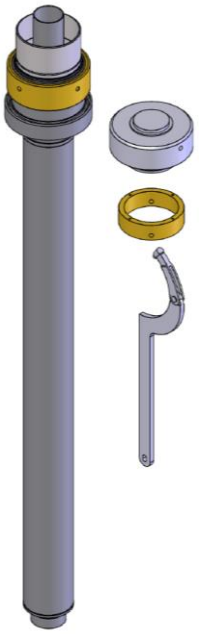
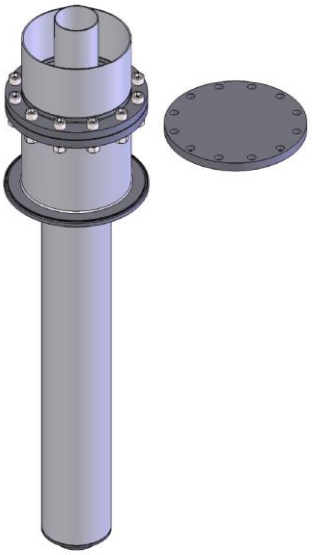
Cryogenic transfer line couplings

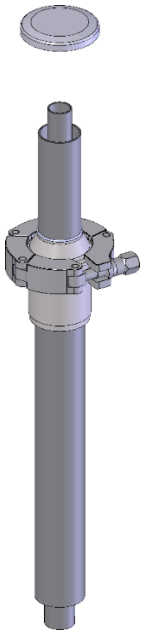
TLK-S
DN6 ... DN50



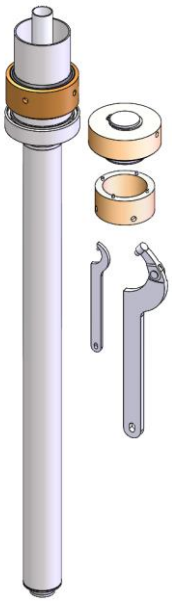
TLK-S
DN65/DN80



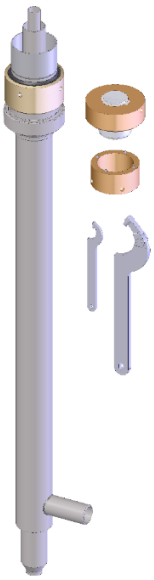
TLK-S LN2
DN15 ... DN25



TLK-SH
DN6 … DN50



TLK-MS
div.



Installation, operation and maintenance manual

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1 Introduction

The purpose of this manual is to get familiar with design, function and maintenance of WEKA cryogenic transfer line couplings. Please read the instructions carefully for a secure and long life time of the products.

Read these instructions carefully before installing the couplings and discuss any uncertainties with the manufacturer prior to performing your action.

The following pages contain important information and explanations which ensure optimal function of the products.

All couplings leave our factory in a flawless condition and successfully tested. To maintain this condition, couplings may only be installed and operated as prescribed by the manufacturer.

For safe operation of couplings a proper transport and storage as well as professional assembly and especially a high degree of cleanliness must be insured.

Assembly and operation of couplings may only be carried out by qualified personnel.

All work may only be carried out on non-pressurised facilities and all electrical current must be switched off. Should urgent work or actions in emergency have to be carried out on facilities in operation, any manipulation may only be carried out after explicit agreement with the manufacturer or/and trained operator.

When doing work on couplings use only properly fitting tools. The appropriate tools are listed in the detailed instructions of each respective work step.

2 Cleanliness

All couplings have been assembled and tested in dust-free environment and testing areas. Furthermore prior to delivery couplings are properly cleaned and fulfil the standards according to *ISO 23208:2019+A1:2020 Cryogenic vessels - Cleanliness for cryogenic service*. All components in direct contact with the media are free of oil, grease as well as other impurities.

Each coupling is packed in a plastic bag, either with the male part mounted in the female part or both male and female part in a separate plastic bag. To preserve cleanliness of the components, leave them in the plastic bag as long as you do not use them and store the components carefully in a clean environment.

3 Disposal of the packaging

Protect the environment and dispose of the packaging material properly or recycle it. Observe the applicable local disposal regulations.

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4 Safety advices

The couplings have been exclusively designed for the use according to the specification in the datasheet. Any other than the specified use is not allowed. The customer is liable for all damages which are the result of an inappropriate use. Unauthorized changes as well as the use of non original WEKA spare parts exclude any responsibility of WEKA for the caused damages. Any change applied to the assembly is done at the user's own risk.
Installation or disassembly operations may only be done by qualified personnel and must be done following strictly the safety instructions. Before disassembling a coupling make sure the system is depressurized!

5 Qualified personnel

The steps described in this manual may only be carried out by persons familiar with the product. If you feel unsure, please contact the manufacturer for the corresponding instructions or training.

6 Marking

The cryogenic transfer lines couplings have the following marking (marked on the male coupling body).

Description	Example
WEKA-Logo	
Fabrication-No Tag-No	224054-0010-01 TLK-01
Manufacture year	2022
Material	316/316L
Equipment type	TLK-S
DNxx/PNyy	DN15/PN25
PED Marking	PED-Art.4.3

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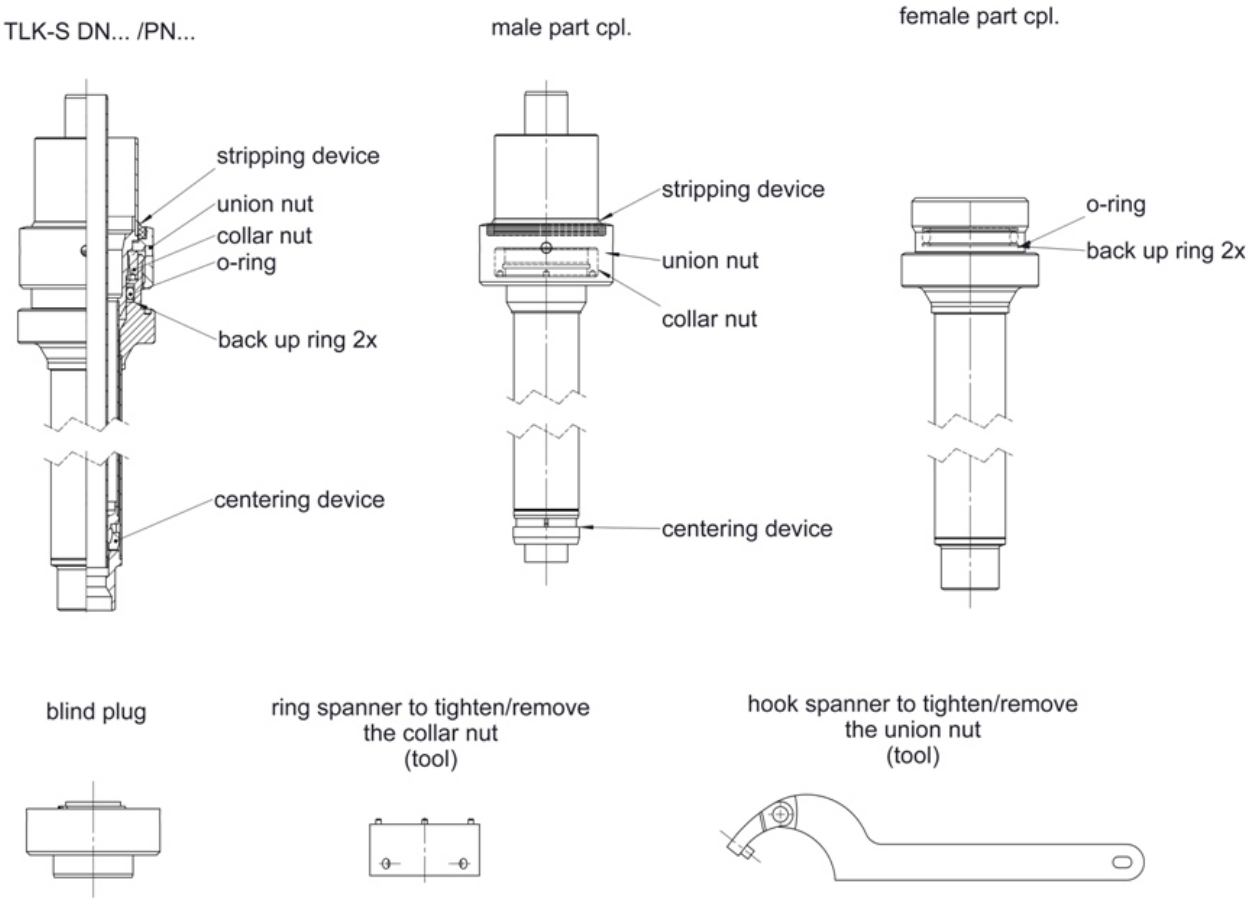
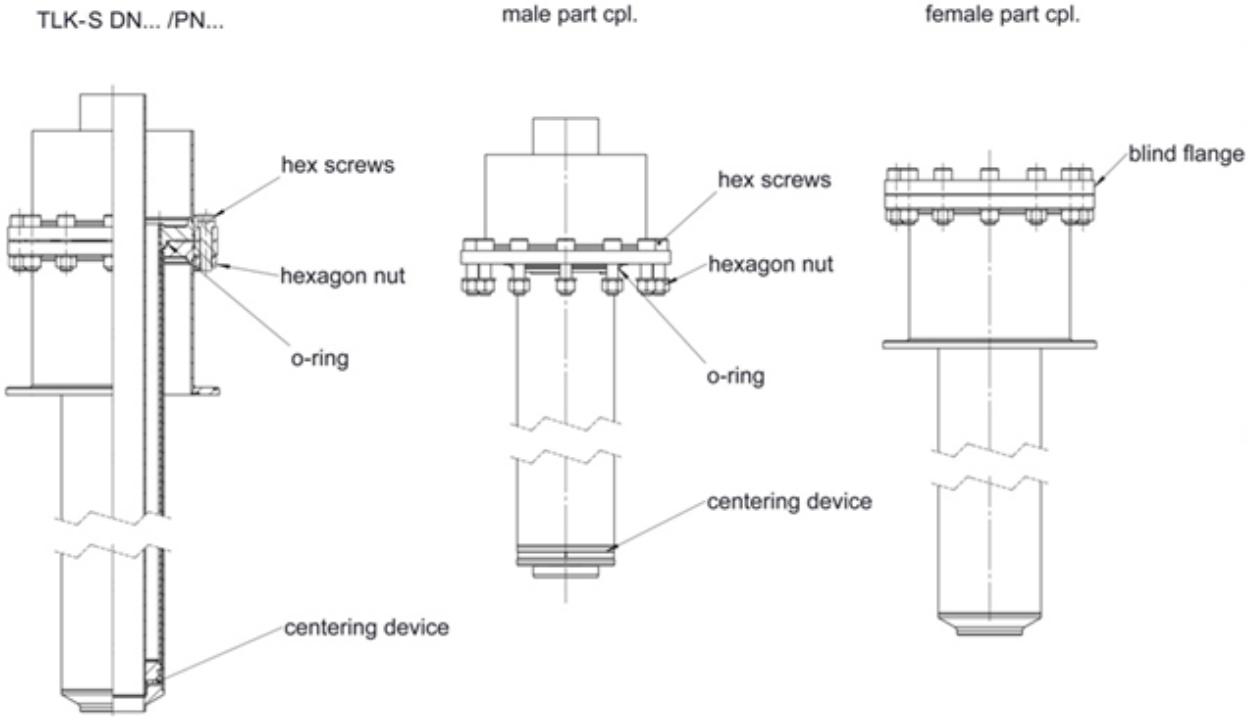
7 TLK-S

7.1 Parts overview

The following picture gives an overview of parts and tools of the single line coupling DN6 … DN50:



The following picture gives a part overview of the single line coupling DN65 and DN80:



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7.2 Installation

Unpacking: Check if the delivery of the coupling was complete. The delivery consists of

- Male coupling part
- Female coupling part
- Blind plug
- Special tools: Hook spanner and ring spanner (applicable only for nominal diameter from DN6 up to DN50)

Please note that the scope of delivery can be different, if only male or female part of the coupling has been ordered.

If the female and the male part of the coupling are assembled in one plastic bag, disassemble the male part from the female part and put the part you do not need immediately back in the plastic bag.

Installation female part:
Never install the female part with the male part assembled!
WEKA recommends the following procedure to install the female part:

- Connect the weld flange to the cold box plate by welding three single points.
- Remove any protection device from the cold end.
- Weld the cold end of the coupling to the piping system.
- If the male part is available, check that it fits properly into the female part without any resistance. If there is resistance, re-weld the three points of the flange and pay attention to the straightness of the part to guarantee a smooth operation.
- Once the two parts fit properly, complete the welding on the flange. Use as little heat as possible and as much as necessary. According to WEKA experience, it is not necessary to remove the backup rings and the O-ring of the sealing during the welding

Installation male part:

- Weld the inner tube of the male part to the inner tube of the transfer line.
- Weld the vacuum tube of the male part to the vacuum jacket of the transfer line.

7.3 Ex

Missing potential equalization can cause static charge, which may result in sparking and lead to explosions.
Before coupling, while fluid transfer and during the decoupling, a potential equalisation has to be ensured between the male and female part of the coupling.

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7.4 Operation

Make sure, the complete system is unpressurized.

To connect the transfer line to the cold box, proceed as follows:

Step	Picture	Description for assembly of TLK-S DN6 … DN50
Note: Depending on the size of the coupling, the following pictures can differ!		
1		If still mounted, remove the blind plug on the female part of the coupling. Make sure the two backup rings and the O-ring are mounted properly in the female part of the coupling. Use a little vacuum grease to lubricate the O-ring for proper sealing function and easy inserting of the male part.
2		If still mounted, remove any protection on the cold end of the male part. Make sure the centering device on the cold end is mounted properly on the male part of the coupling
3		Insert the male part of the coupling carefully into the female part.

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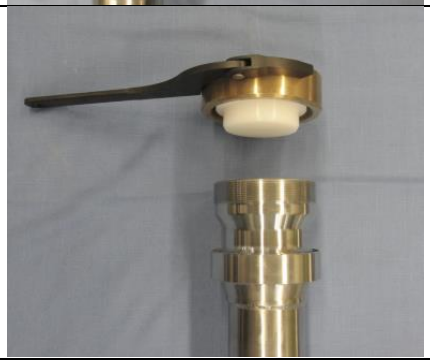
4		Tighten the union nut with the hook spanner delivered with the coupling.
Step	**Picture**	**Description for disassembly of TLK-S DN6 … DN50**
Note: Depending on the size of the coupling, the following pictures can differ!		
1		To disassemble the male part from the female part, loosen the union nut with the hook spanner and retract the male part carefully.
2		Cover the female part with the blind plug to avoid contamination of the piping.

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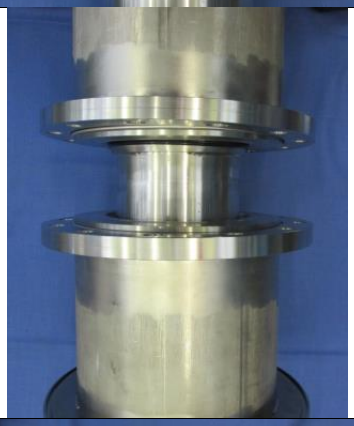
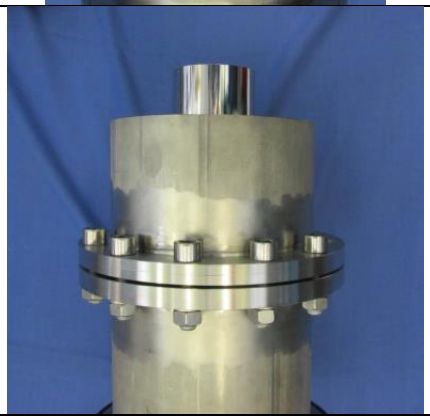
Step	Picture	Description for assembly of TLK-S DN65, DN80
Note: Depending on the size of the coupling, the following pictures can differ!		
1		If still mounted, remove the blind flange on the female part of the coupling with an allen key and a flat spanner.
2		If still mounted, remove the protection on the cold end of the male part. Make sure the centering device on the cold end is mounted properly on the male part of the coupling. Make sure, the O-ring is assembled properly on the warm end of the coupling Use a little vacuum grease to lubricate the O-ring for proper sealing function.
3		Insert the male part of the coupling carefully into the female part.
4		Tighten the two flanges with the hex screws with an allen key and a flat spanner.

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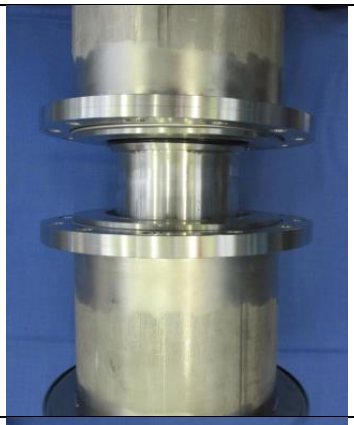
Step	Picture	Description for disassembly of TLK-S DN65, DN80
Note: Depending on the size of the coupling, the following pictures can differ!		
1		To disassemble the male part from the female part, loosen the hex screws with an allen key and a flat spanner and retract the male part carefully.
2		Cover the female part with the blind flange to avoid contamination of the piping.

7.5 Maintenance

For spare parts see the datasheet or the customer specific drawings. The following parts are available as spare parts:

- 2 x Backup rings (applicable only for nominal size from DN6 up to DN50)
- O-ring
- Centering device
- Stripping device (applicable only for nominal size from DN6 up to DN50)

WEKA cryogenic couplings are designed for minimum maintenance. However, on a regular interval during plant shut down for maintenance, it is recommended to inspect and, if necessary, replace the backup rings and the O-ring of the female part for a proper sealing function. Proceed as described in the following section.

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7.5.1 Change of sealing

Step	Picture	Description for TLK-S DN6 … DN50
Note: Depending on the size of the coupling, the following pictures can differ!		
1		Disassemble the male part from the female part by loosening the union nut with the hook spanner. Remove the male part carefully.
2		Remove the two backup rings and the O-ring with a soft tool. Pay attention you do not damage the housing.
3	  	Flatten the two backup rings with the fingers and shorten them with a cutter, if they are too long. Make sure that the two ends do not overlap.
4		Clean the nut carefully before re-assembling the two backup rings and the O-ring. Do not use any tools to avoid damage of the devices. Use a little vacuum grease to lubricate the O-ring for proper sealing function and easy inserting of the male part.

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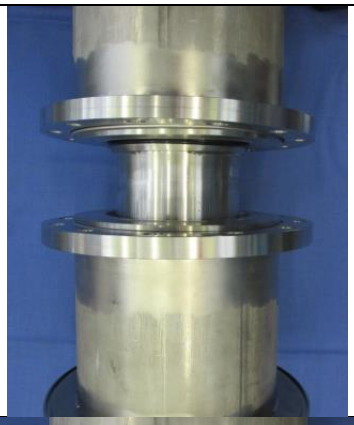
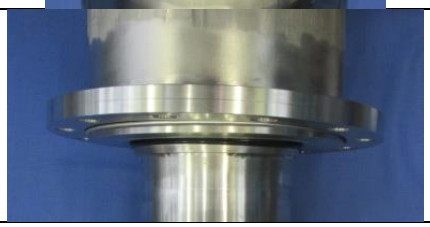
Step	Picture	Description for TLK S DN65, DN80
Note: Depending on the size of the coupling, the following pictures can differ!		
1		Disassemble the male part from the female part by loosening the hex screws with an allen key and a flat spanner. Remove the male part carefully.
2		Remove the O-ring carefully and replace it with a new one. Use a little vacuum grease to lubricate the O-ring for proper sealing function.

7.5.2 Change of centering device

Changing the centering device on the male part is only recommended, if it is damaged due to improper handling. Under normal operating conditions the centering device should not be destroyed.

To remove the centering device, WEKA recommends heating it. Due to the thermal expansion it can be removed easily.

The assembling of the new centering device can be done the same way.

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7.5.3 Change of stripping device (applicable only for TLK-S DN6 … DN50)

Changing the stripping device is only recommended if it is damaged due to improper handling. Under normal operating conditions the stripping device should not be destroyed.

To change the stripping device on the male part proceed as follows:

- Insert the ring spanner from the cold end and connect it to the ring holding back the collar nut with the four pins:

- Loosen the ring with the hook spanner and remove it.
- Remove the collar nut.
- Remove the stripping device from the male part (or from the collar nut)
- Add the new stripping device to the collar nut
- Assemble the collar nut and the ring again on the male part. Apply a single drop of Loctite 243 to the thread of the ring.
- Tighten the ring with the hook spanner:

- Secure the stripping device with Loctite 648 to the housing.

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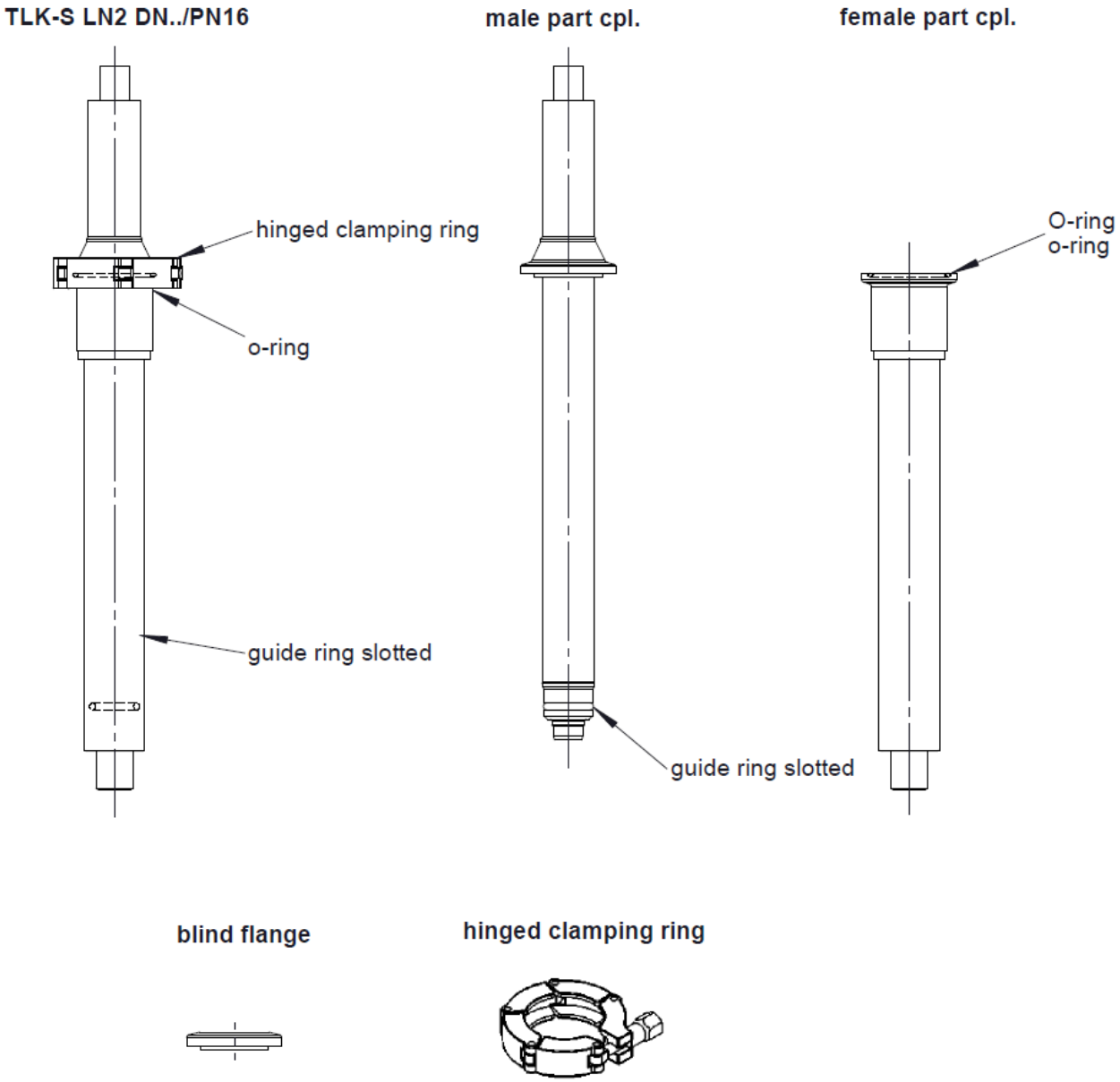
8 TLK-S LN2 DN15 … DN25

8.1 Parts overview

The following picture gives a part overview of the single line coupling TLK-S LN2 DN15 … DN25:



8.2 Installation

Unpacking: Check if the delivery of the coupling was complete. The delivery consists of

- Male coupling part
- Female coupling part
- Blind flange
- Hinged clamping ring (PN16)

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Please note that the scope of delivery can be different, if only male or female part of the coupling has been ordered.

If the female and the male part of the coupling are assembled in one plastic bag, disassemble the male part from the female part and put the part you do not need immediately back in the plastic bag.

Installation female part:
Never install the female part with the male part assembled!
WEKA recommends the following procedure to install the female part:

- Remove any protection device from the cold end.
- Weld the cold end of the coupling to the piping system.
- If the male part is available, check that it fits properly into the female part without any resistance.
- If available, put the blind flange on the female part and fix it with the (hinged) clamping ring to protect the piping from any contamination.

Please note:
The maximum torque is indicated on the hinged clamping ring. This must be strictly adhered to

Installation male part:

- Weld the inner tube of the male part to the inner tube of the transfer line.
- Weld the vacuum tube of the male part to the vacuum jacket of the transfer line.

8.3 Ex

Missing potential equalization can cause static charge, which may result in sparking and lead to explosions.
Before coupling, while fluid transfer and during the decoupling, a potential equalisation has to be ensured between the male and female part of the coupling.

8.4 Operation

Make sure, the complete system is unpressurized.

To connect the transfer line to the piping system, proceed as follows:

- If mounted, remove the blind flange from the female part by loosening the (hinged) clamping ring.
- Remove any protection device from the cold end of the male part.
- Make sure, the O-ring is inserted properly in the female part of the coupling and free of any dirt.
- Carefully insert the male part of the coupling connected to the transfer line into the female part until they fit properly. Tighten the two parts with the (hinged) clamping ring.

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To disconnect the transfer line from the piping system, proceed as follows:

- Open the (hinged) clamping ring connecting the male and female part of the coupling.
- Carefully extract the male part of the coupling from the female part.
- If available, put the blind flange on the female part and fix it with the (hinged) clamping ring to protect the piping from any contamination.

Please note:
The maximum torque is indicated on the hinged clamping ring. This must be strictly adhered to

8.5 Maintenance

For spare parts see the datasheet or the customer specific drawings. The following parts are available as spare parts:

- O-Ring
- Guide ring
- hinged clamping ring

WEKA cryogenic couplings are designed for minimum maintenance.

However, on a regular interval during plant shut down for maintenance, it is recommended to inspect and, if necessary, replace the the O-ring of the female part for a proper sealing function. Proceed as described in the following section.

Changing the guide ring on the male part is only recommended, if it is damaged due to improper handling. Under normal operating conditions the guide ring should not be destroyed.

8.5.1 Change of O-ring

- Disassemble the male part from the female part as described in chapter 8.4
- Remove the O-ring carefully and replace it with a new one.
  Use a little vacuum grease to lubricate the O-ring for proper sealing function.

8.5.2 Change of guide ring

Changing the guide ring on the male part is only recommended, if it is damaged due to improper handling. Under normal operating conditions the guide ring should not be destroyed.

To change the guide ring, use a soft tool to remove the old one and replace it carefully with the new one.

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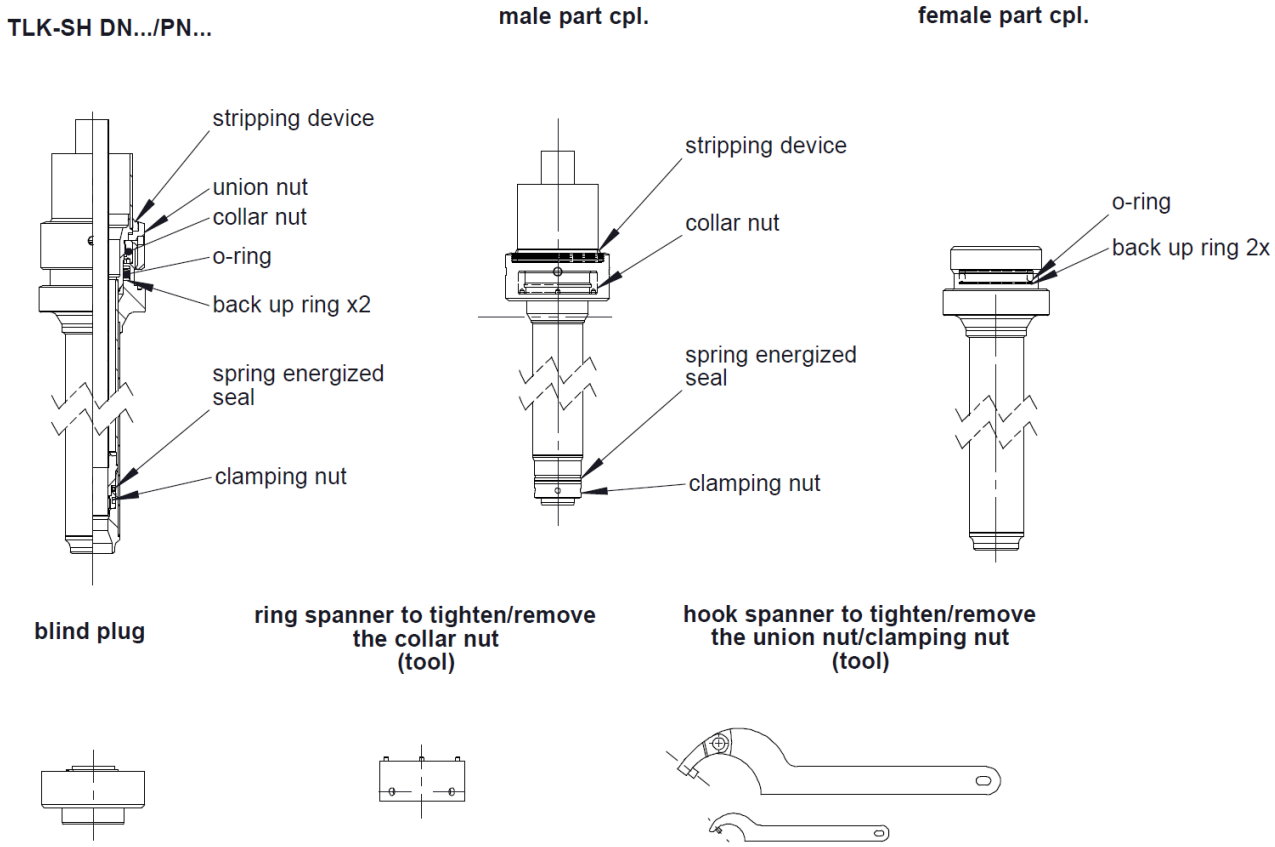
9 TLK-SH DN6 … DN50

9.1 Parts overview

The following picture gives an overview of parts and tools of the single line coupling for LHe Type TLK-S horizontal mounting DN6 … DN50:



9.2 Installation

Unpacking: Check if the delivery of the coupling was complete. The delivery consists of

- Male coupling part
- Female coupling part
- Blind plug
- Special tools: Hook spanner and ring spanner

Please note that the scope of delivery can be different, if only male or female part of the coupling has been ordered.

If the female and the male part of the coupling are assembled in one plastic bag, disassemble the male part from the female part and put the part you do not need immediately back in the plastic bag.

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Installation female part:
Never install the female part with the male part assembled!
WEKA recommends the following procedure to install the female part:

- Connect the weld flange to the cold box plate by welding three single points.
- Remove any protection device from the cold end.
- Weld the cold end of the coupling to the piping system.
- If the male part is available, check that it fits properly into the female part without any resistance. If there is resistance, re-weld the three points of the flange and pay attention to the straightness of the part to guarantee a smooth operation.
- Once the two parts fit properly, complete the welding on the flange. Use as little heat as possible and as much as necessary. According to WEKA experience, it is not necessary to remove the backup rings and the O-ring of the sealing during the welding

Installation male part:
- Weld the inner tube of the male part to the inner tube of the transfer line.
- Weld the vacuum tube of the male part to the vacuum jacket of the transfer line.

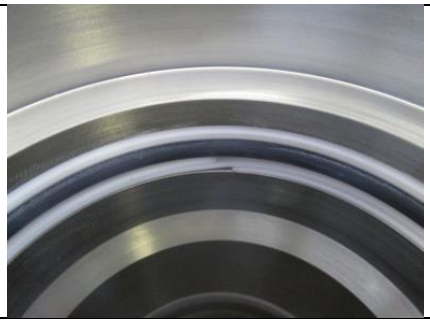
9.3 Ex

Missing potential equalization can cause static charge, which may result in sparking and lead to explosions.
Before coupling, while fluid transfer and during the decoupling, a potential equalisation has to be ensured between the male and female part of the coupling.

9.4 Operation

Make sure, the complete system is unpressurized.

To connect the transfer line to the cold box, proceed as follows:

Step	Picture	Description for assembly of TLK-SH
Note: Depending on the size of the coupling, the following pictures can differ!		
1		If still mounted, remove the blind plug on the female part of the coupling. Make sure the two backup rings and the O-ring are mounted properly in the female part of the coupling. Use a little vacuum grease to lubricate the O-ring for proper sealing function and easy inserting of the male part.

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2		If still mounted, remove any protection on the cold end of the male part. Make sure the spring energized seal and clamping nut on the cold end is mounted properly on the male part of the coupling
3		Insert the male part of the coupling carefully into the female part.
4		Tighten the union nut with the hook spanner delivered with the coupling.
Step	**Picture**	**Description for disassembly of TLK-SH**
Note: Depending on the size of the coupling, the following pictures can differ!		
1		To disassemble the male part from the female part, loosen the union nut with the hook spanner and retract the male part carefully.

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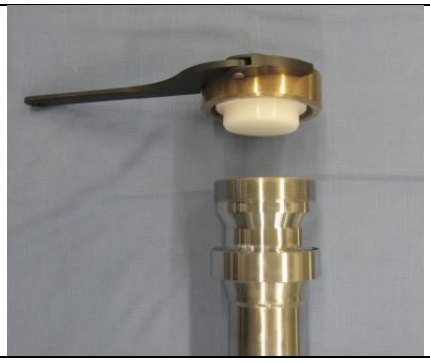
2		Cover the female part with the blind plug to avoid contamination of the piping.

9.5 Maintenance

For spare parts see the datasheet or the customer specific drawings. The following parts are available as spare parts:

- 2 x Backup rings and O-ring
- Spring energized seal
- Clamping nut
- Stripping device

WEKA cryogenic couplings are designed for minimum maintenance. However, on a regular interval during plant shut down for maintenance, it is recommended to inspect and, if necessary, replace the backup rings and the O-ring of the female part for a proper sealing function. Proceed as described in the following section.

9.5.1 Change of sealing

Step	Picture	Description
Note: Depending on the size of the coupling, the following pictures can differ!		
1		Disassemble the male part from the female part by loosening the union nut with the hook spanner. Remove the male part carefully.
2		Remove the two backup rings and the O-ring with a soft tool. Pay attention you do not damage the housing.

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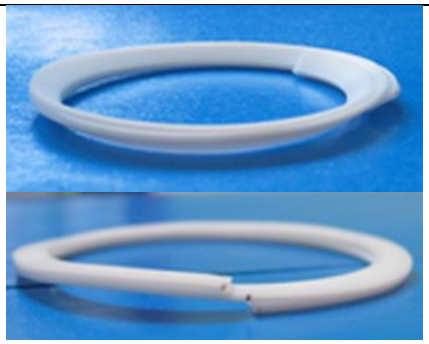
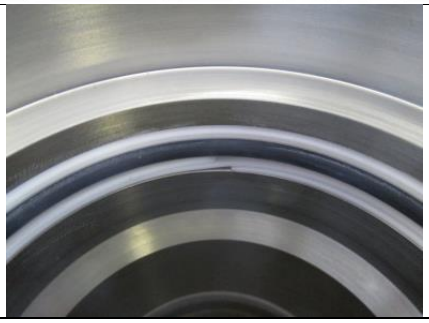
3	 	Flatten the two backup rings with the fingers and shorten them with a cutter, if they are too long. Make sure that the two ends do not overlap.
4		Clean the nut carefully before re-assembling the two backup rings and the O-ring. Do not use any tools to avoid damage of the devices. Use a little vacuum grease to lubricate the O-ring for proper sealing function and easy inserting of the male part.
5		Disassemble clamping nut from the male part by loosening the clamping nut with the hook spanner.
6		Remove the spring energized seal with a soft tool. Pay attention you do not damage the surface of the male part.

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7		Clean the nut carefully before re-assembling the spring energized seal.
8		Carefully place the spring energized seal on the male part. Use a little vacuum grease to apply the seal to the male part without damaging it.
9		Assemble clamping nut.
10		Fasten the clamping nut with the hook spanner.

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9.5.2 Change of stripping device

Changing the stripping device is only recommended if it is damaged due to improper handling. Under normal operating conditions the stripping device should not be destroyed.

To change the stripping device on the male part proceed as follows:

- Insert the ring spanner from the cold end and connect it to the ring holding back the collar nut with the four pins:

- Loosen the ring with the hook spanner and remove it.
- Remove the collar nut.
- Remove the stripping device from the male part (or from the collar nut)
- Add the new stripping device to the collar nut
- Assemble the collar nut and the ring again on the male part. Apply a single drop of Loctite 243 to the thread of the ring.
- Tighten the ring with the hook spanner:

- Secure the stripping device with Loctite 648 to the housing.

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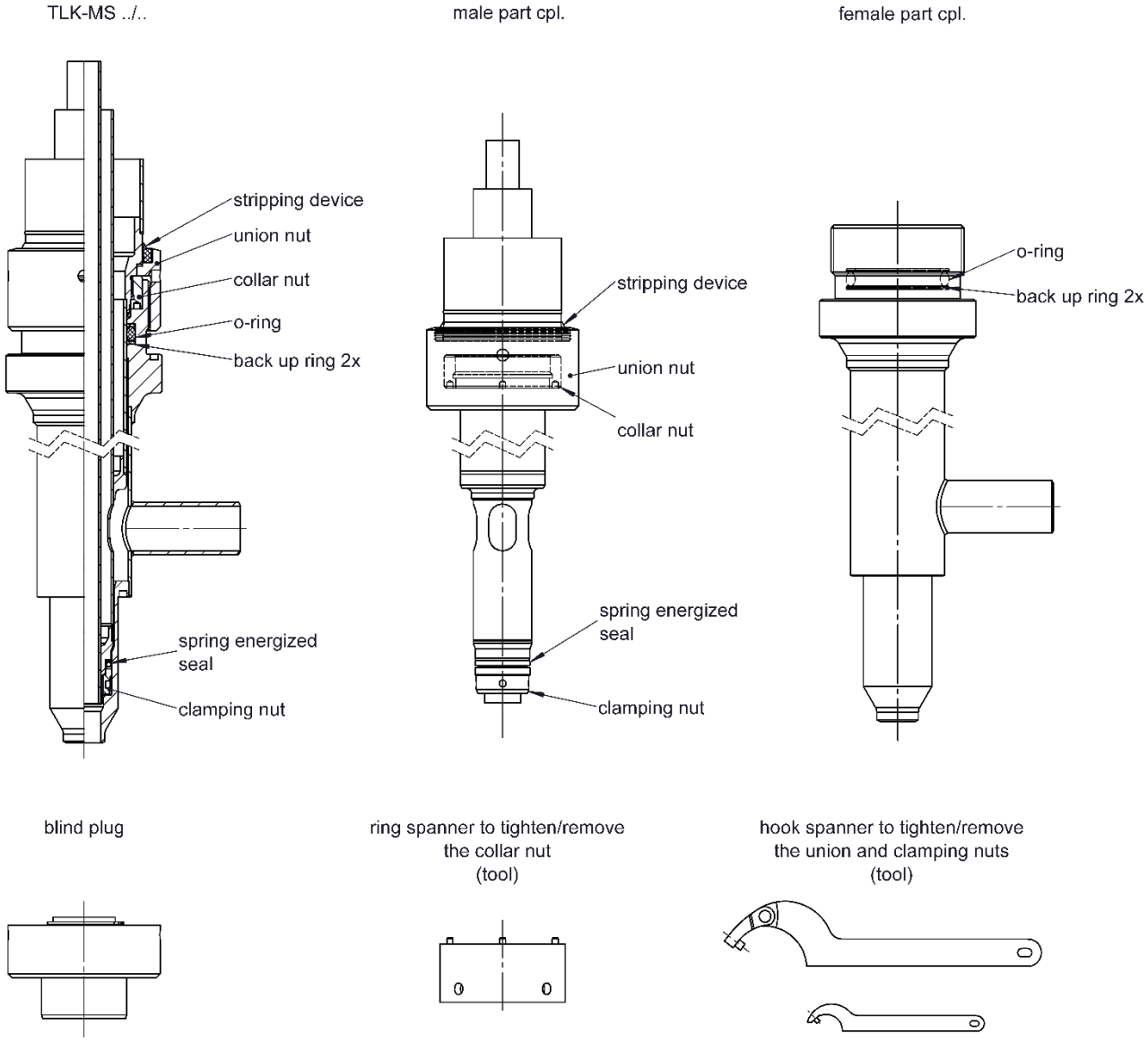
10 TLK-MS div.

10.1 Parts overview

The following picture gives an overview of parts and tools of the multi-line coupling TLK-MS:



10.2 Installation

Unpacking: Check if the delivery of the coupling was complete. The delivery consists of

- Male coupling part
- Female coupling part
- Blind plug
- Special tools: Hook spanner and ring spanner

Please note that the scope of delivery can be different, if only male or female part of the coupling has been ordered.

If the female and the male part of the coupling are assembled in one plastic bag, disassemble the male part from the female part and put the part you do not need immediately back in the plastic bag.

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Installation female part:
Never install the female part with the male part assembled!
WEKA recommends the following procedure to install the female part:

- Connect the weld flange to the cold box plate by welding three single points.
- Remove any protection device from the cold end.
- Weld the cold end of the coupling to the piping system.
- If the male part is available, check that it fits properly into the female part without any resistance. If there is resistance, re-weld the three points of the flange and pay attention to the straightness of the part to guarantee a smooth operation.
- Once the two parts fit properly, complete the welding on the flange. Use as little heat as possible and as much as necessary. According to WEKA experience, it is not necessary to remove the backup rings and the O-ring of the sealing during the welding

Installation male part:
- Weld the inner tube of the male part to the inner tube of the transfer line.
- Weld the middle tube of the male part to the middle tube of the transfer line.
- Weld the vacuum tube of the male part to the vacuum jacket of the transfer line.

10.3 Ex

Missing potential equalization can cause static charge, which may result in sparking and lead to explosions.
Before coupling, while fluid transfer and during the decoupling, a potential equalisation has to be ensured between the male and female part of the coupling.

10.4 Operation

Make sure, the complete system is unpressurized.

To connect the transfer line to the cold box, proceed as follows:

Step	Picture	Description for assembly of TLK-MS
Note: Depending on the size of the coupling and the pcs. of lines, the following pictures can differ!		
1		If still mounted, remove the blind plug on the female part of the coupling. Make sure the two backup rings and the O-ring are mounted properly in the female part of the coupling. Use a little vacuum grease to lubricate the O-ring for proper sealing function and easy inserting of the male part.

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2		If still mounted, remove any protection on the cold end of the male part. Make sure the spring energized seal and the clamping nut on the cold end is mounted properly on the male part of the coupling. Tighten the clamping nut with the hook spanner delivered with the coupling, if it is necessary.
3		Insert the male part of the coupling carefully into the female part.
4		Tighten the union nut with the hook spanner delivered with the coupling.

Step	Picture	Description for disassembly of TLK-MS
Note: Depending on the size of the coupling and the pcs. of lines, the following pictures can differ!		
1		To disassemble the male part from the female part, loosen the union nut with the hook spanner and retract the male part carefully.

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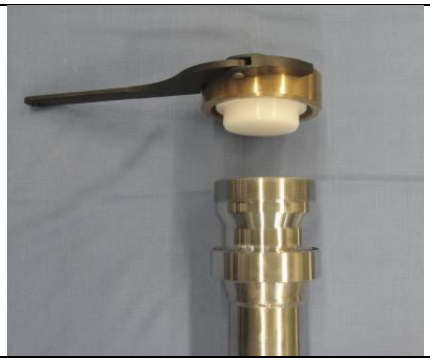
2		Cover the female part with the blind plug to avoid contamination of the piping.

10.5 Maintenance

For spare parts see the datasheet or the customer specific drawings. The following parts are available as spare parts:

- 2 x Backup rings and O-ring
- Spring energized seal
- Stripping device

WEKA cryogenic couplings are designed for minimum maintenance. However, on a regular interval during plant shut down for maintenance, it is recommended to inspect and, if necessary, replace the backup rings and the O-ring of the female part and the spring energized seal of the male part for a proper sealing function. Proceed as described in the following section.

10.5.1 Change of sealing

Step	Picture	Description
Note: Depending on the size of the coupling and the pcs. of lines, the following pictures can differ!		
		Disassemble the male part from the female part by loosening the union nut with the hook spanner. Remove the male part carefully.
2		Remove the two backup rings and the O-ring with a soft tool. Pay attention you do not damage the housing.

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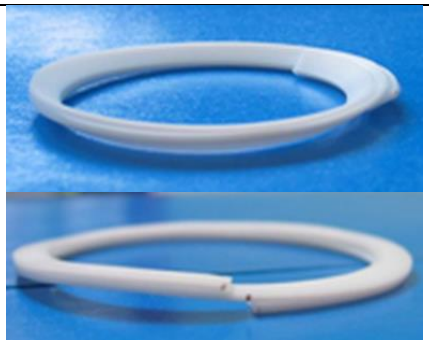
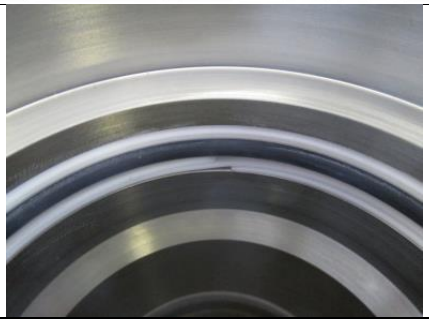
3	 	Flatten the two backup rings with the fingers and shorten them with a cutter, if they are too long. Make sure that the two ends do not overlap.
4		Clean the nut carefully before re-assembling the two backup rings and the O-ring. Do not use any tools to avoid damage of the devices. Use a little vacuum grease to lubricate the O-ring for proper sealing function and easy inserting of the male part.
5		Disassemble clamping nut from the male part by loosening the clamping nut with the hook spanner.
6		Remove the spring energized seal with a soft tool. Pay attention you do not damage the surface of the male part.

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7		Clean the nut carefully before re-assembling the spring energized seal.
8		Carefully place the spring energized seal on the male part. Use a little vacuum grease to apply the seal to the male part without damaging it.
9		Assemble clamping nut.
10		Fasten the clamping nut with the hook spanner.

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10.5.2 Change of stripping device

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- Remove the collar nut.
- Remove the stripping device from the male part (or from the collar nut)
- Add the new stripping device to the collar nut
- Assemble the collar nut and the ring again on the male part. Apply a single drop of Loctite 243 to the thread of the ring.
- Tighten the ring with the hook spanner:

- Secure the stripping device with Loctite 648 to the housing.

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11 Spare parts

For spare parts please refer to the datasheet or to the customer specific drawing you got with the order documentation.

In case you need an offer or you order spare parts, please make sure to provide the drawing number and the correct part number to the following address:

WEKA AG
Schürlistrasse 8
CH-8344 Bäretswil
Switzerland

Phone: +41 (0)43 833 43 43
Fax: +41 (0)43 833 43 49
Email: info@weka-ag.ch
Web: www.weka-ag.ch

12 Disassembly and disposal

Disassembly

Before starting disassembly, make sure that the fittings are depressurized, drained and de-energized. Dismantling may only be carried out by qualified personnel.

Disposal

The device is predominantly made of steel (apart from the sealing components and any equipment parts) and must be disposed of in accordance with the locally applicable disposal regulations. It must be ensured that the parts are neither contaminated by the medium nor contaminated in any other way.

13 Declaration of conformity

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EU-KONFORMITÄTSERKLÄRUNG
EU DECLARATION OF CONFORMITY

Wir / We **WEKA AG**

(Name des Herstellers) (Manufacturers name)

erklären in alleiniger Verantwortung, dass das Produkt
declare under our sole responsibility that the product

Kryogene Transferleitungskupplung / Cryogenic transfer line coupling

Typen / Types: **TLK**

Ausführung / Execution: **-S, -SH, -Si, -FS, -MS, -2MS, -KUS, -G**

(Bezeichnung Typ oder Modell, Los-, Chargen- oder Seriennummer, möglichst Herkunft und Stückzahl)
(Name, type or model, lot, batch or serial number, possibly sources and numbers of items)

auf das sich diese Erklärung bezieht, mit den folgenden Normen oder normativen Dokumenten übereinstimmt
to which this declaration relates is in conformity with the following standards or other normative documents

DIN EN 16668:2018-05

(Titel und/oder Nummer sowie Ausgabedatum der Normen oder der anderen normativen Dokumente)
(Title and/or number and date of issue of the standards or other normative documents)

Gemäss den Bestimmungen der Richtlinie(n)
Following the provisions of directive(s)
(falls zutreffend) (if applicable)

2014/68/EU (PED)	Art 4.3	WEKA AG (Art. 4.3)	
Qualitätssicherung /	Kat. I	WEKA AG (CE) Modul / module A	
quality assurance	Kat. ≥ II	DNV (CE 0575) Modul / module H	PEDH000000R
		DNV (CE 0575) Modul / module H1	PEDH10000017
		DNV AS, Veritasveien 1, 1363 Høvik, Norway	

(Richtlinie, Geltungsbereich / Kategorie, ggf. Name, Nummer und Anschrift der notifizierten Stelle)
(Directive, scope / category, if necessary name, number and address of notified body)

(Ort und Datum der Ausstellung)
(Place and date of issue)

Bäretswil, 28.04.2022

(Name und Unterschrift des Befugten)
(Name and signature of authorized person)

Marc Hofmann
(Quality Manager)

Pascal Erni
(Product Manager)

WEKA_DoC_EU TLK not Ex_DE_EN / 2022-04-28 1 / 1

14 Manufacturer statement

WEKA AG · Switzerland · Schürlistrasse 8 · CH-8344 Bäretswil · Phone +41 43 833 43 43 · info@weka-ag.ch · www.weka-ag.ch

Auf Grund unserer Risikoanalyse und langjähriger Erfahrung bestätigen wir, dass die unten genannten Produkte durch ihren konstruktiven Aufbau keine internen Zündquellen aufweisen und somit nicht in den Anwendungsbereich des internationalen Standards für nicht-elektrische Betriebsmittel für explosionsgefährdete Bereiche (ISO 80079-36:2016) fallen.

On the basis of our risk analysis and many years of experience, we confirm that the products listed below do not have any internal ignition sources due to their design and therefore do not fall within the scope of the international standard for non-electrical equipment for potentially explosive areas (ISO 80079-36: 2016).

Die Produkte dürfen nicht mit einer Ex-Markierung versehen werden und es darf keine EU Konformitätserklärung nach ATEX ausgestellt werden.

The products may not be provided with an Ex marking and no EU declaration of conformity according ATEX may be issued.

Die Produkte haben folgende Merkmale, die über die Qualitätssicherungsmassnahmen überwacht werden:

- technisch dicht
- keine Energiespeicher
- keine Zündquellen

The products have the following characteristics, which are monitored by the quality assurance measures:

- technical tightness
- no energy saving devices
- no ignition source

Die Produkte sind für den Einsatz in Zone 1 und Zone 2 (Kategorie II 2G, EPL Gb) geeignet.

These products can be used in zone 1 and zone 2 (category II 2G, EPL Gb).

In allen Fällen sind die Angaben in der Bedienungsanleitung zu beachten.

In all cases, the information in the operating instructions must be observed.

Produkte:
TLK

Products:
TLK

Ausführungen:
-S, - FS, -S LN2, -SH, -MS, - 2MS

Execution:
-S, - FS, -S LN2, -SH, -MS, - 2MS

Bäretswil, 28.04.2022

Pascal Erni
Product Manager Valves and Cryogenics

Bäretswil, 28.04.2022

Stefan Otto
Ex-Authorized Representative

Ausgeschlossen von dieser Herstellererklärung sind die Ausführungen
- Si, - KUS, - G

Excluded from this manufacturer statement are the executions
- Si, - KUS, - G

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