hoses (1/4" low-pressure, 1/4" high-pressure hose)
- ⊕ Compartment for digital scales
- ⊕ Attachment for mineral oil or refrigerant cartridge
- ⊕ Dimensions: 430 x 270 x 360 mm
- ⊕ Weight: 18.5 kg



LOKTOOL VPS-02 PA-5/x/x/V80 Vacuum pump station

- ⊕ Service hoses (1/4" low-pressure, 1/4" high-pressure hose)
- ⊕ Compartment for digital scales
- ⊕ Dimensions: 345 x 210 x 340 mm
- ⊕ Weight: 16.2 kg



LOKTOOL VPS-04 PA-5/x/x/V80 Vacuum pump station

- ⊕ Service hoses (1/4" low-pressure, 1/4" high-pressure hose)
- ⊕ Compartment for digital scales
- ⊕ Attachment for refrigerant cartridge
- ⊕ Dimensions: 430 x 270 x 360 mm
- ⊕ Weight: 20.5 kg



LOKTOOL VPS-05 PA-5/x/x/V80 Vacuum pump station

- ⊕ Service hoses (1/4" low-pressure, 1/4" high-pressure hose)
- ⊕ Dimensions: 400 x 250 x 360 mm
- ⊕ Weight: 20.0 kg

⁵ See page 055 for further information about vacuum gauge devices.

EXTRACTION, EVACUATION, CHARGING UNITS FOR MOBILE A/C SERVICING

LOKTOOL: SC 98210 | Digital scales



LOKTOOL electronic scales with digital display

The electronic scales with digital display has a sturdy weighing platform with overload protection. Operating is straightforward and convenient thanks to the separate operating and display unit. The last weight displayed can be stored. With the aid of the integrated spirit level, the weighing platform can be aligned horizontally to guarantee the accuracy of the weighing process. The operating unit has an integrated USB port.

Article no.	Article name	Description
L14001836	LOKtool SC 98210	Digital scales

Technical data

Weighing range	110 kg
Resolution	0.01 kg / 0.02 lb
Weight units	[kg], [lb], [oz]
Accuracy	± 0.01 kg, ± 0.01 lb, ± 0.16 oz
Working temperature range	0 °C - 49 °C
Platform size in mm	220 x 220
Power supply	9 V block battery

LOKTOOL: DSL-5000 | Digital precision scales



LOKTOOL Digital precision scales

For precise removal of a certain amount of refrigerant from a cartridge or pressurised aluminium cylinder.

Article no.	Article name	Description
L14003080	LOKtool DSL-5000	Digital precision scales

Technical data

Weighing range	up to 5 kg
Accuracy	± 1 g
Legibility	1 g
Setting time	Approx. 1 - 2 Sek.
Power supply	3 V CR 2430 lithium battery (included in the scope of supply)
Platform size	160 x 160 mm
Dimensions	160 x 212 x 31 mm
Weight	50 kg

LOKTOOL: SC 98230 | charging module



LOKTOOL charging module

Turns the digital scales SC 98210 into automatic and programmable refrigerant scales. This module enables the user to define the exact quantity to be charged or recovered. Suitable for all commercially available, non-combustible refrigerants.

Scope of supply

- Charging module SC 98230
- Service hose
- USB cable
- Adapter 1/2" ACME M x 1/4" SAE F
- Adapter 1/4" SAE M x 1/4" ACME F
- 9 V alkali battery

Article no.	Article name	Description
L14001837	LOKtool SC 98230	Charging module

Technical data

Connections	1/4" SAE
Power supply	9 V alkali battery
Weight	720 g

LEAK DETECTION METHODS

LEAK DETECTION USING TRACER GAS

QUICK LOCATION OF LEAKS

This revolutionary development in leak detection technology for refrigeration and air-conditioning systems finds any leak, no matter how small. The problem is familiar to every plumber! A leak, but where?

Leak detection using conventional methods is always linked with a lot of time and effort, and is often a thankless task. In some cases, the leak cannot be detected using the leak

detection techniques available so far on account of the minimal leak rate or local inaccessibility. Thanks to the reliable leak detection method using tracer gas combined with the specially developed leak detectors TLD.500 and TLD.1000 you will be able to find even the tiniest of leaks on site thanks to the small gas molecule size. Can even detect leaks under floor screed, in masonry and all porous media.

LOKBOX: TLD.500 | Tracer gas leak detection set KK



LOKTOOL tracer gas leak detection set KK

This set contains all you need for leak detection using tracer gas, protected in a sturdy plastic case.

Scope of supply

- ⊖ Leak detector TLD.500
- ⊖ Pressure reducer FDM50
- ⊖ Service hose
- ⊖ Steel cylinder containing 2 litres of tracer gas
- ⊖ Plastic case

Article no.	Article name	Description
L13004638	LOKbox TLD.500	LOKTOOL tracer gas leak detection set KK

Technical data

Sensitivity	3 g/year
Response time	< 1 sec
Warm-up time	< 3 min
Measuring probe	500 mm
Working range	-15 °C to 40 °C
L x W x H in mm	70 x 100 x 28
Weight	165 g
Voltage supply	4 x mignon cell LR6/AA 1.2 V
Operating time	6 hours



LOKTOOL: LOKTRACER TLD 500 | Leak detection device



LOKTOOL tracer gas leak detector

The LOKTRACER TLD 500 was developed especially for tracer gas leak detection, for checking refrigeration and air-conditioning systems. The unit reacts exclusively to tracer gas, so that cross sensitiveness to other gases can be almost completely excluded. The extra-long and highly flexible measuring probe also allows pipes and components which are difficult to access to be checked. The size of the leak is indicated by 3 LEDs.

- ⊕ Green LED: No leak
- ⊕ Yellow LED: Leak rate > 3 g/year
- ⊕ Red LED: Leak rate > 30 g/year (major leak)

The intermediate range is indicated by an increasingly loud acoustic signal (can be switched off).

Scope of supply

- ⊕ Electronic leak detector
- ⊕ 4 x mignon cell LR6/AA 1.2 V

Article no.	Article name	Description
L14003015	LOKtool Loktracer 500	Leak detection device

Technical data

Sensitivity	3 g/year
Response time	< 1 sec
Warm-up time	< 3 min
Measuring probe	500 mm
Working range	-15 °C to 40 °C
L x W x H in mm	70 x 100 x 28
Weight	165 g
Voltage supply	4 x mignon cell LR6/AA 1.2 V
Operating time	6 hours

LOKTOOL: FDM50 | Pressure reducer



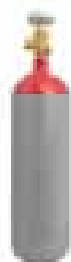
LOKTOOL pressure reducer*

- ⊕ Hose connection G 3/8" LH
- ⊕ Cylinder connection W21.80 x 1/14" LH

* Up to 50 bar back pressure.

Article no.	Article name	Description
L14003411	LOKtool FDM50	Pressure reducer for tracer gas

LOKTOOL: TGx | Tracer gas cylinder



LOKTOOL tracer gas cylinder 95/5 – 5 litres*

- ⊕ Steel cylinder 2 l, empty
- ⊕ Cylinder connection W21.80 x 1/14" LH
- ⊕ Hazardous substances number UN 1956

LOKPLUS tracer gas filling 95/5 – 2 litres*

- ⊕ Cylinder filling 2 l

Article no.	Article name	Description
L14003704	LOKtool TGB2	Tracer gas cylinder
L14003705	LOKplus TG2L	Tracer gas filling

Tracer gas filling

Can only be used in connection with a replaceable tracer gas cylinder TGB2.

LEAK DETECTION METHODS

LEAK DETECTION USING TRACER GAS

LOKTOOL: LOKTRACER VHLS 1000 | Leak detection device



LOKTOOL leak detection device

The tracer gas leak detector Loktracer 1000 is equipped with double-sensor technology for selective hydrogen selection. With SET key for the suppression of background gas and an automatic zero setting for fresh air. The size of the leak is indicated by an acoustic signal as well as an LED and a digital display in ppm. A conversion table for the most common refrigerants in g/year is included with the device.

Article no.	Article name	Description
L14002348	LOKtool Loktracer VHLS 1000	Leak detection device

Technical data

Sensitivity	1 ppm
Response time	< 1 sec
Warm-up time	< 1 min
Measuring probe	300 mm
Working temperature	-15 °C to 40 °C
Power supply	4 x NiMH Akku (Charging adapter included in scope of supply)
Dimensions (without measuring probe)	190 x 40 x 30 mm
Weight	320 g

LOKBOX: TLD.1000-KK | Tracer gas leak detection set



LOKBOX tracer gas leak detection set

This set contains everything you need for leak detection with tracer gas.

Scope of supply

- ⊕ Tracer gas leak detector VHLS.1000
- ⊕ Tracer gas pressure regulator FDM-50
- ⊕ Manifold gauge PA-1/N/GK
- ⊕ Service hoses
- ⊕ Charging adapter

Article no.	Article name	Description
L13004643	LOKbox TLD.1000-KK	Tracer gas leak detection set

Technical data

Sensitivity	1 ppm
Response time	< 1 sec
Warm-up time	< 1 min
Measuring probe	300 mm
Working temperature	-15 °C bis 40 °C
Power supply	4 x NiMH Akku (Charging adapter included in scope of supply)
Dimensions (without measuring probe)	190 x 40 x 30 mm
Weight	320 g

* Suitable tracer gas cylinders can be found on the previous page.

LEAK DETECTION METHODS

LEAK DETECTION USING R134A LEAK DETECTORS

LOKBOX: SNIFFER-FLEX | Leak detection device R134a



LOKBOX leak detection device R134a

On account of its highly developed sensor technology, the R134a leak detector SNIFFER-FLEX shows extremely little cross sensitivity to other gases. With automatic and manually settable zero setting to suppress background concentrations. 3 LEDs and an acoustic signal (can be switched off) indicate the size of the leak.

- ⊕ Green LED: No leak
- ⊕ Yellow LED: Leak rate > 3 g/year
- ⊕ Red LED: Leak rate > 30 g/year (major leak)

The intermediate range is indicated by an increasingly loud acoustic signal (can be switched off).

Scope of supply

- ⊕ Electronic leak detector
- ⊕ Mignon cell LR6/AA 1.2 V

Article no.	Article name	Description
L14002158	LOKtool SNIFFER-flex R134a	Leak detection device

Technical data

Response time	< 1 sec
Warm-up time	< 3 min
Measuring probe	320 mm
Working temperature	-15 °C to 40 °C
L x W x H in mm	70 x 100 x 28
Weight	154 g
Voltage supply	4 x mignon cell LR6/AA 1.2 V
Operating time	6 hours

LEAK DETECTION METHODS

LEAK DETECTION USING UNIVERSAL LEAK DETECTORS

LOKTOOL: LD55100 | Leak detection device



LOKTOOL LD55100

Electronic leak detector of the new generation with revolutionary micro-processor technology. This new sensor technology makes faster and more reliable location of refrigerants containing HFCs, HCFCs and HFCs possible.

Scope of supply

- ⊕ Mono batteries
- ⊕ Practical plastic case

Article no.	Article name	Description
L14003607	LOKtool LD55100	Leak detection device

Technical data

Sensitivity	> 3 g/year
Measuring probe	410 mm
Voltage supply	2 »C« batteries
L x W x H in mm	370 x 240 x 120
Weight	570 g

LEAK DETECTION METHODS

LEAK DETECTION USING NITROGEN

LOKTOOL: N2-KS-50 | Nitrogen complete set



LOKTOOL nitrogen complete set

For flushing refrigerant and air-conditioning circuits and carrying out pressure tests on them.

Scope of supply

- ⊕ Nitrogen cylinder
- ⊕ Nitrogen pressure reducer
- ⊕ Quick-action coupler
- ⊕ Service hose

Article no.	Article name	Description
L13004644	LOKtool N2-KS-50	Nitrogen complete set

Technical data

Back pressure	50 bar
Steel cylinder with nitrogen filling	2 l



LOKTOOL: N2-DMS | Nitrogen pressure reducer set



LOKTOOL nitrogen pressure reducer set

Pressure test up to maximum 50 bar possible.

Scope of supply

- ⊕ Nitrogen pressure reducer
- ⊕ Quick-action coupler
- ⊕ Service hose

Article no.	Article name	Description
L13004645	LOKtool N2-DMS	Nitrogen pressure reducer set

Technical data

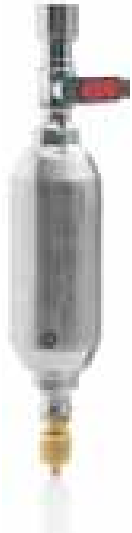
Connection	W24.32 x 1/14"
Back pressure	50 bar

* Suitable nitrogen cylinders can be found on page 105.

REFERENCE LEAK ADAPTERS

ADAPTERS FOR CALIBRATING LEAK DETECTORS

LOKPLUS: RLK-x-y | Reference leak cartridge



LOKPLUS reference leak cartridge

Reference leak with refillable 0.1 l stainless steel gas cartridge for monitoring the leak detector calibration. Suitable for all refrigerants. The leak rate is set in the factory to between 0.1 and 30 g/year depending on customer requirements.

Scope of supply

- ☞ Cartridge including calibration certificate

* Order is through coded article name without article number.

Article name*	Description
RLK	Reference leak cartridge
x	Refrigerant
y	Required leak rate in g/year

The order code comprises the abbreviation for the reference leak cartridge »RLK«, the required refrigerant and the required leak rate in g/year.

Order example RLK-R134a-10

RLK-	Reference leak cartridge
R134a-	for R134a
10	with a leak rate of 10 g/year

LOKPLUS: RLA-x | Reference leak adapter



LOKPLUS reference leak adapter

Low-cost adapter for the quick monitoring of a leak detector's sensitivity. With calibration certificate on request.

Article no.	Article name	Description
L14001575	LOKplus RLA-R134a	Reference leak adapter
L14001299	LOKplus RLA-R600a	Reference leak adapter

Technical data

Leak element	porous stainless steel sinter
Leak body	Stainless steel
Connection	1/4" SAE
Seal	STD neoprene seal
Typical leak rate for R134a	5 - 20 g/year
Typical leak rate for R600a	2 - 10 g/year
Length	17 mm
Diameter	6.5 mm

MEASURING AND DIAGNOSIS DEVICES FOR PRESSURE AND VACUUM MEASUREMENTS

LOKTOOL: VG64 | Digital vacuum gauge



LOKTOOL digital vacuum gauge

For straightforward and accurate vacuum measurement between 0 and 16 mbar as well as for tendency indication (increasing or decreasing pressure) at more than 16 mbar. With automatic switch-off after 10 minutes if the value measured is greater than 16 mbar.

Article no.	Article name	Description
L14001096	LOKtool VG64	Digital vacuum gauge

Technical data

Measuring range	0 to 16 mbar (0 to 12000 Microns)	
Resolution	0.001 mbar (for measuring values < 0.260 mbar) 1 Micron (for measuring values < 200 Microns)	
Accuracy	± 10 % (for measuring values < 1000 Microns)	
Display update	2 x per second	
Units	[Micron], [psi], [InHG], [mbar] [Pascal], [Torr], [mTorr]	
Relief pressure valve	up to 20 bar	
Connections	1/4" SAE	
Working temperature	2 °C to 52 °C	
Power supply	1 x 9 V alkali battery (not included in the scope of supply)	
Continuous operation	approx. 35 hours	
Dimensions	140 x 76 x 32 mm	
Weight	190 g	

LOKBOX: K-VG64 | Digital vacuum gauge in cased set



LOKBOX digital vacuum gauge in cased set

Complete set in a sturdy plastic case for carrying out long-run vacuum tests.

Scope of supply

- ⊕ Digital vacuum gauge VG64
- ⊕ Blue service hose
- ⊕ 1/4" SAE ball valve with union nut
- ⊕ Plastic case

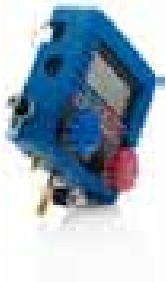
Article no.	Article name	Description
L13002532	LOKbox K-VG64	Set in case

Technical data

Dimensions (L x W x H)	261 x 175 x 78 mm
------------------------	-------------------

Refer to the table above for the technical data of the vacuum gauge.

LOKTOOL: EMH-99103 | Electronic fitting aid



LOKTOOL electronic fitting aid

Convenient measuring and analysis device for refrigerant and air-conditioning system fitters. Suitable for the fault-free maintenance and servicing of refrigerant and air-conditioning systems.

Evacuation monitoring is possible at any time thanks to the vacuum gauge. You can read off the temperature measured by the temperature clamp from the easily legible multimeter display.

Scope of supply

- ⊕ Digital multimeter
- ⊕ Service hoses
- ⊕ Temperature clamp
- ⊕ Vacuum sensor
- ⊕ 9 V battery
- ⊕ Plastic case

Article no.	Article name	Description
L14003604	LOKtool EMH-99103	Electronic fitting aid

Technical data

Database	More than 60 refrigerants
Pressure unit can be selected in the display	BAR, PSI, in Hg, Mpa and kg/cm ² (0 up to 70 Bar)
Vacuum display	[mbar], [Micron], [mTorr], [Kpa], [mm-Hg]
Temperature range of the display	-4 °C up to +93 °C (-40 °F up to +200 °F)
Automatic switch-off	15 min.

MEASURING AND DIAGNOSIS DEVICES FOR PRESSURE TESTS

LOKTOOL: PA-1 | Body for manifold gauges



LOKTOOL body for manifold gauges

Body for manifold gauges with one valve.

Article no.	Article name	Connections	L x W x H [in mm]	Weight [kg]	Pressure [bar]
Body for low-pressure manometer					
L14000832	LOKtool PA-1/N/GK	2 x 1/4" SAE	65 x 50 x 50	0.22	52
Body for high-pressure manometer					
L14000837	LOKtool PA-1/H/GK	2 x 1/4" SAE	65 x 50 x 50	0.22	52

LOKTOOL: PA-2 | Body for manifold gauges



LOKTOOL body for manifold gauges

Body for manifold gauges with 2 valves fitted with a schrader valve.

Article no.	Article name	Connections	L x W x H [in mm]	Weight [kg]	Pressure [bar]
L14000833	LOKtool PA-2/GK	3 x 1/4" SAE	160 x 110 x 50	0.46	52

LOKTOOL: PA-4 | Body for manifold gauges



LOKTOOL body for manifold gauges

Body for manifold gauges with 4 valves fitted with a schrader valve.

Article no.	Article name	Connections	L x W x H [in mm]	Weight [kg]	Pressure [bar]
L14000834	LOKtool PA-4/GK	4 x 1/4" SAE 1 x 3/8" SAE	160 x 110 x 50	0.6	52

LOKTOOL: PA-5 | Body for manifold gauges



LOKTOOL body for manifold gauges

Body for manifold gauges with 5 valves fitted with a schrader valve and safety valve to protect the vacuum gauge.

Article no.	Article name	Connections	L x W x H [in mm]	Weight [kg]	Pressure [bar]
L14000835	LOKtool PA-5/GK	4 x 1/4" SAE 1 x 3/8" SAE	260 x 110 x 50	1.09	52

LOKTOOL: MN-x UND MH-x | Manometers



LOKTOOL low-pressure manometers

Justierbare, schwingungsfreie Niederdruck-Manometer, sowie Vakuummeter mit radialem Anschluss.

LOKTOOL high-pressure manometers

Justierbare, schwingungsfreie Hochdruck-Manometer, sowie Vakuummeter mit radialem Anschluss.

LOKTOOL manometers

- ⊕ Diameter 80 mm
- ⊕ Connection thread 1/8" NPT
- ⊕ Quality class 1.0

Low-pressure manometers				High-pressure manometers				Suitable for refrigerant											
Article no.	Article name	Scale	Bar	Article no.	Article name	Scale	Bar	R12	R22	R134a	R290	R404A	R407C	R410A	R413A	R502	R507	R600a	
L14000690	LOKtool MN-01	-1	3	L14000697	LOKtool MH-01	-1	10												01
L14000691	LOKtool MN-02	-1	15	L14000698	LOKtool MH-02	-1	35	02	02			02	02						
L14000692	LOKtool MN-03	-1	10	L14000699	LOKtool MH-03	-1	30	03	03								03		
L14000693	LOKtool MN-04	-1	10	L14000700	LOKtool MH-04	-1	30	04				04							04
L14000694	LOKtool MN-05	-1	15	L14000701	LOKtool MH-05	-1	35			05		05							05
L14000695	LOKtool MN-06	-1	10	L14000702	LOKtool MH-06	-1	30	06		06									
L14000696	LOKtool MN-07	1	10	L14000703	LOKtool MH-07	-1	30			07									
L14000779	LOKtool MN-08	-1	30	L14000778	LOKtool MH-08	-1	50										08		
L14002025	LOKtool MN-09	-1	10	L14002024	LOKtool MH-09	-1	30											09	

LOKTOOL: V80 | Vacuum gauge



LOKTOOL vacuum gauge

Vacuum gauge with a scale of 0 to 1000 mbar.

Article no.	Article name	Description
L14000704	LOKtool V80	Vacuum gauge

MEASURING AND DIAGNOSIS DEVICES

PRODUCT CONFIGURATOR FOR MANIFOLD GAUGES

1

2



3



4



BODY¹

MANOMETER | 01

MANOMETER | 02

VAKUUM GAUGE

PA-01



MN-x/

Low-pressure manometer²
see table below 01 - 09

MH-x/

High-pressure manometer³
see table below 01 - 09

PA-02



MN-x/

Low-pressure manometer²

MH-x/

High-pressure manometer³

VH80

Analogue vacuum gauge⁴

X =	01	02	03	04	05	06	07	08	09
	R600a	R22	R12	R290	R134a	R134a	R134a	R410A	R413A
		R134a	R22	R22	R404A	R12			
		R404A	R502	R600a	R507				
		R407C							

VG64

Digital vacuum gauge⁵

PA-04



MN-x/

Low-pressure manometer²

MH-x/

High-pressure manometer³

VH80

Analogue vacuum gauge⁴

X =	01	02	03	04	05	06	07	08	09
	R600a	R22	R12	R290	R134a	R134a	R134a	R410A	R413A
		R134a	R22	R22	R404A	R12			
		R404A	R502	R600a	R507				
		R407C							

VG64

Digital vacuum gauge⁵

PA-05



MN-x/

Low-pressure manometer²

MH-x/

High-pressure manometer³

VH80

Analogue vacuum gauge⁴

X =	01	02	03	04	05	06	07	08	09
	R600a	R22	R12	R290	R134a	R134a	R134a	R410A	R413A
		R134a	R22	R22	R404A	R12			
		R404A	R502	R600a	R507				
		R407C							

VG64

Digital vacuum gauge⁵

¹ See page 68 for further information about the bodies

² See page 69 for further information about low-pressure manometers

³ See page 69 for further information about high-pressure manometers

⁴ See page 69 for further information
⁵ See page 66 for further information



5

6



LOKTOOL: PA-x/MN-x/MH-x/-x | Examples of manifold gauges

LOKBOX | Manifold gauge in cased set



LOKTOOL PA-01/MN-01

- Order example for 1-valve manifold gauge with manometer MN-01



LOKTOOL PA-02/MN-02/MH-02

- Order example for 2-valve manifold gauge with the manometers MN-02 and MH-02



LOKTOOL PA-04/MN-08/MH-08

- Order example for 4-valve manifold gauge with the manometers MN-08 and MH-08



LOKTOOL PA-05/MN-07/MH-07/V80

- Order example for 5-valve manifold gauge with the manometers MN-07 and MH-07 and the analogue vacuum gauge V80

LOKBOX PA-x/MN-x/MH-x/-x

Would you like your manifold gauge to be in a sturdy plastic case? – Then just swap the prefix LOKTOOL in the article name for your manifold gauge for the prefix LOKBOX and we will put your set together automatically.

Scope of supply

- Valve manifold gauge
- Service hoses (1.5m) in blue, red and yellow
- Plastic case

MEASURING AND DIAGNOSIS DEVICES FOR PRESSURE TESTS

LOKBOX: PA-5/MN-08/MH-08/V80 | Case set



LOKBOX case set

For the safe transport of manifold gauges.
You can make the case set tailor-made to your requirements!
Just tell us which manometers you require and we will put the case set together for you.

Scope of supply

- ↻ 5-valve manifold gauge
- ↻ Service hoses (1.5m) in blue, red and yellow
- ↻ Plastic case

* Optionally available with the digital vacuum gauge VG64
(instead of vacuum gauge V80).

Article no.	Article name	Description
L13002488	LOKbox PA-5/MN-08/MH-08/V80	Set in case

MEASURING AND DIAGNOSIS DEVICES

SPARE PARTS FOR MANOMETERS AND MANIFOLD GAUGES

LOKTOOL: SGM-80 | Replacement sight glass



LOKTOOL replacement sight glass

For low-pressure and high-pressure manometers.
Diameter: 80 mm

Article no.	Article name	Description
L14000530	LOKtool SGM80	Replacement sight glass

LOKTOOL: SGV-80 | Replacement sight glass

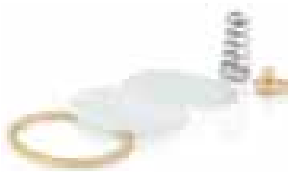


LOKTOOL replacement sight glass

For vacuum gauge V80.
Diameter: 80 mm

Article no.	Article name	Description
L14000333	LOKtool SGV80	Replacement sight glass

LOKTOOL: WK-G03 | Diaphragm set complete



LOKTOOL diaphragm set complete for manifold gauges

Article no.	Article name	Description
L14000137	LOKtool WK-G03	Diaphragm set complete

LOKTOOL: WK-G04 | Diaphragm set



LOKTOOL diaphragm set for manifold gauges

Article no.	Article name	Description
L14000274	LOKtool WK-G04	Diaphragm set

LOKTOOL: WK-x | Valve sets



LOKTOOL valve set

Article no.	Article name	Description
L14000272	LOKtool WK-07R (REF)	Valve set yellow
L14000494	LOKtool WK-07L (LOW)	Valve set blue
L14000493	LOKtool WK-07H (HIGH)	Valve set red
L14000492	LOKtool WK-07V (VAC)	Valve set yellow

MEASURING AND DIAGNOSIS DEVICES FOR TEMPERATURE MEASUREMENTS

LOKBOX: GTH x | Case sets for temperature measurement



LOKBOX for temperature measurement LOKBOX GTH-1150

The suitable equipment as a set for temperature measurement, well protected in a plastic case.

- ⊕ Digital quick-response thermometer GTH-1150
- ⊕ Measuring probe GTF-300 GS *
- ⊕ Alkali battery 9 V
- ⊕ Plastic case

LOKBOX GTH-1160

- ⊕ Digital quick-response thermometer GTH-1160
- ⊕ Measuring probe GTF-300 GS *
- ⊕ Alkali battery 9 V
- ⊕ Plastic case

LOKBOX GTH-1100/2DIF

- ⊕ Digital quick-response thermometer GTH-1100/2DIF
- ⊕ Measuring probe GTF-300 GS *
- ⊕ Alkali battery 9 V
- ⊕ Plastic case

* Other probes on request.

Article no.	L13002102	L13001858	L13002103
Article name	LOKbox GTH-1150	LOKbox GTH-1160	LOKbox GTH-1100/2DIF
Measuring probe		1	1 2
Measuring ranges	1	2	1
Measuring range 1	-50 °C to 1150 °C	-50 °C to 1150 °C	-50 °C to 1150 °C
Measuring range 2	-	-50 °C to 199,9 °C	-
Accuracy			
Measuring range 1	± 1 %: 20 °C to 550 °C; 920 °C to 1150 °C	± 1 %: 20 °C to 550 °C; 920 °C to 1150 °C	± 1 %: 20 °C to 550 °C; 920 °C to 1150 °C
Measuring range 2	± 1.5 %: 550 °C to 920 °C	± 1.5 %: 550 °C to 920 °C	-
Measuring range 2	-	± 1 %: 20 °C to 199 °C	-
Resolution			
Measuring range 1	1 °C	1 °C	1 °C
Measuring range 2	-	0.1 °C	-
Measurement of difference in temperature	no	no	yes
Working temperature	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C
Power supply	1 x 9 V	1 x 9 V	1 x 9 V
Dimensions	106 x 67 x 30 mm	106 x 67 x 30 mm	150 x 86 x 30 mm
Weight (incl. battery)	150 g	150 g	230 g

LOKBOX: GTH x | Digital quick-response thermometer



LOKTOOL Digital quick-response thermometer*

Temperature measurements of surfaces, liquids, soft plastic media, air/gases, tiniest of objects etc. in seconds.

Only works with selectable measuring probes.

LOKBOX GTH-1150

- ⊕ Digital quick-response thermometer GTH-1100/2DIF
- ⊕ Alkali battery 9 V
- ⊕ Plastic case

Suitable measuring probes

- ⊕ Measuring probe GTF-300 GS*

LOKBOX GTH-1100/2DIF

- ⊕ Digital quick-response thermometer GTH-1100/2DIF
- ⊕ Alkali battery 9 V
- ⊕ Plastic case

Suitable measuring probes

- ⊕ Measuring probe GTF-300 GS*

LOKTOOL DIP-402

- ⊕ Digital quick-response thermometer GTH-1160
- ⊕ Alkali battery 9 V
- ⊕ Plastic case

Suitable measuring probes

- ⊕ Measuring probe GTF-300 GS*

* Measuring probes not included in the scope of supply

Article no.	L13002102	L14000817	L14000745
Article name	LOKbox GTH-1150	LOKbox GTH-1160	LOKbox GTH-1100/2DIF
Measuring probe (not in scope of supply)	1	1	2
Measuring ranges	1	2	1
Measuring range 1	-50 °C to 1150 °C	-50 °C to 1150 °C	-50 °C to 1150 °C
Measuring range 2	-50 °C to 199,9 °C		
Accuracy Measuring range 1	±1 %: 20 °C to 550 °C; 920 °C to 1150 °C	±1 %: 20 °C to 550 °C; 920 °C to 1150 °C	±1 %: 20 °C to 550 °C; 920 °C to 1150 °C
	±1.5 %: 550 °C to 920 °C	±1.5 %: 550 °C to 920 °C	±1.5 %: 550 °C to 920 °C
Measuring range 2	-	±1 %: 20 °C to 199 °C	-
Resolution Measuring range 1	1°C	1°C	1 °C
Measuring range 2	-	0.1°C	-
Measurement of difference in temperature	no	yes	yes
Working temperature	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C
Power supply	1 x 9 V alkali battery	1 x 9 V alkali battery	1 x 9 V alkali battery
Dimensions	106 x 67 x 30 mm	106 x 67 x 30 mm	150 x 86 x 30 mm
Weight (incl. battery)	150 g	150 g	230 g

MEASURING AND DIAGNOSIS DEVICES FOR MEASURING TEMPERATURE AND HUMIDITY

LOKTOOL: GES-x / GOF-x | Measuring probes for thermometer



LOKTOOL measuring probes

Measuring probes for thermometer.

LOKtool GES 1000

➡ Measuring probe

LOKtool GES 900/3

➡ Measuring probe

LOKtool GOF 500

➡ Measuring probe

Article no.	L14000777	L14000836	L14001898
Article name	LOKtool GES 1000	LOKtool GES 900/3	LOKtool GOF 500
Measuring range	-50 °C to 550 °C	-50 °C to 550 °C	-265 °C to 500 °C
Area of application	Insertable probe for soft plastic media	Insertable probe for soft plastic media	Gases, liquids, solid surfaces
Length	1 m	3 m	1 m

LOKTOOL: GTT-x / GTF-x | Measuring probes for thermometer



LOKTOOL measuring probes

Measuring probes for thermometer.

LOKTOOL GTT 11500K

➡ Measuring probe

LOKTOOL GTF-300 GS

➡ Measuring probe

LOKTOOL GTF-300 GS/3

➡ Measuring probe

Article no.	L14000777	L14000889	L14000831
Article name	LOKtool GTT 11500K	LOKtool GTF-300 GS	LOKtool GTF-300 GS/3
Measuring range	-200 °C to 1150 °C	-65 °C to 400 °C	-65 °C to 400 °C
Area of application	Dipping probe	Gases, solid surfaces (not for liquids)	Gases, solid surfaces (not for liquids)
Length	130 mm	1 m	3 m

LOKTOOL: SA-880-SSX | Digital hand-held thermometer



LOKTOOL digital hand-held thermometer

With programmable maximum and minimum value indication as well as automatic switch-off after one hour. The stainless steel measuring probe is 100 mm long and fitted with a 1 m cable.

Article no.	Article name	Description
L14000501	LOKtool SA-880-SSX	Digital hand-held thermometer

Technical data

Measuring range	-50 °C to 150 °C
Accuracy	± 1°C (-30 °C to 150 °C) otherwise ± 2 °C
Resolution	± 0,1°C (-19.9 °C to 150 °C) otherwise 1 °C
Units	°C and °F
Working temperature	-10 °C to 40 °C
Power supply	1 x 1.5 V AAA battery (in the scope of supply)

LOKTOOL: LIT 11TC | Infrared thermometer



LOKTOOL infrared thermometer

For accurate, non-contact temperature measurement on non-reflecting surfaces.
With additional K-type thermal element.

Article no.	Article name	Description
L14002969	LOKtool LIT 11TC	Infrared thermometer

Technical data

Optical resolution	11:1
Temperature range	von -60 °C to 500 °C
Best resolution	0.1 °C
Accuracy	±1 °C
Emission coefficient	0.95 adjustable
K-type thermal element	Yes (probe included)
Temperature range of probe included	14 °C to 250 °C
Overall temperature range	-64 °C to 1400 °C
Temperature accuracy	± 1 % or 2 °C
Display	LCD, lit
Automatic switch-off	Yes
Power supply	2 x AA battery (included in the scope of supply)
Weight	179 g
Dimensions	175 x 3 x 71mm

MEASURING AND DIAGNOSIS DEVICES FOR MEASURING TEMPERATURE AND HUMIDITY

LOKTOOL: SL 300 T | Data logger



LOKTOOL SL 300 T DATA LOGGER

The SL 300 T is a self-contained USB-based mini temperature data logger for precise measurements under critical climate conditions.

Features

- ⊕ PC, delayed start or pushbutton recording control
- ⊕ Temperature alarm with visual indication on demand
- ⊕ User-selectable stop on memory full or memory rollover for continuous recording
- ⊕ Real-time monitoring
- ⊕ USB connection
- ⊕ Includes Windows-compatible software and batteries

Scope of supply

- ⊕ SL 300 T temperature data logger
- ⊕ Windows-based software compatible with 98SE, ME, 2000, XP, VISTA. (Not compatible with Windows95 or NT.)
- ⊕ USB cable
- ⊕ 3 V lithium batteries

Article no.	Article name	Description
L14003035	LOKtool SL 300 T	Data logger

Technical data

Sample points	44,344 (temperature only)
Sampling rate	1 second to 18 hours
Alarm	Alarms indicating levels for temperature and humidity have been exceeded or fallen short of
Temperature measuring range	-40 °C to +85 °C
Temperature accuracy	± 0.5 °C
Temperature resolution	0.01 °C
Calibration	Single-point offset calibration through software
Time accuracy	± 100 ppm at 24 °C
Dimensions	76 x 40 x 15 mm
Power supply	3 V lithium battery (CR 2035) included in the scope of supply
Battery life	approx. 6 years

MEASURING AND DIAGNOSIS DEVICES FOR SOUND LEVEL MEASUREMENT



LOKTOOL: SL 300 TH | Data logger



LOKTOOL SL 300 TH DATA LOGGER

The SL 300 TH is a self-contained USB-based mini temperature, humidity and dew point data logger for precise measurements under critical climate conditions.

Features

- ⊕ PC, delayed start or pushbutton recording control
- ⊕ Temperature and humidity alarm (SL 300 TH) with visual indication on demand
- ⊕ User-selectable stop on memory full or memory rollover for continuous recording
- ⊕ Real-time monitoring
- ⊕ USB connection
- ⊕ Includes Windows-compatible software and batteries

Scope of supply

- ⊕ SL 300 TH Temperature, humidity and dew point data logger
- ⊕ Windows-based software compatible with 98SE, ME, 2000, XP, VISTA. (Not compatible with Windows95 or NT.)
- ⊕ USB cable
- ⊕ 3 V lithium batteries

Article no.	Article name	Description
L14002781	LOKtool SL 300 TH	Data logger

Technical data

Sample points	21,672 (temperature, humidity and dew point)
Sampling rate	1 second to 18 hours
Alarm	Alarms indicating levels for temperature and humidity have been exceeded or fallen short of
Temperature measuring range	-40 °C to +70 °C
Temperature accuracy	±0.5 °C
Temperature resolution	0.01 °C
Rel. humidity measuring range	0 % to 99 % rel. hum.
Accuracy	±2% rel. hum. from 10 % to 90 % rel. hum.
Resolution	0.01 % RF
Calibration	Single-point offset calibration available through the software for both temperature and humidity
Time Accuracy	±100ppm at 24 °C
Dimensions	76 x 40 x 15 mm
Power supply	3 V lithium battery (CR 2035) included in the scope of supply
Battery life	approx. 6 years

LOKTOOL: GSH8922 | Sound level meter



LOKTOOL sound level meter

Compact sound level meter with 6 manually or automatically selectable measuring ranges from 30 dB to 130 dB. The background sound level can be compensated by pressing a key in order to measure a specific sound source. In addition, minimum and maximum values can be determined for a certain measuring period. Delivered in a sturdy plastic case.

Article no.	Article name	Description
L14001397	LOKtool GSH8922	Data logger

Technical data

Measuring range	30 dB to 130 dB
Accuracy	±1.5 dB
Resolution	0.1 dB
Frequency	31.5 Hz to 8 kHz
Evaluation filter type A	Evaluation according to human hearing perception
Evaluation filter type C	Linear evaluation of the spectrum
Power supply	9 V battery (included in the scope of supply) or external 9V power supply
Tested	according to ANSI S1.4 and IEC 651-2.

TOOLS AND ACCESSORIES
DEVELOPED BY US, PROVED THE WORLD OVER





CHARGING AND VACUUM HOSES

PRODUCT CONFIGURATOR FOR THE REFRIGERATION AND AIR-CONDITIONING RANGE

1	2	3	4
COLOUR Type of marking	CONNECTIONS \emptyset	ENDING 01	ENDING 02
<p>HDS Pressure sleeve, coloured</p> <p>NFS</p> 	<p>A 1/4" SAE connections</p>	<p>G Straight</p> <p>W 45° elbow</p>	<p>G Straight</p> <p>W 45° elbow</p>
<p>HDS</p> <p>NFS Hose coloured</p> 	<p>B 3/8" SAE connections</p>	<p>G Straight</p> <p>W 45° elbow</p>	<p>G Straight</p> <p>W 45° elbow</p>
<p>NFS</p> 	<p>C 5/16" SAE connections</p>	<p>G Straight</p> <p>W 45° elbow</p>	<p>G Straight</p> <p>W 45° elbow</p>

LOKTUBE: NFS-x-x+x-x-x-x | Examples of charging hoses



LOKTUBE high-grade charging hose

- ⊕ Top: NFS-A-G+G-1500-G-V
- ⊕ Middle: NFS-A-G+G-1500-R-V
- ⊕ Bottom: NFS-A-G+G-1500-B-V
(Yellow, red or blue charging hose 1.5 m long with 2 straight 1/4" connections and service valve)



LENGTH* | in mm **COLOUR** | Marking **BALL VALVE** | optional

<p>600 900 1200 1500 1800</p>	<p>B Blue – low pressure</p> <p>R Red – high pressure</p> <p>G Yellow – neutral</p>	<p>V With ball valve</p> <p>– Without ball valve</p>	<p>Charging hoses</p> <ul style="list-style-type: none"> ⌚ For HCFC, HFC and HC refrigerants. ⌚ Valve opener on one side ⌚ Bending radius 40 mm ⌚ Working pressure 52 bar ⌚ Bursting pressure 260 bar
<p>600 900 1200 1500 1800</p>	<p>B Blue – low pressure</p> <p>R Red – high pressure</p> <p>G Yellow – neutral</p>	<p>V With ball valve</p> <p>– Without ball valve</p>	<p>Charging hoses</p> <ul style="list-style-type: none"> ⌚ For HCFC, HFC and HC refrigerants. ⌚ Bending radius 40 mm ⌚ Working pressure 52 bar ⌚ Bursting pressure 260 bar
<p>600 900 1200 1500 1800</p>	<p>B Blue – low pressure</p> <p>R Red – high pressure</p> <p>G Yellow – neutral</p>	<p>V With ball valve</p> <p>– Without ball valve</p>	<p>Charging hoses</p> <ul style="list-style-type: none"> ⌚ For HCFC, HFC and HC refrigerants. ⌚ For R410A connections ⌚ Bending radius 40 mm ⌚ Working pressure 52 bar ⌚ Bursting pressure 260 bar

* Further lengths on request



CHARGING AND VACUUM HOSES ACCESSORIES

LOKPLUS: 121-RG-4 | Ball valve



LOKPLUS ball valve

Thread*: 1/4" SAE M x 1/4" SAE F. With valve opener. The maximum working pressure of the ball valves is 52 bar.

* M = Male = outer thread, F = Female = inner thread

Article no.	Article name	Description
L14000447	LOKplus 121-RG-4	Ball valve

LOKPLUS: 121-RG-410A | Ball valve



LOKPLUS ball valve

Thread*: 1/4" SAE M x 1/4" SAE M. The maximum working pressure of the ball valves is 52 bar.

* M = Male = outer thread, F = Female = inner thread

Article no.	Article name	Description
L14003205	LOKplus 121-RG-410A	Ball valve

LOKPLUS: 121-S4 | Ball valve



LOKPLUS ball valve

Thread*: 1/4" SAE M x 1/4" SAE M. The maximum working pressure of the ball valves is 52 bar.

* M = Male = outer thread, F = Female = inner thread

Article no.	Article name	Description
L14000783	LOKplus 121-S4	Ball valve

LOKPLUS: 270015 | Ball valve



LOKPLUS ball valve

Thread*: 5/16" SAE F x 1/4" SAE M. The maximum working pressure of the ball valves is 52 bar.

* M = Male = outer thread, F = Female = inner thread

Article no.	Article name	Description
L14000583	LOKplus 270015	Ball valve

LOKPLUS: KD-1/4" | Replacement seal



LOKPLUS Replacement seal

Replacement seal for charging hoses with 1/4" SAE connection.

Article no.	Article name	Description
L14001360	LOKplus KD-1/4"	Replacement seal

LOKPLUS: KD-3/8" | Replacement seal



LOKPLUS Replacement seal

Replacement seal for charging hoses with 3/8" SAE connection.

Article no.	Article name	Description
L14001361	LOKplus KD-3/8"	Replacement seal

LOKPLUS: D19302 | Valve opener



LOKPLUS valve opener

For opening connections with a schrader valve.

Article no.	Article name	Description
L14000575	LOKplus D19302	Valve set (REF)

LOKPLUS: R410A | Adapter



LOKPLUS adapter

1/4" SAE x 5/16" SAE adapter.

Article no.	Article name	Description
L14001083	LOKplus R410A	Adapter

THERMOPLASTIC TUBES X012

FAST, FLEXIBLE, PRESSURE-RESISTANT

LOKPLUS: X012 | Thermoplastic capillary tubes



LOKPLUS thermoplastic capillary tubes*

Thermoplastic capillary tubes with inner diameter 2 mm for self-assembly. For setting up pressure-resistant and flexible tubes or capillary tubes. Suitable for gaseous and liquid HCFC, HFC and HC refrigerants. The tubes can be made to length on site, without waste, thus the system minimises material and working costs.

Your advantage

⊕ No welding or soldering necessary.

* Can also be delivered pre-made from a minimum order quantity of 100 units onwards.

Article no.	Article name	Description
L14001893	LOKplus X012	Thermoplastic capillary tubes
Technical data		
Outer diameter		5.9 mm
Inner diameter		2 mm
Minimum bending radius		10 mm
Maximum working pressure		40 bar
Working temperature		-40 °C - 115 °C
Fire-resistance		Class HB, UL 94
		Resistant to UV, oil and ozone

LOKPLUS: 1751 | Plastic tube cutter



LOKPLUS plastic tube cutter

Article no.	Article name	Description
L14000816	LOKplus 1751	Plastic tube cutter

LOKPLUS: KZ-X012 | Clamping pliers



LOKPLUS clamping pliers for X012

Article no.	Article name	Description
L14001911	LOKplus KZ-X012	Clamping pliers

LOKPLUS: K-X012-VL | Assembly set



LOKPLUS assembly set

The fast solution with tools and fittings for setting up capillary tube connections.

Scope of supply

- ⊕ Plastic tube cutter 1751
- ⊕ Clamping pliers 200632
- ⊕ 10 x straight connector WCG250-VL
- ⊕ 5 x 90° elbow connector WCW251-VL
- ⊕ 2 x T-piece WCT250-VL
- ⊕ 5 x valve opener 200612
(only in connection with seal D06)
- ⊕ 5 x seal D06
(only in connection with valve opener 200612)
- ⊕ 15 x seal CUD-06
- ⊕ 21 x pressure sleeve for X012-VL
- ⊕ Plastic case

Article no.	Article name	Description
L13002098	LOKplus K-X012-VL	Assembly set

THERMOPLASTIC TUBES X012

ACCESSORIES

LOKPLUS: WCT250-VL | T-piece



LOKPLUS T-piece
for 3 pressed connections X012.

Article no.	Article name	Description
L13003081	LOKplus WCT250-VL	T-piece

LOKPLUS: WCT260-VL | T-piece



LOKPLUS T-piece
with 1/4" SAE union nut as a central branch
and 2 pressed connections X012

Article no.	Article name	Description
L13003512	LOKplus WCT260-VL	T-piece

LOKPLUS: WCT270-VL | T-piece



LOKPLUS T-piece
with a 1/4" SAE union nut and
2 pressed connections X012.

Article no.	Article name	Description
L13003513	LOKplus WCT270-VL	T-piece

LOKPLUS: WCG250-VL | Straight connector



LOKPLUS straight connector
with 1/4" SAE union nut.

Artikel-Nr.	Article name	Description
L13003071	LOKplus WCG250-VL	Straight connector

LOKPLUS: WCW251-VL | Long radius elbow connector



LOKPLUS long radius elbow connector
with 1/4" SAE union nut.

Article no.	Article name	Description
L13003072	LOKplus WCW251-VL	Long radius elbow connector

LOKPLUS: DH-X012 | Pressure sleeve



LOKPLUS pressure sleeve for X012

Article no.	Article name	Description
L14001896	LOKplus DH-X012	Pressure sleeve

LOKPLUS: D06L | Seal

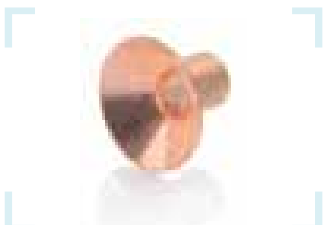


LOKPLUS seal

Seal in connection with the valve opener LOKplus VD-X012.

Article no.	Article name	Description
L14000724	LOKplus D06	Seal

LOKPLUS: CUD-06 | Seal



LOKPLUS seal

for union nut 1/4".

Article no.	Article name	Description
L14002460	LOKplus CUD-06	Seal

LOKPLUS: VD-X012 | Valve opener



LOKPLUS valve opener

for actuating the schrader connections.

Article no.	Article name	Description
L13003821	LOKplus VD-X012	Valve opener

THERMOPLASTIC TUBES X015

FAST, FLEXIBLE, PRESSURE-RESISTANT

LOKPLUS: X015 | Thermoplastic tubes



LOKTOOL thermoplastic tubes*

Flexible tubes for compensating strong vibrations. In the case of refrigeration systems where safety pressure switches with capillary tubes are connected, the German Technical Board (TÜV) requires the capillaries to be replaced by connection tubes \geq DN4 to prevent clogging.

* Available in pre-manufactured lengths including copper seals.

Article no.	Article name	Description
L14001308	LOKplus X015	Thermoplastic tubes
Technical data		
Length		25 m
Outer diameter		8.0 mm
Inner diameter		5 mm
Minimum bending radius		50 mm
Maximum working pressure		40 bar
Working temperature		-35 °C - 115 °C
Fire-resistance		Class HB, UL 94
		Resistant to UV, oil and ozone

LOKPLUS: X015 x y z | Pre-assembled thermoplastic tubes



G



W



LOKPLUS pre-assembled thermoplastic tubes

Flexible tube »X015«. Neither soldering nor welding work is necessary for any of the connection types. This means that the effect of heat on pressure switches, hoses etc. is avoided.

Scope of supply

- ⊕ LOKPLUS thermoplastic tube in 1 m length*
- ⊕ Pre-assembled connectors in 1/4" SAE**

* Other tube lengths on request.

**Delivered with 1/4" SAE connectors as standard, 3/8" SAE connectors on request

Article no.	Article name	Description
L13002779	LOKplus X015-G+G-1000	Thermoplastic tubes
L13002780	LOKplus X015-G+W-1000	Thermoplastic tubes
L13003525	LOKplus X015-G+L-1000	Thermoplastic tubes
L13002781	LOKplus X015-W+W-1000	Thermoplastic tubes
L13003526	LOKplus X015-W+L-1000	Thermoplastic tubes
L13003524	LOKplus X015-L+L-1000	Thermoplastic tubes

The order code is made up of the abbreviation for the thermoplastic tube »X015« as well as the codes for the 2 connectors (x, y) and the length of the tube in mm (z).

Order code

X015	Thermoplastic tube
G	Straight with 1/4" SAE
W	90° elbow with 1/4" SAE
L	Straight with LOKRING
1000	Length

Order code example X015-G+L-1000

A thermoplastic tube 1000 mm long with one straight 1/4" SAE connector and one straight LOKRING connector.

THERMOPLASTIC TUBES X015

ACCESSORIES

LOKPLUS: WRG550-1 | Straight connector



LOKPLUS straight connector

Article no.	Article name	Description
L13002766	LOKplus WRG550-1	Straight connector

LOKPLUS: WRW550-1 | 90° elbow



LOKPLUS 90° elbow

Article no.	Article name	Description
L13002767	LOKplus WRW550-1	90° elbow

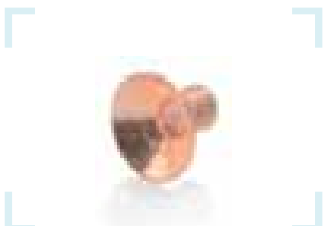
LOKPLUS: MS-15 | Connection piece



LOKPLUS connection piece

Article no.	Article name	Description
L14001316	LOKplus MS-15	Connection piece

LOKPLUS: CUD-06 | Copper seal



LOKPLUS copper seal

Article no.	Article name	Description
L14002460	LOKplus CUD-06	Copper seal

LOKPLUS: VD-X015 | Valve opener



LOKPLUS valve opener X086 for X015

Article no.	Article name	Description
L14001644	LOKplus VD-X015	Valve opener

QUICK COUPLERS

SERVICE CONNECTIONS FOR PROFESSIONAL MAINTENANCE

LOKPLUS: QC-134A-x | Quick couplers



QC-134a-RM



QC-134a-BM



QC-134a-RF



QC-134a-BF

LOKPLUS quick couplers

High-quality quick coupler for connection to R134a air-conditioning systems. Tested to SAE J497.

Article no.	Article name	Connection	Colour
L14002503	LOKplus QC-134a-RM	1/4" SAE (High pressure)	red
L14002502	LOKplus QC-134a-BM	1/4" SAE (Low pressure)	blue
L14002484	LOKplus QC-134a-RF	14 x 1,5 (High pressure)	red
L14002485	LOKplus QC-134a-BF	14 x 1,5 (Low pressure)	blue

LOKPLUS: TW111-x UND TW111-410A-x | Quick couplers



LOKPLUS quick couplers

Quick couplers for connection to a schrader valve in seconds.

Suitable for a temperature range from -10 °C to +80 °C.

Article no.	Article name	Connection	Max. pressure
L14001197	LOKplus TW111-B	1/4" SAE (Low pressure)	30 bar
L14001196	LOKplus TW111-R	1/4" SAE (High pressure)	30 bar
L14001199	LOKplus TW111-410A-B	5/16" SAE (Low pressure)	42 bar
L14001198	LOKplus TW111-410A-R	5/16" SAE (High pressure)	42 bar

LOKPLUS: x-C | Quick couplers and accessories



LOKPLUS quick couplers

For opening schrader valves without refrigerant loss. When the quick coupler is removed, the hose is sealed tight by the valve. A valve opener is not required in the end of the hose.

LOKPLUS accessories for quick couplers

- ⊖ Knurled nut
- ⊖ O-rings
- ⊖ Seals

Quick couplers

Article no.	Article name	Connections	Description
L14000009	LOKplus 16-C	1/4" SAE	Straight coupler
L14000053	LOKplus 17-C	1/4" SAE	90° elbow coupler
L14002677	LOKplus 26-C	5/16" SAE	Straight coupler (for R410A)
L14002678	LOKplus 27-C	5/16" SAE	Elbow coupler (for R410A)

Accessories

Article no.	Article name	Description
L14000317	LOKplus 16-C/RM	Knurled nut for 16-C and 17-C
L14000264	LOKplus OR-16C	O-ring for 16-C and 17-C
L14002926	LOKplus OR-26C	O-ring for 26-C and 27-C
L14000265	LOKplus 16-C/D	Seal for 16-C and 17-C
L14002927	LOKplus 26-C/D	Seal for 26-C and 27-C



FEMALE COUPLERS AND PLUGS

QUICKLY CONNECTED

LOKPLUS: QCF-04 | Female coupler



LOKPLUS: QCF-04-H.NBR | Female coupler



LOKPLUS female coupler

Article no.	Article name
L14000045	LOKplus QCF-04

Steel female coupler with 1/4" NPT connection thread



LOKPLUS female coupler

Article no.	Article name
L14001808	LOKplus QCF-04-H.NBR

Female coupler and H.NBR seal with Rc 1/4" connection thread

LOKPLUS: QCF-06-H.NBR | Female coupler



LOKPLUS: QCM-04 | Plug



LOKPLUS female coupler

Article no.	Article name
L14001809	LOKplus QCF-06-H.NBR

Female coupler and H.NBR seal with Rc 3/8" connection thread



LOKPLUS plug

Article no.	Article name	Thread
L14000046	LOKplus QCM-04	FPT 1/4"

Plug with FPT 1/4" thread

LOKPLUS: QCM-06-H.NBR | Plug



LOKPLUS: QCM-04-H.NBR | Plug



LOKPLUS plug

Article no.	Article name
L14001796	LOKplus QCM-06-H.NBR

Plug with FPT 3/8" thread and H.NBR seal



LOKPLUS plug

Article no.	Article name	Thread
L14001795	LOKplus QCM-04-H.NBR	

Plug with Rc 1/4" thread and H.NBR seal

QUICK-ACTION COUPLERS

QUICKLY CONNECTED

LOKPLUS: QAA-04 | Quick-action coupler



LOKPLUS: QAA-05 | Quick-action coupler



LOKPLUS quick-action coupler

Article no.	Article name	Tube- \varnothing [mm inches]
L14000030	LOKplus QAA-04	6 1/4



LOKPLUS quick-action coupler

Article no.	Article name	Tube- \varnothing [mm inches]
L14000142	LOKplus QAA-05	8 5/16

LOKPLUS: QAI-04 | Quick-action coupler insert



LOKPLUS: QAI-05 | Quick-action coupler insert



LOKPLUS quick-action coupler insert

Article no.	Article name	Tube- \varnothing [mm inches]
L14000082	LOKplus QAI-04	6 1/4



LOKPLUS quick-action coupler insert

Article no.	Article name	Tube- \varnothing [mm inches]
L14000028	LOKplus QAI-05	8 5/16

LOKPLUS: QAG-04 | Seal



LOKPLUS: QAG-05 | Seal



LOKPLUS seal

Article no.	Article name	Tube- \varnothing [mm inches]
L14000083	LOKplus QAG-04	6 1/4



LOKPLUS seal

Article no.	Article name	Tube- \varnothing [mm inches]
L14000021	LOKplus QAG-05	8 5/16

THREADED CONNECTION PIECE

SCREW CONNECTIONS WITH OUTER THREAD

LOKPLUS: U1-4A | Threaded connection piece



LOKPLUS threaded connection piece

Article no.	Article name	Thread
L14000322	LOKplus U1-4A	1/4" SAE M x 1/8" NPT

LOKPLUS: U1-4B | Threaded connection piece



LOKPLUS threaded connection piece

Article no.	Article name	Thread
L14000091	LOKplus U1-4B	1/4" SAE M x 1/4" NPT

LOKPLUS: U1-4C | Threaded connection piece



LOKPLUS threaded connection piece

Article no.	Article name	Thread
L14000023	LOKplus U1-4C	1/4" SAE M x 3/8" NPT

LOKPLUS: U1-4D | Threaded connection piece



LOKPLUS threaded connection piece

Article no.	Article name	Thread
L14000041	LOKplus U1-4D	1/4" SAE M x 1/2" NPT

LOKPLUS: U1-4K | Threaded connection piece



LOKPLUS threaded connection piece*

Article no.	Article name	Thread
L12002407	LOKplus U1-4K	R1/4" K x 1/4" SAEM

* Suitable for the quick coupler system on P. 94

LOKPLUS: U1-6x | Threaded connection pieces



LOKPLUS threaded connection pieces

Article no.	Article name	Thread
L14002093	LOKplus U1-6A	3/8" SAE M x 1/8" NPT
L14000918	LOKplus U1-6B	3/8" SAE M x 1/4" NPT

LOKPLUS: U2-4 | Threaded connection piece



LOKPLUS threaded connection piece

Article no.	Article name	Thread
L14000047	LOKplus U2-4	1/4" SAE M x 1/4" NPT

LOKPLUS: U2-6 | Threaded connection piece



LOKPLUS threaded connection piece

Article no.	Article name	Thread
L14000966	LOKplus U2-6	3/8" SAE M x 3/8" NPT

FEMALE CONNECTORS

SCREW CONNECTIONS WITH OUTER THREAD

LOKPLUS: U1-5K | Female connector



LOKPLUS: U1-6K | Female connector



LOKPLUS female connector*

Article no.	Article name	Thread
L12002408	LOKplus U1-5K	R1/4" K x 1/4" SAE F

* Suitable for the quick coupler system on P. 94



LOKPLUS female connector*

Article no.	Article name	Thread
L12002413	LOKplus U1-6K	R1/4" K x 1/4" FPT

* Suitable for the quick coupler system on P. 94

LOKPLUS: U1-7K | Female connector



LOKPLUS: U5-4B | Female connector



LOKPLUS female connector*

Article no.	Article name	Thread
L12002418	LOKplus U1-7K	1/4" SAE M x R1/4" K

* Suitable for the quick coupler system on P. 94



LOKPLUS female connector

Article no.	Article name	Thread
L14000559	LOKplus U5-4B	1/4" NPT x 3/8" SAE F

LOKPLUS: U3-4A | Female connector



LOKPLUS: U3-4B | Female connector



LOKPLUS female connector

Article no.	Article name	Thread
L14000116	LOKplus U3-4A	1/4" SAE M x 1/8" FPT



LOKPLUS female connector

Article no.	Article name	Thread
L14000092	LOKplus U3-4B	1/4" SAE M x 1/4" FPT

LOKPLUS: U3-6B | Female connector



LOKPLUS: AVU-44 | Female connector



LOKPLUS female connector

Article no.	Article name	Thread
L14002022	LOKplus U3-6B	3/8" SAE M x 1/4" FPT



LOKPLUS female connector

Article no.	Article name	Thread
L14000097	LOKplus AVU-44	1/4" SAE x 1/4" SAE

* With schrader valve

REDUCERS, SLEEVES, T-CONNECTORS AND ELBOW CONNECTORS

USEFUL THREADED CONNECTIONS

LOKPLUS: UR3-46 | Reducer



LOKPLUS: UR3-64 | Reducer



LOKPLUS reducer

Article no.	Article name	Thread
L14000090	LOKplus UR3-46	1/4" SAE F x 3/8" SAE M



LOKPLUS reducer

Article no.	Article name	Thread
L14000052	LOKplus UR3-64	3/8" SAE F x 1/4" SAE M

LOKPLUS: U4-4 | Sleeve



LOKPLUS: U4-6 | Sleeve



LOKPLUS sleeve

Article no.	Article name	Thread
L14000445	LOKplus U4-4	1/4" SAE F x 1/4" SAE F



LOKPLUS sleeve

Article no.	Article name	Thread
L14001899	LOKplus U4-6	3/8" SAE F x 3/8" SAE F

LOKPLUS: TS4-44 | T-connector



LOKPLUS: T2-4 | T-connector



LOKPLUS T-connector

Article no.	Article name
L14000811	LOKplus TS4-44

Thread 1	T-branch	Thread 2
1/4" SAE M	1/4" SAE F	1/4" SAE M



LOKPLUS T-connector

Article no.	Article name
L14001203	LOKplus T2-4

Thread 1	T-branch	Thread 2
1/4" SAE M	1/4" SAE M	1/4" SAE M

LOKPLUS: AVT-34 | T-connector



LOKPLUS: ES4-44 | Elbow connector



LOKPLUS T-connector

Article no.	Article name
L14000051	LOKplus AVT-34

Thread 1	T-branch	Thread 2
1/4" SAE M	1/4" SAE M	1/8" NPT



LOKPLUS elbow connector

Article no.	Article name
L14000812	LOKplus ES4-44
L14000300	LOKplus ES4-66

REFRIGERANT CHARGING

REFRIGERANT IN HANDY CONTAINERS

LOKPLUS: KFM-R x | Refrigerant



LOKPLUS refrigerant

In pressurised aluminium cylinders with a dip tube for hire*.

* Hire and usage conditions on request.

Article no.	Article name	Contents
L14003147	LOKplus KMF-R134a	920 g
L14000564	LOKplus KMF-R402A	480 g
L14000563	LOKplus KMF-R404A	410 g
L14000566	LOKplus KMF-R407C	430 g
L14001195	LOKplus KMF-R410A	435 g

LOKPLUS: KM-R600A | Refrigerant



LOKPLUS refrigerant

Isobutene in cartridges as a disposable container.

Article no.	Article name	Contents
L14000125	LOKplus KM-R600a	420 g

LOKPLUS: W21,8-14 | Adapter



LOKPLUS adapter

Connection adapter for reusable refrigerant cylinder with W21.8-14 thread (incl. seal). For non-combustible refrigerants.

Article no.	Article name	Description
L14000689	LOKplus W21,8-14	Adapter

LOKPLUS: W21,8-14L | Adapter



LOKPLUS adapter

Adapter for connecting a charging hose with 1/4" SAE thread. Scope of supply includes seal. For combustible refrigerants.

Article no.	Article name	Description
L13004074	LOKplus W21,8-14L	Adapter

LOKPLUS: EV-12 | Recovery valve



LOKPLUS recovery valve

For recovering refrigerant from cartridges with R413A, R600a and VULKAN LOKRING cartridges with R134a

- ⊕ Hose connection 1/4" SAE-M
- ⊕ Cartridge connection 7/16" x 20 NS-2

Article no.	Article name	Description
L14000219	LOKplus EV-12	Recovery valve

FURTHER ACCESSORIES

USEFUL AIDS

LOKPLUS: VRC2.D | Flaring tool



LOKPLUS flaring tool

Precision flaring tool for the simple and fast expansion of soft copper, aluminium or brass tubes with metric or inch diameters. Suitable for tube outer diameters from 5 to 16 mm (3/16" to 5/8").

Article no.	Article name	Description
L14002017	LOKplus VRC2.D	Flaring tool

LOKTOOL: KN-70081 | Ratchet wrench



LOKTOOL ratchet wrench

Steel ratchet wrench with reversible ratchet for 9/16" and 1/2" hex as well as for 1/4" and 3/16" square.

Article no.	Article name	Description
L14001251	LOKtool KN-70081	Ratchet wrench

LOKPLUS: E-6200A | Valve core



LOKPLUS valve core

Article no.	Article name	Description
L14000113	LOKplus E-6200a	Valve core

LOKTOOL: E-6200 | Valve core removing tool



LOKTOOL valve core removing tool

for removing and replacing valve cores in schrader valves and charging hoses.

Article no.	Article name	Description
L14000013	LOKtool E-6200	Valve core removing tool

LOKTOOL: CTV1 | Valve core removing tool



LOKTOOL valve core removing tool

For removing and assembling schrader valves. Contains three valve cores.

Article no.	Article name	Description
L14001215	LOKtool CTV1	Valve core removing tool

LOKTOOL: CD-3900 | Valve core removing tool



LOKTOOL valve core removing tool
for removing and replacing valve cores without refrigerant loss in filled systems.

Article no.	Article name	Description
L14000014	LOKtool CD-3900	Valve core removing tool

LOKPLUS: CD-5560 | Spindle



LOKPLUS spindle
for CD-3900.

Article no.	Article name	Description
L14000085	LOKplus CD-5560	Spindle

LOKPLUS: CD-5577 | Stick



LOKPLUS stick
for CD-3900.

Article no.	Article name	Description
L14000086	LOKplus CD-5577	Stick

LOKPLUS: OR-CD5555 | Set of O-rings



LOKPLUS set of O-rings
for CD-3900.

Article no.	Article name	Description
L14000084	LOKplus OR-CD5555	Set of O-rings

FURTHER ACCESSORIES

USEFUL AIDS

LOKPLUS: RS-ST115T | Repair Stick



57 g

LOKPLUS Repair Stick

For permanent, high temperature-resistant and wear-resistant repairs and adhesion of metal parts. Sticks to metal, wood, glass, ceramics, concrete and many plastics. Temperature resistant from -35°C to 280°C and pressure-resistant up to 84 N/mm^2 . Resistant to chemicals such as alcohol, esters, salt water, oils and most acids and alkalis.

Article no.	Article name	Contents
L14000965	LOKplus RS-ST115T	57 g

LOKPLUS: RK-ST115 | Repair Kit



57 g

LOKPLUS Repair Kit

For sealing aluminium evaporators. Temperature resistant from -35°C to 120°C and pressure-resistant up to 84 N/mm^2 .

Article no.	Article name	Contents
L14000688	LOKplus RK-ST115	57 g

LOKPLUS: LR-RF 01 | Recycling cylinder



12.3 l

LOKPLUS recycling cylinder

Welded recycling cylinder with sealed valve and flange to protect the valve. Double valve with dip tube for liquid and gaseous recovery with upright cylinder. Tested to PED 99/36/EC.

Article no.	Article name	Description
L14002214	LOKplus LR-RF 01	Recycling cylinder

Technical data

Max. operating pressure	42 bar
Contents	12.3 l
Max. filling quantity	9 kg
Empty weight	7.8 kg
Height	506 mm
Diameter	229 mm

CONSUMABLES

TUBE PROCESSING AND LAMELLA CARE

LOKTOOL: SV.3 | Abrasive mat

LOKTOOL: SL | Sandpaper



High-quality abrasive mat

Article no.	Article name	Quantity
L13004251	LOKtool SV.3	3 mats



High-quality sandpaper

Article no.	Article name	Quantity
L14000002	LOKtool SL	1 sheet

LOKTOOL: CWx | Cutting wheels

LOKTOOL: TCS-x | Cutting blades



Cutting wheels LOKTOOL TC-series

Article no.	Article name	For
L14003603	LOKtool CW3-28	TC3-28
L14003602	LOKtool CW6-38	TC6-38



Cutting blades* LOKTOOL TC-series

Article no.	Article name	For
L13003601	LOKtool TCS-1000-75015	Copper
L14000107	LOKtool TCS-1000-75046	Stainless steel
L14001103	LOKtool TCS-1050	

*Illustration similar

LOKTOOL: LRSMx | Cutting blades

LOKTOOL: RCS-x | Cutting blades



Cutting blades* LOKTOOL LRS-series

Article no.	Article name	For
L13001304	LOKtool LRSM	LRSZ

*Illustration similar



Cutting blades* LOKTOOL RC-series

Article no.	Article name	For
L14002075	LOKtool RCS-1125	RC1125
L14002063	LOKtool RCS-375	RC375

*Illustration similar

LOKTOOL: N-Ex | Replacement blade

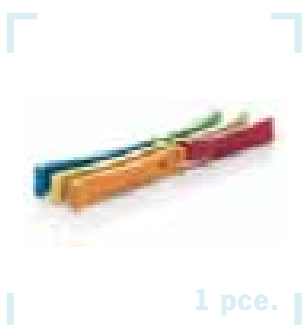
LOKTOOL: FCR6 | Fin comb set



For tube deburrer »GRATFIX N-E«

Article no.	Article name	For
L14001363	LOKtool N-E100	AL, ST, PE
L14001364	LOKtool N-E200	Cast, plastic
L14001365	LOKtool N-E300	

For deburring two edges at the same time



Fin comb set

Article no.	Article name	For
L14001031	LOKtool FCR6	Fin comb set

For smoothing and cleaning evaporator and condenser fins

CONSUMABLES TABLE

QUICK ORDERS

LOKPREP: LT | Anaerobic filler



LOKPREP: HT | Anaerobic filler



to 30 °C

Anaerobic filler LOKPREP LT

Article no.	Article name	Quantity
L14003407	LOKPREP LT	15 ml
L14003406	LOKPREP LT	50 ml
0° to 30°C		



from 25 °C

Anaerobic filler LOKPREP HT

Article no.	Article name	Quantity
L14003404	LOKPREP HT	15 ml
L14003581	LOKPREP HT	50 ml
from 25°C		

LOKPLUS: M068 | Mineral oil for vacuum pumps



LOKPLUS: M0100PLUS | Mineral oil for vacuum pumps



1 L

Mineral oil for RC.4D / RC.8D / DIP402

Article no.	Article name	Quantity
L14000010	Öl-M068	1 l



1 L

Mineral oil for DC.16D

Article no.	Article name	Quantity
L13003963	Öl-M0100Plus	1 l

LOKPLUS: KFM-x | Refrigerant



Refrigerant in recycling cylinder*

Article no.	Article name	Quantity
L14003147	LOKplus KMF-R134a	920 g
L14000564	LOKplus KMF-R402A	480 g
L14000563	LOKplus KMF-R404A	410 g
L14000566	LOKplus KMF-R407C	430 g
L14001195	LOKplus KMF-R410A	435 g

* Hire and usage conditions for refrigerant cylinders on request.

LOKPLUS: KM-R600A | Refrigerant



420 g

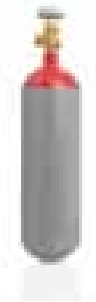
Refrigerant 600A in disposable cartridge

Article no.	Article name	Quantity
L14000125	LOKplus KM-R600a	420 g

LOKPLUS: TG2L | Tracer gas filling 95/5



LOKPLUS: DF-060-02 | Nitrogen cylinder



2 l

For leak detection using tracer gas

Article no.	Article name	Quantity
L14003704	LOKplusTG2L	2 l



2 l

Nitrogen steel bottle

Article no.	Article name	Quantity
L14000038	LOKtool DF-060-02	2 l

LOKPLUS: LS-400 | Leak detection spray



LOKTOOL: LT 08 | Liquid leak detector



400 ml

Leak detection spray

Article no.	Article name	Quantity
L14000823	LOKplus LS-400	400 ml

The spray is anti-corrosive, non-irritating and not flammable. Tested to DIN-DVGW



110 g

Liquid leak detector

Article no.	Article name	Quantity
L14002728	LOKtool LT 08	110 g

Liquid leak detector for detecting leaks through bubble formation.

LOKPLUS: BR | Cooling spray



LOKPLUS: W44T | Turbo-Power spray



400 ml

For testing thermostats

Article no.	Article name	Quantity
L14000311	LOKplus BR	400 ml

In spray cans for testing thermostats up to -50°C



400 ml

For loosening and derusting

Article no.	Article name	Quantity
L14000822	LOKplus W44T	400 ml

Loosens seized screw connections, bolts, fittings and valves, penetrates and loosens rust.

SERVICE – WELL INFORMED RATHER THAN WRONGLY CONNECTED
WE WILL BE HAPPY TO HELP



VULKAN LOKRING ROHRVERBINDUNGEN GMBH & CO. KG

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Name	-----	Position	-----
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I WORK IN THE FIELD OF

- Vehicle air conditioning
- White goods
- Building air conditioning
- Commercial refrigeration systems

THE MAIN FOCUS OF MY WORK IS

- Service
- Original equipment suppliers
- Manufacturers / OEM

YES, I WOULD LIKE MORE DETAILED INFORMATION ...

1. CATALOGUES

- Catalogue – for servicing
- Single ring tube connection – for series production
- LOKRING tube connection for servicing – General basis and application guidelines

2. BROCHURES

- LOKRING | LOKCLIP
- SPEEDMAXX

PLEASE PROVIDE AS

- Catalogue
- PDF file
- CD

NOTE

You can also download our print media as PDF files from our website www.vulkan-LOKRING.de.

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NOTE

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