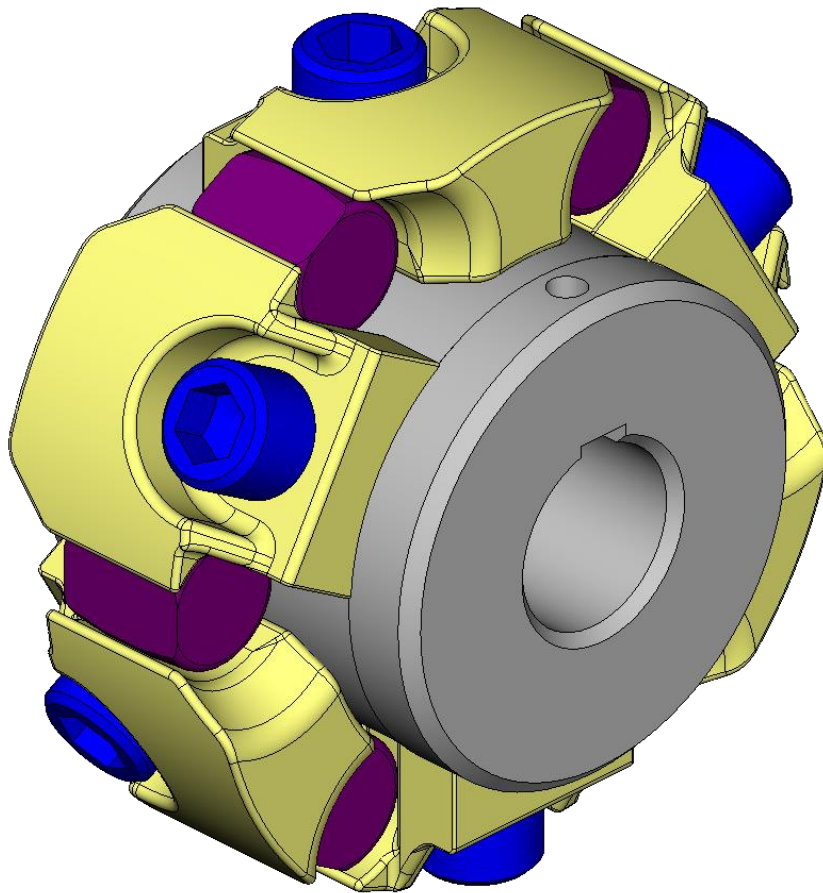




CENTAFLEX-B

Assembly and operating instructions

00700-00072...00185-2N11

M007-00001-EN

Rev. 1



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1 General remarks

These assembly and operating instructions form a constituent part of the coupling delivery and must be kept in an easily accessible place at all times.

CENTA products are developed and produced to quality standard DIN EN ISO 9001:2008.

In the interests of further development, CENTA reserves the right to make technical changes.

These assembly and operating instructions are protected under copyright to CENTA Antriebe Kirschey GmbH.

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2 Safety

The purpose of these operating instructions is to enable users to

- use the coupling safely and correctly,
- maximize efficiency and
- ensure that care and maintenance are carried out correctly.

For this reason, these operating instructions must be thoroughly read and understood prior to work on and with the coupling by the persons responsible.

2.1 Qualification of deployed personnel

All the work described in these operating instructions may only be performed by authorized persons with adequate training and instruction.

2.2 Warning notes

In the chapters of these assembly and operating instructions warning notes are clearly indicated by **signal words and symbols**.

2.2.1 Signal words

The following signal words are used in warning notes to warn of **personal injuries**:

DANGER	Denotes the immediate threat of danger. If not prevented, fatal or extremely serious injuries will result.
WARNING	Denotes a potentially dangerous situation. If not prevented, fatal or extremely serious injuries can result.
CAUTION	Denotes a potentially dangerous situation. If not prevented, minor injuries can result.

The following signal word is used in warning notes to warn of **material damages**:

NOTICE	Denotes a potentially dangerous situation. If not prevented, material damages can result.
---------------	--

2.2.2 Symbols

The following symbols are used in the warning notes:



Warning, hazardous area



Do not switch



Use protective gloves



Use protective goggles

2.3 Application tips

In addition to warning notes in this assembly and operating instructions there are also application tips and particularly useful information provided. These are marked with the signal word **IMPORTANT** and the symbol shown in the following example:



IMPORTANT

This is an example for an application tip.

2.4 Intended use

The coupling is intended exclusively for use in accordance with the relevant design. It may only be used under the specified conditions.

It is only allowed to perform work with the coupling which is described in this assembly and operating instructions. CENTA bears no liability for damages or operating breakdowns resulting from non-compliance with the assembly and operating instructions.

The safety and accident prevention regulations valid at the installation site in question must be adhered to when performing any of the tasks described in these assembly and operating instructions.

2.5 Non-intended use

Death, (serious) injuries or material damages can occur, if the coupling is not used according to the intended use.

Intended use see chapter 2.3.

CENTA bears no liability for damages or operating breakdowns resulting from usage not according to the intended use.

Non-intended use of the coupling is, amongst others, the use of the coupling

- with inadmissibly high torque,
- with inadmissibly high or low speeds,
- with excessively high or low ambient temperature,
- in an inadmissible ambient medium,
- with an inadmissible protective enclosure,
- with exceeded admissible overall misalignment values.

NOTICE

**Material damage can occur as result of:**

- Changing plant parameters without reviewing and, where applicable, adjustment of the coupling

Should there be a change of plant parameters, the coupling design must be reviewed by CENTA.

DANGER

**Death or serious injuries can occur as a result of:**

- Violation of the safety and accident prevention regulations valid at the respective application site

When performing the works described in these instructions always act in compliance with the safety and accident prevention regulations valid at the respective application site.

3 Delivery, transport, storage and disposal

3.1 Delivery

NOTICE	
	Material damage of coupling parts can occur as result of: Corrosion after escaping of the protective atmosphere from the package The coupling is protected against corrosion by its packaging. Therefore only open the package of the coupling when the contents are to be used. Immediately reseal any damage to the package. For inspection purposes only open the wrapping briefly. Wear gloves doing this. After inspection reclose the packaging immediately, so that the protective atmosphere can regenerate itself of its own accord.

- Check the completeness and correctness of the delivery.
- Examine the coupling for possible transport damage. Transport damage must be reported immediately to the carrier.

3.2 Transport

WARNING	
	Death or serious injuries can occur as result of: Incorrect transportation of couplings Carefully and appropriately transport the coupling with suitable lifting devices. By doing so, protect it against falling down. Comply with applicable accident prevention regulations. After transportation check the coupling for transport damage.
CAUTION	
	Injuries can occur as result of: Transport damage of the coupling If the coupling has been damaged during transportation, do not use the coupling and confer with CENTA (address see chapter 1).

NOTICE**Material damages can occur as result of:**

- Incorrect transportation, falling down or contact with sharp-edged objects

Carefully and appropriately transport the coupling with suitable lifting devices.

Protect coupling components for transportation.

Only hoist coupling components with nylon belts or ropes.

Always cushion parts when supporting them from below.

Comply with applicable accident prevention regulations.

3.3 Storage**NOTICE****Material damages to elastic elements can occur as result of:**

- Incorrect storage

Store elastic elements so they cannot distort.

Store elastic elements protected from ozone, heat, light, moisture and solvents (see also chapter 3.3.2).

3.3.1 Storage of couplings and/or elastic elements

- Store newly delivered parts in their packaging. Immediately reseal any damage to the packaging.
- Re-pack already unpacked parts. For prolonged periods of storage, enclose desiccant and weld the parts into film.
- Store the parts in a suitable storage location (see chapter 3.3.2).



3.3.2 Storage location

Requirements imposed on the storage location:

- Moderately ventilated and low in dust
- Dry (max. 65% humidity)
- Temperature stabilized (-10°C to +25°C)
- Free of ozone-producing devices such as light sources and electric motors
- Free of UV light sources and direct sunlight
- Do not store solvents and disinfectants, fuels or lubricants, acids, chemicals etc. in the same location

For more details, refer to DIN 7716.

3.4 Disposal

- Separate the coupling parts where possible and sort it according to material type.
- Ensure a safe, environmentally responsible disposal of operating supplies and exchange parts. Safely and environmentally friendly dispose of operating and auxiliary materials, packaging material and exchange parts using locally provided recycling facilities. By doing so, comply with the locally provided regulations.



4 Technical description

4.1 Characteristics

CENTAFLEX-B-couplings:

- are extremely robust with a fail-safe jaw-type design
- are equipped with elastomer elements subjected only to compressive stress
- dampen torsional vibrations and shocks
- compensate axial, radial and angular misalignments
- are Oil-resistant
- convince by many design variants and economical design
- are available in thermally resistant design
- are axial or radial mountable with minimum effort

4.2 Specifications

The specifications can be found in the catalogue and the dimensions in the installation drawing.

5 Alignment of the units being connected



IMPORTANT

The alignment must be recorded and has to be placed to the disposal of the operating company.
This is to ensure verifying and modifying the alignment during operation and maintenance.

5.1 Checking the installation position of the units being connected

NOTICE

**Material damages can occur as a result of:**

- Units to be connected, which are in assembled state out of the permissible misalignment values.

Make sure that the units being connected are within the permissible misalignment values of the coupling.

- Prior to commissioning, ensure that during operation the position of the units being connected are within the permissible alignment tolerances of the coupling.
- The overall misalignment values can be found in the catalogue.

6 Mounting

6.1 General assembly instructions

Any work method which impairs the safety of the coupling is prohibited.
The user undertakes to notify the manufacturer immediately of any changes occurring at the coupling which could impair safety (address see chapter 1).

DANGER



Death and serious injuries occur as result of:

- Contact with rotating parts

Before starting work at the coupling, switch off the plant and secure against unintentional start-up.

DANGER



Death or serious injuries occur as result of:

- Incorrect transportation of the coupling or of parts of the coupling during assembly/dismantling
- Falling down or tipping over of the coupling or of parts of the coupling during assembly/dismantling

Carefully and appropriately transport the coupling or coupling parts during the assembly/dismantling with suitable lifting devices.

During the assembly/dismantling also protect all parts against falling down or tipping over.

Comply with applicable accident prevention regulations.

NOTICE



Material damages of coupling parts can occur as result of:

- Incorrect transportation,
- falling down,
- tipping over or
- contact with sharp-edged objects

Carefully and appropriately transport the coupling and coupling parts during the assembly/dismantling with suitable lifting devices.

Always protect coupling components for transportation.

Only hoist coupling parts with nylon belts or ropes.

During the assembly/dismantling also protect all parts against falling down or tipping over.

Always cushion parts when supporting them from below.

Comply with applicable accident prevention regulations.

NOTICE



Material damage can occur as result of:

- Assembly of the coupling in the wrong sequence

Only ever assemble the coupling in the sequence described in this chapter.

NOTICE



Material damages on coupling parts can occur as result of:

- Wrong screw preparation and wrong tightening torque levels

Screw preparation and tightening torque levels according to CENTA data sheet D001-019 (see chapter 11.1).

NOTICE



Material damages on coupling parts can occur as result of:

- Anaerobic adhesives (e.g. Loctite) used for screw locking

Never let anaerobic adhesives come in contact with rubber parts.

NOTICE



Material damages can occur as result of:

- Soiled joint surfaces

Keep the surfaces that are to be joined free of dirt, preservatives and lubricants.



IMPORTANT

Exclusively use **new** screws supplied by CENTA.

These are coated with microencapsulated adhesive which serves as a screw locking medium.



IMPORTANT

To ensure optimum screw locking, after tightening the curing time for the microencapsulated adhesive must be observed:

- Appr. 4-5 hours at room temperature (20°C)
- Higher temperatures will accelerate the curing time (e.g. 15 minutes at 70°C created by a hot air blower)

After 24 hours, the adhesive is completely cured.


IMPORTANT

Part illustration and marking in the assembly and operating instructions may differ from the installation drawing and delivery state.

6.2 Preparing a protective enclosure (if necessary)

DANGER


Death or serious injuries occur as result of:

- Contact with rotating parts or self-loosening of rotating parts

In accordance with the applicable accident prevention regulations encase the coupling with a protective enclosure, if it is not already encased by the driving and the driven unit.

A protective enclosure is not part of the scope of supply.

The protective enclosure must fulfil the following functions:

- Providing protection against persons gaining access to rotating parts.
- Restraining any rotating parts which may have worked loose.
- Guaranteeing sufficient ventilation for the coupling.

The protective enclosure must have the following specifications:

- The enclosure must be made of stable steel components.
- The enclosure must be electrically conductive and be included in the equipotential bonding.
- After mounting the enclosure must be positioned a minimum of 15 mm distant from rotating parts.
- In order to ensure adequate ventilation for the coupling, the enclosure must be fitted with regular openings. For safety reasons, these openings must not exceed the following dimensions:

Component	Circular openings [mm]	Rectangular openings [mm]
Top of the enclosure	Ø 8	□ 8
Side elements of the enclosure	Ø 8	□ 8

Table 6-1 Shape and size of ventilation holes

- Prepare a suitable protective enclosure or let one be manufactured.

6.3 Mounting the hub assemblies (2/3)

- Mount both hub assemblies (2/3) as appropriate for the delivered design (see installation drawing):
 - Mounting the hub assembly (2/3) with cylindrical bore and keyway, see chapter 6.3.1.
 - Mounting the hub assembly (2/3) with CENTALOC clamping, see chapter 6.3.2.

6.3.1 Mounting the hub assembly (2/3) with cylindrical bore and keyway

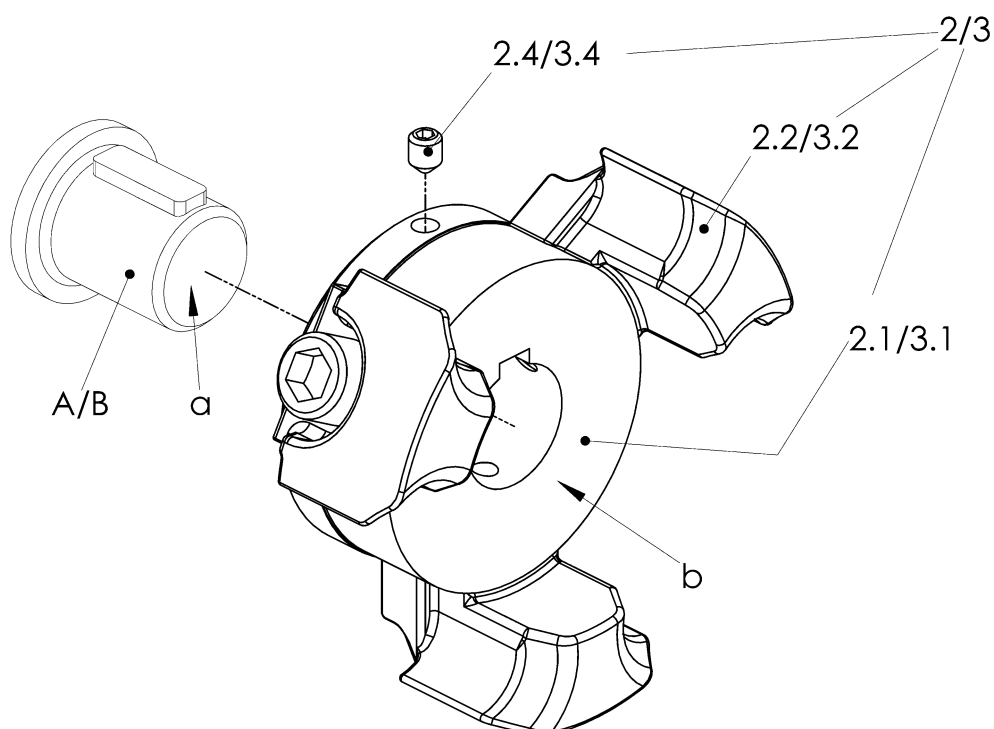


Fig. 6-1 Mounting the hub assembly (2/3) with cylindrical bore and keyway

Item	Info	Designation	Remark
2/3		Hub assembly	Pre-mounted by CENTA
2.1/3.1		Hub	
2.2/3.2		Claw	
2.4/3.4		Threaded pin	
A/B		Shaft	Customer part; Driving/Driven side
	a	Face of the shaft	
	b	Face of the hub	

**IMPORTANT**

Face of shaft must not protrude to face of hub. Otherwise radial replacement of other coupling parts is not guaranteed.

- Push the hub assembly (2/3) onto the shaft (A/B).
- Secure the hub (2.1/3.1) with the threaded pins (2.4/3.4). Size acc. the installation drawing. Tightening torque see table below.

Threaded pin	M6	M8	M10	M12	M14	M16	M20
Tightening torque [Nm]	7	16	30	50	70	120	200

Table 6-2 Tightening torques for threaded pins

6.3.2 Mounting the hub assembly (2/3) with CENTALOC clamping

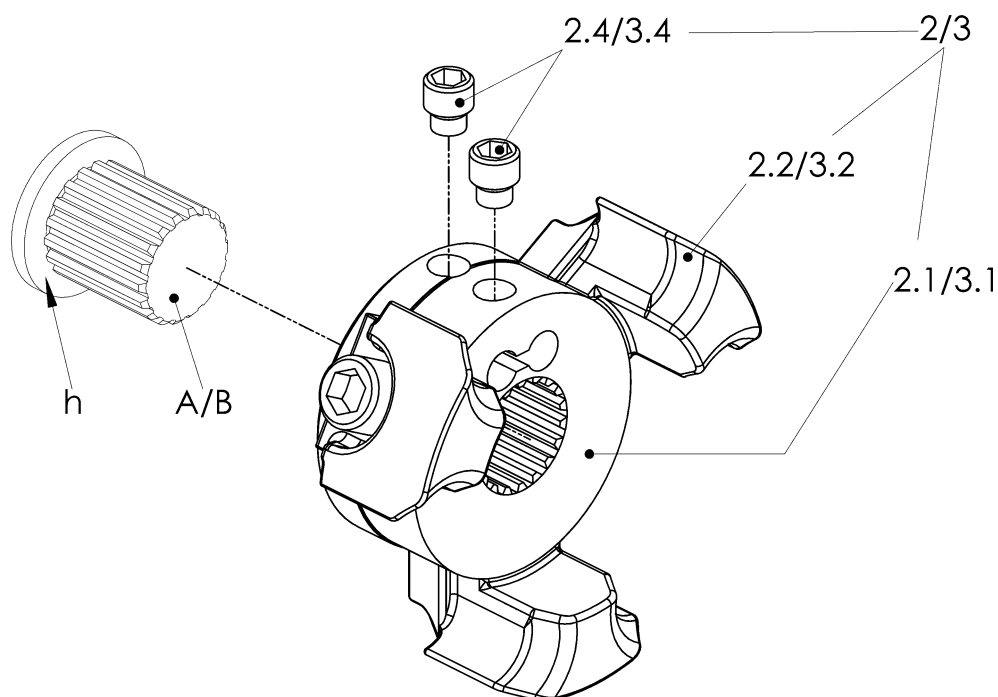


Fig. 6-2 Mounting the hub assembly (2/3) with CENTALOC clamping

Item	Info	Designation	Remark
2/3		Hub assembly	Pre-mounted by CENTA
2.1/3.1		Hub	
2.2/3.2		Claw	
2.4/3.4		Threaded pin	
A/B		Shaft	Customer part; Driving/Driven side
	h	Shaft shoulder	

- Push the hub assembly (2/3) onto the shaft (A/B) and against the shaft shoulder (h).
- Secure the hub (2.1/3.1) with the threaded pins (2.4/3.4). Size acc. the installation drawing. Tightening torque see table below.

Threaded pin	M6	M8	M10	M12	M14	M16	M20
Tightening torque [Nm]	7	16	30	50	70	120	200

Table 6-3 Tightening torques for threaded pins

6.4 Mounting the elastic element

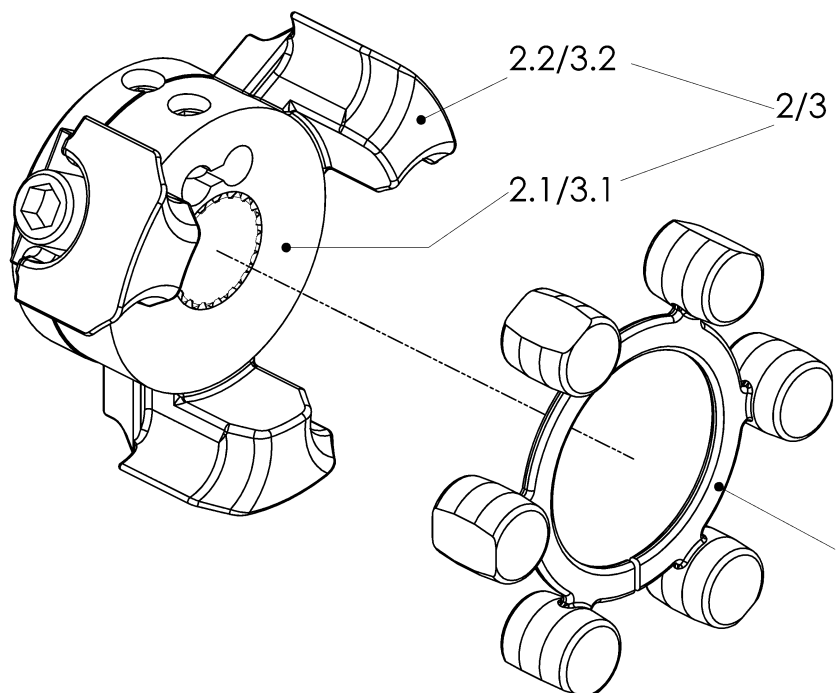


Fig. 6-3 Mounting the elastic element

Item	Info	Designation	Remark
1		Elastic element	
2/3		Hub assembly	
2.1/3.1		Hub	
2.2/3.2		Claw	

- Push the elastic element (1) onto the claws (2.2/3.2) of a hub assembly (2/3).

6.5 Connecting the driving and the driven side

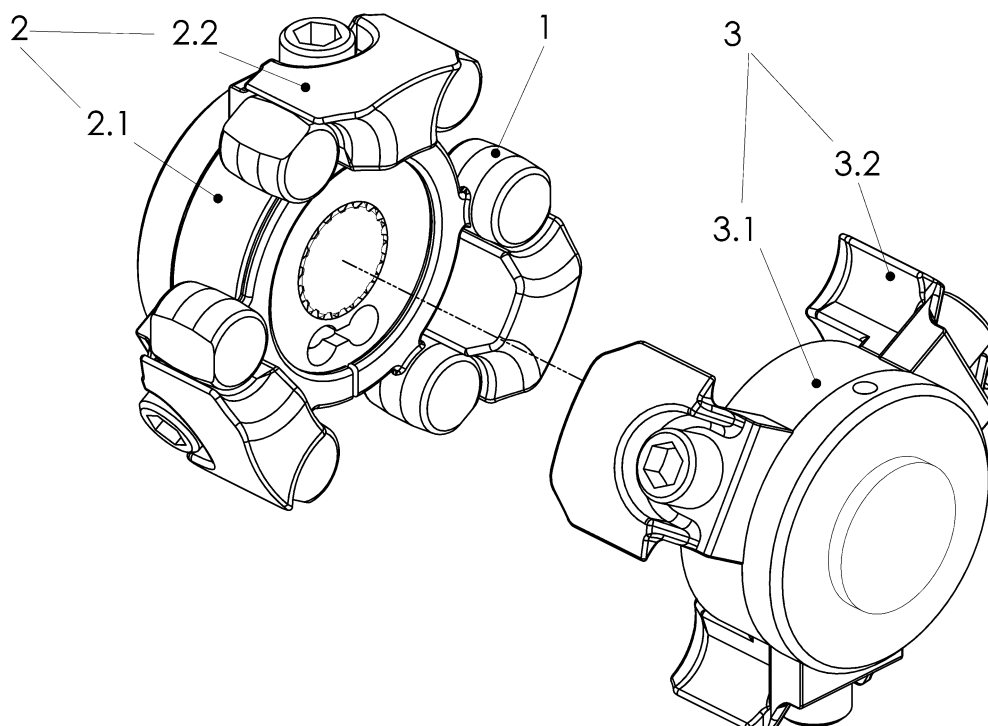


Fig. 6-4 Connecting the driving and the driven side

Item	Info	Designation	Remark
1		Elastic element	
2/3		Hub assembly	
2.1/3.1		Hub	
2.2/3.2		Claw	

- Turn the hub assemblies (2 und 3) so that the elastic element (1) can be pushed into the claws (2.2/3.2) of the second hub assembly (2/3) too.
- Push the hub assemblies (2 und 3) together. By doing this ensure that the units being connected are within the permissible misalignment values of the coupling. The axial installation dimension is shown in the installation drawing.
- Screw the driving and the driven unit together according to the manufacturer's instructions.

6.6 After completed mounting

WARNING	
	Death, serious injuries or material damages can occur as result of: ▪ Loose screw connections Before commissioning, check the tightening torque level of all screws and correct it, if necessary.

6.7 Mounting the protective enclosure (if necessary)

- Mount the prepared protective enclosure.

6.8 Test run

- Before commencing long-term operation, carry out a test run of the plant.

7 Operation

NOTICE


Material damage can occur as a result of:

- Worn coupling components

If the running noises change and/or vibrations occur turn the plant off immediately.

Determine the fault and its root cause, and remedy.
The troubleshooting process is simplified by the table in the next chapter.
On principle in case of a fault, an analysis of the entire plant should be performed.

7.1 Operating faults, root causes and remedy

Faults	Possible root causes	Remedy
Prior to all kinds of remedies		• Switch off the plant
Running noises or vibrations in the unit	Alignment error	• Check alignment and correct, if necessary
	Loose screws	• Check screw torque levels and correct, if necessary
	Defective elastic elements	• Replace the elastic elements • Check alignment and correct, if necessary
Fracture of elastic element(s)	Alignment error	• Check alignment and correct
	Inadmissibly high torque	• Replace defective parts • Eliminate the cause for inadmissibly high torque
After all remedies		• Trial run

Table 7-1 Troubleshooting table

In case of uncertainty or if you have questions, please contact our head office (address see chapter 1).

7.2 Admissible overall misalignment of the coupling

The overall misalignment values can be found in the catalogue.

8 Care and maintenance

DANGER

**Death and serious injuries occur as result of:**

- Contact with rotating parts

Before starting work at the coupling, switch off the plant and secure against unintentional start-up.

The coupling requires low maintenance. It is possible to perform a visual inspection during the regular scheduled maintenance intervals for the complete unit. Every 12 months a visual inspection is strictly required.

8.1 Work to be performed

8.1.1 Cleaning the coupling

- Remove any loose dirt from the coupling.

8.1.2 Visual inspection of the coupling

- Inspect the coupling for cracks, chips or missing parts.
- Replace faulty and missing parts.

8.1.3 Visual inspection of the elastic element/-s

**IMPORTANT**

Exchange the elastic element/-s in the event of damage.

- Check the elastic element/-s for damage.

8.1.4 Inspection of the screw connections

- Check the tightening torque levels of all screws and if necessary, correct.

8.2 Replacing defective parts

- Remove the coupling as described in chapter 9.
- Replace wearing parts.
- Mount the coupling as described in chapter 6.

9 Dismantling

9.1 General dismantling instructions

Any work method which impairs the safety of the coupling is prohibited.
The user undertakes to notify the manufacturer immediately of any changes occurring at the coupling which could impair safety (address see chapter 1).

DANGER	
	Death and serious injuries occur as result of: Contact with rotating parts Before starting work at the coupling, switch off the plant and secure against unintentional start-up.
DANGER	
	Death or serious injuries occur as result of: - Incorrect transportation of the coupling or of parts of the coupling during assembly/dismantling - Falling down or tipping over of the coupling or of parts of the coupling during assembly/dismantling Carefully and appropriately transport the coupling or coupling parts during the assembly/dismantling with suitable lifting devices. During the assembly/dismantling also protect all parts against falling down or tipping over. Comply with applicable accident prevention regulations.
NOTICE	
	Material damages of coupling parts can occur as result of: - Incorrect transportation, - falling down, - tipping over or - contact with sharp-edged objects Carefully and appropriately transport the coupling and coupling parts during the assembly/dismantling with suitable lifting devices. Always protect coupling components for transportation. Only hoist coupling parts with nylon belts or ropes. During the assembly/dismantling also protect all parts against falling down or tipping over. Always cushion parts when supporting them from below. Comply with applicable accident prevention regulations.



NOTICE



Material damage can occur as result of:

- Dismantling of the coupling in the wrong sequence

Only ever assemble the coupling in the sequence described in this chapter.

9.2 Replacing the elastic element

9.2.1 Dismantling the claws (2.2 and 3.2)

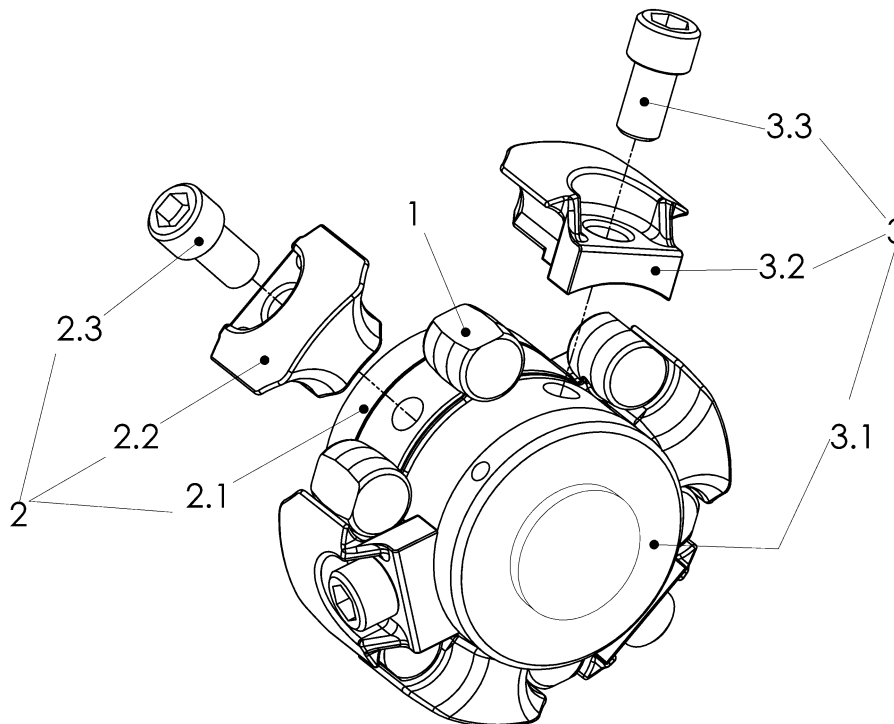


Fig. 9-1 Dismantling the claws (2.2 and 3.2)

Item	Info	Designation	Remark
1		Elastic element	
2		Hub assembly	
2.1		Hub	
2.2		Claw	
2.3		Screw ISO4762 M... 8.8 MK for sizes 00072...00165 Screw ISO6912 M20X035 10.9 MK for size 00185	
3		Hub assembly	
3.1		Hub	
3.2		Claw	
3.3		Screw ISO4762 M... 8.8 MK for sizes 00072...00165 Screw ISO6912 M20X035 10.9 MK for size 00185	



- Dismantle all claws (2.2 and 3.2) one after the other from the hub assemblies (2 and 3):
Loosen the screw (2.3/3.3) of the connection claw (2.2/3.2) and hub (2.1/3.1) and remove it with the claw (2.2/3.2).

9.2.2 Replacing the elastic element

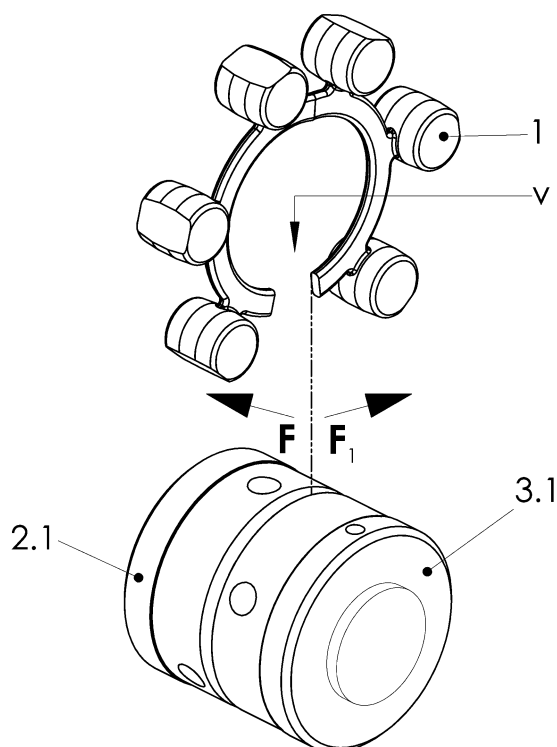


Fig. 9-2 Dismantling the elastic element

Item	Info	Designation	Remark
1		Elastic element	
2		Hub	
3		Hub	
F/F ₁		Tensile direction	
v		Split-line	

- Remove the **old** elastic element (1):
 - Pull the **old** rubber element (1) at the split line in the direction (F/F₁), until you can pull it from the hubs (2.1 and 3.1) and
 - remove it from the hubs (2.1 and 3.1).
- Mount the **new** elastic element (1):
 - Pull the **new** rubber element (1) at the split line in the direction (F/F₁), until you can push it over the hubs (2.1 and 3.1) and
 - push it over the hubs (2.1 and 3.1).

9.2.3 Mounting the claws (2.2 and 3.2)

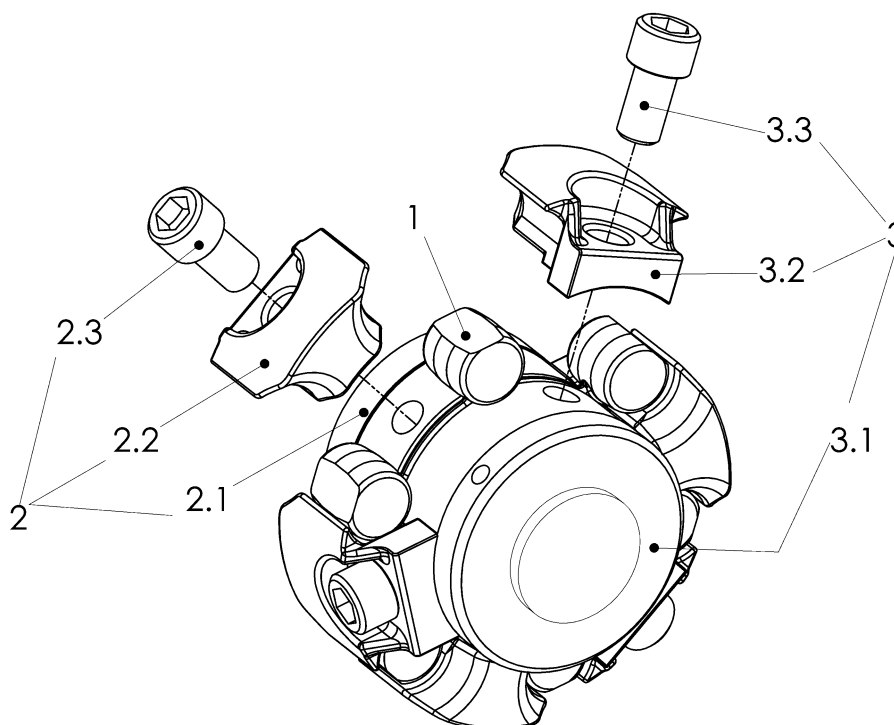


Fig. 9-3 Mounting the claws (2.2 and 3.2)

Item	Info	Designation	Remark
1		Elastic element	
2		Hub assembly	
2.1		Hub	
2.2		Claw	
2.3		Screw ISO4762 M... 8.8 MK for sizes 00072...00165 Screw ISO6912 M20X035 10.9 MK for size 00185	
3		Hub assembly	
3.1		Hub	
3.2		Claw	
3.3		Screw ISO4762 M... 8.8 MK for sizes 00072...00165 Screw ISO6912 M20X035 10.9 MK for size 00185	



IMPORTANT

Exclusively use **new** screws supplied by CENTA.
These are coated with microencapsulated adhesive which serves as a screw locking medium.

- Mount all claws (2.2 and 3.2) one after the other to the hub assemblies (2 and 3):
Screw the claw (2.2/3.2) to the hub (2.1/3.2) using the screw (2.3/3.3).

9.3 Dismantling the coupling

9.3.1 Separating the driving and the driven side

See Fig. 6-4:

- Pull apart the hub assemblies (2 and 3).

9.3.2 Dismantling the elastic element

See Fig. 6-3:

- Remove the elastic element (1) from the claws (2.2/3.2) of the hub assembly (2 or 3).

9.3.3 Dismantling the hub assemblies (2/3)

- Dismantle both hub assemblies (2/3) as appropriate for the supplied design (see installation drawing):
 - Dismantling the hub assembly (2/3) with cylindrical bore and keyway, see chapter 9.3.3.1
 - Dismantling the hub assembly (2/3) with CENTALOC clamping, see chapter 9.3.3.2.

9.3.3.1 Dismantling the hub assembly (2/3) with cylindrical bore and keyway

See Fig. 6-1:

- Loosen the threaded pin (2.4/3.4), remove it out of the hubs (2.3/3.1) and store it temporarily.
- Remove the hub assembly (2/3) from the shaft (A/B).

9.3.3.2 Dismantling the hub assembly (2/3) with CENTALOC clamping

See Fig. 6-2:

- Loosen the threaded pins (2.4/3.4), remove them out of the hubs (2.3/3.1) and store them temporarily.
- Remove the hub assembly (2/3) from the shaft (A/B).

9.3.4 Reassembling the coupling

- Reassemble the coupling as described in chapter 6.

10 Wearing and spare parts

WARNING



Serious injuries and material damages can occur as result of:

- Mounting and/or utilization of non-original CENTA parts

Only use CENTA original parts.

Never use parts from other manufacturers.

A stock of the most important wearing and spare parts is the most important condition to ensure that the coupling is functional and ready for operation at all times.

We only provide a warranty for CENTA original parts.

Wearing part/-s of this coupling:

- Elastic element



IMPORTANT

When exchanging, all screw connections of the elastic elements must be renewed. These must be ordered separately.



IMPORTANT

Exclusively use **new** screws supplied by CENTA. These are coated with microencapsulated adhesive which serves as a screw locking medium.

When ordering a spare, specify:

- Order no.
- Coupling order no.
- Drawing no.



11 Annex

11.1 CENTA data sheet D013-019 (screw connections with microencapsulated screw locking medium)

Validity:

For all non-dynamically stressed screw connections with **screws*** in accordance with ISO 4014, ISO 4017, ISO 4762 (DIN 912) and ISO 6912 with metric standard thread in accordance with DIN ISO 262 and **socket bolts*** with metric standard thread in accordance with DIN ISO 262, unless other specifications are given on CENTA documents.

* The threads are coated with microencapsulated screw locking medium.

Preparation of parts that are to be screwed together:

The joining areas must be free of dirt, preservatives and lubricants.

Preparation of screws with microencapsulated screw locking medium:

Give the screws extra lubrication with grease under the screw head.

Screw tightening method:

Screw in (by hand with torque wrench).

Curing time for the microencapsulated screw locking medium:

To ensure optimum screw locking, after tightening the curing time for the microencapsulated screw locking medium must be observed:

- Appr. 4-5 hours at room temperature (20°C)
- Higher temperatures will accelerate the curing time (e.g. 15 minutes at 70°C created by a hot air blower)

After 24 hours, the microencapsulated screw locking medium is completely cured.

Thread size	Strength class	Tightening torques			Thread size	Strength class	Tightening torques	
		[Nm] ±5%	[in Ibs] ±5%				[Nm] ±5%	[in Ibs] ±5%
M6	8.8	10	90		M18	10.9	300	2650
M8		25	220		M20		500	4450
M10		50	440				610**	5400**
M12		85	750		M22		820	7250
M14		140	1250		M24		1050	9300
M16		220	1950		M27		1550	13700

** only for: CENTAFLEX-A size 400
CENTAFLEX-T size 36x/46x



11.2 CENTA data sheet D007-900

Declaration of incorporation according to the EC Machinery Directive 2006/42/EC, Appendix II B

Manufacturer:

**CENTA Antriebe
Kirschey GmbH**
Bergische Straße 7
42781 Haan / GERMANY

Contact:

Phone +49-2129-912-0
Fax +49-2129-2790
centa@centa.de
www.centa.info

We herewith declare that the **incomplete** machine

Product: Elastic coupling CENTAFLEX-B

Model / series code: CF-B / 0070

Installation size: 72...185

Design: all

Serial number: according to shipping documents, if applicable

- provided this is possible as far as the scope of supply is concerned - complies with the following basic requirements of the **Machinery Directive 2006/42/EC** Appendix I, subchapters 1.1.2, 1.1.3, 1.1.5, 1.3.2, 1.3.3, 1.3.4 und 1.5.4.

In addition, we declare that the special technical documents for this incomplete machine were compiled according to Appendix VII Part B and undertake to forward these to the market monitoring authorities by request via our "Documentation Department".

Commissioning of the incomplete machine is interdicted until the incomplete machine has been incorporated in a machine and the latter complies with the provisions of the EC Machinery Directive and the EC Declaration of Conformity according to Appendix II A is on hand.

The declaration is invalidated by every modification to the delivered parts.

Authorised representative for the compilation of the relevant technical documents:

i.A. J. Anderseck

by order of Gunnar Anderseck
(Authorised Person Documentation)

Declaration of incorporation was issued:

i.v. J. Exner

Haan, 11.12.2009

by proxy Dipl.-Ing. Jochen Exner
(Design Management)