



### **CONTENTS**

| 04 | VULKAN                    |
|----|---------------------------|
| 08 | LOKRING®                  |
| 12 | STARTER KITS              |
| 16 | ASSEMBLY TOOLS            |
| 20 | LOKPREP®                  |
| 22 | LOKRING® TUBE CONNECTIONS |
| 30 | NAV CONNECTIONS           |
| 32 | FILTER DRYERS             |
| 34 | CHARGING TUBES            |
| 36 | ACCESSORIES               |
| 40 | LOKRING® ASSEMBLY TYPE 00 |
| 42 | ONLINE-SERVICE            |
| 43 | IMPRINT                   |
|    |                           |

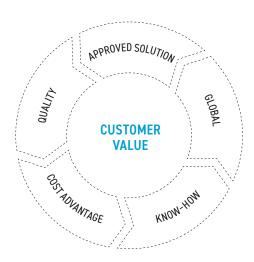


### THE VULKAN GROUP

### SINCE 1979 VULKAN HAS DEVELOPED, MANUFACTURED AND MARKETED MECHANICAL TUBE JOINING SYSTEMS FOR REFRIGERANT LINES.

With five production sites, over 50 sales companies and around 1,400 employees at 18 locations worldwide, the VULKAN Group is one of the technology and market leaders in the field of marine, industrial and energy technology as well as refrigeration and air conditioning technology.

Under the slogan "We ensure that systems work better." we provide our customers with customized solutions that help to improve their systems both technically and economically.



#### MARKETS AND PRODUCTS

Due to its diversified business portfolio, the VULKAN Group - in line with the markets it serves - is made up of three divisions: Marine, Industry and Energy and Refrigeration and Air Conditioning.

#### **EXPERTS FOR REFRIGERATION AND AIR CONDITIONING TECHNOLOGY**

Originally developed for the most extreme conditions of aerospace applications, VULKAN's LOKRING tube joining technology has been continuously developed for domestic and commercial refrigeration as well as air conditioning applications.

#### APPROVED SOLUTION

### 2,500,000,000 LOKRING® CONNECTIONS

have been successfully used in the industrial volume production of refrigerators, freezers and air conditioning systems.

#### **GLOBAL**

#### 1,000,000 LOKRINGS PER DAY

are produced in the five international production facilities of VULKAN on modern multi-spindle automatic lathe machines and shipped to 83 destination countries.

#### **COST ADVANTAGE**

### 7.000 CUSTOMERS

optimise their international competitive edge by using LOKRING tube connections as cost and quality benefit compared to brazed ones.

#### KNOW-HOW

#### **650** UNIQUE TYPES OF LOKRING

are used at present by customers in order to optimally join tubes made of different materials and combinations of diameters.

#### QUALITY

#### 100% QUALITY INSPECTION

of LOKRING based on automated industrial image processing as part of the certified VULKAN quality management system.

### THE VULKAN GROUP

#### **CUSTOMIZED SOLUTIONS FOR BRAZE-FREE TUBE CONNECTIONS**

Since 1979, we have continuously applied the expert knowledge gained as an original equipment manufacturer for the industry to our braze-free tube connections, providing customized solutions for tube connections used in the manufacture, installation and maintenance of refrigeration and air conditioning equipment. As the market leader in braze-free, permanent tube connections, we can supply a matched system of tube connections in original equipment quality and with all necessary certifications for almost any installation or service application. This also includes the corresponding assembly tools and accessories.

#### **EVERYTHING FROM A SINGLE SOURCE**

Our customers receive everything from a single source - from special development for specific customer requirements and in-house production to sales and service through local subsidiaries or authorized distributors. VULKAN's Refrigeration and Air Conditioning division is divided into the following business segments:

#### **→** OEM | PRODUCTION

The LOKRING Single Ring technology is a method for connecting metallic refrigerant lines without brazing so that they are permanent and hermetically sealed. For this purpose, VULKAN constructs customised LOKRING tube connectors for any application based on the tube materials, dimensions and tolerances and the associated assembly tools. Whether it is a matter of optimising costs, improving quality, or solving a problem – LOKRING Single Ring is the answer!

#### **(9) INSTALLATION OF HVAC SYSTEMS**

The patented LOKRING tube connection system provides an innovative system of braze-free tube connectors for every installation situation in refrigeration and air conditioning technology.

#### **→** REPAIR OF REFRIGERATION APPLIANCES

VULKAN provides an innovative system of braze-free tube connectors for every repair situation in refrigeration appliances.

#### **→ REPAIR OF VEHICLE A/C SYSTEMS**

Our technology includes an innovative system of braze-free tube connectors as well as hose connectors for every repair situation in vehicle air conditioning systems & E-Vehicle battery cooling circuits.

#### RESEARCH AND DEVELOPMENT

For the last decades, experienced engineers have built new solutions for customers' applications in the development centre in Germany.

#### PRODUCT AND MANAGEMENT CERTIFICATION

The products of VULKAN Refrigeration and Air Conditioning have of course TÜV product approval. Furthermore, the quality management system is certified according to ISO 9001 and the environmental management system according to ISO 14001. In addition, AEO certifications, leak tests and expert reports are available.

#### **CLIMATE PROTECTION**

Since our tube connections are hermetically sealed, we can ensure that no climate damaging refrigerants leak into the environment. Furthermore, LOKRING makes the use of environmental friendly but flammable refrigerants (HC) safer and allows the use of  ${\rm CO_2}$  (R744). Thus, by using LOKRING tube connections you make a contribution to the active protection of the environment.

#### **SERVICE**

Whether you are seeking planning and consultancy for optimising the refrigeration cycle system by using braze-free tube connections, support with the introduction of the LOKRING technology in production or after-sales service – everything is available locally with competent VULKAN technicians.

#### THE BEST CONNECTION - WORLDWIDE

Operating with five international production facilities, with 18 VULKAN subsidiaries and an additional 13 agencies worldwide, we ensure that LOKRING expertise is available on site throughout the world. This means that our customers have rapid access to our specialists and that the necessary solutions are quickly available exactly where they are needed.



#### **CUSTOMER REFERENCES**

A small selection from more than 7,000 satisfied customers:













HITACHI



























### **LOKRING**®

### THE PATENTED LOKRING® TUBE CONNECTION SYSTEM PROVIDES AN IN-NOVATIVE SYSTEM OF BRAZE-FREE TUBE CONNECTIONS FOR EVERY REPAIR SITUATION IN REFRIGERATION APPLIANCES.

LOKRING tube connections can be made without a great deal of force being necessary, using simple hand assembly tools. LOKRING ensures an absolutely clean, permanent and purely mechanical tube connection with long-term hermetic gas-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.

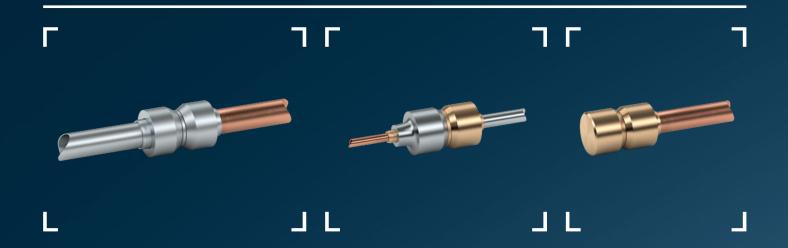
#### THE BENEFITS

- Oustomer-friendly onsite service
- ⊕ Absolutely clean, efficient and reliable

- ⊕ Light hand assembly tool without energy exertion
- No braze-related quality problems

#### **AREAS OF APPLICATION**

- → Household refrigeration appliances (refrigerators, freezers, wine coolers)
- (refrigeration cabinets, bars, lockers, chillers)
- (sales counter refrigerators, flow-through coolers, portable cooling systems)



### THE BEST CONNECTION





- Straight connections
- Straight reducing connections
- Capillary connections
- **⊕** Elbows
- ⊕ Connections with schrader valve
- Stoppers

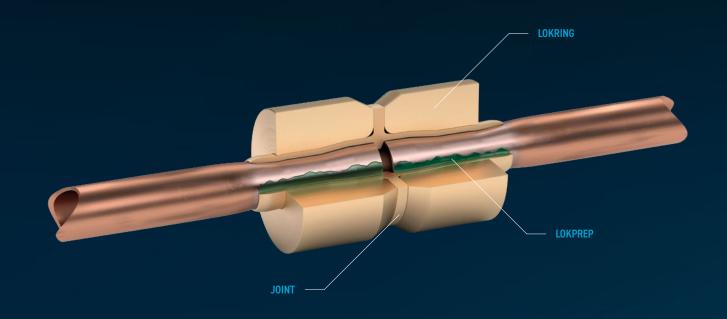
- ⊕ Replace a compressor
- ⊕ Replace a charging tube

#### IU | LUKKIN

# LOKRING® BRASS CONNECTORS

THE TYPICAL LOKRING union joint consists of two LOKRINGs and one tubular joint for the acceptance of the two tube ends. Thanks to the conical inner contour of the LOKRING

and the special outer contour of the joint, the diameter of the connection, is reduced during assembly to such an extent that the joint and the tube create a hermetically



#### **TECHNICAL SPECIFICATIONS**

#### Reference standards:

EN 378-2 and ISO 14903

#### Max. operating pressure:

50 bar (720 psi) – Observe the permissible operating pressure of the tube used.

#### Admissible refrigerants:

Suitable for all HCs, HFCs and mixtures. Not suitable for NH<sub>3</sub>.

#### Temperature range:

-50°C up to 150°C (-58°F up to 302°F)

#### Tube diameter range:

1.6 to 11 mm (1/16" to 3/8")

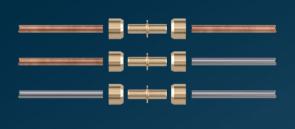
#### Minimum tube wall thickness:

- for operating pressures < 25 bar (360 psi):</li>0.5 mm (0.020")
- for operating pressures > 25 bar (360 psi):0.7 mm (0.028")\*

#### Approvals:

ΤÜV

#### **MATERIAL COMBINATIONS**



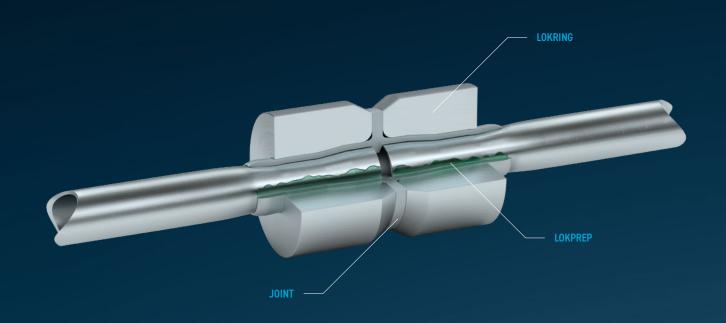


<sup>\*</sup>Applications > 25 bar (360 psi) with smaller tube wall thickness on request.

### **LOKRING**<sup>®</sup> **ALUMINIUM CONNECTORS**

sealed metal-to-metal connection. The lifetime gastightness of the fitted connection is ensured by the state of permanent elastic pre-tension, which is produced by the

radial forces of the LOKRINGs acting in the opposite direction to the tube-joint connection.



#### **TECHNICAL SPECIFICATIONS**

#### Reference standards:

EN 378-2 and ISO 14903

#### Max. operating pressure:

50 bar (720 psi) - Observe the permissible operating pressure of the tube used.

#### Admissible refrigerants:

Suitable for all HCs, HFCs and mixtures. Not suitable for NH<sub>2</sub>.

#### Temperature range:

-50°C up to 150°C (-58°F up to 302°F)

#### Tube diameter range:

1.8 to 9 mm (5/64" to 5/16")

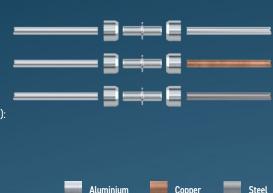
#### Minimum tube wall thickness:

- for operating pressures < 25 bar (360 psi): 0.5 mm (0.020")
- Cu and St for operating pressures > 25 bar (360 psi): 0.7 mm (0.028")\*
- Al for operating pressures > 25 bar (360 psi): 0.8 mm (0.032")\*

#### Approvals:

ΤÜV

#### **MATERIAL COMBINATIONS**



\*Applications > 25 bar (360 psi) with smaller tube wall thickness on request.

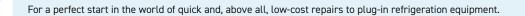




### **STARTER KITS**



#### **LOKRING® STARTER KITS**



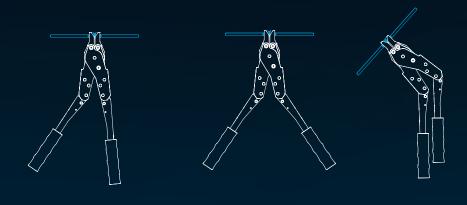


| Article no. Article name  | Description  |
|---------------------------|--------------|
| L13005831 LOKBOX CK-RA-01 | Complete Kit |
| L13005828 LOKBOX SK-RA-01 | Starter Kit  |

| Scope of supply                  | Qua      | ntity    |             |                         | Qua      | ntity    |
|----------------------------------|----------|----------|-------------|-------------------------|----------|----------|
| Article no. Article name         | CK-RA-01 | SK-RA-01 | Article no. | Article name            | CK-RA-01 | SK-RA-01 |
| L13003829 LOKTOOL HMRK-V         | 1        | 1        | L13000612   | LOKRING 3/2 NR Ms 00    | 5        | 1        |
| L20000200 LOKTOOL MB 8           | 2        | 2        | L13000616   | LOKRING 4/2 NR Ms 00    | 5        | 1        |
| L20000201 LOKTOOL MB 10          | 1        | 1        | L13000618   | LOKRING 5/1,6 NR Ms 00  | 5        | 0        |
| L14000878 LOKPREP 65G            | 1        | 1        | L13000930   | LOKRING 5/1,8 NR Ms 00  | 5        | 1        |
| L14000002 SP-SL                  | 1        | 1        | L13000619   | LOKRING 5/2 NR Ms 00    | 5        | 5        |
| L13000775 LOKRING 5 NK MS SV 00  | 2        | 0        | L13000622   | LOKRING 5/4 NR Ms 00    | 4        | 1        |
| L13000776 LOKRING 6 NK MS SV 00  | 2        | 0        | L13001806   | LOKRING 5/4,5 NR Ms 00  | 2        | 0        |
| L13000766 LOKRING 6 VS MS 00     | 4        | 2        | L13000625   | LOKRING 6/2 NR Ms 00    | 4        | 1        |
| L14000143 LOKRING 6 NF MS SV NG  | 5        | 4        | L13000629   | LOKRING 6/4 NR Ms 00    | 3        | 1        |
| L14000128 LOKRING DR 10          | 3        | 3        | L13000632   | LOKRING 6/4,5 NR Ms 00  | 3        | 0        |
| L14002319 LOKRING DRS 11         | 3        | 2        | L13000630   | LOKRING 6/5 NR Ms 00    | 3        | 2        |
| L14000118 LOKRING DRS 15         | 1        | 1        | L13000634   | LOKRING 6,5/5 NR Ms 00  | 3        | 0        |
| L13000503 LOKRING 6 NK AL 00     | 3        | 0        | L13000635   | LOKRING 6,5/6 NR Ms 00  | 3        | 0        |
| L13005631 LOKRING 7 NK AL 00     | 2        | 0        | L13000640   | LOKRING 7/4 NR Ms 00    | 3        | 1        |
| L13005630 LOKRING 7,5 NK AL 00   | 2        | 0        | L13000643   | LOKRING 7/4,5 NR Ms 00  | 2        | 0        |
| L13005625 LOKRING 8 NK AL 00     | 2        | 1        | L13000638   | LOKRING 7/5 NR Ms 00    | 3        | 3        |
| L13002357 LOKRING 5/2 NR AL 00   | 3        | 0        | L13000639   | LOKRING 7/6 NR Ms 00    | 2        | 2        |
| L13005928 LOKRING 7/6 NR AL 00   | 2        | 1        | L13000646   | LOKRING 7,5/5 NR Ms 00  | 2        | 0        |
| L13005929 LOKRING 7,5/6 NR AL 00 | 2        | 0        | L13000645   | LOKRING 7,5/6 NR Ms 00  | 2        | 2        |
| L13005930 LOKRING 8/6 NR AL 00   | 2        | 0        | L13000653   | LOKRING 8/5 NR Ms 00    | 2        | 2        |
| L13005654 LOKRING 8/7 NR AL 00   | 2        | 1        | L13000654   | LOKRING 8/6 NR Ms 00    | 3        | 3        |
| L13005655 LOKRING 8/7,5 NR AL 00 | 2        | 1        | L13000657   | LOKRING 8/7 NR Ms 00    | 2        | 0        |
| L13005657 LOKRING 9/8 NR AL 00   | 2        | 0        | L13000658   | LOKRING 8/7,5 NR Ms 00  | 2        | 0        |
| L13000576 LOKRING 2 NK MS 00     | 5        | 1        | L13000674   | LOKRING 8,5/6 NR Ms 00  | 3        | 3        |
| L13000580 LOKRING 3 NK MS 00     | 5        | 0        | L13000678   | LOKRING 9/6 NR Ms 00    | 2        | 0        |
| L13000584 LOKRING 4 NK MS 00     | 1        | 1        | L13000683   | LOKRING 9,53/5 NR Ms 00 | 2        | 0        |
| L13000587 LOKRING 5 NK MS 00     | 4        | 3        | L13000684   | LOKRING 9,53/6 NR Ms 00 | 3        | 3        |
| L13000588 LOKRING 6 NK MS 00     | 5        | 5        | L13000686   | LOKRING 9,53/8 NR Ms 00 | 2        | 0        |
| L13000592 LOKRING 8 NK MS 00     | 2        | 1        |             |                         |          |          |

### **ASSEMBLY TOOLS**

#### **LOKTOOL HMRK-V**



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. Since the handles are offset on both sides, the HMRK-V is also suitable for flexible use during work in hard-to-reach areas.

### **ASSEMBLY TOOLS**

#### **LOKRING HAND ASSEMBLY TOOL**



- → Specially developed for the LOKRING assembly.
- Patented lever mechanism for assembly with minimum effort.
- Assembly jaws are easy to change for different tube diameters.
- Both handles bend for use in hard-to-reach areas.
- → Made in Germany!

IMPORTANT: Assembly jaws not included.

| Article no. | Article name   |
|-------------|----------------|
| L13003829   | LOKTOOL HMRK-V |
|             |                |

#### **ASSEMBLY JAWS FOR LOKRING CONNECTIONS TYPE 00**



- → Suitable for the LOKPRESS Mini, LOKTOOL HMRK-V and HMRK-L hand assembly
- Suitable for double-sided assembly of LOKRING type 00 connections.

|              |             | [ mm  " ]               |
|--------------|-------------|-------------------------|
| L20000200 LO | KTOOL MB 8  | 1.6 - 8.5   1/16 - 5/16 |
| L20000201 LO | KTOOL MB 10 | 9 - 11   3/8            |
| L20000202 LO | KTOOL MB 12 | 12 - 13   1/2           |

#### **PRE-ASSEMBLY FITTINGS**



For the single sided pre-assembly of a LOKRING connector type 00.

| OKRING connector size | Article name  | Article no. |
|-----------------------|---------------|-------------|
| 3                     | LOKTOOL VME 3 | L13000982   |
| 5                     | LOKTOOL VME 5 | L13000871   |
| 6                     | LOKTOOL VME 6 | L13000872   |
| 7 - 7,5               | LOKTOOL VME 7 | L13000873   |
| 8                     | LOKTOOL VME 8 | L13000875   |

### **CORDLESS ASSEMBLY TOOL**

#### **CORDLESS ASSEMBLY TOOL SET**







- ⊕ Compact design for narrow space operation
- ⊕ Automatic stop after assembly for battery power saving
- ⊕ LED for work area illumination
- → Made in Germany

#### For LOKRING connectors:

- (1/16" to 3/8")
- Type Ms 50 from 6 to 12.7 mm (1/4" to 1/2")
- Type Al 50 from 6 to 16 mm (1/4" to 5/8")

Article no. Article name

LOKPRESS Mini Set-C-EU incl. plastic case L14004431

#### Technical data

| Dimensions incl. rechargeable battery | / (H x W x L): approx. 111 x 71 x 393 mm |
|---------------------------------------|--|
| Operating temperature:                | - 10 °C up to 40 °C (14 °F up to 104 °F) |
| Battery charger:                      | 100 - 240 V   50 - 60 Hz   35 W          |
| Rechargeable battery:                 | 10.8 V / 2.5 Ah Li-lon                   |
| Recharge time:                        | 40 min.                                  |
| Number of pressings:                  | Minimum 100                              |
| Weight incl. rechargeable battery:    | approx. 2.2 kg (4.85 lb)                 |

#### Scope of supply

| Article no. | Article name        | Description        |
|-------------|---------------------|--------------------|
| L14004393   | LOKPRESS Mini LB    | Li-Ion battery     |
| L14004394   | LOKPRESS Mini BC-EU | Battery charger EU |





NOTE: The LOKPRESS Mini comes without assembly jaws.

#### LONGER ASSEMBLY JAWS FOR LOKRING® CONNECTORS TYPE 00



- → Approx. 30 mm longer than LOKTOOL MB 8
- ⊕ Easier assemblies in cramped spaces
- → Suitable for LOKPRESS Mini\*
- igoplus Suitable for double-sided assembly of LOKRING connectors type 00

| Article no. | Article name   | For tube outer-ø<br>[ mm  " ] |
|-------------|----------------|-------------------------------|
| L20001398   | LOKTOOL MB 8 L | 1.6 - 8.5   1/16 - 5/16       |

\*Not suitable for the hand assembly tools LOKTOOL HMRK-V and HMRK-L.

#### **LOKPRESS MINI LI-ION BATTERY**



- → Rechargeable Li-Ion battery 10.8 V
- → 4 LEDs indicate:
  - · Battery charge level
  - Auto-test
  - · Maintenance needed
  - · Overheat safety stop

| Article no. | Article name     | Description    |
|-------------|------------------|----------------|
| L14004393   | LOKPRESS Mini LB | Li-lon battery |
|             |                  |                |

#### **LOKPRESS MINI BATTERY CHARGER**



- igoplus Info panel for battery charging status check

| Article no. | Article name        | Description        |
|-------------|---------------------|--------------------|
| L14004394   | LOKPRESS Mini BC-EU | Battery charger EU |

#### **PLASTIC CASE**



Robust plastic case for easy transportation of the LOKPRESS Mini tool set

| Article no. | Article name     | Description  |
|-------------|------------------|--------------|
| L14004398   | LOKPRESS Mini PC | Plastic case |

### LOKPREP® APPLICATION

#### **LOKPREP 65G**



#### **POSSIBILITY A**

Move the nozzle 360° around the tube to distribute the LOKPREP evenly.



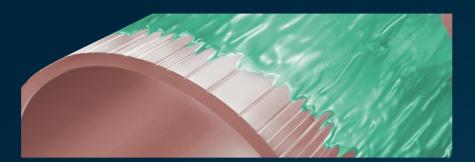
#### **POSSIBILITY B**

Rotate the moistened tube through 360° inside the joint.



#### **POSSIBILITY C**

Rotate the joint through 360° around the end of the tube.



Metal tubes can have longitudinal grooves on the surface from production. These production-related faults can be compensated quite easily by moistening 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 sealant which hardens under oxygen exclusion and in contact with free metal ions.

### **LOKPREP**®



#### **ANAEROBIC SEALANT**

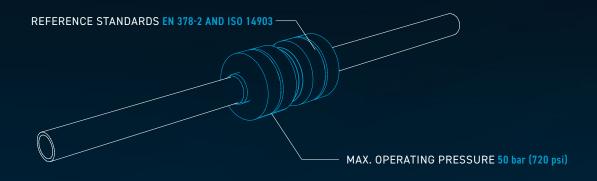


- igoplus Specially developed for the LOKRING assembly.
- $\ensuremath{\ens$
- $\ensuremath{\ensuremath}\amb}\amb}\amb}}}}}}}}}}}}}}$ tube surface.
- igoplus Ensures that every LOKRING connection is hermetically sealed.

| Article no. | Article name | Content<br>[ml] |
|-------------|--------------|-----------------|
| L14000878   | LOKPREP 65G  | 15              |

# LOKRING® TUBE CONNECTIONS

#### **LOKRING BRASS CONNECTORS**



- **⊖** CORROSION TEST ACCORDING TO ISO 9227 NSS
- TEMPERATURE CHANGE CYCLE TEST
- TENSILE TEST ACCORDING TO DIN EN 10 002
- **→** ALTERNATING PRESSURE TEST WITH 250,000 CYCLES
- BURST PRESSURE TEST UP TO 200 bar (2,900 psi)
- JOINS: COPPER TO COPPER / COPPER TO STEEL / STEEL TO STEEL

### **STRAIGHT BRASS CONNECTORS**



#### STRAIGHT BRASS CONNECTORS TYPE 00

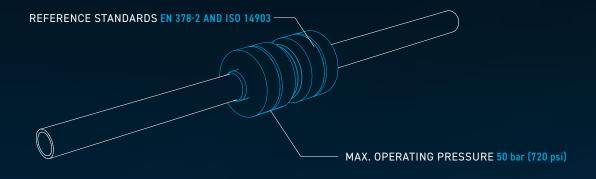


For connecting copper and/or steel tubes with identical tube outer diameters.

| Article no. | Article name          | For tube | e outer-ø<br>  " ] |
|-------------|-----------------------|----------|--------------------|
| L13000575   | LOKRING 1,6 NK Ms 00  | 1.6      | 1/16               |
| L13000932   | LOKRING 1,8 NK Ms 00  | 1.8      | -                  |
| L13000576   | LOKRING 2 NK Ms 00    | 2        | 5/64               |
| L13000578   | LOKRING 2,2 NK Ms 00  | 2.2      | -                  |
| L13000579   | LOKRING 2,5 NK Ms 00  | 2.5      | 3/32               |
| L13000580   | LOKRING 3 NK Ms 00    | 3        | -                  |
| L13000582   | LOKRING 3,2 NK Ms 00  | 3.2      | -                  |
| L13000583   | LOKRING 3,5 NK Ms 00  | 3.5      | -                  |
| L13000584   | LOKRING 4 NK Ms 00    | 4        | 5/32               |
| L13000587   | LOKRING 5 NK Ms 00    | 5        | 3/16               |
| L13000588   | LOKRING 6 NK Ms 00    | 6        | 1/4                |
| L13000589   | LOKRING 6,5 NK Ms 00  | 6.5      | -                  |
| L13000590   | LOKRING 7 NK Ms 00    | 7        | -                  |
| L13000591   | LOKRING 7,5 NK Ms 00  | 7.5      | -                  |
| L13000592   | LOKRING 8 NK Ms 00    | 8        | 5/16               |
| L13000595   | LOKRING 9,53 NK Ms 00 | 9.53     | 3/8                |
| L13000596   | LOKRING 10 NK Ms 00   | 10       | -                  |
|             |                       |          |                    |

# LOKRING® TUBE CONNECTIONS

#### LOKRING ALUMINIUM CONNECTORS



- **⊖** CORROSION TEST ACCORDING TO ISO 9227 NSS
- TEMPERATURE CHANGE CYCLE TEST
- TENSILE TEST ACCORDING TO DIN EN 10 002
- **→** ALTERNATING PRESSURE TEST WITH 250,000 CYCLES
- BURST PRESSURE TEST UP TO 200 bar (2900 psi)
- JOINS: ALUMINIUM TO ALUMINIUM / ALUMINIUM TO COPPER / ALUMINIUM TO STEEL

### **STRAIGHT ALUMINIUM CONNECTORS**



#### STRAIGHT ALUMINIUM CONNECTORS TYPE 00



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

| Article no. | Article name         | For tube outer-ø<br>[ mm   " ] |
|-------------|----------------------|--------------------------------|
| L13005354   | LOKRING 1,8 NK Al 00 | 1.8   -                        |
| L13000498   | LOKRING 2 NK AL 00   | 2   5/64                       |
| L13000502   | LOKRING 5 NK AL 00   | 5   3/16                       |
| L13000503   | LOKRING 6 NK AL 00   | 6   1/4                        |
| L13005631   | LOKRING 7 NK AL 00   | 7   -                          |
| L13005630   | LOKRING 7,5 NK Al 00 | 7.5   -                        |
| L13005625   | LOKRING 8 NK AL 00   | 8   5/16                       |

### **STRAIGHT BRASS REDUCING CONNECTORS**

#### STRAIGHT BRASS REDUCING CONNECTORS TYPE 00



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

| Article no. | Article name           | Outer- | ø tube 1<br>  "] |               | Outer-<br>[ mm | ø tube 2<br>  "] |
|-------------|------------------------|--------|------------------|---------------|----------------|------------------|
| L13001157   | LOKRING 3/1,8 NR Ms 00 | 3      | -                | $\rightarrow$ | 1.8            | -                |
| L13000612   | LOKRING 3/2 NR Ms 00   | 3      | -                | $\rightarrow$ | 2              | 5/64             |
| L13000931   | LOKRING 4/1,8 NR Ms 00 | 4      | 5/32             | $\rightarrow$ | 1.8            | -                |
| L13000616   | LOKRING 4/2 NR Ms 00   | 4      | 5/32             | $\rightarrow$ | 2              | 5/64             |
| L13000618   | LOKRING 5/1,6 NR Ms 00 | 5      | 3/16             | $\rightarrow$ | 1.6            | 1/16             |
| L13000930   | LOKRING 5/1,8 NR Ms 00 | 5      | 3/16             | $\rightarrow$ | 1.8            | -                |
| L13000619   | LOKRING 5/2 NR Ms 00   | 5      | 3/16             | $\rightarrow$ | 2              | 5/64             |
| L13000623   | LOKRING 5/2,2 NR Ms 00 | 5      | 3/16             | $\rightarrow$ | 2.2            | -                |
| L13000624   | LOKRING 5/2,5 NR Ms 00 | 5      | 3/16             | $\rightarrow$ | 2.5            | 3/32             |
| L13000620   | LOKRING 5/3 NR Ms 00   | 5      | 3/16             | $\rightarrow$ | 3              | -                |
| L13000621   | LOKRING 5/3,5 NR Ms 00 | 5      | 3/16             | $\rightarrow$ | 3.5            | -                |
| L13000622   | LOKRING 5/4 NR Ms 00   | 5      | 3/16             | $\rightarrow$ | 4              | 5/32             |
| L13001806   | LOKRING 5/4,5 NR Ms 00 | 5      | 3/16             | $\rightarrow$ | 4.5            | -                |
| L13002334   | LOKRING 6/1,8 NR Ms 00 | 6      | 1/4              | $\rightarrow$ | 1.8            | -                |
| L13000625   | LOKRING 6/2 NR Ms 00   | 6      | 1/4              | $\rightarrow$ | 2              | 5/64             |
| L13000626   | LOKRING 6/2,2 NR Ms 00 | 6      | 1/4              | $\rightarrow$ | 2.2            | -                |
| L13000627   | LOKRING 6/2,5 NR Ms 00 | 6      | 1/4              | $\rightarrow$ | 2.5            | 3/32             |
| L13000628   | LOKRING 6/3 NR Ms 00   | 6      | 1/4              | $\rightarrow$ | 3              | -                |
| L13000631   | LOKRING 6/3,2 NR Ms 00 | 6      | 1/4              | $\rightarrow$ | 3.2            | -                |
| L13000629   | LOKRING 6/4 NR Ms 00   | 6      | 1/4              | $\rightarrow$ | 4              | 5/32             |
| L13000632   | LOKRING 6/4,5 NR Ms 00 | 6      | 1/4              | $\rightarrow$ | 4.5            | -                |
| L13000630   | LOKRING 6/5 NR Ms 00   | 6      | 1/4              | $\rightarrow$ | 5              | 3/16             |
| L13000634   | LOKRING 6,5/5 NR Ms 00 | 6.5    | -                | $\rightarrow$ | 5              | 3/16             |
| L13000635   | LOKRING 6,5/6 NR Ms 00 | 6.5    | -                | $\rightarrow$ | 6              | 1/4              |
| L13000640   | LOKRING 7/4 NR Ms 00   | 7      | -                | $\rightarrow$ | 4              | 5/32             |
| L13000643   | LOKRING 7/4,5 NR Ms 00 | 7      | -                | $\rightarrow$ | 4.5            | -                |

| Article no. | Article name            | Outer-g |      |               | Outer-<br>[ mm | ø tube 2 |
|-------------|-------------------------|---------|------|---------------|----------------|----------|
| L13000638   | LOKRING 7/5 NR Ms 00    | 7       | -    | $\rightarrow$ | 5              | 3/16     |
| L13000639   | LOKRING 7/6 NR Ms 00    | 7       | -    | $\rightarrow$ | 6              | 1/4      |
| L13000646   | LOKRING 7,5/5 NR Ms 00  | 7.5     | -    | $\rightarrow$ | 5              | 3/16     |
| L13000645   | LOKRING 7,5/6 NR Ms 00  | 7.5     | -    | $\rightarrow$ | 6              | 1/4      |
| L13000651   | LOKRING 8/2 NR Ms 00    | 8       | 5/16 | $\rightarrow$ | 2              | 5/64     |
| L13000652   | LOKRING 8/4 NR Ms 00    | 8       | 5/16 | $\rightarrow$ | 4              | 5/32     |
| L13000653   | LOKRING 8/5 NR Ms 00    | 8       | 5/16 | $\rightarrow$ | 5              | 3/16     |
| L13000654   | LOKRING 8/6 NR Ms 00    | 8       | 5/16 | $\rightarrow$ | 6              | 1/4      |
| L13000656   | LOKRING 8/6,5 NR Ms 00  | 8       | 5/16 | $\rightarrow$ | 6.5            | -        |
| L13000657   | LOKRING 8/7 NR Ms 00    | 8       | 5/16 | $\rightarrow$ | 7              | -        |
| L13000658   | LOKRING 8/7,5 NR Ms 00  | 8       | 5/16 | $\rightarrow$ | 7.5            | -        |
| L13000673   | LOKRING 8,5/5 NR Ms 00  | 8.5     | -    | $\rightarrow$ | 5              | 3/16     |
| L13000674   | LOKRING 8,5/6 NR Ms 00  | 8.5     | -    | $\rightarrow$ | 6              | 1/4      |
| L13000675   | LOKRING 8,5/8 NR Ms 00  | 8.5     | -    | $\rightarrow$ | 8              | 5/16     |
| L13000678   | LOKRING 9/6 NR Ms 00    | 9       | -    | $\rightarrow$ | 6              | 1/4      |
| L13000681   | LOKRING 9/7 NR Ms 00    | 9       | -    | $\rightarrow$ | 7              | -        |
| L13000679   | LOKRING 9/8 NR Ms 00    | 9       | -    | $\rightarrow$ | 8              | 5/16     |
| L13000683   | LOKRING 9,53/5 NR Ms 00 | 9.53    | 3/8  | $\rightarrow$ | 5              | 3/16     |
| L13000684   | LOKRING 9,53/6 NR Ms 00 | 9.53    | 3/8  | $\rightarrow$ | 6              | 1/4      |
| L13000691   | LOKRING 9,53/7 NR Ms 00 | 9.53    | 3/8  | $\rightarrow$ | 7              | -        |
| L13000686   | LOKRING 9,53/8 NR Ms 00 | 9.53    | 3/8  | $\rightarrow$ | 8              | 5/16     |
| L13000695   | LOKRING 10/6 NR Ms 00   | 10      | -    | $\rightarrow$ | 6              | 1/4      |
| L13000696   | LOKRING 10/8 NR Ms 00   | 10      | -    | $\rightarrow$ | 8              | 5/16     |
| L13000705   | LOKRING 11/6 NR Ms 00   | 11      | -    | $\rightarrow$ | 6              | 1/4      |
| L13000706   | LOKRING 11/8 NR Ms 00   | 11      | -    | $\rightarrow$ | 8              | 5/16     |

### STRAIGHT ALUMINIUM **REDUCING CONNECTORS**

#### STRAIGHT ALUMINIUM REDUCING CONNECTORS TYPE 00



For connecting aluminium tubes and for connecting aluminium tubes to copper or steel tubes with different tube outer

| Article no. | Article name           | Outer-ø tube 1<br>[ mm   " ] |               |     | ø tube 2<br>  "] |
|-------------|------------------------|------------------------------|---------------|-----|------------------|
| L13001785   | LOKRING 4/2 NR AL 00   | 4   5/32                     | $\rightarrow$ | 2   | 5/64             |
| L13002432   | LOKRING 5/1,8 NR AL 00 | 5   3/16                     | $\rightarrow$ | 1.8 | -                |
| L13002357   | LOKRING 5/2 NR AL 00   | 5   3/16                     | $\rightarrow$ | 2   | 5/64             |
| L13000964   | LOKRING 6/2 NR AL 00   | 6   1/4                      | $\rightarrow$ | 2   | 5/64             |
| L13000528   | LOKRING 6/5 NR AL 00   | 6   1/4                      | $\rightarrow$ | 5   | 3/16             |
| L13005928   | LOKRING 7/6 NR AL 00   | 7   -                        | $\rightarrow$ | 6   | 1/4              |
| L13005929   | LOKRING 7,5/6 NR AL 00 | 7.5   -                      | $\rightarrow$ | 6   | 1/4              |

| Article no. | Article name           | Outer-ø t |      |               | Outer-o | ø tube 2<br>  "] |
|-------------|------------------------|-----------|------|---------------|---------|------------------|
| L13005650   | LOKRING 8/2 NR AL 00   | 8         | 5/16 | $\rightarrow$ | 2       | 5/64             |
| L13005651   | LOKRING 8/3 NR AL 00   | 8         | 5/16 | $\rightarrow$ | 3       | -                |
| L13005652   | LOKRING 8/5 NR AL 00   | 8         | 5/16 | $\rightarrow$ | 5       | 3/16             |
| L13005930   | LOKRING 8/6 NR AL 00   | 8         | 5/16 | $\rightarrow$ | 6       | 1/4              |
| L13005654   | LOKRING 8/7 NR AL 00   | 8         | 5/16 | $\rightarrow$ | 7       | -                |
| L13005655   | LOKRING 8/7,5 NR AL 00 | 8         | 5/16 | $\rightarrow$ | 7.5     | -                |
| L13005657   | LOKRING 9/8 NR AL 00   | 9         | _    | $\rightarrow$ | 8       | 5/16             |

### T-REDUCING CONNECTORS

#### **BRASS T-REDUCING CONNECTORS TYPE 00**



- → For connecting copper and/or steel tubes with different tube outer diameters.
- Allows insertion of a capillary tube into the suction line.

IMPORTANT: For making the assembly, the LOKTOOL NTR-8 is required.

| Article no. | Article name              | Outer-ø tube 1<br>[ mm   " ] | Outer-ø tube 2<br>[ mm   " ] | Outer-ø tube 3<br>[ mm   " ] |
|-------------|---------------------------|------------------------------|------------------------------|------------------------------|
| L13000748   | LOKRING 7/6/2 NTR Ms 00   | 7   -                        | 6   1/4                      | 2   5/64                     |
| L13000750   | LOKRING 7,5/6/2 NTR Ms 00 | 7.5   -                      | 6   1/4                      | 2   5/64                     |
| L13000751   | LOKRING 8/6/2 NTR Ms 00   | 8   5/16                     | 6   1/4                      | 2   5/64                     |
|             |                           |                              |                              |                              |

#### **ASSEMBLY FITTING**



- → For assembling a T-branch.
- → Suitable for LOKRING T-connectors or T-reducing connectors type 00.
- → For assembly, the insert is simply inserted into the assembly jaw.

Article no. Article name L13000864 LOKTOOL NTR-8

### **CONNECTORS WITH SCHRADER VALVE AND STOPPERS**

#### **BRASS CONNECTORS TYPE 00 WITH SCHRADER VALVE**



- → For connecting copper and/or steel tubes with identical tube outer diameters.
- → With 1/4" SAE schrader valve port connection.

| Article no. | Article name             | For tube outer-ø<br>[ mm   " ] |
|-------------|--------------------------|--------------------------------|
| L13000775   | LOKRING 5 NK Ms SV 00    | 5   3/16                       |
| L13000776   | LOKRING 6 NK Ms SV 00    | 6   1/4                        |
| L13000778   | LOKRING 8 NK Ms SV 00    | 8   5/16                       |
| L13000779   | LOKRING 9,53 NK Ms SV 00 | 9.53   3/8                     |

#### **BRASS STOPPERS TYPE 00**



For hermetically sealing tube ends.

| Article no. | Article name          | For tube outer-ø<br>[ mm   " ] |
|-------------|-----------------------|--------------------------------|
| L13000765   | LOKRING 5 VS Ms 00    | 5   3/16                       |
| L13000766   | LOKRING 6 VS Ms 00    | 6   1/4                        |
| L13000767   | LOKRING 7 VS Ms 00    | 7   -                          |
| L13000769   | LOKRING 8 VS Ms 00    | 8   5/16                       |
| L13000771   | LOKRING 9,53 VS Ms 00 | 9.53   3/8                     |
|             |                       |                                |

#### STRAIGHT STOPPERS TYPE 00 WITH SCHRADER VALVE CONNECTION



- → For easily adding a service port to a refrigerant circuit
- → Suitable for R290 and R600a
- 1/4" SAE connection
- Reference standards: EN 378-2 and ISO 14903
- Approvals: TÜV

|                    | [ mm   " ] |
|--------------------|------------|
| RING 6 VS Ms SV 00 | 6   1/4    |
| RING 8 VS Ms SV 00 | 8   5/16   |
|                    |            |

#### 90°-STOPPERS TYPE 00 WITH SCHRADER VALVE CONNECTION

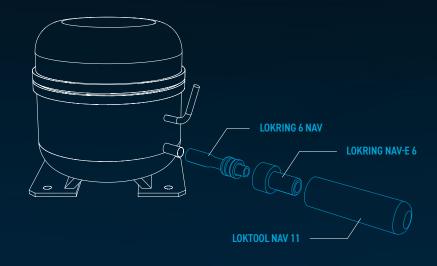


- For easily adding a service port to a refrigerant circuit
- → 90° elbow ensures easy connection of a service hose even in tight installation
- Suitable for R290 and R600a
- → 1/4" SAE connection
- Reference standards: EN 378-2 and ISO 14903
- Approvals: TÜV

| /4   |
|------|
| 5/16 |
|      |

# **NAV CONNECTIONS**

#### **EXAMPLE OF USE**



NAV connections allow the use of LOKRING on the short tube ends of a compressor.

### **NAV CONNECTIONS**

#### **NAV CONNECTIONS**



- Allows the use of LOKRING on the short tube ends of a compressor.
- Can only be used in conjunction with the NAV assembly tool and the corresponding NAV assembly insert.

| Article no. | Article name     | For tube outer-ø<br>[ mm   " ] |
|-------------|------------------|--------------------------------|
| L13000817   | LOKRING 6 NAV    | 6.35   1/4                     |
| L13000818   | LOKRING 7 NAV    | 7   -                          |
| L13000820   | LOKRING 8 NAV    | 8   -                          |
| L13000926   | LOKRING 9,53 NAV | 9.53   3/8                     |

#### **NAV ASSEMBLY TOOL**



Basic tool for assembling LOKRING NAV

Article no. Article name L13000919 LOKTOOL NAV 11

#### **NAV ASSEMBLY FITTINGS**

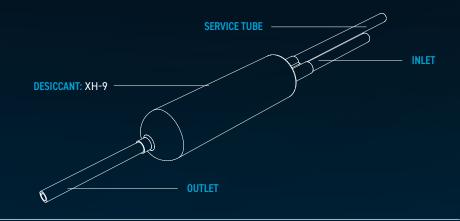


Assembly insert for the NAV 11 assembly tool for assembling LOKRING NAV connections.

| Article no. | Article name       | For NAV connection sizes |
|-------------|--------------------|--------------------------|
| L13000914   | LOKRING NAV-E 6    | 6                        |
| L13000915   | LOKRING NAV-E 8/7  | 7 - 8                    |
| L13000917   | LOKRING NAV-E 9,53 | 9.53                     |

# FILTER DRYERS

#### **FILTER DRYER WITH SERVICE TUBE**



Protects the refrigeration circuit against moisture, acids and dirt particles.

### **FILTER DRYERS**

#### **FILTER DRYERS**



- Protects the refrigeration circuit against moisture, acids and dirt particles.
- → Desiccant: XH-9

| Article no. Article na | Tube oute me (inlet) [ mm ] | r-ø Tube outer-ø<br>(outlet)<br>[mm] | Drying<br>agent<br>[ g ] | Total length [mm] | Outer-ø<br>(dryer)<br>[mm] |
|------------------------|-----------------------------|--------------------------------------|--------------------------|-------------------|----------------------------|
| L14000128 LOKRING      | DR 10 5                     | 5                                    | 10                       | 200               | 19                         |
| L14000377 LOKRING      | DR 20 5                     | 5                                    | 20                       | 218               | 24                         |

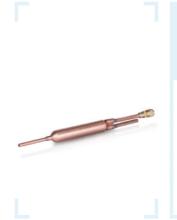
#### FILTER DRYER WITH SERVICE TUBE



- Protects the refrigeration circuit against moisture, acids and dirt particles.
- Desiccant: XH-9
- → Service tube outer-ø: 6 mm

| Article no. | Article name     | Tube outer-ø<br>(inlet)<br>[mm] | Tube outer-ø<br>(outlet)<br>[mm] | Drying<br>agent<br>[ g ] | Total length | Outer-ø<br>(dryer)<br>[ mm ] |
|-------------|------------------|---------------------------------|----------------------------------|--------------------------|--------------|------------------------------|
| L14000636   | LOKRING DR 10-2E | 5                               | 5                                | 10                       | 245          | 19                           |
| L14000611   | LOKRING DR 15-2E | 6                               | 5                                | 15                       | 255          | 25                           |

#### FILTER DRYER WITH SERVICE TUBE AND SCHRADER VALVE

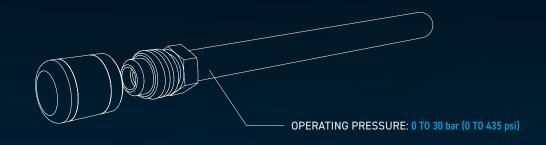


- Protects the refrigeration circuit against moisture, acids and dirt particles.
- Desiccant: XH-9
- → Service tube outer-ø: 6 mm

| Article no. | Article name   | Tube outer-ø<br>(inlet)<br>[mm] | Tube outer-ø<br>(outlet)<br>[mm] | Drying<br>agent<br>[ g ] | Total length [mm] | Outer-ø<br>(dryer)<br>[mm] |
|-------------|----------------|---------------------------------|----------------------------------|--------------------------|-------------------|----------------------------|
| L14002319   | LOKRING DRS 11 | 5                               | 5                                | 11                       | 245               | 19                         |
| L14000118   | LOKRING DRS 15 | 6                               | 5                                | 15                       | 230               | 25                         |

### **CHARGING TUBES**

#### **CHARGING TUBES WITH SCHRADER VALVE**



Copper charging tube with 1/4" SAE schrader valve connection for loss-free charging and sealing of refrigeration circuits.

### **CHARGING TUBES**

#### **CHARGING TUBES WITH SCHRADER VALVE**



- ⊕ Copper charging tube with 1/4" SAE schrader valve connection for loss-free charging and sealing of refrigeration circuits.
- igoplus Suitable for flammable refrigerants.

| Article no. A                   | ticle name           | Total length<br>[mm] |
|---------------------------------|----------------------|----------------------|
| L14000143 L0                    | KRING 6 NF Ms SV NG  | ≈100                 |
| L14000139 L0                    | OKRING 6 NF Ms SV 01 | ≈330                 |
|                                 |                      |                      |
| Technical Data Tube outer-ø:    |                      | 6 mm                 |
|                                 |                      | 6 mm<br>0.7 mm       |
| Tube outer-ø:                   |                      |                      |
| Tube outer-ø:<br>Wall thickness | sure:                | 0.7 mm               |

#### **CHARGING TUBES**

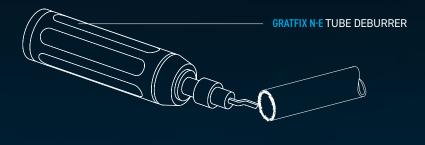


- ⊕ Copper charging tube.
- ⊕ Can be used with LOKRING 6 VS Ms 00 to seal refrigeration circuits.

| L14000609                  | LOKRING 6 NF Ms 00 | ≈150 |
|----------------------------|--------------------|------|
| Technical D                | ata                |      |
| Tube outer-                | -ø:                | 6 mm |
| Tube outer-<br>Wall thickn |                    | 6 mm |
|                            | ess:               |      |

### **ACCESSORIES**

#### **TUBE DEBURRER**



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

### **ACCESSORIES**

#### **SANDPAPER**



- → For cleaning tube ends.
- → Grain: 120
- → Dimensions: 230 mm x 280 mm
- Highest quality from 3M.

Article no. Article name L14000002 SP-SL

#### **ABRASIVE MAT**



- For cleaning tube ends without scratching.
- Suitable for all surfaces.
- Solvent-resistant.
- → Dimensions: 158 mm x 224 mm
- Highest quality from 3M.

Article name Article no. L14002211 AM-SV

#### **COMPACT TUBE CUTTER**



Diameter range: 3 to 16 mm (1/8" to 5/8")

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

#### **CAPILLARY TUBE CUTTING PLIERS**



- For clean cutting of capillary tubes.
- No reduction of inner diameter.
- Suitable for all capillary tube diameters.

Article no. Article name L14000005 CTP-1

### **ACCESSORIES**

#### **TUBE CUTTING PLIERS**



- For cutting aluminium, copper and steel tubes.
- Can be used on wall thicknesses
- → Diameter range: 4 to 12.7 mm (5/32" to 1/2")
- → A 120° rotation is sufficient to make the cut.
- Particularly useful in tight assembly
- Minimizes the loss of assembly length of the tube to be separated.

| Article no. | Article name | Description         |
|-------------|--------------|---------------------|
| L14000166   | LRSZ         | Tube cutting pliers |
| L13001304   | LRSM         | Cutting blade       |

#### **PINCH-OFF TOOL**



- For pinching off charging tubes.
- → Diameter range: up to 10 mm (3/8")

Article no. Article name L14000201 ABZ-008

#### PIERCING PLIERS TOOL SET



- $\ensuremath{\ens$
- For recovering refrigerant and conducting pressure tests.
- igotharpoonup Suitable for dryers or copper tubes.
- → For tube outer diameters of 6, 8 and 10 mm (1/4", 5/16" and 3/8").
- → Hose connection: 1/4" SAE



#### **PIERCING PLIERS**



- $\ensuremath{\ens$ but still pressurised refrigeration circuits.
- igoplus Suitable for copper tubes.
- $\Theta$  For tube outer diameter of 6 mm (1/4").
- → Hose connection: 1/4" SAE

| Article no. | Article name | Description     |
|-------------|--------------|-----------------|
| L13004882   | EZ-LC        | Piercing pliers |
| L14004422   | EZ-LC-E      | Piercing pin    |
| L14003019   | EZ-LC-D      | Spare gasket    |

#### **TUBE PIERCING VALVE**



- $\ensuremath{\ens$
- pressure tests.
- → Hose connection: 1/4" SAE

| Article no. | Article name | For tube outer-ø                      |
|-------------|--------------|---------------------------------------|
| L14001027   | BPV31        | 1/4", 5/16", 3/8" (6 mm, 8 mm, 10 mm) |
| L14001028   | BPV21        | 1/2", 5/8" (12.7 mm, 16 mm)           |

#### **TUBE DEBURRER**

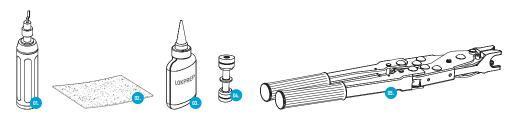


For quick and clean deburring of tubes, edges and steel plates.

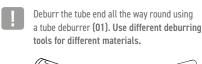
| Article no. | Article name | Description       |
|-------------|--------------|-------------------|
| L14001362   | Gratfix N-E  | Tube deburrer     |
| L14001363   | N-E100       | Replacement blade |

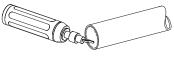
### LOKRING® ASSEMBLY TYPE 00

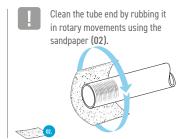


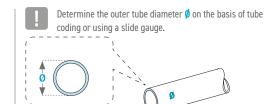


01. TUBE DEBURRER 02. SANDPAPER 03. LOKPREP 65G 04. LOKRING CONNECTOR 05. HAND ASSEMBLY TOOL WITH ASSEMBLY JAWS MB

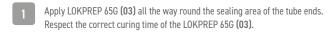


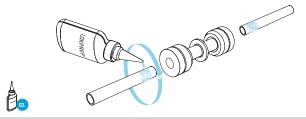




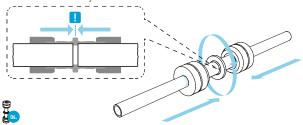




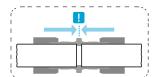


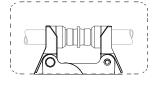


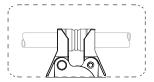


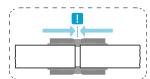


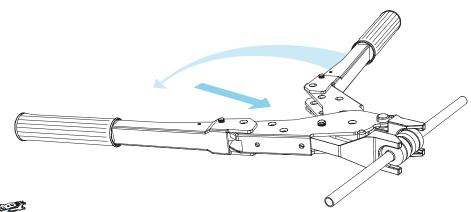














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#### **VALIDITY CLAUSE**

The LOKRING® tube connection technology represents a proven method of producing hermetically sealed metal-to-metal tube connections. The LOKRING® tube connections are mainly used in the refrigeration and air conditioning industries. The use of LOKRING® tube connection technology in other fields is to be discussed with VULKAN. VULKAN as the supplier is responsible for the qualitative delivery of the tube connections and tools which are ordered from this catalogue.

The purchaser is responsible for the use of the LOKRING® tube connections and tools as directed. The assembly has to be done accordingly to the instructions and exclusively with original LOKRING® parts. The present Refrigeration Appliances catalogue shall replace all previous editions, any previous printings shall no longer be valid. The data contained in this catalogue refers to the valid state of affairs in time of the copy deadline. Any changes due to technical progress are reserved.

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