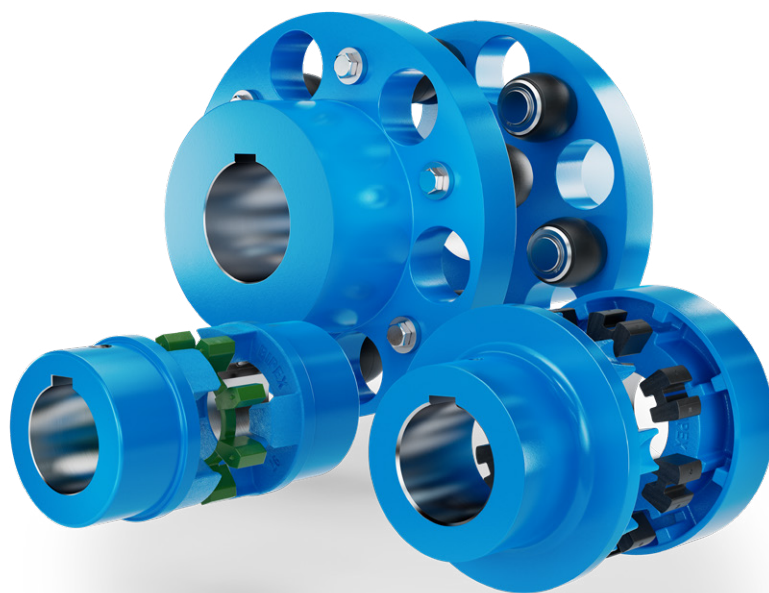


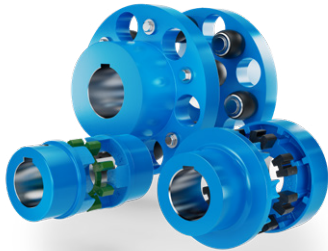
FLENDER COUPLINGS  
CATALOG **FLE 10.2**  
EDITION 2026 EN



FLEXIBLE COUPLINGS  
N-EUPEX, RUPEX AND BIPEX



# FLEXIBLE COUPLINGS



Catalog FLE 10.2 Edition 2026 EN

## Introduction

Torsionally Rigid Gear Couplings

N-ZAPEX XW

N-ZAPEX XN

Torsionally Rigid All-Steel Couplings

N-ARPEX, ARPEX

## Flexible Couplings

N-EUPEX

RUPEX

BIPEX

Highly Flexible Couplings

ELPEX-B

ELPEX-S

ELPEX

Fluid Couplings

FLUDEX

Backlash-free Couplings

SIPEX

BIPEX-S

Rigid Couplings

SKZF

## Appendix

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A

# FLE 10 CATALOG GROUP



Product catalog FLE 10.1  
FLEX-C10001-00-7600  
**Torsionally Rigid Couplings**



Product catalog FLE 10.3  
FLEX-C10003-00-7600  
**Highly Flexible Couplings**



Product catalog FLE 10.2  
FLEX-C10001-00-7600  
**Flexible Couplings**



Product catalog FLE 10.4  
FLEX-C10004-00-7600  
**Fluid Couplings**

For further coupling catalogs, see page A/6

FLENDER COUPLINGS  
CATALOG **FLE 10.5**  
EDITION EN



HIGH PERFORMANCE COUPLINGS  
ARPEX

[flender.com](http://flender.com)

**FLENDER**

Product catalog FLE 10.5  
FLEX-C10120-00-7600  
**High Performance Couplings**

FLENDER-COUPLINGS  
CATALOG **FLE 10.7**  
EDITION EN



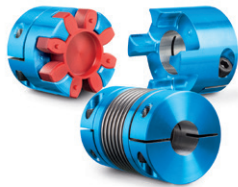
SAFETY COUPLINGS  
ARPEX

[flender.com](http://flender.com)

**FLENDER**

Product catalog FLE 10.7  
FLEX-C10122-00-7600  
**Safety couplings**

FLENDER COUPLINGS  
CATALOG **FLE 10.6**  
EDITION EN



BACKLASH-FREE COUPLINGS  
SIPEX AND BIPEX-S

[flender.com](http://flender.com)

**FLENDER**

Product catalog FLE 10.6  
FLEX-C10121-00-7600  
**Backlash-free couplings**

# INTRODUCTION

E

The mechanical drive train comprises individual units such as motor, gear unit and driven machine. The coupling connects these component assemblies.

As well as the transmission of rotary motion and torque, other requirements may be made of the coupling.

- Compensation for shaft misalignment with low restorative forces
- Control of characteristic angular vibration frequency and damping
- Interruption or limitation of torque
- Noise insulation, electrical insulation

Couplings are frequently chosen after the machines to be connected have already been selected. Thanks to a large number of different coupling assembly options, specified marginal conditions for clearance and connection geometry can be met from the standard range. The coupling also performs secondary functions, e.g. providing a brake disk or brake drum for operating or blocking brakes, devices to record speed or the attachment of sprockets or pulleys.

Couplings are divided into two main groups, couplings and clutches.

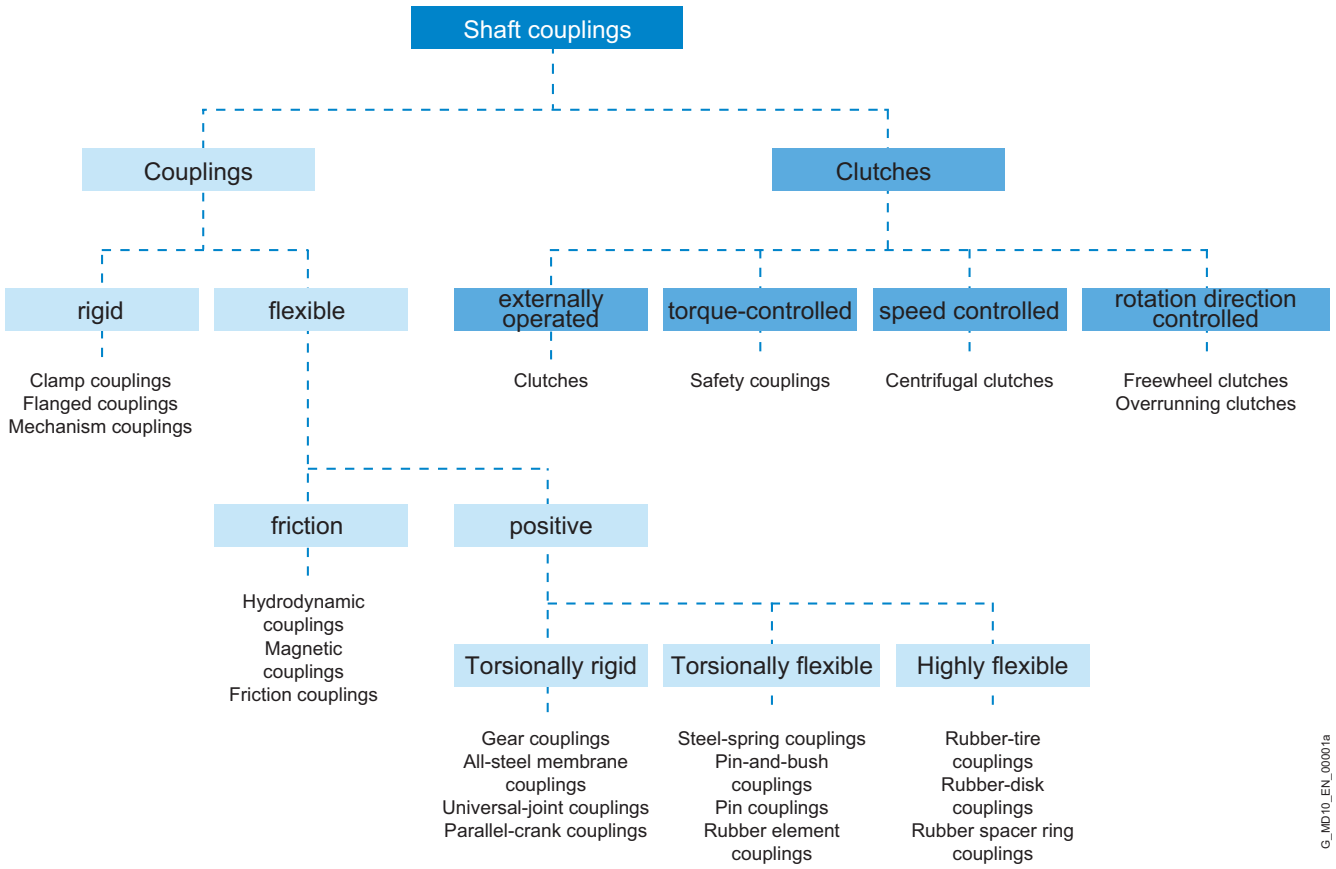
Clutches interrupt or limited the transmissible torque. The engaging and disengaging forces on externally operated clutches are introduced via a mechanically, electrically, hydraulically or pneumatically operating mechanism. Overload, centrifugal or freewheel clutches draw their engaging energy from the transmitted output.

Rigid couplings, designed as clamp, flanged or mechanism couplings, connect machines which must not undergo any shaft misalignment. Hydrodynamic couplings, often also called fluid or Föttinger couplings, are used as starting couplings in drives with high mass moments of inertia of the driven machine. In drive technology very often flexible, positive couplings, which may be designed to be torsionally rigid, torsionally flexible or highly flexible, are used.

Torsionally rigid couplings are designed to be rigid in a peripheral direction and flexible in radial and axial directions. The angle of rotation and torque are conducted through the coupling without a phase shift.

Torsionally flexible couplings have resilient elements usually manufactured from elastomer materials. Using an elastomer material with a suitable ShoreA hardness provides the most advantageous torsional stiffness and damping for the application. Shaft misalignment causes the resilient elements to deform.

Highly flexible couplings have large-volume (elastomer) resilient elements of low stiffness. The angle of rotation and torque are conducted through the coupling with a considerable phase shift.



G\_MD10\_EN\_00001a

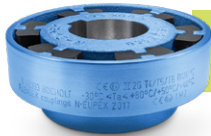
# OUR COUPLING GROUPS AT A GLANCE

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N-EUPEX, RUPEX and BIPEX

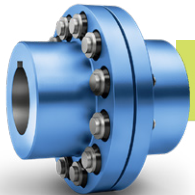
## Flexible Couplings

Flexible Flender couplings have a wide range of possible applications. A broad standard modular system as well as specially designed application-specific couplings are available.



AIQ Detect ready

**N-EUPEX**  
cam couplings  
Rated torque:  
12 Nm ... 93,500 Nm



AIQ Detect ready

**RUPEX**  
pin-and-bush couplings  
Rated torque:  
120 Nm ... 1,690,000 Nm

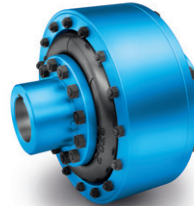


**BIPEX**  
cam couplings  
Rated torque:  
21 Nm ... 5,100 Nm

ELPEX, ELPEX-B and ELPEX-S

## Highly Flexible Couplings

ELPEX® couplings are free of circumferential back-lash. Their damping capacity and low torsional stiff-ness make them especially well-suited for coupling machines with strongly non-uniform torque characteristics or large shaft misalignment.



**ELPEX**  
elastic ring couplings  
Rated torque:  
1,600 Nm ... 90,000 Nm



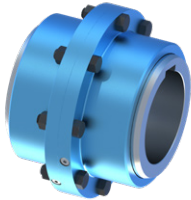
**ELPEX-B**  
elastic tire couplings  
Rated torque:  
57 Nm ... 19,000 Nm



**ELPEX-S**  
rubber disk couplings  
Rated torque:  
200 Nm ... 63,000 Nm

N-ZAPEX gear couplings and ARPEX all-steel couplings  
**Torsionally rigid couplings**

For transmission of high torques, we offer both ARPEX all-steel couplings and N-ZAPEX gear couplings in a range of versions. Their purposes of application vary according to specific requirements with respect to shaft misalignment, temperature and torque.



**N-ZAPEX**  
 gear couplings  
 Rated torque:  
 1,400 Nm ... 10,000,000 Nm



**ARPEX**  
 high performance couplings  
 Rated torque:  
 1,100 Nm ... 936,000 Nm

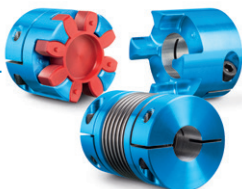


**N-ARPEX and ARPEX**  
 all-steel couplings  
 Rated torque:  
 92 Nm ... 2,000,000 Nm

BIPEX-S and SIPEX

**Backlash-free couplings**

The vibration-damping, electrically insulating plug-in BIPEX-S elastomer couplings and SIPEX metal bellows couplings with very high torsional stiffness deliver especially isogonal torque transmission.



**BIPEX-S and SIPEX**  
 Rated torque:  
 0.1 Nm ... 5,000 Nm

FLUDEX

**Hydrodynamic couplings**

The FLUDEX hydrodynamic fluid coupling works according to the Föttinger principle. It functions entirely free of wear.



**FLUDEX**  
 fluid couplings  
 Power:  
 1.2 kW ... 2,500 kW

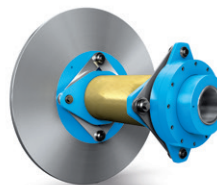
**Application-specific couplings**

Couplings for rail vehicles must meet high demands. Due to their high degree of standardization and wide variety, they can be used in the most diverse vehicle types.



**Railway coupling**  
 Rated torque:  
 1,000 Nm ... 9,500 Nm

Each wind turbine coupling is designed to optimally meet the requirements of the respective wind turbine. The coupling connects the fast-running gear shaft with the generator shaft and is available for wind turbines with a capacity of up to 12 MW.

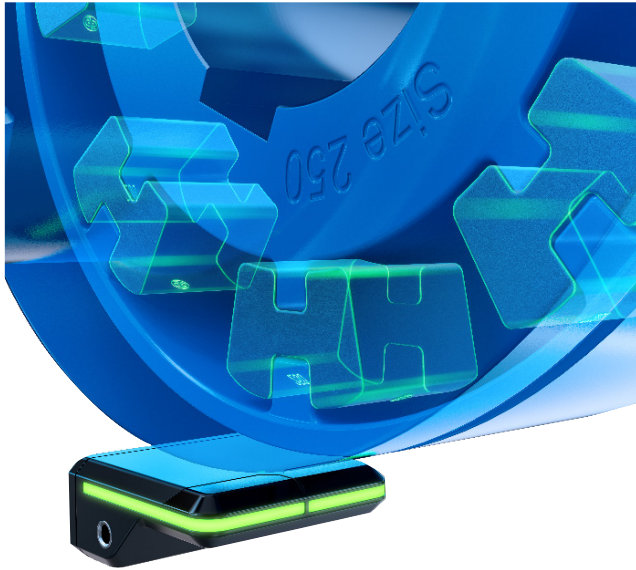


**Wind turbine couplings**  
 Rated torque:  
 10,000 Nm ... 60,000 Nm

# AIQ DETECT

for wear detection on the N-EUPEX and RUPEX

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The AIQ Detect uses several Hall sensors to determine the wear on the flexible Flender couplings of the N-EUPEX and RUPEX via sensor magnets installed on the coupling side. The progressive wear of the elastomer components of the RUPEX and N-EUPEX results in a torsion angle between the coupling halves. This angle of rotation and the resulting time difference between the coupling halves make it possible to detect the degree of wear of the RUPEX and N-EUPEX flexible couplings. The speed of the coupling is also determined.

This information can be evaluated in the customer's control system via analogue and digital outputs that can be configured by the customer. The AIQ Detect also enables the wear status to be output via the built-in LED light strip on the sensor (green = the wear status is OK, yellow = the elastomer components must be replaced, red = the drive-train must be stopped). This information can also be analyzed and displayed via a Bluetooth interface with a mobile device using the AIQ app.

## Benefits:

- Continuous wear monitoring
- Coupling status at a glance
- Prevents system failures = maximum operational reliability
- Supports service and maintenance personnel
- Waste reduction (replacement of elastomers only if necessary)
- No annual testing of elastomers necessary
- Flexible and easy to use

## Functions:

- Detects wear on elastomers
- Speed measurement
- Remaining life forecast
- Coupling failure detection
- Configurable output signals
- Firmware upgrades via AIQ app

Coupling	Types	Size	Article No.
N-EUPEX	A, B, H	80 – 140	F2E01528467
		160 – 280	F2E01528468
		315 – 710	F2E01528469
RUPEX	RWN, RWS	105 – 1120	F2E01528472
		1250 – 2000	F2E01528473

**Notes**

- The AIQ Detect is used for continuous wear monitoring of Flender N-EUPEX and RUPEX couplings and can be ordered as an accessory to the coupling
- Make sure that the Flender coupling has the 'AIQ Detect-ready' status (see ordering example)

**Ordering example**

- N-EUPEX coupling A, size 110 with the status "AIQ Detect-ready" (Article No. addition A99)
- AIQ Detect for wear monitoring of N-EUPEX coupling A, size 110

Article No. N-EUPEX: 2LC0170-4AB99-0AA0-Z L0M+M0P+A99

Article No. AIQ Detect: F2E01528467 (according to the table)



# TECHNICAL INFORMATION AND COUPLING SELECTION

<b>Technical information</b>	<b>E/12</b>
Shaft misalignment	E/12
Balancing	E/13
Shaft-hub connections	E/15
Standards	E/16
Key to symbols	E/17
<b>Selection of the coupling series</b>	<b>E/18</b>
Typical coupling solutions for different example applications	E/19
<b>Selection of the coupling size</b>	<b>E/20</b>
Coupling load in continuous operation	E/20
Coupling load at maximum and overload conditions	E/21
Coupling load due to dynamic torque load	E/21
Checking the maximum speed	E/21
Checking permitted shaft misalignment	E/22
Checking bore diameter, mounting geometry and coupling design	E/22
Coupling behavior under overload conditions	E/22
Checking shaft-hub connection	E/22
Checking low temperature and chemically aggressive environment	E/22
<b>Features of the standard type</b>	<b>E/23</b>

# TECHNICAL INFORMATION

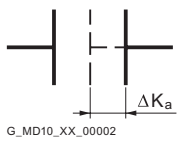
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## Shaft misalignment

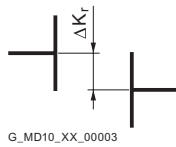
Shaft misalignment is the result of displacement during assembly and operation and, where machines constructed with two radial bearings each are rigidly coupled, will cause high loads being placed on the bearings. Elastic deformation of base frame, foundation and machine housing will lead to shaft misalignment which cannot be prevented, even by precise alignment.

Furthermore, because individual components of the drive train heat up differently during operation, heat expansion of the machine housings causes shaft misalignment. Poorly aligned drives are often the cause of seal, rolling bearing or coupling failure. Alignment should be carried out by specialist personnel in accordance with operating instructions.

Depending on the direction of the effective shaft misalignment a distinction is made between:



Axial misalignment



Radial misalignment



Angular misalignment

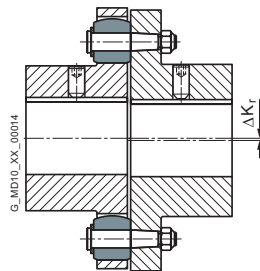
Couplings can be categorized into one of the following groups:

### Single-joint couplings

Couplings with flexible elements mainly made of elastomer materials. Shaft misalignment results in deformation of the elastomer elements. The elastomer elements can absorb shaft misalignment as deformations in an axial, radial and angular direction. The degree of permissible misalignment depends on the coupling size, the speed and the type of elastomer element. Single-joint couplings do not require an adapter and are therefore short versions.

**Example:**

In the case of a RUPLEX RWN 198 coupling with an outer diameter of 198 mm and a speed of 1500 rpm, the permitted radial misalignment is  $\Delta K_r = 0.3$  mm.

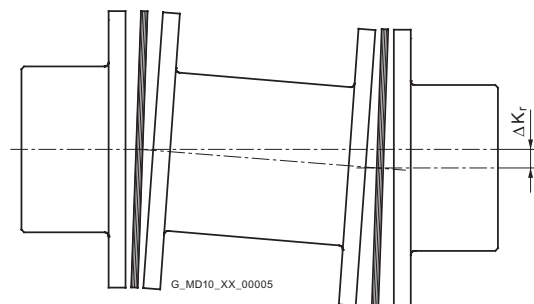


### Two-joint couplings

Two-joint couplings are always designed with an adapter. The two joint levels are able to absorb axial and angular misalignment. Radial misalignment occurs via the gap between the two joint levels and the angular displacement of the joint levels. The permitted angular misalignment per joint level is frequently about  $0.5^\circ$ . The permitted shaft misalignment of the coupling can be adjusted via the length of the adapter. If there are more than two joint levels, it is not possible to define the position of the coupling parts relative to the axis of rotation. (The less frequently used parallel-crank couplings are an exception).

**Example:**

N-ARPEX ARN-6 NEN 217-6 with a shaft distance of 140 mm with a permitted radial misalignment of  $\Delta K_r = 2.2$  mm [angle per joint level  $1.0^\circ$ ].



## Balancing

### Balance quality levels

The so-called quality level G to DIN ISO 21940 indicates a range of permitted residual imbalance from zero up to an upper limit. Applications can be grouped on the basis of similarity analysis. For many applications a coupling balance quality of G 16 is sufficient. On drives susceptible to vibration the balance quality should be G 6.3. Only in special cases is a better balance quality required.

### Balancing standard in accordance with DIN ISO 21940-32

Besides the required balance quality, it is necessary to set standards which define how the mass of the parallel key is to be taken into consideration when balancing. In the past, motor rotors have frequently been balanced in accordance with the full parallel key standard. The "appropriate" balance condition of the coupling hub was described as "balancing with open keyway" or "balancing after keyseating". Today it is usual for the motor rotor, as well as the gear unit and driven machine shaft, to be balanced in accordance with the half parallel key standard.

### Full parallel key standard

The parallel key is inserted in the shaft keyway, then balancing is carried out. The coupling hub must be balanced without parallel key after keyseating.

Marking of shaft and hub with "F" (for "full").

### Half parallel key standard

The balancing standard normally applied today. Before balancing, a half parallel key is inserted in the shaft and another in the coupling hub. Alternatively, balancing can be carried out before cutting the keyway.

The balanced parts must be marked with an "H". This marking can be dispensed with if it is absolutely clear which parallel key standard has been applied.

### No parallel key standard

Balancing of shaft and coupling hub after keyseating, but without parallel key. Not used in practice. Marking of shaft and hub with "N" (for "no").

The length of the parallel key is determined by the shaft keyway. Coupling hubs may be designed considerably shorter than the shaft.

To prevent imbalance forces caused by projecting parallel key factors when balancing in accordance with the half parallel key standard in the case of applications with high balancing quality requirements, grooved spacer rings can be fitted or stepped parallel keys used.

### Flender Balancing Standard

The balancing quality level, together with the operating speed, results in the maximum permissible eccentricity of the center of gravity of the coupling or the coupling sub-assembly. In the Flender article number the balancing quality can be preset with the help of the order code. Additionally, also the balance quality level to DIN ISO 21940 can be preset together with the operating speed belonging to it, which then be taken as priority.

Eccentricity of center of gravity of coupling $e_{\text{coupl}}$	Flender balancing quality	Order code
maximum 100 $\mu\text{m}$	standard balancing	without specification
maximum 40 $\mu\text{m}$	fine balancing	W02
maximum 16 $\mu\text{m}$	micro-balancing	W03
better than 16 $\mu\text{m}$	special balancing	on request

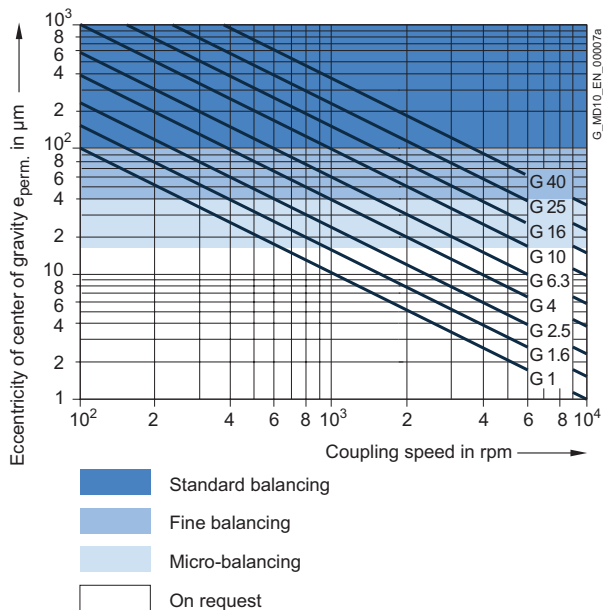
$$e_{\text{perm}} = 9550 \cdot \frac{G}{n}$$

$$e_{\text{coupl}} \leq e_{\text{perm}}$$

Permitted eccentricity of center of gravity	$e_{\text{perm}}$	in $\mu\text{m}$
Eccentricity of center of gravity of coupling	$e_{\text{coupl}}$	in $\mu\text{m}$
Balancing quality level	G	in mm/s
Coupling speed	n	in rpm

# TECHNICAL INFORMATION

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Example:

Coupling speed = 1450 rpm  
 required balancing quality level G 6.3

$$e_{perm} = 9550 \cdot \frac{G}{n} = 9550 \cdot \frac{6.3}{1450} \mu\text{m}$$

Thus, the required eccentricity of center of gravity is 41.5 µm. The fine balancing with a maximum eccentricity of center of gravity of 40 mm fulfills this requirement; therefore, the order code W02 has to be specified when ordering.

For many applications the following balancing quality recommendation applies:

Coupling	standard balancing $v = DA \cdot n/19100$	fine balancing
short version with $LG \leq 3 \times DA$	$v \leq 30 \text{ m/s}$	$v > 30 \text{ m/s}$
long version with $LG > 3 \times DA$	$v \leq 15 \text{ m/s}$	$v > 15 \text{ m/s}$

Peripheral speed	v	in mm/s
Coupling outer diameter	DA	in mm
Coupling speed	n	in rpm
Coupling length	LG	in mm

The following standards on balancing must be observed:

- couplings are balanced in subassemblies.
- hub parts without finished bore are unbalanced.
- the number of balancing levels (one- or two-level balancing) is specified by Flender.
- without special specification balancing is done in accordance with the half-parallel-key standard. Balancing in accordance with the full-parallel-key standard must be specified in the order number.
- For FLUDEX couplings special balancing standards specified in Section 13 apply.
- ARPEX couplings in standard balancing quality are unbalanced. Thanks to steel components machined all over and precisely guided adapters the balancing quality of standard balancing is nearly always adhered to.

## Shaft-hub connections

The bore and the shaft-hub connection of the coupling are determined by the design of the machine shaft. In the case of IEC standard motors, the shaft diameters and parallel key connections are specified in accordance with DIN EN 50347. For diesel motors, the flywheel connections are frequently specified in accordance with SAE J620d or DIN 6288. Besides the very widely used connection of shaft and hub with parallel keys to DIN 6885 and cylindrically bored hubs, couplings with Taper clamping bushes, clamping sets, shrink-fit connections and splines to DIN 5480 are common.

The form stability of the shaft/hub connection can only be demonstrated when shaft dimensions and details of the connection are available. The coupling torques specified in the tables of power ratings of the coupling series do not apply to the shaft-hub connection unrestrictedly.

In the case of the shaft-hub connection with parallel key, the coupling hub must be axially secured, e.g. with a set screw or end washer. The parallel key must be secured against axial displacement in the machine shaft.

All Flender couplings with a finished bore and parallel keyway are designed with a set screw. Exceptions are some couplings of the FLUDEX series, in which end washers are used. During assembly, Taper clamping bushes are frictionally connected to the machine shaft.

# TECHNICAL INFORMATION

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## Standards

### Machines

2006/42/EG	EC Machinery Directive
2014/34/EU	ATEX Directive – Manufacturer
1999/92/EG	ATEX Directive – Operator – and ATEX Guideline to Directive 1999/92/EC
DIN EN 80079-36	Non-electrical equipment for use in potentially explosive atmospheres
DIN EN 1127	Explosive atmospheres, explosion prevention and protection
DIN EN 50347	General-purpose three-phase induction motors having standard dimensions and outputs

### Couplings

DIN 740	Flexible shaft couplings Part 1 and Part 2
VDI Guideline 2240	Shaft couplings - Systematic subdivision according to their properties VDI Technical Group Engineering Design 1971
API 610	Centrifugal Pumps for Petroleum, Chemical and Gas Industry Services
API 671	Special Purpose Couplings for Petroleum, Chemical and Gas Industry Services
ISO 10441	Petroleum, petrochemical and natural gas industries – Flexible couplings for mechanical power transmission-special-purpose applications
ISO 13709	Centrifugal pumps for petroleum, petrochemical and natural gas industries

### Balancing

DIN ISO 21940	Requirements for the balancing quality of rigid rotors
DIN ISO 21940-32	Mechanical vibrations; standard governing the type of parallel key during balancing of shafts and composite parts

### Shaft-hub connections

DIN 6885	Driver connections without taper action – parallel keys – keyways
SAE J620d	Flywheels for industrial engines ...
DIN 6288	Reciprocating internal combustion engines Dimensions and requirements for flywheels and flexible couplings
ASME B17.1	Keys and keyseats
DIN EN 50347	General-purpose three-phase induction motors with standard dimensions and output data
BS 46-1:1958	Keys and keyways and taper pins Specification

## Key to symbols

Name	Symbols	Unit	Explanation
Torsional stiffness, dynamic	$C_{Tdyn}$	Nm/rad	For calculating torsional vibration
Excitation frequency	$f_{err}$	Hz	Excitation frequency of motor or driven machine
Moment of inertia	$J$	kgm <sup>2</sup>	Moment of inertia of coupling
Axial misalignment	$\Delta K_a$	mm	Axial misalignment of the coupling halves
Radial misalignment	$\Delta K_r$	mm	Radial misalignment of the coupling halves
Angular misalignment	$\Delta K_w$	°	Angular misalignment of the coupling halves
Service factor	FB		Factor expressing the real coupling load as a ratio of the nominal coupling load
Frequency factor	FF		Factor expressing the frequency dependence of the fatigue torque load
Temperature factor	FT		Factor taking into account the reduction in strength of flexible rubber materials at a higher temperature
Weight	$m$	kg	Weight of the coupling
Rated speed	$n_N$	rpm	Coupling speed
Maximum coupling speed	$n_{Kmax}$	rpm	Maximum permissible coupling speed
Rated power	$P_N$	kW	Rated output on the coupling, usually the output of the driven machine
Rated torque	$T_N$	Nm	Rated torque as nominal load on the coupling
Fatigue torque	$T_W$	Nm	Amplitude of the dynamic coupling load
Maximum torque	$T_{max}$	Nm	More frequently occurring maximum load, e.g. during starting
Overload torque	$T_{OL}$	Nm	Very infrequently occurring maximum load, e.g. during short circuit or blocking conditions
Rated coupling torque	$T_{KN}$	Nm	Torque which can be transmitted as static torque by the coupling over the period of use.
Maximum coupling torque	$T_{Kmax}$	Nm	Torque which can be frequently transmitted (up to 25 times an hour) as maximum torque by the coupling.
Coupling overload torque	$T_{KOL}$	Nm	Torque which can very infrequently be transmitted as maximum torque by the coupling.
Fatigue coupling torque	$T_{KW}$	Nm	Torque amplitude which can be transmitted by the coupling as dynamic torque at a frequency of 10 Hz over the period of use.
Resonance factor	$V_R$		Factor specifying the torque increase at resonance
Temperature	$T_a$	°C	Ambient temperature of the coupling in operation
Damping coefficient	$\Psi$	psi	Damping parameter

# SELECTION OF THE COUPLING SERIES

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The coupling series is frequently determined by the driven machine and the design of the drive train. Common selection criteria are listed below and assigned to coupling properties, which are used to select the coupling series. Additionally, the price of the coupling and availability are important criteria for determining the coupling series to be used.

The **FLUDEX series** operates positively and transmits the torque with the aid of a flowing oil or water filling.

FLUDEX couplings are used to reduce starting and/or overload torques. During starting, the motor may, for example, run up within a very short time; because of the FLUDEX coupling, the drive train with the driven machine may accelerate after a delay and without increased torque load.

The FLUDEX coupling cannot compensate for shaft misalignment and is therefore designed in combination with a displacement coupling, a cardan shaft or a belt drive. The displacement coupling may be selected in accordance with the criteria described below.

Selection criteria						
	Torque range	Speed range	Torsional stiffness		Highly flexible	Operating temperature range
	Rated coupling torque $T_{KN}$	Peripheral speed $v_{max} = DA \cdot n_{max}/19100$	torsionally rigid	torsionally flexible		
N-ZAPEX	1420 ... 10000000 Nm	60 m/s	■	-	-	-30 ... +80 °C
N-ARPEX	350 ... 2000000 Nm	110 m/s	■	-	-	-60 ... +280 °C
N-EUPEX	12 ... 93500 Nm	36 m/s	-	■	-	-60 ... +100 °C
N-EUPEX DS	19 ... 21200 Nm	36 m/s	-	■	-	-30 ... +80 °C
RUPEX	120 ... 1690000 Nm	60 m/s	-	■	-	-60 ... +100 °C
BIPEX	21 ... 5100 Nm	40 m/s	-	■	-	-50 ... +100 °C
ELPEX-B	57 ... 19000 Nm	45 m/s	-	-	■	-50 ... +70 °C
ELPEX-S	200 ... 63000 Nm	66 m/s	-	-	■	-40 ... +120 °C
ELPEX	1600 ... 90000 Nm	60 m/s	-	-	■	-40 ... +80 °C

## Typical coupling solutions for different example applications

The specified application factors are recommendations; regulations, rules and practical experience take priority as assessment criteria.

No application factor need be taken into account with FLUDEX couplings.

In the case of highly flexible couplings of the ELPEX, ELPEX-S and ELPEX-B series, deviating application factors are stated in the product descriptions. FLUDEX couplings are mostly mounted on the high-speed gear shaft.

Example applications	Application factor FB
<b>Electric motor without gear unit</b>	
Centrifugal pumps	1.0
Piston pumps	1.5
Vacuum pumps	1.5
Fans with $T_N$ less than 75 Nm	1.5
Fans with $T_N$ from 75 to 750 Nm	1.75
Fans with $T_N$ larger than 750 Nm	1.75
Blowers	1.5
Frequency converters / generators	1.25
Reciprocating compressors	1.75
Screw-type compressors	1.5
<b>Internal-combustion engine without gear unit</b>	
Generators	1.75
Pumps	1.5
Fans	1.75
Hydraulic pumps, excavators, construction machines	1.5
Compressors / screw-type compressors	1.5
Agricultural machinery	1.75
<b>Other</b>	
Turbine gear units	1.5
Hydraulic motor - gear unit	1.25
<b>Electric motor with gear unit</b>	
<b>Chemical industry</b>	
Extruders	1.5
Pumps - centrifugal pumps	1.0
Pumps - piston pumps	1.75
Pumps - plunger pumps	1.5
Reciprocating compressors	1.75
Calenders	1.5
Kneaders	1.75
Cooling drums	1.25
Mixers	1.25
Stirrers	1.25
Toasters	1.25
Drying drums	1.25
Centrifuges	1.25
Crushers	1.5
<b>Power generation and conversion</b>	
Compressed air, reciprocating compressors	1.75

Example applications	Application factor FB
Compressed air, screw-type compressors	1.25
Air - Blowers	1.5
Air - Cooling tower fans	1.5
Air - Turbine blowers	1.5
Generators, converters	1.25
Welding generators	1.25
<b>Metal production, iron and steel works</b>	
Plate tilters	1.5
Ingot pushers	1.75
Slabbing mill	1.75
Coiling machines	1.5
Roller straightening machines	1.5
Roller tables	1.75
Shears	1.75
Rollers	1.75
<b>Metal working machines</b>	
Plate bending machines	1.5
Plate straightening machines	1.5
Hammers	1.75
Planing machines	1.75
Presses, forging presses	1.75
Shears	1.5
Grinding machines	1.25
Punches	1.5
Machine tools: Main drives	1.5
Machine tools: Auxiliary drives	1.25
<b>Food industry</b>	
Filling machines	1.25
Kneading machines	1.5
Mashers	1.5
Sugar cane production	1.5
<b>Production machines</b>	
Construction machines, hydraulic pumps	1.25
Construction machines, traversing gears	1.5
Construction machines, suction pumps	1.5
Construction machines, concrete mixers	1.5
Printing machines	1.25
Woodworking - barking drums	1.5
Woodworking - planing machines	1.5

Example applications	Application factor FB
Woodworking - reciprocating saws	1.5
Grinding machines	1.5
Textile machines - winders	1.5
Textile machines - printing machines	1.5
Textile machines - tanning vats	1.5
Textile machines - shredders	1.5
Textile machines - looms	1.5
Packaging machines	1.5
Brick molding machines	1.75
<b>Transport and logistics</b>	
Passenger transport - elevators	1.5
Passenger transport - escalators	1.5
Conveyor systems - bucket elevators	1.5
Conveyor systems - hauling winches	1.5
Conveyor systems - belt conveyors	1.5
Conveyor systems - endless-chain conveyors	1.5
Conveyor systems - circular conveyors	1.5
Conveyor systems - screw conveyors	1.5
Conveyor systems - inclined hoists	1.5
Crane traversing gear	1.5
Hoisting gear	1.5
Crane lifting gear	2.0
Crane traveling gear	1.5
Crane slewing gear	1.5
Crane fly jib hoists	1.5
Cable railways	1.5
Drag lifts	1.5
Winches	1.5
<b>Cellulose and paper</b>	
Paper-making machines, all	1.5
Pulper drives	1.5
<b>Cement industry</b>	
Crushers	1.75
Rotary furnaces	1.5
Hammer mills	1.75
Ball mills	1.75
Pug mills	1.75
Mixers	1.5
Pipe mills	1.5
Beater mills	1.75
Separators	1.5
Roller presses	1.75

# SELECTION OF THE COUPLING SIZE

E

The torque load of the coupling must be determined from the output of the driven machine and the coupling speed.

$$\text{Rated coupling load } T_N = 9550 \times P_N / n_N$$

( $T_N$  in Nm;  $P_N$  in kW;  $n_N$  in rpm)

The rated coupling load obtained in this way must be multiplied by factors and compared with the rated coupling torque. An ideal but expensive method is to measure the torque characteristic on the coupling. For this, Flender

offers special adapters fitted with torque measuring devices.

The rated coupling torque  $T_{KN}$  is the torque which can be transmitted by the coupling over an appropriate period of use if the load is applied to the coupling purely statically at room temperature.

Application factors are to express the deviation of the real coupling load from the "ideal" load condition.

## Coupling load in continuous operation

The operating principles of the driving and driven machines are divided into categories and the application factor FB derived from these in accordance with DIN 3990-1.

### Application factor for N-EUPEX, N-EUPEX-DS, RUPEX, BIPEX, ELPEX-B, N-ARPEX, ARPEX, N-ZAPEX and FLUDEX

Application factor FB				
Torque characteristic of the driving machine	Torque characteristic of the driven machine			
	uniform	uniform with moderate shock loads	non uniform	very rough
uniform	1.0	1.25	1.5	1.75
uniform with moderate shock loads	1.25	1.5	1.75	2.0
non uniform	1.5	1.75	2.0	2.5

### Examples of torque characteristic of driving machines:

- uniform: Electric motors with soft starting, steam turbines
- uniform with moderate shock loads: Electric motors without soft starting, hydraulic motors, gas and water turbines
- non uniform: Internal-combustion engines

### Examples of torque characteristic in driven machines:

- uniform: Generators, centrifugal pumps for light fluids
- uniform with moderate shock loads: Centrifugal pumps for viscous fluids, elevators, machine tool drives, centrifuges, extruders, blowers, crane drives
- non uniform: Excavators, kneaders, conveyor systems, presses, mills
- very rough: Crushers, excavators, shredders, iron/smelting machinery

Temperature factor FT											
Coupling	Elastomer material	Low temperature °C	Temperature $T_a$ on the coupling								
			under -30 °C	-30 °C up to 50 °C	up to 60 °C	up to 70 °C	up to 80 °C	up to 90 °C	up to 100 °C	up to 110 °C	up to 120 °C
N-EUPEX	NBR	-50	1.0	1.0	1.0	1.0	1.0	1.0	-	-	-
N-EUPEX	NR	-60	1.0	1.0	-	-	-	-	-	-	-
N-EUPEX	HNBR	-10	-	1.0	1.0	1.0	1.0	1.0	1.25	1.25	-
N-EUPEX	TPU	-50	1.0	1.0	1.05	1.10	1.15	-	-	-	-
N-EUPEX DS	NBR	-30	-	1.0	1.0	1.0	1.0	1.0	-	-	-
RUPEX	NBR	-50	1.0	1.0	1.0	1.0	1.0	-	-	-	-
RUPEX	NR	-60	1.0	1.0	-	-	-	-	-	-	-
RUPEX	HNBR	-10	-	1.0	1.0	1.0	1.0	1.0	1.25	1.25	-
BIPEX	TPU	-50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.5
ELPEX	NR	-40	1.1	1.0	1.25	1.40	1.60	-	-	-	-
ELPEX-B	NR	-50	1.1	1.0	-	-	-	-	-	-	-
ELPEX-B	CR	-15	-	1.0	1.0	1.0	-	-	-	-	-
ELPEX-S SN, NN, WN	NR	-40	1.1	1.0	1.25	1.40	1.60	-	-	-	-

- NR = natural rubber, natural-synthetic rubber mixture
- NBR = nitril-butadiene-rubber (Perbunan)
- HNBR = hydrated acrylonitrile butadiene rubber
- CR = chloroprene rubber (FRAS fire-resistant and anti-static)
- TPU = polyurethane

$$\text{Coupling size } T_{KN} \geq T_N \cdot FB \cdot FT$$

In the case of ARPEX and N-ZAPEX coupling types, no temperature factor (FT = 1.0) need be taken into account.

### Coupling load at maximum and overload conditions

The maximum torque is the highest load acting on the coupling in normal operation. Maximum torques at a frequency of up to 25 times an hour are permitted and must be lower than the maximum coupling torque. Examples of maximum torque conditions are: Starting operations, stopping operations or usual operating conditions with maximum load.

$$T_{K_{max}} \geq T_{Max} \cdot FT$$

Overload torques are maximum loads which occur only in combination with special, infrequent operating conditions. Examples of overload torque conditions are: Motor short circuit, emergency stop or blocking because of component breakage. Overload torques at a frequency of once a month are permitted and must be lower than the maximum overload torque of the coupling. The overload condition may last only a short while, i.e. fractions of a second.

$$T_{K_{OL}} \geq T_{OL} \cdot FT$$

### Coupling load due to dynamic torque load

Applying the frequency factor FF, the dynamic torque load must be lower than the coupling fatigue torque.

Dynamic torque load

$$T_{KW} \geq T_W \cdot FF$$

Frequency of the dynamic torque load  $f_{err} \leq 10$  Hz frequency factor FF = 1.0

Frequency of the dynamic torque load  $f_{err} > 10$  Hz frequency factor FF =  $\sqrt{(f_{err}/10 \text{ Hz})}$

**For the N-ZAPEX and ARPEX series, the frequency factor is always FF = 1.0.**

### Checking the maximum speed

For all load situations  $n_{K_{max}} \geq n_{max}$

The maximum permissible speeds can be found in the type tables. For N-ZAPEX couplings, the permissible speeds must be reduced depending on the misalignment, in accordance with the following table.

	Speed correction factor FN														
Misalignment angle	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	
Correction factor	1.00	1.00	1.00	0.84	0.72	0.59	0.50	0.42	0.36	0.32	0.28	0.24	0.22	0.20	

$$n_{perm} = FN \cdot n_{max}$$

# SELECTION OF THE COUPLING SIZE

E

## Checking permitted shaft misalignment

For all load situations, the actual shaft misalignment must be less than the permitted shaft misalignment.

## Checking bore diameter, mounting geometry and coupling design

The check must be made on the basis of the dimension tables. The maximum bore diameter applies to parallel keyways to DIN 6885. For other keyway geometries, the maximum bore diameter can be reduced.

On request, couplings with adapted geometry can be provided.

## Coupling behavior under overload conditions

The N-ZAPEX, N-ARPEX, ARPEX, N-EUPEX, RUPEX and BIPEX coupling series can withstand overloads until the breakage of metal parts. These coupling series are designated as fail-safe.  
The N-EUPEX DS, ELPEX-B, ELPEX-S and ELPEX coupling series throw overload. The elastomer element of these couplings is irreparably damaged without damage to metal parts when subjected to excessive overload.

These coupling series are designated as non-fail-safe. These types that fail can be fitted with a so-called fail-safe device. This additional component enables emergency operation, even after the rubber element of the coupling has been irreparably damaged.

## Checking shaft-hub connection

The torques specified in the tables of power ratings data of the coupling series do not necessarily apply to the shaft-hub connection. Depending on the shaft-hub connection, proof of form stability is required. Flender recommends obtaining proof of form strength by using calculation methods in accordance with the current state of the art.

Fitting recommendations for the shaft-hub connection are given in the **Appendix**.

The coupling hub is frequently fitted flush with the shaft end face. If the shaft projects, the risk of collision with other coupling parts must be checked. If the shaft is set back, in addition to the load-bearing capacity of the shaft-hub connection, the correct positioning of the hub must be ensured as well. If the bearing hub length is insufficient, restorative forces may cause tilting movements and so wear to and impairment of the axial retention. Also, the position of the set screw to be positioned on sufficient shaft or parallel key material must be noted.

Shaft-hub connection	Suggestion for calculation method
Keyway connection to DIN 6885-1	DIN 6892
Shrink fit	DIN 7190
Spline to DIN 5480	
Bolted flange connection	VDI 2230
Flange connection with close-fitting bolts	

## Checking low temperature and chemically aggressive environment

The minimum permitted coupling temperature is specified in the Temperature factor FT table. In the case of chemically aggressive environments, please consult the manufacturer.

# FEATURES OF THE STANDARD TYPE



Couplings	Features of the standard type
All coupling series except ARPEX clamping hubs and FLUDEX with keyway to ASME B17.1	Bore tolerance H7
N-ARPEX and ARPEX clamping hubs	Bore tolerance G6 (suitable for shaft tolerance h6)
FLUDEX couplings with keyway to ASME B17.1	Hollow shafts: bore tolerance K7 other parts: bore tolerance M7
All coupling series with bore diameter - imperial	Parallel keyway to ASME B17.1
Bore diameter metric in the case of N-ZAPEX, N-ARPEX and ARPEX coupling series as well as coupling hubs with applied brake disks or brake drums of the N-EUPEX and RUPEX series	Parallel keyway to DIN 6885-1 keyway width P9
Bore diameter metric in the case of the N-EUPEX, RUPEX, BIPEX, ELPEX-S, ELPEX-B, ELPEX, FLUDEX coupling series	Parallel keyway to DIN 6885-1 keyway width JS9
All coupling series except FLUDEX	Axial locking by means of set screw
FLUDEX coupling series	Axial lock by means of set screw or end washer
All coupling series	Balancing in accordance with half parallel key standard
N-ZAPEX, N-ARPEX, ARPEX, N-EUPEX, RUPEX, BIPEX, ELPEX-S, ELPEX-B and ELPEX coupling series	Balancing quality G16
FLUDEX coupling series	Balancing quality G6.3
SIPEX and BIPEX-S coupling series	Balancing quality G6.3 for 3600 rpm
All series	Unpainted
All series	Preservation with cleaning emulsion
FLUDEX couplings	Fuse 140 °C

## Configurator

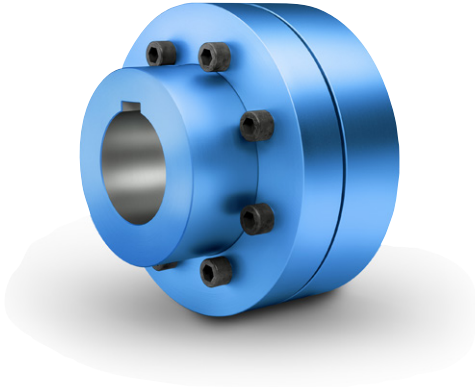
The article number can be obtained with the help of the Configurator. The coupling can be selected in a product configurator and specified using selection menus.

The coupling can be selected via "Technical selection" (technical selection) or via "Direct selection" (via article no.).

The Configurator is available under [flender.com](http://flender.com).



# FLEXIBLE COUPLINGS – N-EUPEX, N-EUPEX DS SERIES

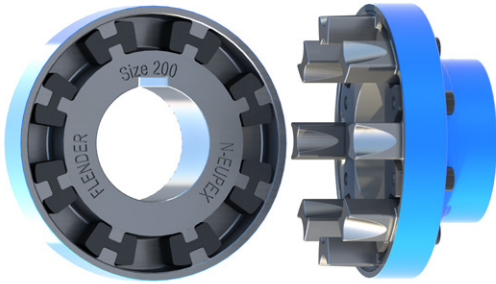


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Modular principle of N-EUPEX types	7/5
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<b>Type A for easy elastomer flexible replacement</b>	<b>7/11</b>
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<b>Type DK for large misalignment with simple installation and removal</b>	<b>7/14</b>
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<b>N-EUPEX DS series</b>	<b>7/29</b>
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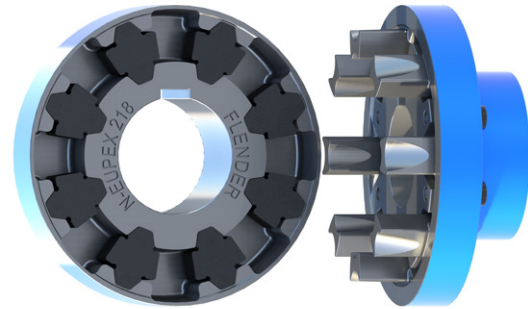


N-EUPEX  
**FLENDER**

# GENERAL



N-EUPEX as overload-holding, fail-safe series



N-EUPEX DS as overload-shedding, non-fail-safe series


N-EUPEX and N-EUPEX DS pin couplings connect machines. They compensate for shaft misalignment, generating only low restorative forces. The torque is conducted through elastomer flexibles, so the coupling has typically flexible rubber properties.

N-EUPEX couplings are overload-holding. By contrast, the N-EUPEX DS series is designed so that overload or advanced wear causes irreparable damage to the elastomer flexibles. The metal parts of N-EUPEX DS couplings can then rotate freely against one another without contact.



**Coupling suitable for use in potentially explosive atmospheres.**

**Complies with the current ATEX Directive for:**

CE  II 2G Ex h IIC T6 ... T4 Gb X

 II 2D Ex h IIIC T85 °C ... 110 °C Db X

 I M2 Ex h Mb X

## Benefits

N-EUPEX couplings are designed on the modular principle and have a very simple construction. N-EUPEX types are made up of subassemblies to suit requirements. The couplings are assembled by simply fitting the coupling halves together. Wear is restricted to the elastomer flexibles, which must be replaced at the end of their service life.

Depending on type, the elastomer flexibles can be changed without moving the coupled machines. The coupling parts are readily available from stock and are mostly finish-machined, i.e. with finished bore, keyway, set screw and balancing.

## Application

The N-EUPEX coupling is available as a catalog standard in 23 sizes with a rated torque of between 28 Nm and 71000 Nm. The coupling is suitable for ambient temperatures of between -50 °C and +80 °C. By using alternative elastomer flexibles, the permissible ambient temperature range can be extended to between -60 °C and +100 °C. Frequently, the coupling is used to connect the motor to the gear unit input shaft. The coupling is suitable especially for drives with uniform to average dynamic loads.

Examples of applications are pump drives, ventilator drives or crane running gear. Furthermore, N-EUPEX couplings can be used as add-on couplings, particularly on FLUDEX fluid couplings or ARPEX AKR safety couplings. In the case of drives with a diesel engine, N-EUPEX couplings are suitable for driven machines with a low mass moment of inertia. In the case of diesel engine drives, the actual dynamic coupling load should be checked by measurement or torsional vibration calculations.

## Design and configurations

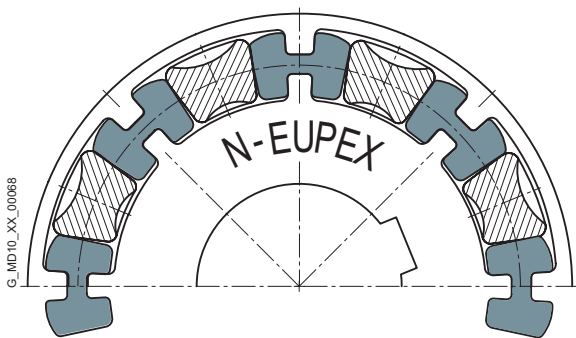
N-EUPEX and N-EUPEX DS couplings consist of two coupling halves mounted on the machine shafts. The coupling parts are connected positively by means of elastomer flexibles. On the two-part variant, the elastomer flexibles can be changed only if one of the coupled machines is moved.

On the three-part variants, the bolted cam ring can be released and moved to enable the flexible to be changed without moving the coupled machines.

### Elastomer flexible of the N-EUPEX series



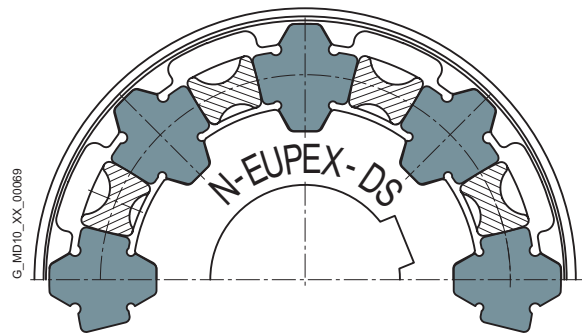
The flexibles of the N-EUPEX coupling are subjected to compression. This results in progressive torsion spring characteristics. If the flexibles are irreparably damaged, the hub parts come into contact with metal. This causes the torque to continue to be transmitted in "emergency mode" for a short period of time.



### Elastomer flexible of the N-EUPEX DS series



The flexibles of the N-EUPEX DS series are subjected to compression and bending forces. A linear torsion spring characteristic curve is characteristic in this regard. If the flexibles are irreparably damaged, the metal parts turn against one another without contact, and the power transmission is separated. Fitting new flexibles will make the coupling once more usable. The capacity of the N-EUPEX DS series to shed overloads is especially in demand for highly sensitive machines.



# GENERAL

## Materials

All coupling parts such as cam parts, pocket parts, spacers, hub parts and mounting parts are manufactured from high grade cast iron with lamellar or spheroidal graphite, or from steel. The sleeve pipes of the type DK spacers are made from aluminum.

## Flexible materials

Material/description	Hardness	Marking	Ambient temperature
<b>N-EUPEX series</b>			
<b>NBR standard type</b>	<b>80 ShoreA</b>	<b>Flexible black with blue stripe</b>	<b>-50 °C ... +80 °C</b>
NBR electrically insulating	80 ShoreA	Flexible green	-30 °C ... +80 °C
NBR soft (size 225 to 710)	65 ShoreA	Flexible black with green stripe	-50 °C ... +80 °C
HP (TPU) (size 80 to 280)	97 ShoreA	Flexible blue	-50 °C ... +80 °C
HP (NBR) (size 315 to 710)	90 ShoreA	Flexible black, fabric reinforced	-50 °C ... +80 °C
HP (NBR) (size 58 to 68)	90 ShoreA	Flexible black with magenta stripe	-50 °C ... +80 °C
NBR normal low-backlash (size 58 to 200)	80 ShoreA	Flexible black with yellow stripe	-50 °C ... +80 °C
NBR soft low-backlash (size 58 to 200)	65 ShoreA	Flexible black with white stripe	-50 °C ... +80 °C
NR for low temperature	80 ShoreA	Flexible black with orange stripe	-60 °C ... +50 °C
HNBR high temperature	80 ShoreA	Flexible black with red stripe	-10 °C ... +100 °C
<b>Type N-EUPEX DK/DKS</b>			
HP (TPU) (size 80 to 280)	97 ShoreA	Flexible blue	-50 °C ... +80 °C
HP (NBR) (size 68)	90 ShoreA	Flexible black with magenta stripe	-50 °C ... +80 °C
<b>N-EUPEX DS series</b>			
<b>NBR hard</b>	<b>90 ShoreA</b>	<b>Flexible black</b>	<b>-30 °C ... +80 °C</b>

The technical data do not include the flexible variants NBR low-backlash, HNBR high temperature and NR low temperature. Technical data, prices and article numbers can be found at [www.flender.com](http://www.flender.com)

## Standard types of N-EUPEX and N-EUPEX DS pin coupling

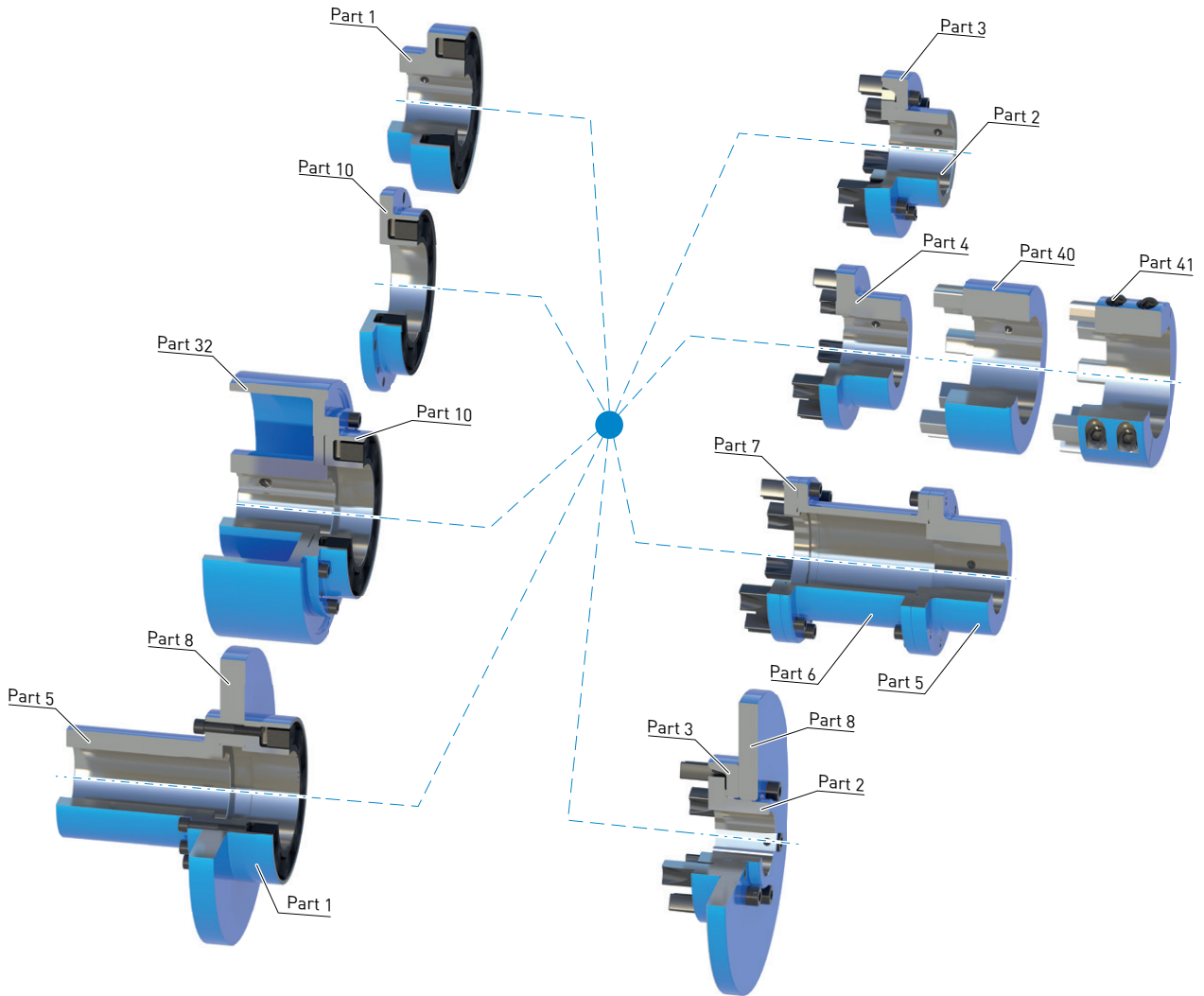
Type	Description
<b>A</b>	Fail-safe, 3-part
<b>B</b>	Fail-safe, 2-part
<b>D</b>	Fail-safe, 3-part, flange variant
<b>E</b>	Fail-safe, 2-part, flange variant
<b>DK</b>	Fail-safe, double-cardanic, with spacer
<b>DKS</b>	Fail-safe, double-cardanic, short length
<b>H</b>	Fail-safe, with adapter
<b>P</b>	Fail-safe, 3-part, with brake drum
<b>O</b>	Fail-safe, 2-part, with brake drum
<b>DBDR</b>	Fail-safe, 3-part, with brake disk, brake disk radially dismountable
<b>ABD</b>	Fail-safe, 3-part, with brake disk
<b>ERN</b>	Fail-safe, 2-part, with slip unit
<b>ADS</b>	Non-fail-safe, 3-part
<b>BDS</b>	Non-fail-safe, 2-part
<b>HDS</b>	Non-fail-safe, with adapter

## Special types of N-EUPEX pin coupling on request

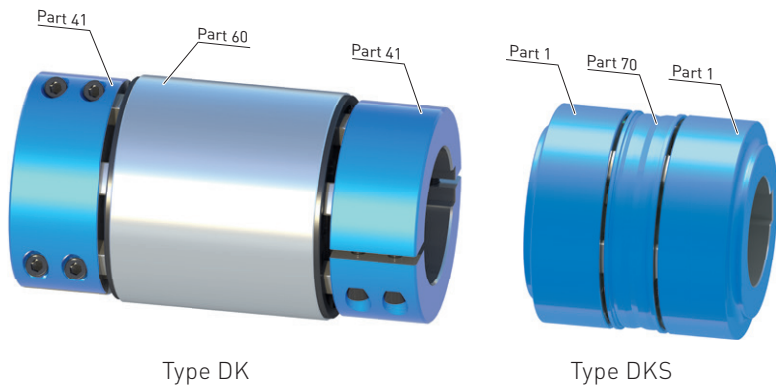
Type	Description
<b>AT</b>	Fail-safe, 3-part, with Taper clamping bush
<b>BT</b>	Fail-safe, 2-part, with Taper clamping bush
<b>F</b>	Fail-safe, 3-part, with intermediate shaft
<b>G</b>	Fail-safe, 2-part, with intermediate shaft
<b>K</b>	Fail-safe, 3-part, with brake drum to customer's requirement
<b>L</b>	Fail-safe, 2-part, with brake drum to customer's requirement
<b>M</b>	Fail-safe, 2-part, with flange dimensions to SAE J620d
<b>DBD</b>	Fail-safe, 3-part, with brake disk
<b>EBD</b>	Fail-safe, 2-part, with brake disk

Further application-related coupling types are available. Dimension sheets for and information on these are available on request.

Modular principle of N-EUPEX types



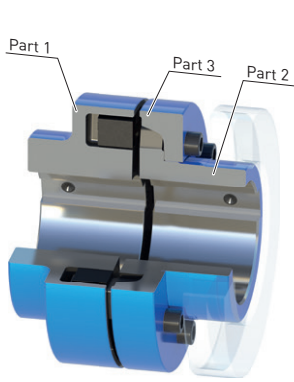
N-EUPEX DK/DKS



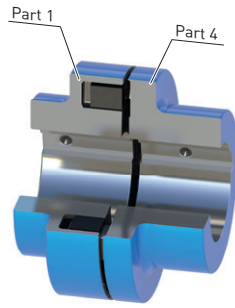
In the case of larger radial misalignment, double-cardanic N-EUPEX couplings can be supplied in addition to the modular system. The spacer (part 60 resp. 70) is centered with the help of the N-EUPEX elastomer elements. Any radial misalignment that emerges between the shaft ends will accordingly be equalized through a corresponding tilt angle in the elastomer joints with this two-joint versions. In the DK version, the separated hubs (part 41) made from steel facilitate simple installation. The DKS version is characterized by a reduced shaft distance.

# GENERAL

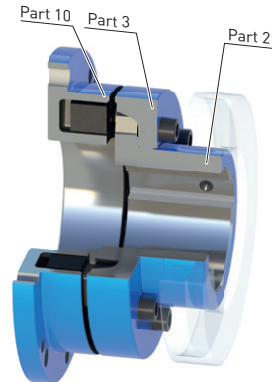
## Types N-EUPEX



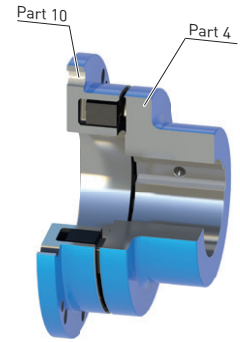
Types A and ADS



Types B and BDS

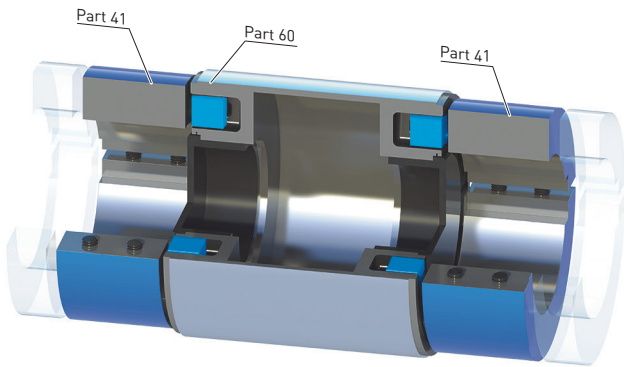


Type D

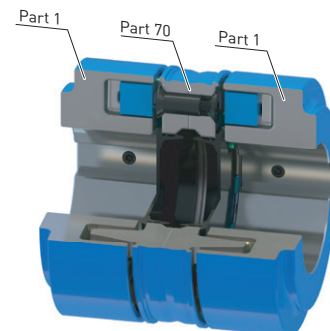


Type E

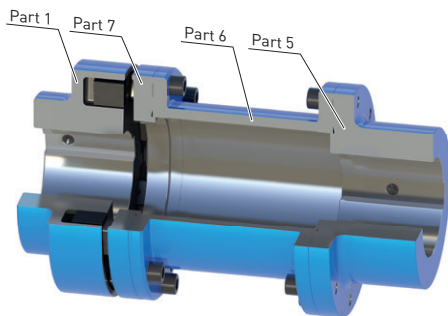
## Types N-EUPEX with adapter



Type DK

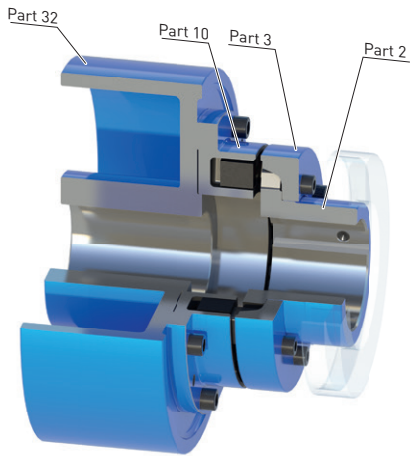


Type DKS

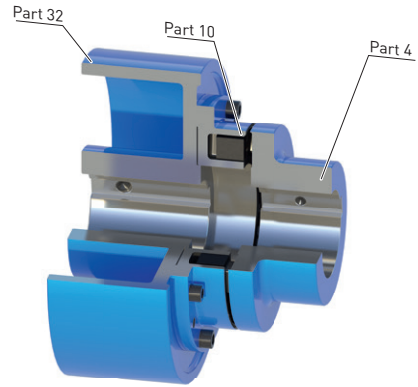


Types H and HDS

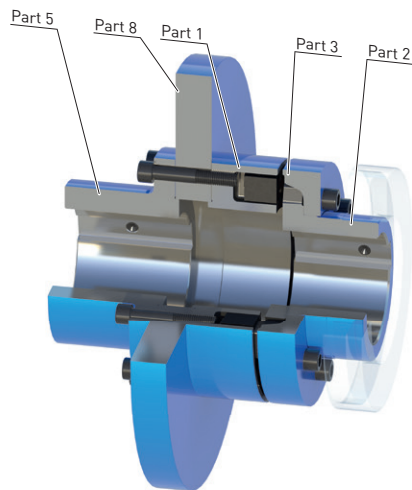
Type N-EUPEX with brake disk/brake drum



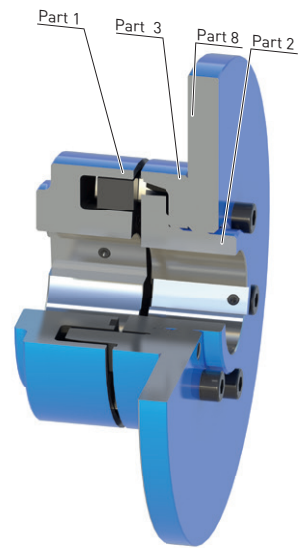
Type P



Type O

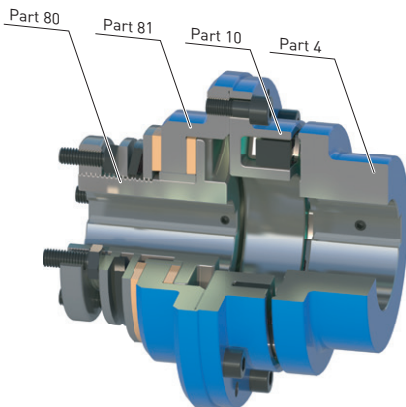


Type DBDR



Type ABD

Type N-EUPEX with torque control



Type ERN

Note

- Further application-specific coupling types are available. Dimension sheets for and information on these are available on request.

# GENERAL

## Technical specifications, N-EUPEX series

Power ratings of the N-EUPEX series (single-joint coupling)										
Size	Rated torque for flexible type			Maximum torque		Torsional stiffness at 50 % capacity utilization for flexible type			Permitted shaft misalignment at speed <sup>1)</sup> $n = 1500$ rpm	
	65 ShoreA $T_{KN}$ Nm	80 ShoreA $T_{KN}$ Nm	HP <sup>2)</sup> $T_{KN}$ Nm	65 ShoreA $T_{Kmax}$ Nm	80 ShoreA / HP $T_{Kmax}$ Nm	65 ShoreA $C_{Tdyn 50\%}$ kNm/rad	80 ShoreA $C_{Tdyn 50\%}$ kNm/rad	HP $C_{Tdyn 50\%}$ kNm/rad	Radial $\Delta K_r$ mm	Angle $\Delta K_w$ °
58	12	28	34	36	85	0.22	0.75	1,51	0.2	0.15
68	23	48	58	69	145	0.42	1.26	2,79	0.2	0.15
80	40	85	120	120	300	1.13	3.21	14,2	0.2	0.12
95	69	140	200	207	500	1.77	5.32	23,1	0.2	0.12
110	110	225	325	330	812	2.70	8.15	36,1	0.2	0.10
125	165	345	490	495	1225	4.0	12.3	53,6	0.25	0.10
140	250	500	700	750	1750	6.0	18	77,8	0.25	0.10
160	385	840	1200	1150	3000	12.2	39.4	162	0.3	0.10
180	600	1250	1750	1800	4375	20.6	63.6	270	0.3	0.10
200	935	1950	2650	2800	6625	34.2	106.8	426	0.3	0.09
225	1380	2300	3400	4150	8500	52	131	619	0.35	0.09
250	1930	3900	5500	5800	13750	73	221	927	0.35	0.08
280	2700	5500	7400	8100	18500	103	313	1261	0.4	0.08
315	3850	7100	9350	11550	23375	186	472	1130	0.4	0.08
350	5335	10800	13000	16000	32500	255	708	1450	0.5	0.08
400	7150	14000	18000	21450	45000	343	997	2250	0.5	0.08
440	9350	19000	25000	28050	62500	427	1280	3200	0.6	0.08
480	11550	25100	33000	34650	82500	550	1781	4100	0.6	0.07
520	14630	32400	42000	43890	105000	650	2124	4800	0.65	0.07
560	20130	39000	50600	60390	126500	1095	3119	7600	0.65	0.07
610	26400	49000	63800	79200	159500	1422	3873	9400	0.75	0.07
660	33990	63000	79000	101970	197500	1799	4834	11300	0.8	0.07
710	42900	71000	93500	128700	233750	2339	5608	13400	0.9	0.07

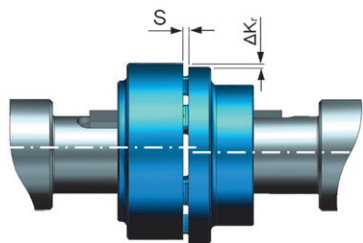
For coupling fatigue torque:

$$T_{KW} = 0,15 \cdot T_{KN}, \text{ where } T_N > T_W \text{ must be adhered to.}$$

### N-EUPEX shaft distance $S$ and radial misalignment $\Delta K_r$

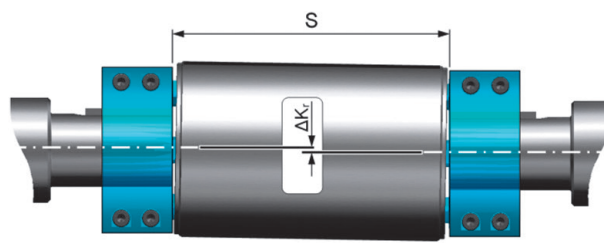
#### N-EUPEX (single-joint coupling)

Radial misalignment  $\Delta K_r$  and angular misalignment  $\Delta K_w$  as well as changes in gap dimension are equalized in a elastomer joint. Values for  $\Delta S$  can be found in the respective type selection tables.



#### N-EUPEX DK/DKS (two-joint coupling)

Radial misalignment  $\Delta K_r$  and angular misalignment  $\Delta K_w$  as well as changes in gap dimension are equalized in two elastomer joints. Values for  $\Delta S$  can be found in the corresponding type selection tables.



<sup>1)</sup> The maximum speed for the respective type must be noted.  
For additional information on the allowable shaft misalignment, please refer to the operating instructions.

<sup>2)</sup> For sizes 80 to 280, in case of higher temperatures the temperature factor T according to the table on page E/21 in the Introduction has to be considered.

**Performance data for type N-EUPEX DK (two-joint coupling)**

Size	Rated torque		Torsional stiffness at 50 % capacity utilization for flexible type HP $C_{Tdyn\ 50\%}$ kNm/rad	Permitted shaft misalignment <sup>1)</sup> at $n = 1500$ rpm					Type DKS $\Delta K_r$ mm	Angle <sup>2)</sup> $\Delta K_w$ °
	HP $T_{KN}$ Nm	HP $T_{Kmax}$ Nm		Radial Type DK						
				S=100 mm $\Delta K_{r\ 100}$ mm	S=140 mm $\Delta K_{r\ 140}$ mm	S=180 mm $\Delta K_{r\ 180}$ mm	S=200 mm $\Delta K_{r\ 200}$ mm	S=250 mm $\Delta K_{r\ 250}$ mm		
68	48	120	1.18	1.2	-	-	-	-	-	0.15
80	85	212	5.6	1.2	1.7	-	-	-	0.5	0.12
95	140	350	9	1.1	1.6	-	-	-	0.5	0.12
110	225	562	14	1.1	1.5	2.1	-	-	0.6	0.10
125	345	862	21	1.0	1.5	2.0	2.3	-	0.6	0.10
140	500	1250	31	1.0	1.4	1.8	2.1	2.7	0.7	0.10
160	840	2100	63	-	1.3	1.8	2.1	2.7	0.7	0.10
180	1250	3125	107	-	1.3	1.8	2.0	2.6	0.7	0.10
200	1950	4875	170	-	1.2	1.7	2.0	2.6	0.8	0.09
225	2300	5750	240	-	-	1.7	1.9	2.6	0.9	0.09
250	3900	9750	370	-	-	-	-	-	1.1	0.08
280	5500	13750	525	-	-	-	-	-	1.1	0.08

For coupling fatigue torque:  
 $T_{KW} = 0,15 \cdot T_{KN}$ , where  $T_N > T_W$  must be adhered to.

**Torsional stiffness and damping (single-joint or two-joint coupling)**

The values stated in the above table apply to a capacity utilization of 50 %, an excitation amplitude of 10 %  $T_{KN}$  with frequency 10 Hz and an ambient temperature of 20 °C. The dynamic torsional stiffness is load-dependent and increases in proportion to capacity utilization. The following table shows the correction factors for different rated loads.

$$C_{Tdyn} = C_{Tdyn\ 50\%} \cdot FKC$$

	Load $T_N / T_{KN}$						
	20 %	40 %	50 %	60 %	70 %	80 %	100 %
Correction factor FKC							
65/80 ShoreA HP (size 58-68, 315-710)	0,50	0,82	1,00	1,20	1,40	1,63	2,10
HP (size 80 - 280)	0,55	0,85	1,00	1,14	1,29	1,42	1,69

**The damping coefficient is  $\Psi = 1.4$  for the 65/80 ShoreA packages and  $\Psi = 1.2$  for the HP package**

Furthermore, torsional stiffness and damping depend on the ambient temperature, on the frequency and on the amplitude of the torsional vibration excitation. More precise torsional stiffness and damping parameters on request.

Due to the manufacturing process and ageing of the elastomers, the tolerance for the dynamic stiffness is  $\pm 20\%$ .

**Permitted shaft misalignment (single-joint or two-joint coupling)**

The permitted shaft misalignment depends on the operating speed. As the speed increases, lower shaft misalignment values are permitted. The correction factors for different speeds are specified in the following table. The maximum speed for the respective coupling size must be noted!

$$\Delta K_{perm} = \Delta K_{1500} \cdot FKV$$

	Speed in rpm			
	500	1000	1500	3000
Correction factor FKV	1.7	1.2	1.0	0.7

For fitting, the maximum gap dimension of  $S_{max.} = S + \Delta S$  and the minimum gap dimension of  $S_{min.} = S - \Delta S$  are permitted.

Shaft misalignments  $\Delta K_r$  and  $\Delta K_w$  may occur simultaneously.

<sup>1)</sup> The maximum speed for the respective type must be noted. For additional information on the allowable shaft misalignment, please refer to the operating instructions.  
<sup>2)</sup> The angular misalignment  $\Delta K_w$  refers to the maximum additional tilting of the shaft axes.

# GENERAL

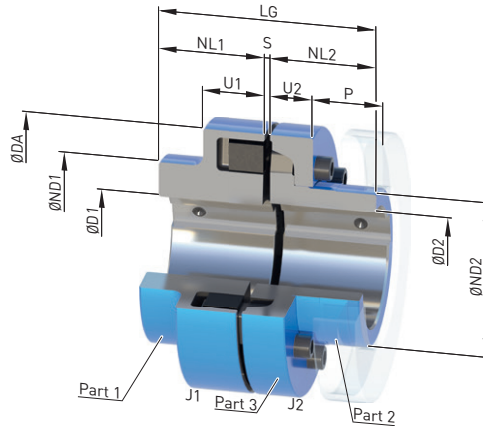
## Assignment of N-EUPEX sizes to IEC standard motors (selected operating factor = 1.25) <sup>1)</sup>

Three-phase motor Size	Output at ≈ 3000 rpm		Output at ≈ 1500 rpm		Output at ≈ 1000 rpm		Output at ≈ 750 rpm		DE (ASI) shaft end D x E acc. to IEC	
	$P_M$ kW	N-EUPEX size	$P_M$ kW	N-EUPEX size	$P_M$ kW	N-EUPEX size	$P_M$ kW	N-EUPEX size	D mm	E mm
56	0.09	58	0.06	58					9	20
56	0.12	58	0.09	58					9	20
63	0.18	58	0.12	58					11	23
63	0.25	58	0.18	58					11	23
71	0.37	58	0.25	58					14	30
71	0.55	58	0.37	58					14	30
80	0.75	58	0.55	58	0.37	58			19	40
80	1.1	58	0.75	58	0.55	58			19	40
90 S	1.5	58	1.1	58	0.75	58			24	50
90 L	2.2	58	1.5	58	1.1	58			24	50
100 L	3	68	2.2	68	1.5	68	0.75	68	28	60
100 L			3	68			1.1	68	28	60
112 M	4	68	4	68	2.2	68	1.5	68	28	60
132 S	5.5	80	5.5	80	3	80	2.2	80	38	80
132 S	7.5	80							38	80
132 M			7.5	80	4	80	3	80	38	80
132 M					5.5	80			38	80
160 M	11	80	11	95	7.5	95	4	80	42	110
160 M	15	80					5.5	95	42	110
160 L	18.5	80	15	95	11	95	7.5	95	42	110
180 M	22	95	18.5	110					48	110
180 L			22	110	15	110	11	110	48	110
200 L	30	110	30	125	18.5	110	15	125	55	110
200 L	37	110			22	125			55	110
225 S									55	110
225 S			37	125			18.5	125	60	140
225 M	45	110							55	110
225 M			45	140	30	140	22	140	60	140
250 M	55	125							60	140
250 M			55	140	37	140	30	140	65	140
280 S	75	140							65	140
280 S			75	180	45	180	37	180	75	140
280 M	90	140							65	140
280 M			90	180	55	180	45	180	75	140
315 S	110	140							65	140
315 S			110	180	75	180	55	180	80	170
315 M	132	160							65	140
315 M			132	180	90	180	75	180	80	170
315 L	160	160							65	140
315 L	200	160							65	140
315 L			160	200	110	200	90	200	80	170
315 L			200	200	132	200	110	200	80	170
315 L					160	200	132	225	85	170
315	250	180							65	140
315	315	200							65	140
315			250	225	200	250			85	170
355	355	200							75	140
355	400	200							75	140
355	500	225							75	140

<sup>1)</sup> Outputs  $P_M$  of IEC motors and assigned N-EUPEX couplings (80 ShoreA)

# TYPE A

for easy elastomer flexible replacement



Size	Rated torque flexible type 80 ShoreA $T_{KN}$	Speed $n_{Kmax}$	Dimensions in mm														Mass moment of inertia $J_1/J_2$	Article no. <sup>1)</sup>	Weight $m$
			Bore with keyway to DIN 6885-1		D1	D2	DA	ND1	ND2	NL1/NL2	S	$\Delta S$	U1	U2	P	LG			
Nm	rpm	min.	max.	min.													max.	kgm <sup>2</sup>	kg
110	225	6300	-	55	-	45	110	86	60.5	40	3	1.0	34	20	33	83	0.002	2LC0170-4AB	2.7
125	345	6100	-	60	-	55	125	100	73.5	50	3	1.0	36	23	38	103	0.004	2LC0170-5AB	4.2
140	500	5800	-	65	-	60	140	100	80.5	55	3	1.0	34	28	43	113	0.007	2LC0170-6AB	5.6
160	840	5100	-	70	-	70	160	108	93.5	60	4	2.0	39	28	47	124	0.013	2LC0170-7AB	7.8
180	1250	4500	-	80	-	80	180	125	106	70	4	2.0	42	30	50	144	0.023	2LC0170-8AB	11
200	1950	4000	-	85	-	90	200	140	119	80	4	2.0	47	32	53	164	0.04	2LC0171-0AB	16
225	2300	3600	-	90	-	100	225	150	135	90	4	2.0	52	38	61	184	0.07	2LC0171-1AB	23
250	3900	3300	46	100	-	115	250	165	153	100	5.5	2.5	60	42	69	205.5	0.13	2LC0171-2AB	32
280	5500	3000	49	110	54	125	280	180	168	110	5.5	2.5	65	42	73	225.5	0.20	2LC0171-3AB	42
315	7100	2600	49	120	45	145	315	200	196	125	5.5	2.5	70	47	78	255.5	0.37	2LC0171-4AB	61
350	10800	2400	61	140	60	165	350	230	226	140	5.5	2.5	74	51	83	285.5	0.64	2LC0171-5AB	85
400	14000	2000	66	150	65	180	400	250	246	160	5.5	2.5	78	56	88	325.5	1.1	2LC0171-6AB	119
440	19000	1900	80	160	80	190	440	265	261	180	7.5	2.5	86	64	99	367.5	1.7	2LC0171-7AB	156
480	25100	1800	90	180	90	215	480	300	296	190	7.5	2.5	90	65	104	387.5	2.7	2LC0171-8AB	199
520	32400	1500	100	190	100	225	520	315	310	210	7.5	2.5	102	68	115	427.5	3.8	2LC0172-0AB	251
560	39000	1500	120	200	120	230	560	320	316	220	9	3.0	115	80	125	449	5.3	2LC0172-1AB	303
610	49000	1300	130	220	130	250	610	352	348	240	9	3.0	121	88	135	489	8.2	2LC0172-2AB	393
660	63000	1200	140	240	140	275	660	384	380	260	9	3.0	132	96	145	529	12.3	2LC0172-3AB	501
710	71000	1100	140	260	140	300	710	416	412	290	9	3.0	138	102	155	589	17.4	2LC0172-4AB	623

### Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

### Notes

- Weights and mass moments of inertia apply to maximum bores.

### Ordering example

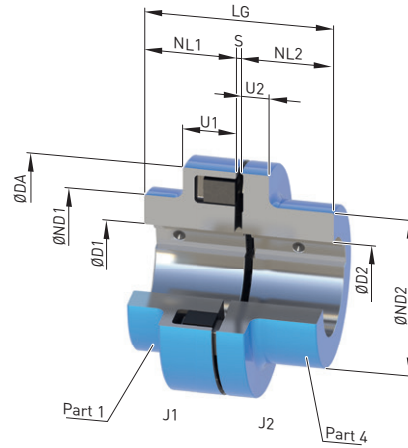
- N-EUPEX A coupling, size 200
- Part 1: Bore D1 65H7 mm, keyway to DIN 6885-1 and set screw
- Part 2: Bore D2 50H7 mm, keyway to DIN 6885-1 and set screw

Article no.: 2LC0171-0AB99-0AA0 L1F+M1C

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE B



7

Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm Bore with keyway to DIN 6885-1											Mass moment of inertia $J_1/J_2$ kgm <sup>2</sup>	Article no. <sup>1)</sup>	Weight $m$ kg			
			D1		D2		Part 40 <sup>2)</sup>			DA	ND1	ND2	NL1/NL2				S	ΔS	U1
			min.	max.	min.	max.	max.							±					
58	28	9000	-	22	-	25	32	58	58	40	20	3	1.0	20	8	43	0.0001	2LC0170-0AA	0.4
68	48	8400	-	28	-	30	40	68	68	50	20	3	1.0	20	8	43	0.0002	2LC0170-1AA	0.6
80	85	7200	-	38	-	42	48	80	80	68	30	3	1.0	30	10	63	0.0006	2LC0170-2AA	1.3
95	140	6600	-	48	-	48	60	95	76	76	35	3	1.0	30	12	73	0.0012	2LC0170-3AA	1.8
110	225	6300	-	55	-	55	70	110	86	86	40	3	1.0	34	14	83	0.0024	2LC0170-4AA	2.8
125	345	6100	-	60	-	60	82	125	100	100	50	3	1.0	36	18	103	0.005	2LC0170-5AA	4.7
140	500	5800	-	65	-	65	90	140	100	100	55	3	1.0	34	20	113	0.007	2LC0170-6AA	5.7
160	840	5100	-	70	-	70	105	160	108	108	60	4	2.0	39	20	124	0.01	2LC0170-7AA	7.8
180	1250	4500	-	80	-	80	120	180	125	125	70	4	2.0	42	20	144	0.02	2LC0170-8AA	12
200	1950	4000	-	85	-	85	130	200	140	140	80	4	2.0	47	24	164	0.04	2LC0171-0AA	17
225	2300	3600	-	90	-	90	150	225	150	150	90	4	2.0	52	18	184	0.06	2LC0171-1AA	23
250	3900	3300	46	100	46	100	170	250	165	165	100	5.5	2.5	60	18	205.5	0.11	2LC0171-2AA	30
280	5500	3000	49	110	54	110	190	280	180	180	110	5.5	2.5	65	20	225.5	0.18	2LC0171-3AA	41

### Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

### Notes

- Weights and mass moments of inertia apply to maximum bores.

### Ordering example

- N-EUPEX B coupling, size 95
- Part 1: Bore D1 42H7 mm, keyway to DIN 6885-1 and set screw
- Part 2: Bore D2 32H7 mm, keyway to DIN 6885-1 and set screw

Article no.: 2LC0170-3AA99-0AA0 L0X+M0T

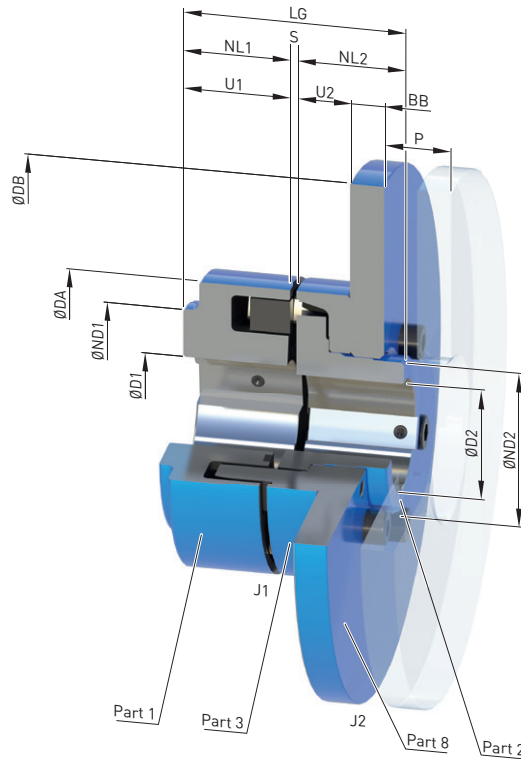
<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>2)</sup> Version with part 40 (jumbo hub) available on request.

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE ABD

with brake disk



Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm															Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg	
			Bore with keyway to DIN 6885-1				DA	ND1	ND2	NL1/NL2	S	$\Delta S$ +/-	U1	U2	P	DB <sup>2)</sup>	BB <sup>2)</sup>	LG	$J_1$ kgm <sup>2</sup>			$J_2$ kgm <sup>2</sup>
			D1 min.	D1 max.	D2 min.	D2 max.																
140	500	5500	-	65	-	60	140	100	80.5	55	3	1.0	34	28	43	315	12.7	113	0.007	0.10	2LC0170-6BB	12.8
160	840	5100	-	70	-	70	160	108	93.5	60	4	2.0	39	28	47	315	12.7	124	0.013	0.11	2LC0170-7BB	14.8
180	1250	4500	-	80	-	80	180	125	106	70	4	2.0	42	30	50	355	12.7	144	0.023	0.18	2LC0170-8BB	20
200	1950	4000	-	85	-	90	200	140	119	80	4	2.0	47	32	53	400	12.7	164	0.04	0.29	2LC0171-0BB	27
225	2300	3600	-	90	-	100	225	150	135	90	4	2.0	52	38	61	450	30	184	0.07	1.0	2LC0171-1BB	57
250	3900	3300	46	100	-	115	250	165	153	100	5.5	2.5	60	42	69	500	30	205.5	0.13	1.6	2LC0171-2BB	73
280	5500	3000	49	110	54	125	280	180	168	110	5.5	2.5	65	42	73	560	30	225.5	0.20	2.5	2LC0171-3BB	94
315	7100	2600	49	120	45	145	315	200	196	125	5.5	2.5	70	47	78	630	30	255.5	0.37	4.0	2LC0171-4BB	126
350	10800	2400	61	140	60	165	350	230	226	140	5.5	2.5	74	51	83	710	30	285.5	0.64	6.5	2LC0171-5BB	167

### Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

### Notes

- Weights and mass moments of inertia apply to maximum bores.

### Ordering example

- N-EUPEX ABD coupling, size 200, brake disk 400 x 12.7 mm
- Part 1: Bore D1 65H7 mm, keyway to DIN 6885-1 and set screw
- Part 2: Bore D2 50H7 mm, keyway to DIN 6885-1 P9 and set screw
- Coupling micro-balanced G 6.3 at 1500 rpm in accordance with half parallel key standard

Article no.: 2LC0171-0BB99-2FA0-Z L1F+M1C+W02+Y95  
Plain text to Y95: G=6.3;n=1500rpm

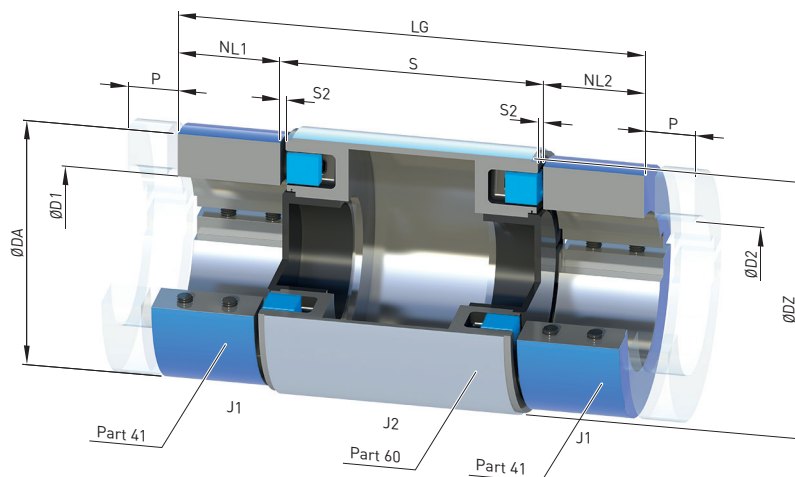
<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>3)</sup> For the available DB·BB brake disk dimensions, please refer to the product configurator on [flender.com](http://flender.com).

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE DK

for large misalignment with simple installation and removal



Size	Rated torque flexible type HP $T_{KN}$	Speed $n_{Kmax}$	Dimensions in mm											Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$
			Bore with keyway to DIN 6885-1		DA	DZ	NL1/NL2	Shaft distances $S$ <sup>2)</sup>		$\Delta S$	S2	P	LG	$J_1$	$J_2$		
			D1/D2	min.				max.	Preferred dimension								
68	48	5500	20	40	68	70	30	100		1	2	15	160	0.0004	0.0003	2LC0170-1BA	1.66
80	85	5300	25	48	80	86	34	100	140	1	2	16	168	0.001	0.001	2LC0170-2BA	2.64
95	140	5100	25	60	95	100	40	100	140	1	2	18	180	0.002	0.002	2LC0170-3BA	4.0
110	225	4800	30	70	110	120	45	100	140, 180	1	2	21	190	0.004	0.005	2LC0170-4BA	6.0
125	345	4600	30	82	125	130	50	140	100, 180, 200	1	2.5	24	240	0.008	0.007	2LC0170-5BA	8.2
140	500	4400	40	90	140	150	54	140	100, 180, 200, 250	1	2.5	26	248	0.013	0.014	2LC0170-6BA	11.8
160	840	4000	40	105	160	170	70	140	180, 200, 250	1.5	3	30	280	0.030	0.024	2LC0170-7BA	18.3
180	1250	3700	40	120	180	190	75	180	140, 200, 250	1.5	3	32	330	0.051	0.043	2LC0170-8BA	24.8
200	1950	3400	45	130	200	210	80	180	140, 200, 250	1.5	3.5	35	340	0.085	0.069	2LC0171-0BA	33.7
225	2300	3000	45	150	225	240	90	180	200, 250	1.5	3.5	39	360	0.152	0.123	2LC0171-1BA	46.9

## Configurable variants <sup>1)</sup>

- ØD1 With finished bore
- ØD2 With finished bore

## Notes

- The total length, weight and mass moments of inertia apply to maximal bores and shaft distances according to the preferred dimension.
- Recommended shaft tolerances  $j6$  to  $p6$
- A combination of part 60 with other cam parts as part 41 is not permitted.

## Ordering example

- N-EUPEX DK coupling, size 95,  $S = 100$  mm
- Part 41-1: Bore D1 42 mm, with keyway as per DIN 6885-1, recommended shaft tolerances  $j6$  to  $p6$
- Part 41-2: Bore D1 32 mm, with keyway as per DIN 6885-1, recommended shaft tolerances  $j6$  to  $p6$

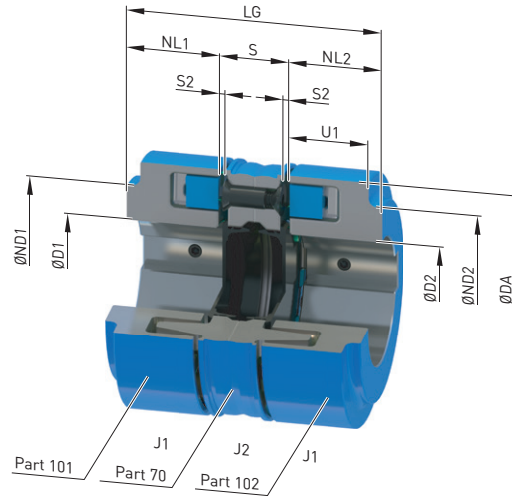
Article no.: 2LC0170-3BA99-0AA0 L0X+M0T

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>2)</sup> Special lengths on request.

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE DKS



Size	Rated torque flexible type HP $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm										Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg
			Bore with keyway to DIN 6885-1 D1/D2		DA	ND1/ND2	NL1/NL2	S	$\Delta S$ +/-	S2	U1	LG	$J_1$ kgm <sup>2</sup>	$J_2$ kgm <sup>2</sup>		
			min.	max.												
80	85	5300	-	38	80	80	30	26	1.0	2	30	86	0.0006	0.0007	2LC0170-2BD	1.8
95	140	5100	-	48	95	76	35	26	1.0	2	30	96	0.0012	0.0013	2LC0170-3BD	2.6
110	225	4800	-	55	110	86	40	28	1.0	2	34	108	0.0024	0.0025	2LC0170-4BD	4.0
125	345	4600	-	60	125	100	50	29	1.0	2.5	36	129	0.005	0.004	2LC0170-5BD	5.9
140	500	4400	-	65	140	100	55	35	1.0	2.5	34	145	0.006	0.008	2LC0170-6BD	7.6
160	840	4000	-	70	160	108	60	36	1.5	3	39	156	0.012	0.014	2LC0170-7BD	11
180	1250	3700	-	80	180	125	70	36	1.5	3	42	176	0.021	0.023	2LC0170-8BD	15
200	1950	3400	-	85	200	140	80	41	1.5	3.5	47	201	0.038	0.040	2LC0171-0BD	22
225	2300	3000	-	90	225	150	90	41	1.5	3.5	52	221	0.065	0.070	2LC0171-1BD	31
250	3900	2600	46	100	250	165	100	54	2.0	4	60	254	0.11	0.14	2LC0171-2BD	44
280	5500	2400	49	110	280	180	110	54	2.0	4	65	274	0.19	0.21	2LC0171-3BD	58

### Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

### Notes

- The total length, weight and mass moments of inertia apply to maximal bores and shaft distances according to the preferred dimension.

### Ordering example

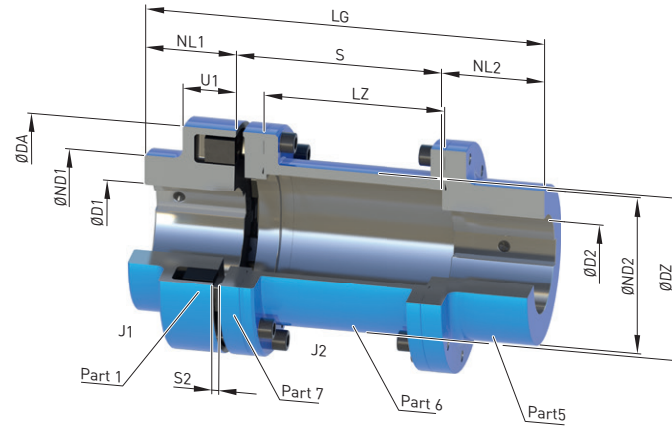
- N-EUPEX DKS coupling, size 95
- Part 1-01: Bore D1 42H7 mm, with keyway as per DIN 6885-1 and set screw
- Part 1-02: Bore D2 32H7 mm, with keyway as per DIN 6885-1 and set screw

Article no.: 2LC0170-3BD99-0AA0 L0X+M0T

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE H



Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm													Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg	
			Bore with keyway to DIN 6885-1				DA	ND1	ND2	NL1	NL2	S	S2	LZ	DZ	LG	$J_1$ kgm <sup>2</sup>			$J_2$ kgm <sup>2</sup>
D1 min.	D1 max.	D2 min.	D2 max.																	
80	85	7200	-	38	-	38 <sup>2)</sup>	80	80	55	30	45	100	5	87	51	175	0.0006	0.001	2LC0170-2AG	2.4
												140		127		215		0.001		2LC0170-2AG
95	140	6600	-	48	-	48 <sup>2)</sup>	95	76	70	35	45	100	5	87	63	180	0.0009	0.003	2LC0170-3AG	3.3
												140		127		220		0.003		2LC0170-3AG
110	225	6300	-	55	-	55 <sup>2)</sup>	110	86	80	40	50	100	5	85	73	190	0.003	0.005	2LC0170-4AG	4.8
											50	140		230		0.006		2LC0170-4AG		5.0
125	345	6100	-	60	-	60 <sup>2)</sup>	125	100	90	50	60	180	5	165	85	280	0.005	0.006	2LC0170-4AG	5.6
											50	100		200		0.01		2LC0170-5AG		6.9
											50	140	125	0.01	2LC0170-5AG	7.4				
											60	180	165	0.011	2LC0170-5AG	7.8				
											70	200	185	0.012	2LC0170-5AG	8.1				
80	250	235	0.012	2LC0170-5AG	8.6															
140	500	5800	-	65	-	65 <sup>2)</sup>	140	100	100	55	65	100	5	82	91	220	0.007	0.018	2LC0170-6AG	9.6
											65	140		122		0.019		2LC0170-6AG		10.1
											65	180	162	0.02	2LC0170-6AG	10.6				
											65	200	182	0.021	2LC0170-6AG	10.9				
											80	250		232		385	0.022	2LC0170-6AG	11.5	

### Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>2)</sup> For bore diameters greater than the following values, the feather key must be at least 3 mm behind the shaft end. Size 80 D2 > 32 mm; size 95 D2 > 42 mm; size 110 D2 > 50 mm; size 125 D2 > 59 mm; size 140 D2 > 64 mm.

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm													Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg	
			Bore with keyway to DIN 6885-1				DA	ND1	ND2	NL1	NL2	S	S2	LZ	DZ	LG	$J_1$ kgm <sup>2</sup>			$J_2$ kgm <sup>2</sup>
D1	D2		D1 min.	D1 max.	D2 min.	D2 max.														
160	840	5100					-	70	-	70	160	108	108	60	70	100	81.5	230	0.03	2LC0170-7AG
			70	140	121.5	270									0.032	2LC0170-7AG	13			
			70	180	161.5	111									0.034	2LC0170-7AG	14			
			70	200	181.5	330									0.035	2LC0170-7AG	14			
180	1250	4500	-	80	-	80	180	125	125	70	80	140	121.5	290	0.053	2LC0170-8AG	18			
											80	180	161.5	131	0.057	2LC0170-8AG	19			
											80	200	181.5	350	0.059	2LC0170-8AG	20			
											80	250	231.5	400	0.064	2LC0170-8AG	21			
200	1950	4000	-	85	-	90	200	140	140	80	90	140	118.5	310	0.094	2LC0171-0AG	25			
											90	180	158.5	144	0.099	2LC0171-0AG	26			
											90	200	178.5	370	0.104	2LC0171-0AG	27			
											90	250	228.5	420	0.109	2LC0171-0AG	28			
225	2300	3600	-	90	-	100	225	150	150	90	100	140	118.5	330	0.157	2LC0171-1AG	33			
											100	180	158.5	169	0.16	2LC0171-1AG	34			
											100	200	178.5	390	0.17	2LC0171-1AG	35			
											100	250	228.5	440	0.18	2LC0171-1AG	37			
250	3900	3300	46	100	46	110	250	165	165	100	110	180	152.5	390	0.27	2LC0171-2AG	48			
											110	200	172.5	185	0.28	2LC0171-2AG	50			
											110	250	222.5	460	0.3	2LC0171-2AG	52			
280	5500	3000	49	110	51	130	280	180	180	110	120	250	8	222.5	215	480	0.20	0.51	2LC0171-3AG	67
315	7100	2600	49	120	51	140	315	200	200	125	140	250	8	222.5	246	515	0.35	0.85	2LC0171-4AG	96
350	10800	2400	61	140	51	160	350	230	230	140	150	250	8	220.5	272	540	0.61	1.4	2LC0171-5AG	120
400	14000	2000	66	150	51	180	400	250	250	160	180	250	8	185.5	311	590	1.1	2.8	2LC0171-6AG	190
440	19000	1900	80	160	51	190	440	265	265	180	180	250	10	182	354	610	1.7	4.0	2LC0171-7AG	219

Configurable variants<sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

Notes

- For dimension U1, see type A on page 7/11.
- During assembly, the gap dimension S2 must not exceed the permissible tolerance of +1 mm.
- Weights and mass moments of inertia apply to maximum bores.

Ordering example

- N-EUPEX H coupling, size 160, S = 200 mm
- Part 1: Bore D1 60H7 mm, keyway to DIN 6885-1 and set screw
- Part 2: Bore D2 55H7 mm, keyway to DIN 6885-1 and set screw

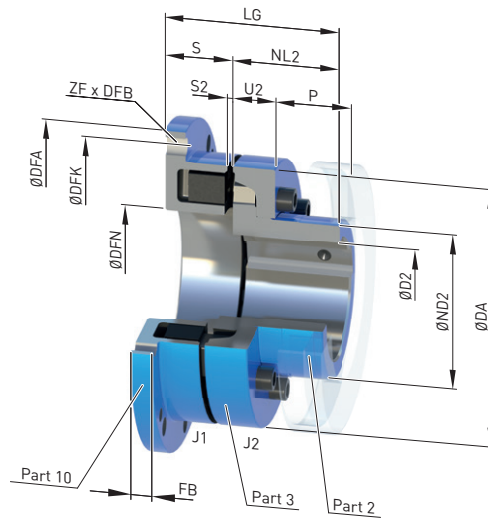
Article no.: 2LC0170-7AG99-0AD0 L1E+M1D

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE D

for easy elastomer flexible replacement



7

Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm										Flange connection dimensions						Mass moment of inertia $J_1$ $J_2$ kgm <sup>2</sup> kgm <sup>2</sup>	Article no. <sup>1)</sup>	Weight $m$ kg
			Bore with keyway to DIN 6885-1		DA	ND2	NL2	S	$\Delta S$ +/-	S2	LG	DFA h8	DFN H7	DFK	FB	ZF	DFB				
110	225	6300	-	45	110	60.5	40	30	1.0	3	70	144	62	128	10	6	$\frac{9}{M8}$	0.0033	0.002	2LC0170-4AD1 2LC0170-4AD2	2.6
125	345	6000	-	55	125	73.5	50	34	1.0	3	84	158	75	142	10	6	$\frac{9}{M8}$	0.005	0.004	2LC0170-5AD1 2LC0170-5AD2	3.5
140	500	5300	-	60	140	80.5	55	37	1.0	3	92	180	82	160	13	6	$\frac{11}{M10}$	0.010	0.007	2LC0170-6AD1 2LC0170-6AD2	5.4
160	840	4800	-	70	160	93.5	60	43	2.0	4	103	200	95	180	13	7	$\frac{11}{M10}$	0.016	0.013	2LC0170-7AD1 2LC0170-7AD2	7.1
180	1250	4300	-	80	180	106	70	46	2.0	4	116	220	110	200	13	8	$\frac{11}{M10}$	0.025	0.023	2LC0170-8AD1 2LC0170-8AD2	9.5
200	1950	3900	-	90	200	119	80	51	2.0	4	131	248	120	224	16	8	$\frac{14}{M12}$	0.049	0.04	2LC0171-0AD1 2LC0171-0AD2	14
225	2300	3600	-	100	225	135	90	56	2.0	4	146	274	135	250	16	8	$\frac{14}{M12}$	0.076	0.07	2LC0171-1AD1 2LC0171-1AD2	19
250	3900	3000	-	115	250	153	100	65.5	2.5	5.5	165.5	314	150	282	20	8	$\frac{18}{M16}$	0.15	0.13	2LC0171-2AD1 2LC0171-2AD2	28
280	5500	3000	54	125	280	168	110	70.5	2.5	5.5	180.5	344	170	312	20	8	$\frac{18}{M16}$	0.23	0.2	2LC0171-3AD1 2LC0171-3AD2	35

### Configurable variants <sup>1)</sup>

- ØD2 Without finished bore  
With finished bore

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm										Flange connection dimensions						Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg
			Bore with keyway to DIN 6885-1		DA	ND2	NL2	S	$\Delta S$ +/-	S2	LG	DFA h8	DFN H7	DFK	FB	ZF	DFB	$J_1$ kgm <sup>2</sup>	$J_2$ kgm <sup>2</sup>			
D2 min.	max.																					
315	7100	2500	45	145	315	196	125	75.5	2.5	5.5	200.5	380	200	348	22	9	18 M16	0.4	0.37	2LC0171-4AD1 2LC0171-4AD2	48	
350	10800	2200	60	165	350	226	140	79.5	2.5	5.5	219.5	430	225	390	25	9	22 M20	0.7	0.64	2LC0171-5AD1 2LC0171-5AD2	68	
400	14000	2000	65	180	400	246	160	83.5	2.5	5.5	243.5	480	265	440	25	10	22 M20	1.1	1.1	2LC0171-6AD1 2LC0171-6AD2	89	
440	19000	1800	80	190	440	261	180	93.5	2.5	7.5	273.5	520	295	480	25	10	22 M20	1.6	1.7	2LC0171-7AD1 2LC0171-7AD2	117	
480	25100	1800	90	215	480	296	190	97.5	2.5	7.5	287.5	575	325	528	30	10	26 M24	2.6	2.7	2LC0171-8AD1 2LC0171-8AD2	149	
520	32400	1500	100	225	520	310	210	109.5	2.5	7.5	319.5	615	355	568	30	10	26 M24	3.6	3.8	2LC0172-0AD1 2LC0172-0AD2	182	

**Configurable variants <sup>1)</sup>**

- ØD2 Without finished bore  
With finished bore

**Notes**

- For dimensions U2 and P, see type A on page 7/11.
- Weights and mass moments of inertia apply to maximum bores.

**Ordering example**

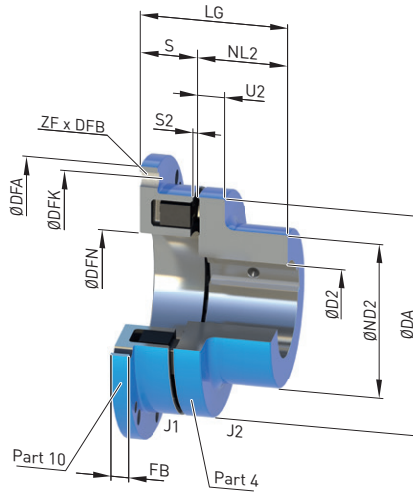
- N-EUPEX D coupling, size 125
- Part 10: with through bores
- Part 2: Bore D2 38H7 mm, with keyway to DIN 6885-1 and set screw

Article no.: 2LC0170-5AD19-0AA0 M0V

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE E



Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm											Mass moment of inertia			Article no. <sup>1)</sup>	Weight $m$ kg			
			Bore with keyway to DIN 6885-1		Flange connection dimensions									$J_1$ kgm <sup>2</sup>	$J_2$ kgm <sup>2</sup>						
			D2 min.	D2 max.	DA	ND2	NL2	S	$\Delta S$ +/-	S2	LG	DFA h8	DFN H7	DFK	FB	ZF	DFB				
68	48	8400	-	30	68	50	20	23	1.0	3	43	90	34	80	7	6	$\frac{5.5}{M5}$	0.0004	0.0002	<u>2LC0170-1AC1</u> <u>2LC0170-1AC2</u>	0.7
80	85	7200	-	42	80	68	30	24	1.0	3	54	106	42	94	8	6	$\frac{6.6}{M6}$	0.0008	0.0006	<u>2LC0170-2AC1</u> <u>2LC0170-2AC2</u>	1.2
95	140	6600	-	48	95	76	35	27	1.0	3	62	120	52	108	8	6	$\frac{6.6}{M6}$	0.0013	0.0012	<u>2LC0170-3AC1</u> <u>2LC0170-3AC2</u>	1.7
110	225	6300	-	55	110	86	40	30	1.0	3	70	144	62	128	10	6	$\frac{9}{M8}$	0.0033	0.0024	<u>2LC0170-4AC1</u> <u>2LC0170-4AC2</u>	2.6
125	345	6000	-	60	125	100	50	34	1.0	3	84	158	75	142	10	6	$\frac{9}{M8}$	0.005	0.005	<u>2LC0170-5AC1</u> <u>2LC0170-5AC2</u>	4.0
140	500	5300	-	65	140	100	55	37	1.0	3	92	180	82	160	13	6	$\frac{11}{M10}$	0.010	0.007	<u>2LC0170-6AC1</u> <u>2LC0170-6AC2</u>	5.5
160	840	4800	-	70	160	108	60	43	2.0	4	103	200	95	180	13	7	$\frac{11}{M10}$	0.016	0.01	<u>2LC0170-7AC1</u> <u>2LC0170-7AC2</u>	7.1

## Configurable variants <sup>1)</sup>

- ØD2 Without finished bore  
With finished bore

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm											Flange connection dimensions						Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg
			Bore with keyway to DIN 6885-1		DA	ND2	NL2	S	$\Delta S$ +/-	S2	LG	DFA h8	DFN H7	DFK	FB	ZF	DFB	$J_1$ kgm <sup>2</sup>	$J_2$ kgm <sup>2</sup>				
			D2 min.	max.																			
180	1250	4300	-	80	180	125	70	46	2.0	4	116	220	110	200	13	8	$\frac{11}{M10}$	0.025	0.02	<u>2LC0170-8AC1</u> <u>2LC0170-8AC2</u>	10		
200	1950	3900	-	85	200	140	80	51	2.0	4	131	248	120	224	16	8	$\frac{14}{M12}$	0.049	0.04	<u>2LC0171-0AC1</u> <u>2LC0171-0AC2</u>	15		
225	2300	3600	-	90	225	150	90	56	2.0	4	146	274	135	250	16	8	$\frac{14}{M12}$	0.076	0.06	<u>2LC0171-1AC1</u> <u>2LC0171-1AC2</u>	19		
250	3900	3000	46	100	250	165	100	65.5	2.5	5.5	165.5	314	150	282	20	8	$\frac{18}{M16}$	0.15	0.11	<u>2LC0171-2AC1</u> <u>2LC0171-2AC2</u>	26		
280	5500	3000	54	110	280	180	110	70.5	2.5	5.5	180.5	344	170	312	20	8	$\frac{18}{M16}$	0.23	0.18	<u>2LC0171-3AC1</u> <u>2LC0171-3AC2</u>	34		

### Configurable variants <sup>1)</sup>

- $\emptyset D2$  Without finished bore  
With finished bore

### Notes

- For dimension U2, see type B on page 7/12.
- Weights and mass moments of inertia apply to maximum bores.

### Ordering example

- N-EUPEX E coupling, size 125
- Part 10: with through bores
- Part 4: Bore D2 38H7 mm, with keyway to DIN 6885-1 and set screw

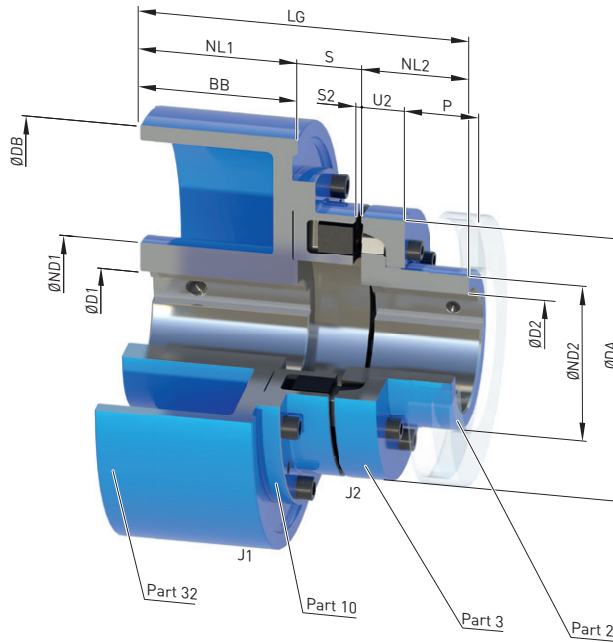
Article no.: **2LC0170-5AC19-0AA0 M0V**

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE P

with brake drum



Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm											Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg				
			Bore with keyway to DIN 6885-1		DA	ND1	ND2	NL1/BB	NL2	S	$\Delta S$ +/-	S2	DB	U2	LG			$J_1$ kgm <sup>2</sup>	$J_2$ kgm <sup>2</sup>		
D1 min.	D1 max.	D2 min.	D2 max.																		
125	345	4800	-	55	-	55	125	84	73.5	75	50	31	1.0	3	200	23	156	0.043	0.004	2LC0170-5AF	11
140	500	3800	-	60	-	60	140	128	80.5	95	55	34	1.0	3	250	28	184	0.13	0.007	2LC0170-6AF	21
160	840	3800	-	70	-	70	160	128	93.5	95	60	40	2.0	4	250	28	195	0.14	0.013	2LC0170-7AF	21
180	1250	3800	-	80	-	80	180	128	106	95	70	41	2.0	4	250	30	206	0.16	0.023	2LC0170-8AF	27
		3000	-	80	-	80	180	128	118	118	70	43	2.0	4	315	30	231	0.35		2LC0170-8AF	34
200	1950	3000	-	80	-	80	200	128	118	118	80	48	2.0	4	315	32	246	0.37	0.04	2LC0171-0AF	39
		2400	-	90	-	90	200	160	119	150	80	48	2.0	4	400	32	278	1.1		2LC0171-0AF	59
		1900	-	110 <sup>2)</sup>	-	110	200	175	119	190	80	48	2.0	4	500	32	318	2.8		2LC0171-0AF	97
225	2300	3000	-	80	-	80	225	128	118	118	90	51	2.0	4	315	38	259	0.39	0.07	2LC0171-1AF	46
		2400	-	90	-	90	225	160	135	150	90	53	2.0	4	400	38	293	1.1		2LC0171-1AF	64
		1900	38	110	-	110	225	175	135	190	90	53	2.0	4	500	38	333	3.1		2LC0171-1AF	103

### Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>2)</sup> For bore diameters greater than the following values, the feather key must be at least 3 mm behind the shaft end. Size 200 D1 > 100 mm.

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm													Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg		
			Bore with keyway to DIN 6885-1			DA	ND1	ND2	NL1/BB	NL2	S	$\Delta S$ +/-	S2	DB	U2	LG	$J_1$ kgm <sup>2</sup>			$J_2$ kgm <sup>2</sup>	
D1	D2		min.	max.	min.													max.			
250	3900	2400	-	100	-	115	250	160	153	150	100	62.5	2.5	5.5	400	42	312.5	1.16	0.13	2LC0171-2AF	74
		1900	38	110	-	115	250	175	190	190	100	62.5	2.5	5.5	500	42	352.5	2.9		2LC0171-2AF	111
		2400	-	100	-	115	250	160	150	150	100	65.5	2.5	5.5	400	42	325.5	1.24		2LC0171-3AF	82
280	5500	1500	48	110	54	125	280	175	168	190	110	67.5	2.5	5.5	500	42	367.5	3.1	0.2	2LC0171-3AF	115
		1500	48	110	-	125	280	175	236	236	110	67.5	2.5	5.5	630	42	413.5	8.0		2LC0171-3AF	168
		2400	-	100	-	125	280	160	150	150	110	72.5	2.5	5.5	400	42	347.5	1.4		2LC0171-4AF	92
315	7100	1900	48	110	45	145	315	175	196	190	125	72.5	2.5	5.5	500	47	387.5	3.3	0.37	2LC0171-4AF	131
		1500	48	110	-	145	315	175	236	236	125	72.5	2.5	5.5	630	47	433.5	8.2		2LC0171-4AF	180
		1300	55	120	-	145	315	192	265	265	125	72.5	2.5	5.5	710	47	462.5	14.2		2LC0171-4AF	233
350	10800	1500	48	110	60	165	350	175	226	236	140	76.5	2.5	5.5	630	51	452.5	8.5	0.64	2LC0171-5AF	197
		1300	55	120	-	165	350	192	265	265	140	76.5	2.5	5.5	710	51	481.5	14.6		2LC0171-5AF	251

Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

Notes

- For dimension P, see type A on page 7/11.
- Weights and mass moments of inertia apply to maximum bores.

Ordering example

- N-EUPEX P coupling, size 200, brake drum 315 x 118 mm
- Part 32: Bore D1 55H7 mm, keyway to DIN 6885-1 P9 and set screw
- Part 4: Bore D2 60H7 mm, keyway to DIN 6885-1 and set screw
- Coupling micro-balanced G 6.3 at 1500 rpm in accordance with half parallel key standard

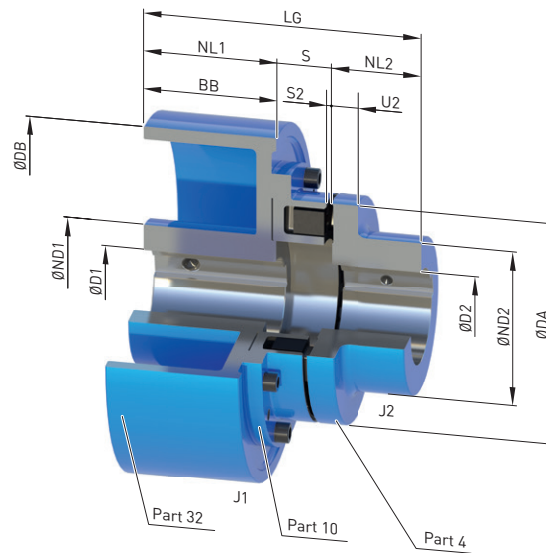
Article no.: 2LC0171-0AF99-0DA0-Z L1D+M1E+W02+Y95  
Plain text to Y95: G=6.3;n=1500rpm

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE O

with brake drum



7

Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm														Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg	
			Bore with keyway to DIN 6885-1				DA	ND1	ND2	NL1/BB	NL2	S	$\Delta S$ +/-	S2	DB	U2	LG	$J_1$ kgm <sup>2</sup>			$J_2$ kgm <sup>2</sup>
			D1 min.	D1 max.	D2 min.	D2 max.															
125	345	4800	-	55	-	60	125	84	100	75	50	31	1.0	3	200	18	156	0.043	0.005	2LC0170-5AE	11
140	500	3800	-	60	-	65	140	128	100	95	55	34	1.0	3	250	20	184	0.13	0.007	2LC0170-6AE	22
160	840	3800	-	70	-	70	160	128	108	95	60	40	2.0	4	250	20	195	0.14	0.01	2LC0170-7AE	24
180	1250	3800	-	80	-	80	180	128	125	95	70	41	2.0	4	250	20	206	0.16	0.02	2LC0170-8AE	28
		3000	-	80	118	43				315		231			0.35		2LC0170-8AE			35	
200	1950	3000	-	80	-	85	200	160	140	118	80	48	2.0	4	315	24	246	0.37	0.04	2LC0171-0AE	40
		2400	-	90	128	48				400		278			1.10		2LC0171-0AE			60	
		1900	-	110 <sup>2)</sup>	175	48				500		318			2.80		2LC0171-0AE			98	

### Configurable variants<sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>2)</sup> For bore diameters greater than the following values, the feather key must be at least 3 mm behind the shaft end. Size 200 D1 > 100 mm.

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Speed		Dimensions in mm												Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg				
		$n_{Kmax}$ rpm		Bore with keyway to DIN 6885-1													$J_1$ kgm <sup>2</sup>			$J_2$ kgm <sup>2</sup>			
			min.	max.	D2 min.	max.	DA	ND1	ND2	NL1/BB	NL2	S	$\Delta S$ +/-	S2	DB	U2	LG						
225	2300	3000	-	80				128	118			51			315	18	259	0.39			2LC0171-1AE	45	
		2400	-	90	-	90	225	160	150	150	90	53	2.0	4	400	18	293	1.10	0.06			2LC0171-1AE	63
		1900	38	110				175	190			53			500	18	333	3.10				2LC0171-1AE	102
250	3900	2400	-	100				160	165	150		62.5	2.5	5.5	400	18	312.5	1.16			2LC0171-2AE	73	
		1900	38	110	46	100	250	175	190	190	100	62.5			500	18	352.5	2.90	0.11			2LC0171-2AE	108
		2400	-	100				160	150			65.5			400	18	325.5	1.24				2LC0171-3AE	82
280	5500	1900	48	110	54	110	280	175	180	190	110	67.5	2.5	5.5	500	20	367.5	3.10	0.18			2LC0171-3AE	115
		1500	48	110				175	236			67.5			630	20	413.5	8.0				2LC0171-3AE	168

Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

Notes

- Weights and mass moments of inertia apply to maximum bores.

Ordering example

- N-EUPEX O coupling, size 200, brake drum 315 x 118 mm
- Part 32: Bore D1 55H7 mm, keyway to DIN 6885-1 P9 and set screw
- Part 4: Bore D2 60H7 mm, keyway to DIN 6885-1 and set screw
- Coupling micro-balanced G 6.3 at 1500 rpm in accordance with half parallel key standard

Article no.: 2LC0171-0AE99-0DA0-Z L1D+M1E+W02+Y95  
Plain text to Y95: G=6.3;n=1500rpm

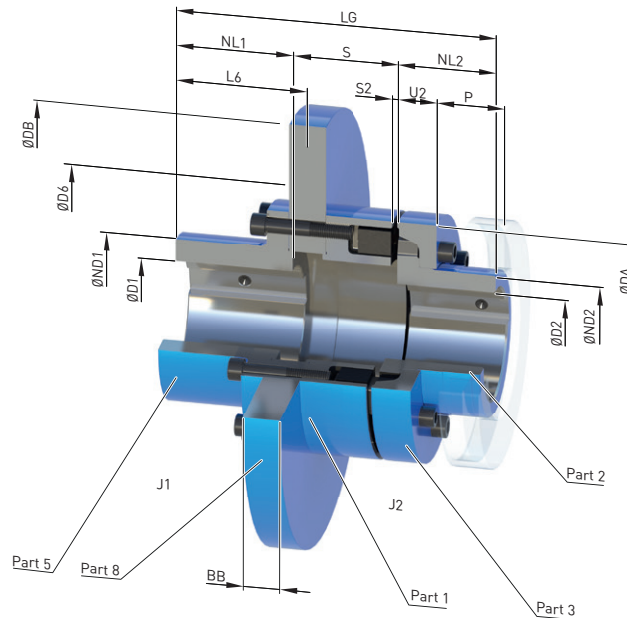
<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE DBDR

with brake disk

7



Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Dimensions in mm																Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg
		Bore with keyway to DIN 6885-1			DA	ND1	ND2	NL1	NL2	S	$\Delta S$ +/-	S2	DB <sup>2)</sup> min.	D6 min.	BB <sup>2)</sup>	L6	LG	$J_1$ min. kgm <sup>2</sup>	$J_2$ kgm <sup>2</sup>		
		D1 max.	D2 min.	max.																	
140	500	60	-	60	140	85	80.5	72	54.35	1.0	3	315	150	12.7	74	181.35	0.11	0.008	2LC0170-6AV	14.7	
								188	73					30	200	316	0.24			16.2	
								90	58.35					12.7	91	208.35	0.12			18.5	
160	840	75	-	70	160	105	93.5	90	62.5	2.0	4	315	170	15	94	212.5	0.14	0.013	2LC0170-7AV	20	
								188	78					30	200	326	0.26			26.9	
								90	60.35					12.7	91	220.35	0.35			18.5	
180	1250	90	-	80	180	125	106	90	64.5	2.0	4	315	190	15	94	224.5	0.37	0.024	2LC0170-8AV	26	
								188	80					30	200	338	0.57			42	
								95	67.35					12.7	97	242.35	0.32			32	
200	1950	95	-	90	200	135	119	95	70.5	2.0	4	355	210	15	99	245.5	0.36	0.04	2LC0171-0AV	35	
								188	86					30	200	354	0.67			54	

### Configurable variants <sup>1)</sup>

- ØD1 With finished bore
- ØD2 Without finished bore  
With finished bore

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>2)</sup> For the available DB · BB brake disk dimensions, please refer to the product configurator on [flender.com](http://flender.com).

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Dimensions in mm															Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg	
		Bore with keyway to DIN 6885-1			DA	ND1	ND2	NL1	NL2	S	$\Delta S$ +/-	S2	DB <sup>2)</sup>	D6	BB <sup>2)</sup>	L6	LG	$J_1$ min. kgm <sup>2</sup>			$J_2$ kgm <sup>2</sup>
225	2300	115	-	100	225	160	135	100	90	72.35	2.0	4	400	235	12.7	103	262.35	0.52	0.08	2LC0171-1AV	43
					188	90	74.5	30	200	368				1.1	46						
					188	90	74.5	30	200	368				1.1	71						
250	3900	120	-	115	250	170	153	105	100	83.35	+2/-3	6	450	260	12.7	107	288.35	1.6	0.12	2LC0171-2AV	56
					188	102	86.5	30	200	390				2.5	59						
					188	102	86.5	30	200	390				2.5	88						
280	5500	140	54	125	280	200	168	120	110	87.35	+2/-3	6	500	350	12.7	122	317.35	1.3	0.19	2LC0171-3AV	73
					188	106	90.5	30	200	404				2.7	77						
					188	106	90.5	30	200	404				2.7	112						
315	7100	140	45	145	315	200	196	130	125	87.35	+2/-3	6	500	350	12.7	130	342.35	2.1	0.33	2LC0171-4AV	95
					188	108	92.5	30	200	421				4.2	100						
					188	108	92.5	30	200	421				4.2	140						
350	10800	165	60	165	350	230	226	135	140	97.35	+2/-3	6	500	360	12.7	136	372.35	3.3	0.57	2LC0171-5AV	129
					188	117	101.5	30	200	445				6.7	134						
					188	117	101.5	30	200	445				6.7	184						

Configurable variants <sup>1)</sup>

- ØD1 With finished bore
- ØD2 Without finished bore  
With finished bore

Notes

- For dimensions U2 and P, see type A on page 7/11.
- Weights and mass moments of inertia apply to maximum bores.
- Maximum speed  $n_{max} = 1528/DB$  ( $n_{max}$  in rpm, DB in m)  
Observe maximum speed of type A.
- Other brake disk diameters DB and brake disk widths BB on request.

Ordering example

- N-EUPEX DBDR coupling, size 200,  
brake disk 450 x 30 mm
- Part 5: Bore D1 55H7 mm, keyway to DIN 6885-1 P9  
and set screw
- Part 2: Bore D2 60H7 mm, keyway to DIN 6885-1  
and set screw
- Coupling micro-balanced G 6.3 at 1500 rpm in accordance with  
half parallel key standard

Article no.: 2LC0171-0AV99-0GA0-Z L1D+M1E+W02+Y95  
Plain text to Y95: G=6.3;n=1500rpm

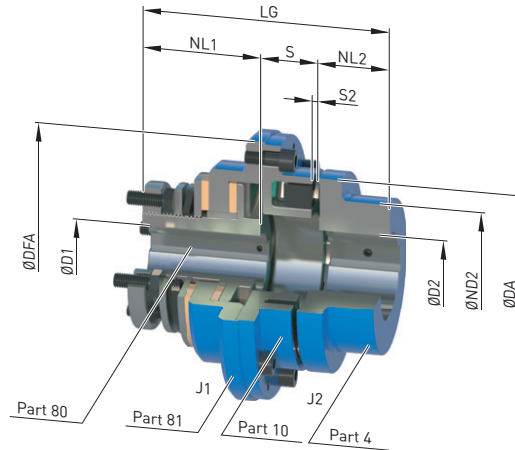
<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flieder.com](http://flieder.com).

<sup>2)</sup> For the available DB · BB brake disk dimensions, please refer to the product configurator on [flieder.com](http://flieder.com).

➤ For online configuration on [flieder.com](http://flieder.com), click on the item no.

# TYPE ERN

with slip unit



7

Size	Rated torque flexible type 80 ShoreA $T_{KN}$ Nm	Maximum slip torque <sup>2)</sup> Spring set		Speed $n_{Kmax}$ rpm	Dimensions in mm										Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg	
		$T_{R1}$ Nm	$T_{R2}$ Nm		Bore with keyway to DIN 6885-1		DA	ND2	NL1	NL2	S	$\Delta S$ +/-	S2	DFA	LG	$J_1$ kgm <sup>2</sup>			$J_2$ kgm <sup>2</sup>
					D1 max.	D2 max.													
80	85	130	240	3800	30	42	80	68	55	30	25	1.0	3	109	110	0.0039	0.0006	2LC0170-2BE	3.3
95	140	190	340	3600	35	48	95	76	66	35	28	1.0	3	123	129	0.007	0.0012	2LC0170-3BE	4.8
110	225	190	340	3600	35	55	110	86	66	40	31	1.0	3	147	137	0.010	0.0024	2LC0170-4BE	5.8
125	345	350	650	3000	45	60	125	100	77	50	35	1.0	3	161	162	0.017	0.005	2LC0170-5BE	8.9
140	500	650	1200	2500	60	65	140	100	86	55	38	1.0	3	183	179	0.035	0.008	2LC0170-5BE	13
160	840	650	1200	2500	60	70	160	108	86	60	44	2.0	4	204	190	0.050	0.013	2LC0170-7BE	15
180	1250	1000	1800	2100	65	80	180	125	93	70	47	2.0	4	224	210	0.084	0.025	2LC0170-8BE	22
200	1950	2200	4000	1800	80	85	200	140	105	80	52	2.0	4	252	237	0.16	0.044	2LC0171-0BE	32
225	2300	2200	4000	1800	80	90	225	150	105	90	57	2.0	4	278	252	0.22	0.064	2LC0171-1BE	37
250	3900	3800	6800	1500	90	100	250	165	120	100	66.5	2.5	5.5	319	286.5	0.51	0.10	2LC0171-2BE	60
280	5500	5500	10000	1500	120	110	280	180	120	110	71.5	2.5	5.5	349	301.5	0.77	0.17	2LC0171-3BE	74

### Configurable variants <sup>1)</sup>

- ØD1 With finished bore
- ØD2 Without finished bore  
With finished bore

### Notes

- Weights and mass moments of inertia apply to maximum bores.

### Ordering example

- N-EUPEX ERN coupling, size 200  
Slip torque  $T_R = 4000$  Nm
- Part 1: Bore D1 65H7 mm, keyway to DIN 6885-1 and set screw
- Part 2: Bore D2 50H7 mm, keyway to DIN 6885-1 and set screw

Article no.: 2LC0171-0BE99-2AA0 L1F+M1C

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>2)</sup> Adjustable slip torque according to operating instructions.

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

# GENERAL

## Technical specifications, N-EUPEX DS series

Power ratings of the N-EUPEX DS series						
Size	Rated torque	Maximum torque	Torsional stiffness at 50 % capacity utilization <sup>1)</sup>	Assembly	Permitted shaft misalignment at speed <sup>3)</sup> $n = 1500$ rpm	
	$T_{KN}$ Nm	$T_{Kmax}$ Nm	$C_{Tdyn}$ kNm/rad	Gap dimension <sup>2)</sup> $\Delta S$ mm	Radial $\Delta K_r$ mm	Angle $\Delta K_w$ °
66	19	38	0.73	1.0	0.2	0.15
76	34	68	1.36	1.0	0.2	0.15
88	60	120	2.62	1.0	0.2	0.12
103	100	200	4.00	1.0	0.2	0.12
118	160	320	6.30	1.0	0.2	0.10
135	240	480	10.5	1.0	0.25	0.10
152	360	720	13.6	1.0	0.25	0.10
172	560	1120	27.2	2.0	0.3	0.10
194	880	1760	47.0	2.0	0.3	0.10
218	1340	2680	70.0	2.0	0.3	0.09
245	2000	4000	106	2.0	0.35	0.09
272	2800	5600	149	2.5	0.35	0.08
305	3900	7800	214	2.5	0.4	0.08
340	5500	11000	350	2.5	0.4	0.08
380	7700	15400	480	2.5	0.5	0.08
430	10300	20600	730	2.5	0.5	0.08
472	13500	27000	990	2.5	0.6	0.08
514	16600	33200	1270	2.5	0.6	0.07
556	21200	42400	1540	2.5	0.65	0.07

For coupling fatigue torque:

$T_{KW} = 0,15 \cdot T_{KN}$ , where  $T_N > T_W$  must be adhered to.

### Note

For fitting, the maximum gap dimension of  $S_{max.} = S + \Delta S$  and the minimum gap dimension of  $S_{min.} = S - \Delta S$  are permitted.

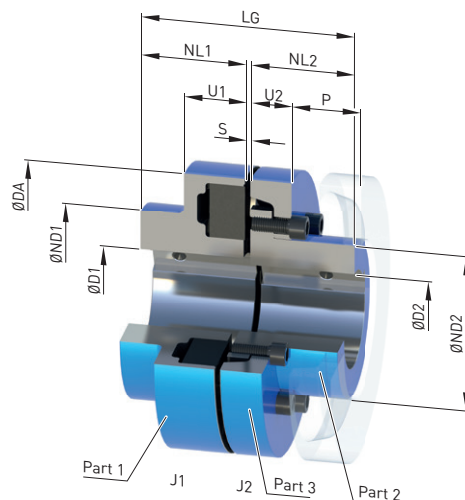
<sup>1)</sup> The correction factors for torsion spring stiffness and permitted shaft misalignment correspond to the specifications for the puncture-proof types page 7/9

<sup>2)</sup> Does not apply to type HDS.

<sup>3)</sup> The maximum speed for the respective type must be noted. For additional information on the allowable shaft misalignment, please refer to the operating instructions.

# TYPE ADS

for easy elastomer flexible replacement



Size	Rated torque $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm													Mass moment of inertia $J_1/J_2$ kgm <sup>2</sup>	Article no. <sup>1)</sup>	Weight $m$ kg
			Bore with keyway to DIN 6885-1				DA	ND1	ND2	NL1/ NL2	S	U1	U2	P	LG			
			D1	D2	min.	max.												
118	160	5300	-	50	-	45	118	86	60.5	40	3	34	20	33	83	0.003	2LC0110-4AB	2.8
135	240	5100	-	60	-	55	135	100	73.5	50	3	36	23	38	103	0.005	2LC0110-5AB	4.3
152	360	4900	-	65	-	60	152	108	80.5	55	3	36	28	43	113	0.008	2LC0110-6AB	5.9
172	560	4250	-	70	-	70	172	118	93.5	60	4	41	28	47	124	0.014	2LC0110-7AB	8.2
194	880	3800	-	80	-	80	194	135	106	70	4	44	30	50	144	0.025	2LC0110-8AB	12
218	1340	3400	-	85	-	90	218	150	119	80	4	47	32	53	164	0.05	2LC0111-0AB	17
245	2000	3000	-	90	-	100	245	150	135	90	4	52	38	61	184	0.08	2LC0111-1AB	23
272	2800	2750	46	100	-	115	272	165	153	100	5.5	60	42	69	205.5	0.14	2LC0111-2AB	32
305	3900	2450	49	110	54	125	305	180	168	110	5.5	65	42	73	225.5	0.22	2LC0111-3AB	43
340	5500	2150	49	120	45	145	340	200	196	125	5.5	70	47	78	255.5	0.39	2LC0111-4AB	61
380	7700	2000	61	140	60	165	380	230	226	140	5.5	74	51	83	285.5	0.69	2LC0111-5AB	86
430	10300	1700	66	150	65	180	430	250	246	160	5.5	78	56	88	325.5	1.2	2LC0111-6AB	120
472	13500	1550	80	160	80	190	472	265	261	180	7.5	86	64	99	367.5	1.9	2LC0111-7AB	161
514	16600	1400	90	180	90	215	514	300	296	190	7.5	90	65	104	387.5	2.9	2LC0111-8AB	206
556	21200	1300	100	190	100	225	556	315	310	210	7.5	102	68	115	427.5	4.1	2LC0112-0AB	256

## Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

## Notes

- Weights and mass moments of inertia apply to maximum bores.

## Ordering example

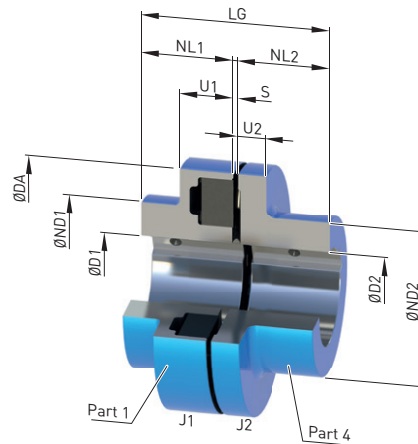
- N-EUPEX ADS coupling, size 135
- Part 1: Bore D1 42H7 mm, keyway to DIN 6885-1 and set screw
- Part 2: Bore D2 32H7 mm, keyway to DIN 6885-1 and set screw

Article no.: 2LC0110-5AB99-0AA0 L0X+M0T

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE BDS



7

Size	Rated torque $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm											Mass moment of inertia $J_1/J_2$ kgm <sup>2</sup>	Article no. <sup>1)</sup>	Weight $m$ kg	
			Bore with keyway to DIN 6885-1				DA	ND1	ND2	NL1/ NL2	S	U1	U2				LG
			D1 min.	D1 max.	D2 min.	D2 max.											
66	19	7500	-	20	-	25	66	66	40	20	3	20	8	43	0.0001	2LC0110-0AA	0.46
76	34	7000	-	28	-	30	76	76	50	20	3	20	8	43	0.0002	2LC0110-1AA	0.64
88	60	6000	-	35	-	42	88	88	68	30	3	30	10	63	0.0008	2LC0110-2AA	1.4
103	100	5500	-	45	-	48	103	76	76	35	3	30	12	73	0.0015	2LC0110-3AA	2.1
118	160	5300	-	50	-	55	118	86	86	40	3	34	14	83	0.003	2LC0110-4AA	3.0
135	240	5100	-	60	-	60	135	100	100	50	3	36	18	103	0.006	2LC0110-5AA	5.1
152	360	4900	-	65	-	65	152	108	100	55	3	36	20	113	0.009	2LC0110-6AA	6.4
172	560	4250	-	70	-	70	172	118	108	60	4	41	20	124	0.016	2LC0110-7AA	8.7
194	880	3800	-	80	-	80	194	135	125	70	4	44	20	144	0.028	2LC0110-8AA	13
218	1340	3400	-	85	-	85	218	150	140	80	4	47	24	164	0.052	2LC0111-0AA	19
245	2000	3000	-	90	-	90	245	150	150	90	4	52	18	184	0.078	2LC0111-1AA	24
272	2800	2750	46	100	46	100	272	165	165	100	5.5	60	18	205.5	0.13	2LC0111-2AA	32
305	3900	2450	49	110	54	110	305	180	180	110	5.5	65	20	225.5	0.21	2LC0111-3AA	43

### Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

### Ordering example

- N-EUPEX BDS coupling, size 103
- Part 1: Bore D1 42H7 mm, keyway to DIN 6885-1 and set screw
- Part 4: Bore D2 32H7 mm, keyway to DIN 6885-1 and set screw

Article no.: 2LC0110-3AA99-0AA0 L0X+M0T

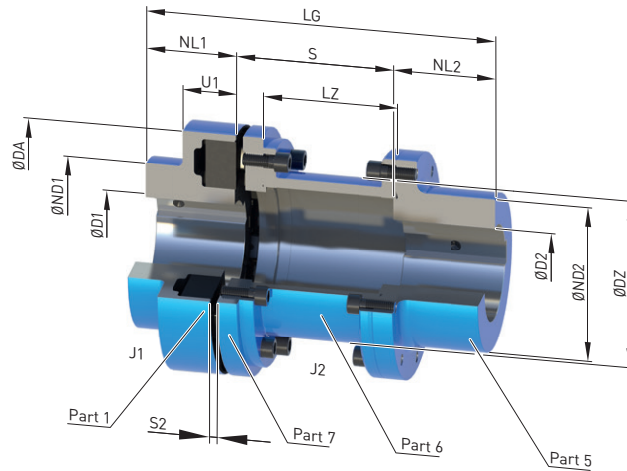
### Notes

- Weights and mass moments of inertia apply to maximum bores.

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE HDS



Size	Rated torque $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm													Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg		
			Bore with keyway to DIN 6885-1						DA	ND1	ND2	NL1	NL2	S	S2	LZ	DZ			LG	$J_1$ kgm <sup>2</sup>
			D1 min.	D1 max.	D2 min.	D2 max.															
88	60	6000	-	35	-	38 <sup>2)</sup>	88	88	55	30	45	100	5	87	175	0.0007	0.0014	2LC0110-2AC	2.6		
103	100	5500	-	45	-	48 <sup>2)</sup>	103	76	70	35	45	100	5	87	180	0.001	0.0029	2LC0110-3AC	3.8		
118	160	5300	-	50	-	55 <sup>2)</sup>	118	86	80	40	50	100	5	85	190	0.003	0.0059	2LC0110-4AC	4.9		
											50	140	5	125	73		230	0.0063	2LC0110-4AC	5.3	
											60	180	5	165	280		0.0066	2LC0110-4AC	5.7		
											50	100	5	85	200		0.01	2LC0110-5AC	7.3		
135	240	5100	-	60	-	60 <sup>2)</sup>	135	100	90	50	50	140	5	125	240	0.006	0.01	2LC0110-5AC	7.8		
											60	180	5	165	85		290	0.012	2LC0110-5AC	8.2	
											70	200	5	185	320		0.012	2LC0110-5AC	8.5		
											80	250	5	235	380		0.013	2LC0110-5AC	9.0		
											65	100	5	82	220		0.02	2LC0110-6AC	10.8		
152	360	4900	-	65	-	65 <sup>2)</sup>	152	108	100	55	65	140	5	122	260	0.011	0.02	2LC0110-6AC	11.3		
											65	180	5	162	91		300	0.022	2LC0110-6AC	11.8	
											65	200	5	182	320		0.023	2LC0110-6AC	12.1		
											80	250	5	232	385		0.024	2LC0110-6AC	12.6		

### Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>2)</sup> For bore diameters greater than the following values, the feather key must be at least 3 mm behind the shaft end. Size 88 D2 > 32 mm; size 103 D2 > 42 mm; size 118 D2 > 50 mm; size 135 D2 > 59 mm; size 152 D2 > 64 mm.

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

Size	Rated torque $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm													Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg				
			Bore with keyway to DIN 6885-1				DA	ND1	ND2	NL1	NL2	S	S2	LZ	DZ	LG	$J_1$ kgm <sup>2</sup>			$J_2$ kgm <sup>2</sup>			
D1	D2		DA	ND1	ND2	NL1												NL2	S		S2	LZ	DZ
min.	max.	min.	max.																				
172	560	4250	-	70	-	70	172	118	108	60							70	100	81.5	230	0.03	2LC0110-7AC	13.8
																	70	140	121.5	270	0.034	2LC0110-7AC	14.5
																	70	180	161.5	310	0.036	2LC0110-7AC	15.4
																	70	200	181.5	330	0.037	2LC0110-7AC	15.7
																	80	250	231.5	390	0.039	2LC0110-7AC	16.7
194	880	3800	-	80	-	80	194	135	125	70	80						140	121.5	290	0.057	2LC0110-8AC	20	
																	180	161.5	330	0.061	2LC0110-8AC	21	
																	200	181.5	350	0.063	2LC0110-8AC	22	
																	250	231.5	400	0.068	2LC0110-8AC	23	
																	140	118.5	310	0.10	2LC0111-0AC	30	
218	1340	3400	-	85	-	90	218	150	140	80	90						180	158.5	350	0.062	2LC0111-0AC	31	
																	200	178.5	370	0.11	2LC0111-0AC	32	
																	250	228.5	420	0.12	2LC0111-0AC	33	
																	140	118.5	330	0.16	2LC0111-1AC	34	
																	180	158.5	370	0.17	2LC0111-1AC	35	
245	2000	3000	-	90	-	100	245	150	150	90	100						200	178.5	390	0.09	2LC0111-1AC	36	
																	250	228.5	440	0.18	2LC0111-1AC	38	
																	140	118.5	330	0.16	2LC0111-1AC	34	
																	180	158.5	370	0.17	2LC0111-1AC	35	
																	200	178.5	390	0.18	2LC0111-1AC	36	
272	2800	2750	46	100	46	110	272	165	165	100	110						180	152.5	390	0.3	2LC0111-2AC	51	
																	200	172.5	410	0.16	2LC0111-2AC	52	
																	250	222.5	460	0.33	2LC0111-2AC	55	
																	140	118.5	330	0.16	2LC0111-1AC	34	
																	180	158.5	370	0.17	2LC0111-1AC	35	
305	3900	2450	49	110	51	130	305	180	180	110	120	250	8	222.5	215	480	0.28	0.51	2LC0111-3AC	71			
340	5500	2150	49	120	51	140	340	200	200	125	140	250	8	222.5	246	515	0.50	0.85	2LC0111-4AC	101			
380	7700	2000	61	140	51	160	380	230	230	140	150	250	8	220.5	272	540	0.80	1.4	2LC0111-5AC	125			
430	10300	1700	66	150	51	180	430	250	250	160	180	250	8	185.5	311	590	1.4	2.4	2LC0111-6AC	195			
472	13500	1550	80	160	51	190	472	265	265	180	180	250	10	182	354	610	2.1	4.0	2LC0111-7AC	224			

Configurable variants<sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

Notes

- For dimension U1, see type ADS on page 7/30 and type BDS on page 7/31.
- During assembly, the gap dimension S2 must not exceed the permissible tolerance of +1 mm.
- For sizes 305 to 472 the outer diameter of part 5 and part 7 is smaller than ØDA.
- Weights and mass moments of inertia apply to maximum bores.

Ordering example

- N-EUPEX HDS coupling, size 103, S = 100 mm
- Part 1: Bore D1 42H7 mm, keyway to DIN 6885-1 and set screw
- Part 5: Bore D2 32H7 mm, keyway to DIN 6885-1 and set screw
- Coupling micro-balanced G6.3 at 1500 rpm in accordance with half parallel key standard

Article no.: 2LC0110-3AC99-0AA0-Z L0X+M0T+W02+Y95  
Plain text to Y95: G=6.3;n=1500rpm

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

# SPARE AND WEAR PARTS

## Elastomer flexibles of the N-EUPEX series

NBR elastomer flexibles 80 ShoreA standard type			
Size	Article No. (flexible set for one coupling)	Number of flexibles per set	Weight per set kg
58	2LC0170-0WA00-0AA0	4	0.012
68	2LC0170-1WA00-0AA0	5	0.015
80	2LC0170-2WA00-0AA0	6	0.02
95	2LC0170-3WA00-0AA0	6	0.03
110	2LC0170-4WA00-0AA0	6	0.045
125	2LC0170-5WA00-0AA0	6	0.06
140	2LC0170-6WA00-0AA0	6	0.09
160	2LC0170-7WA00-0AA0	7	0.12
180	2LC0170-8WA00-0AA0	8	0.17
200	2LC0171-0WA00-0AA0	8	0.23
225	2LC0171-1WA00-0AA0	8	0.3
250	2LC0171-2WA00-0AA0	8	0.38
280	2LC0171-3WA00-0AA0	8	0.55
315	2LC0171-4WA00-0AA0	9	0.7
350	2LC0171-5WA00-0AA0	9	0.85
400	2LC0171-6WA00-0AA0	10	1.2
440	2LC0171-7WA00-0AA0	10	1.5
480	2LC0171-8WA00-0AA0	10	2.1
520	2LC0172-0WA00-0AA0	10	2.6
560	2LC0172-1WA00-0AA0	10	3.6
610	2LC0172-2WA00-0AA0	10	4.9
660	2LC0172-3WA00-0AA0	10	6.3
710	2LC0172-4WA00-0AA0	10	7.6

HP elastomer flexibles for type DK/DKS (two-joint)			
Size	Article No. (flexible set for one coupling)	Number of flexibles per set	Weight per set kg
68	2LC0170-1VD00-0AA0	10	0.03
80	2LC0170-2VD00-0AA0	12	0.04
95	2LC0170-3VD00-0AA0	12	0.06
110	2LC0170-4VD00-0AA0	12	0.09
125	2LC0170-5VD00-0AA0	12	0.12
140	2LC0170-6VD00-0AA0	12	0.18
160	2LC0170-7VD00-0AA0	14	0.24
180	2LC0170-8VD00-0AA0	16	0.34
200	2LC0171-0VD00-0AA0	16	0.46
225	2LC0171-1VD00-0AA0	16	0.6
250	2LC0171-2VD00-0AA0	16	0.8
280	2LC0171-3VD00-0AA0	16	1.1

### Notes

- The elastomer flexibles are wear parts. The service life depends on the operating conditions.

## Elastomer flexibles of the N-EUPEX DS series

NBR elastomer flexibles standard type			
Size	Article No. (flexible set for one coupling)	Number of flexibles per set	Weight per set kg
66	2LC0110-0WA00-0AA0	4	0.012
76	2LC0110-1WA00-0AA0	5	0.015
88	2LC0110-2WA00-0AA0	6	0.021
103	2LC0110-3WA00-0AA0	6	0.033
118	2LC0110-4WA00-0AA0	6	0.048
135	2LC0110-5WA00-0AA0	6	0.072
152	2LC0110-6WA00-0AA0	6	0.1
172	2LC0110-7WA00-0AA0	7	0.16
194	2LC0110-8WA00-0AA0	8	0.21
218	2LC0111-0WA00-0AA0	8	0.28
245	2LC0111-1WA00-0AA0	8	0.45
272	2LC0111-2WA00-0AA0	8	0.64
305	2LC0111-3WA00-0AA0	8	0.72
340	2LC0111-4WA00-0AA0	9	0.92
380	2LC0111-5WA00-0AA0	9	1.2
430	2LC0111-6WA00-0AA0	10	1.6
472	2LC0111-7WA00-0AA0	10	2.0
514	2LC0111-8WA00-0AA0	10	2.5
556	2LC0112-0WA00-0AA0	10	3.2

### Notes

- The elastomer flexibles are wear parts. The service life depends on the operating conditions.

## Friction linings of the N-EUPEX type ERN

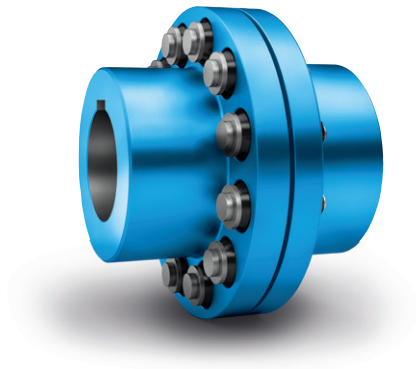
Friction linings, standard version			
Size	Article No. (set for one coupling)	Number of friction linings per set	Weight per set kg
80	2LC0170-2VK00-0AA0	2	0.05
95	2LC0170-3VK00-0AA0	2	0.06
110	2LC0170-4VK00-0AA0	2	0.06
125	2LC0170-5VK00-0AA0	2	0.10
140	2LC0170-6VK00-0AA0	2	0.12
160	2LC0170-7VK00-0AA0	2	0.12
180	2LC0170-8VK00-0AA0	2	0.23
200	2LC0171-0VK00-0AA0	2	0.34
225	2LC0171-1VK00-0AA0	2	0.34
250	2LC0171-2VK00-0AA0	2	0.60
280	2LC0171-3VK00-0AA0	2	0.66

### Notes

- The friction linings are wear parts. The service life depends on the operating conditions.



# FLEXIBLE COUPLINGS RUPEX SERIES

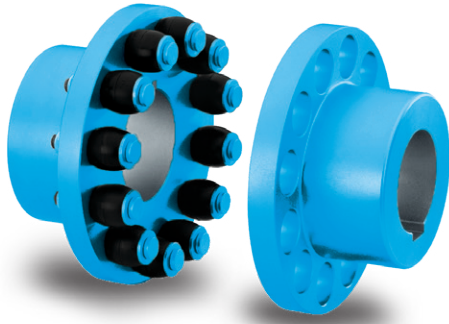


<b>General</b>	<b>8/3</b>
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<b>Type RFN – Hub material grey cast iron</b>	<b>8/12</b>
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-----	
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<b>Type RBS – with brake disk to DIN 15432</b>	<b>8/18</b>
<b>Type RWB – with brake drum to DIN 15431</b>	<b>8/22</b>
<b>Type RBS – with brake drum to DIN 15431</b>	<b>8/23</b>
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<b>Spare and wear parts</b>	<b>8/24</b>
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# GENERAL



RUPEX pin and bush couplings link machine shafts and compensate for shaft misalignment with weak restorative forces. The torque is conducted through elastomer buffers, so the coupling has typically flexible rubber properties.

## Benefits

RUPEX couplings can also hold loads when overloaded and are therefore especially suitable for drives for special safety and reliability requirements.

Torque shock loads and changing loads are no problem for robust, compact flexible RUPEX couplings.

The steel variant is also especially suitable for high-speed drives.

## Application

RUPEX couplings are available as a catalog standard in 26 sizes with a rated torque of between 200 Nm and 1690000 Nm.

The coupling is suitable for use at ambient temperatures of between -50 °C and +80 °C. By using alternative elastomer buffers, the permissible ambient temperature range can be extended to between -60 °C and +100 °C.



Coupling suitable for use in potentially explosive atmospheres.

Complies with the current ATEX Directive for:

CE II 2G Ex h IIC T6 ... T4 Gb X

II 2D Ex h IIIC T85 °C ... 110 °C Db X

I M2 Ex h Mb X

Thanks to their robust design, RUPEX couplings are also suitable for rough operating conditions.

RUPEX couplings are fitted by putting together the coupling halves. Fitting with low torsional backlash is simplified by the barrel-shaped geometry of the buffers.

RUPEX couplings require little maintenance. Only the elastomer buffers, as wear parts, need be replaced and the coupled machines need not be moved to do so.

RUPEX couplings are suitable for reversing operation and horizontal and vertical fitting or fitting at any required angle.

Frequently, the coupling is used to connect the gear shaft to the driven machine. In the case of drives without gear units, the coupling is particularly suitable for operation in rough conditions or heavy-duty drives with electric motor drive. Ventilator drives with high ventilator mass and drives in the cement industry are typical applications.

Examples of particularly safety-relevant areas of application are cable railway drives, lifting gear for crane drives or escalator drives.

# GENERAL

## Design and configurations

A RUPEX coupling comprises two hub sections which are mounted on the machine shafts. The hub parts are connected positively by steel pins and elastomer buffers. The coupling can be fitted with add-on parts such as brake disks or brake drums.

Up to size 360, the pins and buffers are fitted on one side. From size 400 up, the pins and buffers are fitted in the hubs on alternate sides.

## Materials

- Hubs:  
Types RWN and RWB made of grey cast iron EN-GJL-250  
Types RWS and RBS made of steel
- Flange:  
Types RFN, RFS made of steel
- Pins:  
Material steel 42CrMo4, surface fine-machined

- Brake disks:  
Type RWB made of EN-GJS-400 spheroidal graphite cast iron  
Type RBS made of steel
- Brake drums:  
Type RWB made of EN-GJL-250 grey cast iron  
Type RBS made of steel

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## Buffer material

Material/description	Hardness	Marking	Ambient temperature
<b>NBR standard type</b>	<b>80 ShoreA</b>	<b>Buffer black</b>	<b>-50 °C ... +80 °C</b>
NBR electrically insulating	80 ShoreA	Buffer green	-30 °C ... +80 °C
NBR soft	65 ShoreA	Buffer black with green dot	-50 °C ... +80 °C
NBR hard	90 ShoreA	Buffer black with magenta dot	-50 °C ... +80 °C
NR for low temperature	80 ShoreA	Buffer black with white dot	-60 °C ... +50 °C
HNBR high temperature	80 ShoreA	Buffer black with red dot	-10 °C ... +100 °C

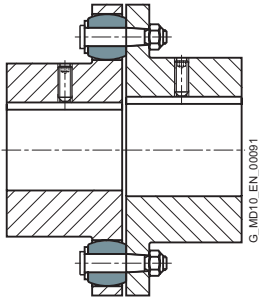
## RUPEX pin and bush coupling types

Type	Description
<b>RWN</b>	Coupling made of grey cast iron
<b>RWS</b>	Coupling made of steel
<b>RWB</b>	Coupling made of grey cast iron with brake drum or brake disk
<b>RBS</b>	Coupling made of steel with brake drum or brake disk
<b>RFN</b>	Coupling made of grey cast iron in flange-shaft variant
<b>RFS</b>	Coupling made of steel in flange-shaft variant

Further application-related coupling types are available. Dimension sheets for and information on these are available on request.

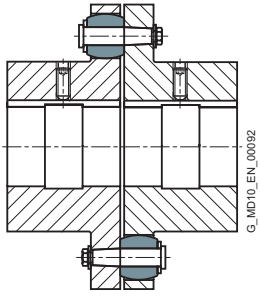
## RUPEX pin and bush coupling types on request

Type	Description
<b>All</b>	Coupling with axial backlash limitation
	Coupling with pretensioned buffers
	Coupling with lengthened pins and spacer sleeves
<b>RKS</b>	Coupling for engaging/disengaging during standstill
<b>RWNH, RWSH</b>	Coupling with extension piece
<b>RBM</b>	Coupling with lengthened pins for sliding rotor motors
<b>RAK</b>	Coupling combination RUPEX with ARPEX all-steel membrane coupling



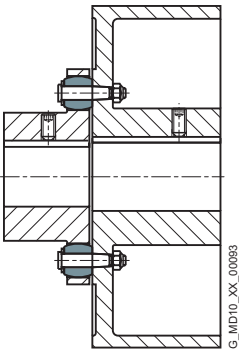
up to size 360

Types RWN/RWS – One-sided arrangement of pins and buffers

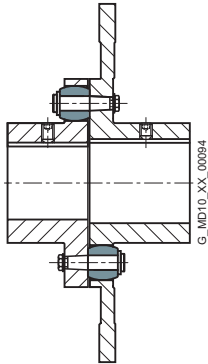


from size 400

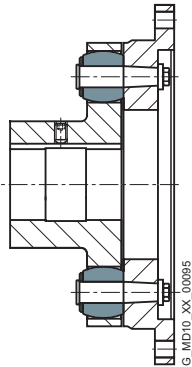
Types RWN/RWS – Alternate-sided arrangement of pins and buffers



Types RWB/RBS with brake drum



Types RWB/RBS with brake disk



Types RFN, RFS

# GENERAL

## Function

The motor torque is transmitted to the hub on the drive side via the shaft-hub connection, which is mostly designed as a keyway connection. With the aid of elastomer buffers mounted on steel pins, the torque is conducted to the hub on the output side. The hub on the output side

further transmits the torque to the driven machine or a gear unit located in between. Because of the primarily compression-loaded buffers, the coupling has a progressive torsional stiffness.

## Technical specifications

Size	Rated torque for buffer type		Maximum torque for buffer type		Torsional stiffness at 50 % capacity utilization for buffer type			Assembly Gap dimension ΔS mm	Permitted shaft misalignment at n = 1500 rpm <sup>1)</sup>	
	65 ShoreA	80/90 ShoreA	65 ShoreA	80/90 ShoreA	65 ShoreA	80 ShoreA	90 ShoreA		Radial ΔK <sub>r</sub> mm	Angle ΔK <sub>w</sub> Degree
	T <sub>KN</sub> Nm	T <sub>KN</sub> <sup>2)</sup> Nm	T <sub>Kmax</sub> Nm	T <sub>Kmax</sub> Nm	C <sub>Tdyn 50 %</sub> kNm/rad	C <sub>Tdyn 50 %</sub> kNm/rad	C <sub>Tdyn 50 %</sub> kNm/rad			
105	120	200	360	600	5	13	21	1	0.21	0.12
125	210	350	630	1050	9	25	37	1	0.23	0.11
144	300	500	900	1500	15	43	64	1	0.25	0.1
162	450	750	1350	2250	20	55	83	1.5	0.27	0.1
178	570	950	1710	2850	31	85	130	1.5	0.29	0.09
198	780	1300	2340	3900	43	123	187	1.5	0.3	0.09
228	1300	2200	3900	6600	65	184	270	1.5	0.34	0.09
252	1650	2750	4950	8250	92	256	380	1.5	0.36	0.08
285	2600	4300	7800	12900	141	390	560	1.5	0.4	0.08
320	3300	5500	9900	16500	195	540	790	1.5	0.43	0.08
360	4700	7800	14100	23400	276	610	940	1.5	0.48	0.08
400	7500	12500	22500	37500	410	1130	1710	1.5	0.52	0.07
450	11000	18500	33000	55500	570	1600	2380	1.5	0.57	0.07
500	15000	25000	45000	75000	860	2350	3600	1.5	0.62	0.07
560	23500	39000	70500	117000	1130	3070	4700	2	0.68	0.07
630	31000	52000	93000	156000	1640	4600	7400	2	0.75	0.07
710	50000	84000	150000	252000	2560	7200	10900	2	0.84	0.07
800	66000	110000	198000	330000	3900	10700	16700	2	0.93	0.07
900	90000	150000	270000	450000	5200	14300	22500	2.5	1.03	0.07
1000	115000	195000	345000	585000	7700	21300	33000	2.5	1.14	0.07
1120	160000	270000	480000	810000	9800	27300	44000	2.5	1.26	0.06
1250	205000	345000	615000	1035000	14000	39000	62000	2.5	1.39	0.06
1400	320000	530000	960000	1590000	22800	62000	97000	3	1.55	0.06
1600	450000	750000	1350000	2250000	37000	103000	160000	3	1.76	0.06
1800	585000	975000	1755000	2925000	48000	133000	208000	4	1.96	0.06
2000	780000	1300000	2340000	3900000	73000	201000	314000	4	2.17	0.06

For coupling fatigue torque:

$$T_{KW} = 0,20 \cdot T_{KN}$$

### Note

For fitting, the maximum gap dimension of S max. = S + ΔS and the minimum gap dimension of S min. = S - ΔS are permitted.

<sup>1)</sup> The maximum speed for the respective type must be noted. For additional information on the allowable shaft misalignment, please refer to the operating instructions.

<sup>2)</sup> Higher rated torque permitted for steel hubs with buffer version 90 Shore A. See information in the type tables for details.

### Torsional stiffness and damping

The values stated in the above table apply to a capacity utilization of 50 %, an excitation amplitude of 10 %  $T_{KN}$  with the frequency 10 Hz and an ambient temperature of 20 °C. The dynamic torsional stiffness is load-dependent and increases in proportion to capacity utilization. The following table shows the correction factors for different rated loads.

$$C_{Tdyn} = C_{Tdyn} 50 \% \cdot FKC$$

	Load $T_N / T_{KN}$							
	20%	40%	50%	60%	70%	80%	90%	100%
Correction factor FKC 65/80/90 ShoreA	0.51	0.83	1	1.18	1.38	1.58	1.8	2.03

### The damping coefficient is $\Psi = 1.4$

Torsional stiffness and damping is further dependent on the ambient temperature and the frequency and amplitude of the torsional vibration excitation. More precise torsional stiffness and damping parameters on request.

With flexible couplings the manufacturing process of the rubber elements and their aging primarily influence the stiffness value  $C_{Tdyn}$ . For this reason calculation must be made with a tolerance for the dynamic stiffness of  $\pm 20 \%$ . The specified damping coefficient  $\Psi$  is a minimum value with the result that the damping performance of the coupling corresponds at least to the specified value.

### Permitted shaft misalignment

The permitted shaft misalignment depends on the operating speed. As the speed increases, lower shaft misalignment values are permitted. The correction factors for different speeds are specified in the following table. The maximum speed for the respective coupling size and type must be noted!

$$\Delta K_{perm} = \Delta K_{1500} \cdot FKV$$

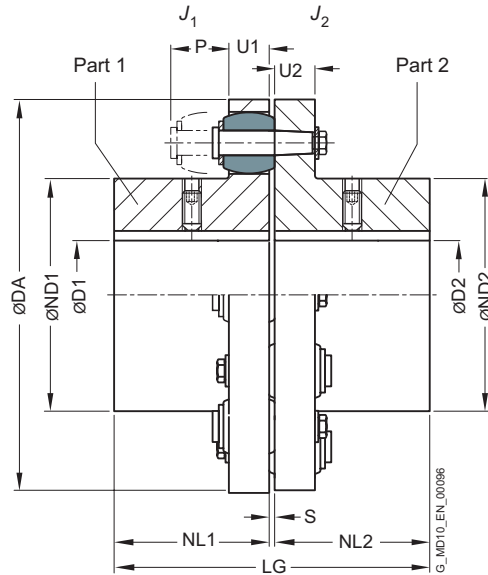
	Speed in rpm			
	500	1000	1500	3000
Correction factor FKV	1.7	1.2	1.0	0.7

For fitting, the maximum gap dimension of  $S_{max.} = S + \Delta S$  and the minimum gap dimension of  $S_{min.} = S - \Delta S$  are permitted.

Shaft misalignments  $\Delta K_r$  and  $\Delta K_w$  may occur simultaneously.

# TYPE RWN

Hub material grey cast iron



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Size	Rated torque buffer 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm													Mass moment of inertia		Article no. <sup>1)</sup>	Weight  $m$ kg
			Bore with keyway DIN 6885-1 D1		D2		DA	ND1	ND2	NL1/ NL2	S	U1	U2	P	LG	$J_1$ kgm <sup>2</sup>	$J_2$ kgm <sup>2</sup>		
			min.	max.	min.	max.													
105 <sup>2)</sup>	200	7000	-	35	-	42	105	53	59	45	3	13	12	30	93	0.001	0.001	2LC0130-1AA	1.9
125 <sup>2)</sup>	350	6000	-	42	-	48	125	65	68	50	3	16	15	35	103	0.002	0.004	2LC0130-2AA	3.2
144	500	5250	-	48	-	60	144	76	84	55	3	16	15	35	113	0.004	0.007	2LC0130-3AA	4.5
162	750	4650	-	55	-	65	162	85	92	60	3.5	20	18	40	123.5	0.007	0.013	2LC0130-4AA	6.5
178	950	4200	-	70	-	75	178	102	108	70	3.5	20	18	40	143.5	0.012	0.02	2LC0130-5AA	8.6
198	1300	3750	-	80	-	90	198	120	128	80	3.5	20	18	40	163.5	0.02	0.033	2LC0130-6AA	12
228	2200	3300	-	90	-	95	228	129	140	90	3.5	26	24	50	183.5	0.038	0.07	2LC0130-7AA	18
252	2750	3000	-	100	-	110	252	150	160	100	3.5	26	24	50	203.5	0.065	0.11	2LC0130-8AA	24
285	4300	2650	48	110	48	120	285	164	175	110	4.5	32	30	60	224.5	0.12	0.21	2LC0131-0AA	36
320	5500	2350	55	120	55	130	320	180	192	125	4.5	32	30	60	254.5	0.21	0.34	2LC0131-1AA	48
360	7800	2100	65	130	65	140	360	200	210	140	4.5	42	42	75	284.5	0.39	0.69	2LC0131-2AA	74
400	12500	2050	75	150	75	150	400	230	230	160	4.5	42	42	75	324.5	0.85	0.85	2LC0131-3AA	99
450	18500	1800	85	170	85	170	450	260	260	180	5.5	52	52	90	365.5	1.6	1.6	2LC0131-4AA	146
500	25000	1600	95	190	95	190	500	290	290	200	5.5	52	52	90	405.5	2.6	2.6	2LC0131-5AA	192
560	39000	1500	100	140	100	140	560	250	250	220	6	68	68	120	446	4.5	4.5	2LC0131-6AA	275
			140	180	140	180		300	300							4.9	4.9		290
			180	200	180	200		320	320							5	5		292
630	52000	1280	100	140	100	140	630	250	250	240	6	68	68	120	486	7.1	7.1	2LC0131-7AA	345
			140	180	140	180		300	300							7.5	7.5		363
			180	220	180	220		355	355							8.2	8.2		389
710	84000	1150	110	160	110	160	710	290	290	260	7	80	80	140	527	13	13	2LC0131-8AA	504
			160	200	160	200		330	330							14	14		512
			200	240	200	240		385	385							15	15		540

### Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [fletcher.com](http://fletcher.com).

<sup>2)</sup> Hub material spheroidal graphite iron EN-GJS 400.

↗ For online configuration on [fletcher.com](http://fletcher.com), click on the item no.

Size	Rated torque buffer 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm												Mass moment of inertia		Article no. <sup>1)</sup>	Weight  m kg	
			Bore with keyway DIN 6885-1				DA	ND1	ND2	NL1/ NL2	S	U1	U2	P	LG	$J_1$ kgm <sup>2</sup>			$J_2$ kgm <sup>2</sup>
			min.	max.	min.	max.													
800	110000	1000	125	180	125	180	800	320	320	290	7	80	80	140	587	22	22	2LC0132-0AA	660
			180	220	180	220		360	360							22	22		670
			220	260	220	260		420	420							24	24		720
900	150000	900	140	220	140	220	900	360	360	320	7.5	90	90	160	647.5	39	39	2LC0132-1AA	900
			220	260	220	260		425	425							41	41		960
			260	290	260	290		465	465							42	42		1000
1000	195000	810	150	240	150	240	1000	395	395	350	7.5	90	90	160	707.5	59	59	2LC0132-2AA	1150
			240	280	240	280		460	460							63	63		1230
			280	320	280	320		515	515							66	66		1300
1120	270000	700	160	200	160	200	1120	360	360	380	8.5	100	100	180	768.5	96	96	2LC0132-3AA	1450
			200	250	200	250		410	410							100	100		1470
			250	300	250	300		495	495							105	105		1600
1250	345000	650	300	350	300	350	1250	560	560	420	8.5	100	100	180	848.5	110	110	2LC0132-4AA	1670
			180	230	180	230		410	410							150	150		1830
			230	280	230	280		460	460							150	150		1870
1400	530000	570	280	330	280	330	1400	540	540	480	9	120	120	210	969	160	160	2LC0132-5AA	2010
			330	380	330	380		610	610							170	170		2130
			200	260	200	260		465	465							280	280		2730
1600	750000	500	260	320	260	320	1600	525	525	540	9	120	120	210	1089	300	300	2LC0132-6AA	2780
			320	380	320	380		620	620							320	320		2990
			380	440	380	440		700	700							470	470		3150
1800	975000	450	440	480	440	480	1800	565	565	600	12	140	140	240	1212	480	480	2LC0132-7AA	3710
			320	380	320	380		720	720							510	510		3790
			440	500	440	500		770	770							530	530		4100
2000	1300000	400	500	540	500	540	2000	660	660	660	12	140	140	240	1332	920	920	2LC0132-8AA	4220
			380	440	380	440		720	720							940	940		5650
			440	500	440	500		820	820							990	990		6160
			500	540	500	540		870	870						1020	1020		6320	
			380	440	380	440		760	760						1420	1420		7340	
			440	500	440	500		820	820						1450	1450		7480	
			500	560	500	560		920	920						1530	1530		8030	
			560	600	560	600		960	960						1570	1570		8130	

Configurable variants<sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

Notes

- The hub diameter of the component part is assigned according to the diameter of the finished bore. Where bore diameters overlap, the component with the smaller hub diameter is always selected.
- Weight and mass moments of inertia apply to maximum bore diameters.
- The article numbers apply to standard buffers of NBR material in the 80 ShoreA variant; the article number for alternative buffer types is available on request.

Ordering example

- RUPEX RWN coupling, size 710
- Part 1: Hub left with bore 180H7 mm, with keyway to DIN 6885-1 and set screw
- Part 2: Hub right with bore 200H7 mm, with keyway to DIN 6885-1 and set screw.

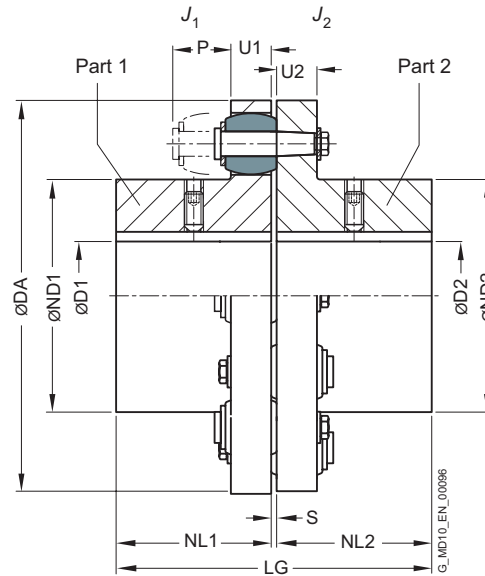
Article no.: 2LC0131-8AA99-0AA0 L2B+M2D

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE RWS

Hub material steel



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Size	Rated torque		Speed $n_{Kmax}$ rpm	Dimensions in mm													Mass moment of inertia		Article no. <sup>2)</sup>	Weight $m$ kg
	buffer 90 ShoreA $T_{KN}^{1)}$ Nm	buffer 80 ShoreA $T_{KN}$ Nm		Bore with keyway DIN 6885-1 D1				DA	ND1	ND2	NL1/ NL2	S	U1	U2	P	LG	$J_1$ kgm <sup>2</sup>	$J_2$ kgm <sup>2</sup>		
	min.	max.		min.	max.	min.	max.													
105	260	200	10000	-	38	-	42	105	53	59	45	3	13	12	30	93	0.001	0.001	2LC0130-1AB	1.7
125	450	350	9000	-	48	-	50	125	65	68	50	3	16	15	35	103	0.003	0.003	2LC0130-2AB	3.0
144	650	500	7800	-	55	-	60	144	76	84	55	3	16	15	35	113	0.004	0.006	2LC0130-3AB	4.3
162	950	750	6900	-	60	-	65	162	85	92	60	3.5	20	18	40	123.5	0.007	0.013	2LC0130-4AB	6.5
178	1200	950	6300	-	75	-	80	178	102	108	70	3.5	20	18	40	143.5	0.014	0.021	2LC0130-5AB	9.1
198	1700	1300	5600	-	90	-	95	198	120	128	80	3.5	20	18	40	163.5	0.020	0.028	2LC0130-6AB	11.2
228	2850	2200	4900	-	95	-	100	228	129	140	90	3.5	26	24	50	183.5	0.036	0.070	2LC0130-7AB	17.5
252	3550	2750	4400	-	110	-	120	252	150	160	100	3.5	26	24	50	203.5	0.066	0.115	2LC0130-8AB	23.6
285	5600	4300	3900	-	120	-	130	285	164	175	110	4.5	32	30	60	224.5	0.12	0.21	2LC0131-0AB	36
320	7150	5500	3500	55	130	55	140	320	180	192	125	4.5	32	30	60	254.5	0.23	0.29	2LC0131-1AB	50
360	10000	7800	3100	65	145	65	150	360	200	210	140	4.5	42	42	75	284.5	0.40	0.69	2LC0131-2AB	73
400	16000	12500	2800	75	170	75	170	400	230	230	160	4.5	42	42	75	324.5	0.83	0.83	2LC0131-3AB	97
450	24000	18500	2500	85	190	85	190	450	260	260	180	5.5	52	52	90	365.5	1.6	1.6	2LC0131-4AB	147
500	32500	25000	2200	95	215	95	215	500	290	290	200	5.5	52	52	90	405.5	2.7	2.7	2LC0131-5AB	192
560	50500	39000	2000	100	165	100	165		250	250						4.8	4.8	2LC0131-6AB	274	
				165	200	165	200	560	300	300	220	6	68	68	120	446	5.2		5.2	292
				200	240	200	240		320	320							5.2		5.2	268
630	67500	52000	1800	100	165	100	165		250	250					7.6	7.6	2LC0131-7AB	352		
				165	200	165	200	630	300	300	240	6	68	68	120	486		7.9	7.9	370
				200	265	200	265		355	355								8.4	8.4	356
710	109000	84000	1600	110	190	110	190		290	290					14.4	14.4	2LC0131-8AB	507		
				190	220	190	220	710	330	330	260	7	80	80	140	527		14.6	14.6	530
				220	280	220	280		385	385								15.5	15.5	509

### Configurable variants<sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

<sup>1)</sup>  $T_{Kmax}$  is given in the specifications on Page 8/6.  
 $T_{KW}$  is determined from the specifications given on Page 8/6.

<sup>2)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

Size	Rated torque		Speed $n_{Kmax}$ rpm	Dimensions in mm											Mass moment of inertia		Article no. <sup>2)</sup>	Weight $m$ kg		
	buffer 90 ShoreA $T_{KN}^{1)}$ Nm	buffer 80 ShoreA $T_{KN}$ Nm		Bore with keyway DIN 6885-1				DA	ND1	ND2	NL1/ NL2	S	U1	U2	P	LG			$J_1$ kgm <sup>2</sup>	$J_2$ kgm <sup>2</sup>
	D1			D2		min.	max.													
800	143000	110000	1400	125	210	125	210	800	320	320	290	7	80	80	140	587	23.1	23.1	2LC0132-0AB	683
				210	240	210	240		360	360							23.3	23.3		715
				240	310	240	310		420	420							25.0	25.0		699
900	195000	150000	1250	140	210	140	210	900	320	320	320	7.5	90	90	160	647.5	40	40	2LC0132-1AB	907
				210	240	210	240		360	360							41	41		933
				240	280	240	280		425	425							44	44		1000
				280	340	280	340		465	465							44	44		948
1000	250000	195000	1100	150	230	150	230	1000	355	355	350	7.5	90	90	160	707.5	63	63	2LC0132-2AB	1170
				230	260	230	260		395	395							64	64		1208
				260	300	260	300		460	460							68	68		1290
				300	380	300	380		515	515							68	68		1220
1120	350000	270000	1000	160	240	160	240	1120	360	360	380	8.5	100	100	180	768.5	105	105	2LC0132-3AB	1560
				240	270	240	270		410	410							106	106		1660
				270	330	270	330		495	495							109	109		1730
				330	410	330	410		560	560							116	116		1720
1250	450000	345000	900	180	270	180	270	1250	410	410	420	8.5	100	100	180	848.5	168	168	2LC0132-4AB	2000
				270	300	270	300		460	460							172	172		2150
				300	360	300	360		540	540							179	179		2200
				360	440	360	440		610	610							185	185		2250
1400	690000	530000	800	200	310	200	310	1400	465	465	480	9	120	120	210	969	316	316	2LC0132-5AB	3020
				310	350	310	350		525	525							322	322		3120
				350	410	350	410		620	620							337	337		3350
				410	510	410	510		700	700							349	349		3280
1600	975000	750000	700	260	370	260	370	1600	565	565	540	9	120	120	210	1089	540	540	2LC0132-6AB	3890
				370	410	370	410		625	625							554	554		4270
				410	480	410	480		720	720							587	587		4300
				480	560	480	560		770	770							598	598		4270
1800	1260000	975000	600	320	440	320	440	1800	660	660	600	12	140	140	240	1212	1043	1043	2LC0132-7AB	6230
				440	480	440	480		720	720							1072	1072		6460
				480	540	480	540		820	820							1122	1122		6770
				540	650	540	650		870	870							1113	1113		6390
2000	1690000	1300000	550	380	500	380	500	2000	760	760	660	12	140	140	240	1332	1628	1628	2LC0132-8AB	8140
				500	540	500	540		820	820							1664	1664		8430
				540	610	540	610		920	920							1735	1735		8860
				610	710	610	710		960	960							1749	1749		8280

Configurable variants<sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

Notes

- The hub diameter of the component part is assigned according to the diameter of the finished bore. Where bore diameters overlap, the component with the smaller hub diameter is always selected.
- Weight and mass moments of inertia apply to maximum bore diameters.
- The article numbers apply to standard buffers of NBR material in the 80 ShoreA variant; the article number for alternative buffer types is available on request.

Ordering example

- RUPEX RWS coupling, size 710
- Part 1: Hub left with bore 180H7 mm, with keyway to DIN 6885-1 and set screw
- Part 2: Hub right with bore 200H7 mm, with keyway to DIN 6885-1 and set screw.
- Coupling micro-balanced G 6.3 at 1500 rpm in accordance with half parallel key standard

Article no.: 2LC0131-8AB99-0AA0-Z L2B+M2D+W02+Y95  
Plain text to Y95: G=6.3;n=1500rpm

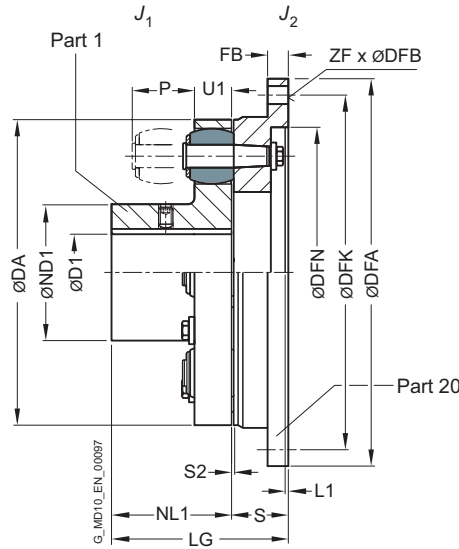
<sup>1)</sup>  $T_{Kmax}$  is given in the specifications on Page 8/6.  
 $T_{KW}$  is determined from the specifications given on Page 8/6.

<sup>2)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [fletcher.com](http://fletcher.com).

↗ For online configuration on [fletcher.com](http://fletcher.com), click on the item no.

# TYPE RFN

Hub material grey cast iron



Size	Rated torque buffer 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm													Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg	
			Bore with keyway DIN 6885-1 D1 min.   max.		DA	ND1	NL1	S	LG	Flange connection						$J_1$ kgm <sup>2</sup>	$J_2$ kgm <sup>2</sup>			
										DFA h8	FB	DFN H7	L1	DFK	ZF	DFB				
105	200	7000	-	35	105	53	45	26	71	158	10			142	6	9	0.001	0.005	2LC0130-1AJ	2.2
125	350	6000	-	42	125	65	50	31	81	180	13			160	6	11	0.003	0.012	2LC0130-2AJ	4.1
144	500	5250	-	48	144	76	55	31	86	200	13			180	7	11	0.004	0.018	2LC0130-3AJ	4.9
162	750	4650	-	55	162	85	60	37.5	97.5	220	13			200	8	11	0.007	0.032	2LC0130-4AJ	7.1
178	950	4200	-	70	178	102	70	37.5	107.5	248	16			224	8	14	0.013	0.055	2LC0130-5AJ	9
198	1300	3750	-	80	198	120	80	37.5	117.5	274	16			250	8	14	0.021	0.08	2LC0130-6AJ	12
228	2200	3300	-	90	228	129	90	45.5	135.5	314	20			282	8	18	0.036	0.18	2LC0130-7AJ	19
252	2750	3000	-	100	252	150	100	45.5	145.5	344	20			312	8	18	0.068	0.26	2LC0130-8AJ	24
285	4300	2650	48	110	285	164	110	55.5	165.5	380	22			348	9	18	0.13	0.46	2LC0131-0AJ	37
320	5500	2350	55	120	320	180	125	55.5	175.5	430	25			390	9	22	0.22	0.76	2LC0131-1AJ	48
360	7800	2100	65	130	360	200	140	70.5	210.5	480	25			440	10	22	0.40	1.4	2LC0131-2AJ	74
400	12500	2050	75	150	400	230	160	74.5	234.5	520	50	380	4	480	10	22	0.86	1.8	2LC0131-3AJ	122
450	18500	1800	85	170	450	260	180	85.5	265.5	575	45	428	6	528	12	26	1.7	3.2	2LC0131-4AJ	166
500	25000	1600	95	190	500	290	200	85.5	285.5	620	45	475	6	570	12	26	2.8	4.3	2LC0131-5AJ	200

## Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

Size	Rated torque buffer 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm													Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg		
			Bore with keyway DIN 6885-1 D1 min.   max.		DA	ND1	NL1	S	LG	Flange connection						$J_1$ kgm <sup>2</sup>	$J_2$ kgm <sup>2</sup>				
560	39000	1500	100	140	560	250	220	106	326	700	65	532	8	650	16	26	4.6	8.2	2LC0131-6AJ	330	
			140	180		300											320			5	330
			180	200		320											5.1			340	
630	52000	1280	100	140	630	250	240	106	346	785	60	602	8	725	16	33	7.2	13.8	2LC0131-7AJ	390	
			140	180		300											355			7.7	400
			180	220		355											8.4			420	
710	84000	1150	110	160	710	290	260	127	387	875	80	675	10	815	18	33	13	26	2LC0131-8AJ	550	
			160	200		330											385			14	550
			200	240		385											15			570	
800	110000	1000	125	180	800	320	290	127	417	1000	70	765	10	930	16	39	22	45	2LC0131-9AJ	680	
			180	220		360											420			23	690
			220	260		420											24.5			710	

**Configurable variants <sup>1)</sup>**

- ØD1 Without finished bore  
With finished bore

**Notes**

- For dimensions U1, P and S2, see type RWN on **Page 8/8**
- Weight and mass moments of inertia apply to maximum bore diameters.
- The article numbers apply to standard buffers of NBR material in the 80 ShoreA variant; the article number for alternative buffer types is available on request.

**Ordering example**

- RUPEX RFN coupling, size 560
- Part 1: Hub left with bore 180H7 mm, with keyway to DIN 6885-1 and set screw

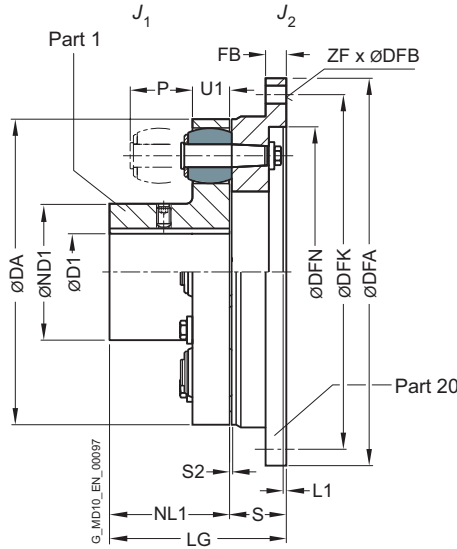
Article no.: **2LC0131-6AJ91-0AA0 L2B**

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on **flender.com**.

➤ For online configuration on **flender.com**, click on the item no.

# TYPE RFS

Hub material steel



8

Size	Rated torque		Speed	Dimensions in mm													Mass moment of inertia		Article no. <sup>2)</sup>	Weight	
	buffer 90 ShoreA	buffer 80 ShoreA		Bore with keyway DIN 6885-1					Flange connection								$J_1$	$J_2$			
	$T_{KN}^{1)}$ Nm	$T_{KN}$ Nm	$n_{Kmax}$ rpm	D1	DA	ND1	NL1	S	LG	DFA	FB	DFN	L1	DFK	ZF	DFB	$J_1$	$J_2$		$m$ kg	
				min.	max.					h8		H7				kgm <sup>2</sup>	kgm <sup>2</sup>				
105	260	200	10000	-	38	105	53	45	26	71	158	10		142	6	9	0.001	0.005	2LC0130-1AK	2.2	
125	450	350	9000	-	48	125	65	50	31	81	180	13		160	6	11	0.003	0.012	2LC0130-2AK	4.0	
144	650	500	7800	-	55	144	76	55	31	86	200	13		180	7	11	0.004	0.018	2LC0130-3AK	4.8	
162	950	750	6900	-	60	162	85	60	37.5	97.5	220	13		200	8	11	0.007	0.032	2LC0130-4AK	7.1	
178	1200	950	6300	-	75	178	102	70	37.5	107.5	248	16		224	8	14	0.014	0.055	2LC0130-5AK	10	
198	1700	1300	5600	-	90	198	120	80	37.5	117.5	274	16		250	8	14	0.020	0.08	2LC0130-6AK	12	
228	2850	2200	4900	-	95	228	129	90	45.5	135.5	314	20		282	8	18	0.036	0.18	2LC0130-7AK	19	
252	3550	2750	4400	-	110	252	150	100	45.5	145.5	344	20		312	8	18	0.066	0.26	2LC0130-8AK	24	
285	5600	4300	3900	48	120	285	164	110	55.5	165.5	380	22		348	9	18	0.12	0.46	2LC0131-0AK	36	
320	7150	5500	3500	55	130	320	180	125	55.5	175.5	430	25		390	9	22	0.23	0.76	2LC0131-1AK	49	
360	10000	7800	3100	65	145	360	200	140	70.5	210.5	480	25		440	10	22	0.40	1.4	2LC0131-2AK	74	
400	16000	12500	2800	75	170	400	230	160	74.5	234.5	520	50	380	4	480	10	22	0.83	1.8	2LC0131-3AK	119
450	24000	18500	2500	85	190	450	260	180	85.5	265.5	575	45	428	6	528	12	26	1.6	3.2	2LC0131-4AK	167
500	32500	25000	2200	95	215	500	290	200	85.5	285.5	620	45	475	6	570	12	26	2.7	4.3	2LC0131-5AK	198

### Configurable variants <sup>2)</sup>

- ØD1 Without finished bore
- With finished bore

<sup>1)</sup>  $T_{Kmax}$  is given in the specifications on Page 8/6.  
 $T_{KW}$  is determined from the specifications given on Page 8/6.

<sup>2)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

Size	Rated torque		Speed $n_{Kmax}$ rpm	Dimensions in mm														Mass moment of inertia		Article no. <sup>2)</sup>	Weight $m$ kg	
	buffer 90 ShoreA	buffer 80 ShoreA		Bore with keyway DIN 6885-1				Flange connection										$J_1$ kgm <sup>2</sup>	$J_2$ kgm <sup>2</sup>			
	$T_{KN}^{1)}$ Nm	$T_{KN}$ Nm		D1 min.	D1 max.	DA	ND1	NL1	S	LG	DFA h8	FB	DFN H7	L1	DFK	ZF	DFB					
560	50500	39000	2000	100	165	560	250	300	220	106	326	700	65	532	8	650	16	26	4.8	8.2	2LC0131-6AK	330
				165	200		320												5.2			340
				200	240		320												5.2			320
630	67500	52000	1800	100	165	630	250	300	240	106	346	785	60	602	8	725	16	33	7.6	13.8	2LC0131-7AK	390
				165	200		355												7.9			400
				200	265		355												8.4			400
710	109000	84000	1600	110	190	710	290	330	260	127	387	875	80	675	10	815	18	33	14.4	26	2LC0131-8AK	550
				190	220		385												14.6			560
				220	280		385												15.5			555
800	143000	110000	1400	125	210	800	320	360	290	127	417	1000	70	765	10	930	16	39	23.1	45	2LC0131-9AK	690
				210	240		420												23.3			710
				240	310		420												25.0			700

Configurable variants <sup>2)</sup>

- ØD1 Without finished bore  
With finished bore

Notes

- For dimensions U1, P and S2, see type RWS on Page 8/10
- Weight and mass moments of inertia apply to maximum bore diameters.
- The article numbers apply to standard buffers of NBR material in the 80 ShoreA variant; the article number for alternative buffer types is available on request.

Ordering example

- RUPEX RFS coupling, size 560
- Part 1: Hub left with bore 180H7 mm, with keyway to DIN 6885-1 and set screw
- Coupling micro-balanced G 6.3 at 1500 rpm in accordance with half parallel key standard

Article no.: 2LC0131-6AK91-0AA0-Z L2B+W02+Y95  
Plain text to Y95: G=6.3;n=1500rpm

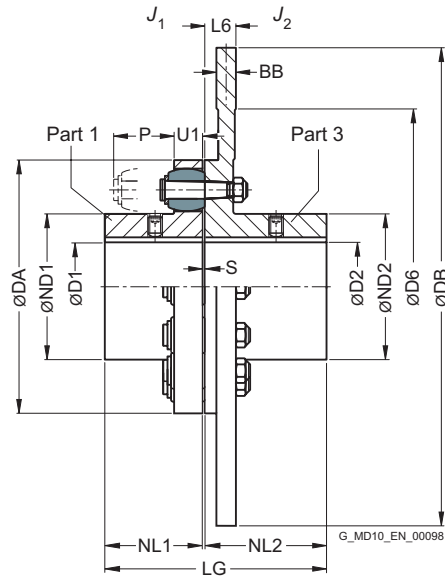
<sup>1)</sup>  $T_{Kmax}$  is given in the specifications on Page 8/6.  
 $T_{KW}$  is determined from the specifications given on Page 8/6.

<sup>2)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE RWB

with brake disk to DIN 15432



8

Size	Rated torque buffer 80 ShoreA  $T_{KN}$ Nm	Dimensions in mm															➤ Article no. <sup>1)</sup>			
		Bore with keyway DIN 6885-1													Brake disk					
		D1		D2		DA	ND1	ND2	NL1	NL2	S	U1	P	LG	DB <sup>2)</sup>	DB		D6	BB <sup>2)</sup>	L6
min.	max.	min.	max.					max.				max.	max.	min.	min.					
144	500	-	48	-	45	144	76	84	55	219	3	16	35	277	500	315	175	30	34	2LC0130-3AE
162	750	-	55	-	50	162	85	92	60	219	3.5	20	40	282.5	560	315	175	30	34	2LC0130-4AE
178	950	-	70	-	60	178	102	108	70	219	3.5	20	40	292.5	560	355	200	30	34	2LC0130-5AE
198	1300	-	80	-	70	198	120	128	80	219	3.5	20	40	302.5	560	355	200	30	34	2LC0130-6AE
228	2200	-	90	-	80	228	129	140	90	219	3.5	26	50	312.5	800	355	250	30	34	2LC0130-7AE
252	2750	-	100	38	100	252	150	160	100	219	3.5	26	50	322.5	800	400	280	30	34	2LC0130-8AE
285	4300	48	110	48	110	285	164	175	110	219	4.5	32	60	333.5	800	400	310	30	34	2LC0131-0AE
320	5500	55	120	55	120	320	180	192	125	219	4.5	32	60	348.5	1000	450	350	30	34	2LC0131-1AE

## Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 With finished bore

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>2)</sup> For the available DB · BB brake disk dimensions, please refer to the product configurator on [flender.com](http://flender.com).

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

## Notes

- Brake disk diameter DB in accordance with customer specification.
- Additional sizes are available on request.
- Further dimensions for part 3 on request.
- Maximum speed in rpm:  
 $n_{K_{max}} = 1146/DB$  (DB in m)  
 Observe maximum speed of type RWN!
- Mass moments of inertia and weights can be sufficiently precisely determined as follows:
  - Mass moments of inertia in  $\text{kgm}^2$ :  
 $J_1 = J_1$  from type RWN  
 $J_2 = J_2$  from type RWN +  $710 \times BB \times DB^4$   
 (BB and DB in m)
  - Weight in kg:  
 $m = m$  from type RWN +  $5700 \times BB \times DB^2$   
 (BB and DB in m)
- The article numbers apply to standard buffers of NBR material in the 80 ShoreA variant; the article number for alternative buffer types is available on request.

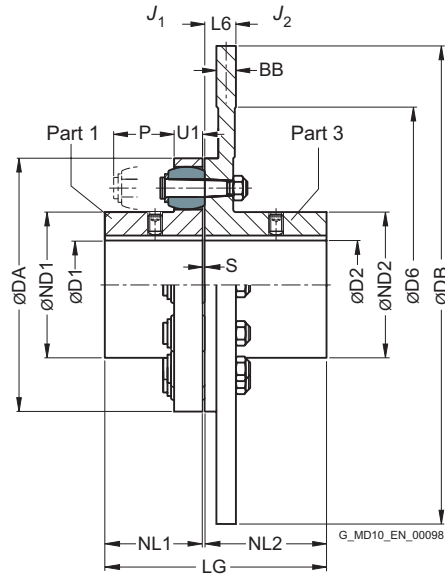
## Ordering example

- RUPEX RWB coupling, size 252, brake disk 630 x 30 mm
- Part 1: Bore D1 = 48H7 mm, keyway to DIN 6885-1 and set screw
- Part 3: Bore 42H7 mm, keyway to DIN 6885-1 P9 and set screw.
- Coupling micro-balanced G 6.3 at 1500 rpm in accordance with half parallel key standard
- Mass moment of inertia:  
 $J_1 = 0.07 \text{ kgm}^2$   
 $J_2 = 0.12 \text{ kgm}^2 + 3.3 \text{ kgm}^2 = 3.42 \text{ kgm}^2$
- Weight:  
 $m = 26.3 \text{ kg} + 68 \text{ kg} = 94.3 \text{ kg}$

Article no.: 2LC0130-8AE99-0KA0-Z L1B+M0X+W02+Y95  
 Plain text to Y95: G=6.3;n=1500rpm

# TYPE RBS

with brake disk to DIN 15432



Size	Rated torque		Dimensions in mm																Article no. <sup>2)</sup>		
	buffer 90 ShoreA	buffer 80 ShoreA	Bore with keyway DIN 6885-1				Shaft										Brake disk				
	$T_{KN}^{1)}$ Nm	$T_{KN}$ Nm	D1 min.	D1 max.	D2 min.	D2 max.	DA	ND1	ND2	NL1	NL2 max.	S	U1	P	LG max.	DB <sup>3)</sup> min.	D6 min.	BB <sup>3)</sup>		L6	
144	650	500	-	55	-	45	144	76	84	55	219	3	16	35	277	315	175	30	34	2LC0130-3AH	
162	950	750	-	60	-	50	162	85	92	60	219	3.5	20	40	282.5	315	175	30	34	2LC0130-4AH	
178	1200	950	-	75	-	60	178	102	108	70	219	3.5	20	40	292.5	355	200	30	34	2LC0130-5AH	
198	1700	1300	-	90	-	70	198	120	128	80	219	3.5	20	40	302.5	355	200	30	34	2LC0130-6AH	
228	2850	2200	-	95	-	80	228	129	140	90	219	3.5	26	50	312.5	355	250	30	34	2LC0130-7AH	
252	3550	2750	-	110	38	100	252	150	160	100	219	3.5	26	50	322.5	400	280	30	34	2LC0130-8AH	
285	5600	4300	48	120	48	120	285	164	175	110	219	4.5	32	60	333.5	400	310	30	34	2LC0131-0AH	
320	7150	5500	55	130	55	130	320	180	192	125	219	4.5	32	60	348.5	450	350	30	34	2LC0131-1AH	
360	10000	7800	65	145	65	140	360	200	210	140	221	4.5	42	75	365.5	560	390	30	36	2LC0131-2AE	

## Configurable variants <sup>2)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 With finished bore

<sup>1)</sup>  $T_{Kmax}$  is given in the specifications on Page 8/6.

$T_{KW}$  is determined from the specifications given on Page 8/6.

<sup>2)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>3)</sup> For the available DB- BB brake disk dimensions, please refer to the product configurator on [flender.com](http://flender.com).

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

## Notes

- Brake disk diameter DB in accordance with customer specification.
- Additional sizes are available on request.
- Further dimensions for part 3 on request.
- Maximum speed in rpm:  
 $n_{Kmax} = 1528/DB$  (DB in m)  
 Observe maximum speed of type RWS!
- Mass moments of inertia and weights can be sufficiently precisely determined as follows:
  - Mass moments of inertia in  $kgm^2$ :  
 $J_1 = J_1$  from type RWS  
 $J_2 = J_2$  from type RWS +  $770 \times BB \times DB^4$   
 (BB and DB in m)
  - Weight in kg:  
 $m = m$  from type RWS +  $6160 \times BB \times DB^2$   
 (BB and DB in m)
- The article numbers apply to standard buffers of NBR material in the 80 ShoreA variant; the article number for alternative buffer types is available on request.

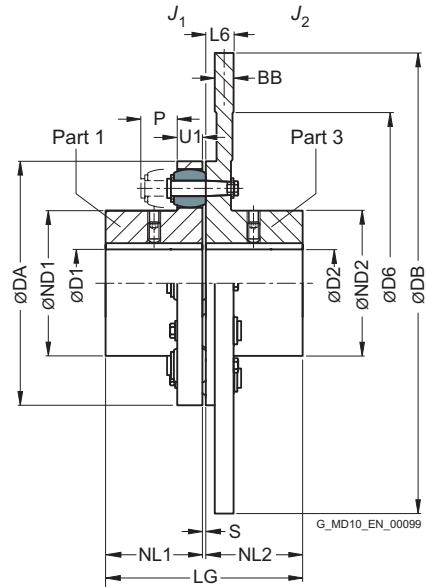
## Ordering example

- RUPEX RBS coupling, size 252, brake disk 630 x 30 mm
- Part 1: Bore D1 = 48H7 mm, keyway to DIN 6885-1 and set screw
- Part 3: Bore 42H7 mm, keyway to DIN 6885-1 P9 and set screw.
- Coupling micro-balanced G 6.3 at 1500 rpm in accordance with the half parallel key standard.
- Mass moment of inertia:  
 $J_1 = 0.07 \text{ kgm}^2$   
 $J_2 = 0.12 \text{ kgm}^2 + 3.6 \text{ kgm}^2 = 3.72 \text{ kgm}^2$
- Weight:  
 $m = 25.8 \text{ kg} + 73 \text{ kg} = 98.8 \text{ kg}$

Article no.: 2LC0130-8AH99-0KA0-Z L1B+M0X+W02+Y95  
 Plain text to Y95: G=6.3;n=1500rpm

# TYPE RBS

with brake disk to DIN 15432



8

Size	Rated torque		Dimensions in mm														Brake disk			Article no. <sup>1)</sup>
	buffer 90 ShoreA $T_{KN}$ Nm	buffer 80 ShoreA $T_{KN}$ Nm	Bore with keyway DIN 6885-1				DA	ND1	ND2	NL1	NL2	S	U1	P	LG	D6 <sup>2)</sup> min.	BB <sup>2)</sup>	L6		
			D1 min.	D1 max.	D2 min.	D2 max.														
400	16000	12500	75	170	75	150	400	230	230	160	225	4.5	42	75	389.5	410	30	40	2LC0131-3AH	
450	24000	18500	85	190	85	170	450	260	260	180	225	5.5	52	90	410.5	460	30	40	2LC0131-4AH	
500	32500	25000	95	215	95	190	500	290	290	200	225	5.5	52	90	430.5	510	30	40	2LC0131-5AH	
560	50500	39000	100	165	100	210	560	250	320	220	225	6	68	120	451	570	30	40	2LC0131-6AH	
			200	240				320												
630	67500	52000	100	165	100	235	630	250	355	240	240	6	68	120	486	670	30	55	2LC0131-7AH	
			200	265				355												

### Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 With finished bore

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>2)</sup> For the available DB · BB brake disk dimensions, please refer to the product configurator on [flender.com](http://flender.com).

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

Size	Rated torque		Dimensions in mm														Article no. <sup>1)</sup>		
	buffer 90 ShoreA $T_{KN}$ Nm	buffer 80 ShoreA $T_{KN}$ Nm	Bore with keyway DIN 6885-1												Brake disk				
			D1 min.	D1 max.	D2 min.	D2 max.	DA	ND1	ND2	NL1	NL2	S	U1	P	LG	D6 <sup>2)</sup> min.	BB <sup>2)</sup>	L6	
710	109000	84000	110	190	110	250	710	290	385	260	260	7	80	140	527	760	30	75	2LC0131-8AH
			190	220				330											
			220	250				385											
800	143000	110000	125	210	125	280	800	320	420	290	290	7	80	140	587	840	30	75	2LC0132-0AH
			210	240				360											
			240	280				420											
900	195000	150000	140	210	140	310	900	320	465	320	-	7.5	90	160	647.5	950	30	75	2LC0132-1AH
			210	240				360											
			240	280				425											
1000	250000	195000	150	230	150	340	1000	355	515	350	-	7.5	90	160	707.5	1050	30	75	2LC0132-2AH
			230	260				395											
			260	300				460											
			300	340				515											

Configurable variants<sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 With finished bore

Notes

- Brake disk diameter DB in accordance with customer specification.
- Additional sizes are available on request. Further dimensions for part 3 on request.
- Maximum speed in rpm:  
 $n_{Kmax} = 1528/DB$  (DB in m)  
Observe maximum speed of type RWS!
- Mass moments of inertia and weights can be sufficiently precisely determined as follows:
  - Mass moments of inertia in kgm<sup>2</sup>:  
 $J_1 = J_1$  from type RWS  
 $J_2 = J_2$  from type RWS +  $770 \times BB \times DB^4$  (BB and DB in m)
  - Weight in kg:  
 $m = m$  from type RWS +  $6160 \times BB \times DB^2$  (BB and DB in m)
- The article numbers apply to standard buffers of NBR material in the 80 ShoreA variant; the article number for alternative buffer types is available on request.

Ordering example

- RUPEX RBS coupling, size 450, brake disk 900 x 30 mm
- Part 1: Bore D1 = 130H7 mm, keyway to DIN 6885-1 and set screw
- Part 3: Bore 120H7 mm, keyway to DIN 6885-1 P9 and set screw.
- Coupling micro-balanced G 6.3 at 1500 rpm in accordance with half parallel key standard
- Mass moment of inertia:  
 $J_1 = 1.74 \text{ kgm}^2$   
 $J_2 = 1.74 \text{ kgm}^2 + 15 \text{ kgm}^2 = 16.74 \text{ kgm}^2$
- Weight:  
 $m = 25.8 \text{ kg} + 149 \text{ kg} = 174.8 \text{ kg}$

Article no.: 2LC0131-4AH99-0NA0-Z L1U+M1S+W02+Y95  
Plain text to Y95: G=6.3;n=1500rpm

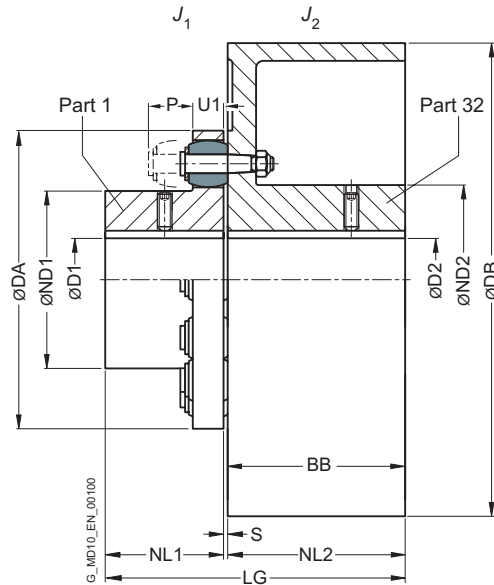
<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>2)</sup> For the available DB · BB brake disk dimensions, please refer to the product configurator on [flender.com](http://flender.com).

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE RWB

with brake drum to DIN 15431



8

Size	Rated torque buffer 80 ShoreA $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm											Mass moment of inertia		Article no. <sup>1)</sup>	Weight $m$ kg	
			Bore with keyway DIN 6885-1 D1			DA	ND1	ND2	NL1	NL2/ BB	S	DB	LG	$J_1$ kgm <sup>2</sup>	$J_2$ kgm <sup>2</sup>			
			min.	max.	min.	max.												
144	500	4800	-	48	-	55	144	76	84	55	75	3	200	133	0.004	0.04	2LC0130-3AC	9.4
162	750	3800	-	55	-	60	162	85	92	60	95	3.5	250	158.5	0.007	0.11	2LC0130-4AC	17
		3000	-	70	-	70	178	102	108	70	95	3.5	250	168.5	0.013	0.12	2LC0130-5AC	19
178	950	3800	-	70	-	70	178	102	108	70	95	3.5	250	168.5	0.013	0.12	2LC0130-5AC	19
		3000	-	70	-	70	178	102	108	70	118	3.5	315	191.5	0.031	0.31	2LC0130-5AC	27
198	1300	3800	-	80	-	80	198	120	128	80	95	3.5	250	178.5	0.021	0.13	2LC0130-6AC	23
		3000	-	80	-	80	198	120	128	80	118	3.5	315	201.5	0.032	0.32	2LC0130-6AC	31
228	2200	2400	-	90	-	90	228	129	140	90	150	3.5	400	243.5	0.036	1	2LC0130-7AC	53
252	2750	2400	-	100	38	100	252	150	160	100	150	3.5	400	253.5	0.068	1	2LC0130-8AC	62
		1900	-	100	38	100	252	150	160	100	190	3.5	500	293.5	2.8	2.8	2LC0130-8AC	92
285	4300	1900	48	110	48	110	285	164	175	110	190	4.5	500	304.5	0.13	2.8	2LC0131-0AC	103
		1500	55	110	48	110	285	164	175	110	236	4.5	630	350.5	7.8	7.8	2LC0131-0AC	156
320	5500	1500	55	120	55	120	320	180	192	125	236	4.5	630	365.5	0.22	7.9	2LC0131-1AC	170
		1300	65	120	55	120	320	180	192	125	265	4.5	710	394.5	13.9	13.9	2LC0131-1AC	215
360	7800	1500	65	130	65	130	360	200	210	140	236	4.5	630	380.5	0.4	8.1	2LC0131-2AC	189
		1300	65	130	65	130	360	200	210	140	265	4.5	710	409.5	14	14	2LC0131-2AC	234

### Configurable variants <sup>1)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

### Note

- For dimensions U1 and P, see type RWN on Page 8/8.
- Weight and mass moments of inertia apply to maximum bore diameters.
- The article numbers apply to standard buffers of NBR material in the 80 ShoreA variant; the article number for alternative buffer types is available on request.

### Ordering example

- RUPEX RWB coupling, size 252
- Part 1: Bore 48H7 mm, keyway to DIN 6885-1 and set screw
- Part 3: 500 x 190, bore 42H7 mm, keyway to DIN 6885-1 P9 and set screw.
- Coupling micro-balanced G 6.3 at 1500 rpm in accordance with half parallel key standard

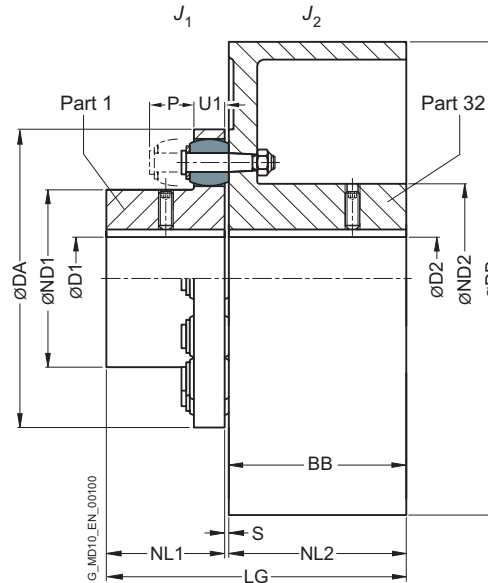
Article no.: 2LC0130-8AC99-0FA0-Z L1B+M0X+W02+Y95  
Plain text to Y95: G=6.3;n=1500rpm

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE RBS

with brake drum to DIN 15431



Size	Rated torque		Speed $n_{Kmax}$ rpm	Dimensions in mm											Mass moment of inertia		Article no. <sup>2)</sup>	Weight $m$ kg	
	buffer 90 ShoreA $T_{KN}^{1)}$ Nm	buffer 80 ShoreA $T_{KN}$ Nm		Bore with keyway DIN 6885-1				DA	ND1	ND2	NL1	NL2/BB	S	DB	LG	$J_1$ kgm <sup>2</sup>			$J_2$ kgm <sup>2</sup>
	min.	max.		min.	max.	D1	D2												
144	650	500	7800	-	55	-	60	144	76	84	55	75	3	200	133	0.004	0.04	2LC0130-3AD	10
162	950	750	6900	-	60	-	65	162	85	92	60	95	3.5	250	158.5	0.007	0.13	2LC0130-4AD	18
178	1200	950	6300	-	75	-	75	178	102	108	70	95	3.5	250	168.5	0.014	0.13	2LC0130-5AD	22
			5500									315		191.5	0.34		2LC0130-5AD	30	
198	1700	1300	5600	-	90	-	85	198	120	128	80	95	3.5	250	178.5	0.020	0.14	2LC0130-6AD	26
			5500									315		201.5	0.35		2LC0130-6AD	35	
228	2850	2200	4300	-	95	-	95	228	129	140	90	150	3.5	400	243.5	0.036	1.1	2LC0130-7AD	60
252	3550	2750	4300	-	110	38	110	252	150	160	100	150	3.5	400	253.5	0.066	1.1	2LC0130-8AD	67
			3400				190					293.5		3.1	2LC0130-8AD		102		
285	5600	4300	3400	48	120	48	110	285	164	175	110	190	4.5	500	304.5	0.12	3.1	2LC0131-0AD	114
			2700				236					350.5		8.5	2LC0131-0AD		170		
320	7150	5500	2700	55	130	55	125	320	180	192	125	236	4.5	630	365.5	0.23	8.6	2LC0131-1AD	185
			2400				265					394.5		14.8	2LC0131-1AD		230		
360	10000	7800	2700	65	145	65	135	360	200	210	140	236	4.5	630	380.5	0.4	8.9	2LC0131-2AD	208
			2400				265					409.5		15.1	2LC0131-2AD		253		

### Configurable variants <sup>2)</sup>

- ØD1 Without finished bore  
With finished bore
- ØD2 Without finished bore  
With finished bore

### Note

- For dimensions U1 and P, see type RWS on Page 8/10.
- Weight and mass moments of inertia apply to maximum bore diameters.
- The article numbers apply to standard buffers of NBR material in the 80 ShoreA variant; the article number for alternative buffer types is available on request.

<sup>1)</sup>  $T_{Kmax}$  is given in the specifications on Page 8/6.  
 $T_{KW}$  is determined from the specifications given on Page 8/6.

### Ordering example

- RUPEX RBS coupling, size 252
- Part 1: Bore 48H7 mm, keyway to DIN 6885-1 and set screw
- Part 3: 500 x 190, bore 42H7 mm, keyway to DIN 6885-1 P9 and set screw
- Coupling micro-balanced G 6.3 at 1500 rpm in accordance with half parallel key standard

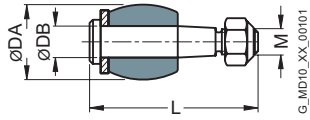
Article no.: 2LC0130-8AD99-0FA0-Z L1B+M0X+W02+Y95  
Plain text to Y95: G=6.3;n=1500rpm

<sup>2)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

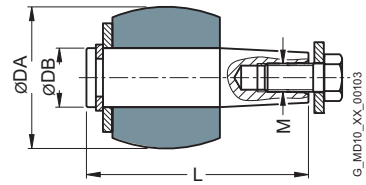
➤ For online configuration on [flender.com](http://flender.com), click on the item no.

# SPARE AND WEAR PARTS

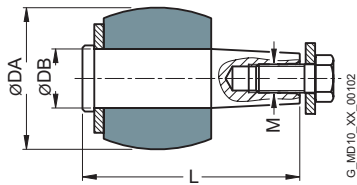
## Buffers and pins



Sizes 105 to 400



Sizes 710 to 2000



Sizes 450 to 630

Size	Marking	Number per set	Dimensions				Article No. for a set of buffers  [Buffer Perbunan 80ShoreA]	Weight  <i>m</i> kg	Article No. for a set of pins  [Pin complete, incl. fasteners]	Weight  <i>m</i> kg
			DA mm	DB mm	L mm	M				
105	105	8	20	8	45	M6	2LC0130-1WA00-0AA0	0.043	2LC0130-1WB00-0AA0	0.14
125	125	8	24	10	53.5	M8	2LC0130-2WA00-0AA0	0.098	2LC0130-2WB00-0AA0	0.28
144 <sup>1)</sup>	125	10	24	10	53.5 59.5	M8	2LC0130-3WA00-0AA0	0.12	2LC0130-3WB00-0AA0 ASE36074885	0.35 0.4
162 <sup>1)</sup>	162	9	30	12	64.5 67.5	M10	2LC0130-4WA00-0AA0	0.17	2LC0130-4WB00-0AA0 ASE36074964	0.57 0.6
178 <sup>1)</sup>	162	10	30	12	64.5 67.5	M10	2LC0130-5WA00-0AA0	0.19	2LC0130-5WB00-0AA0 ASE36075371	0.65 0.67
198 <sup>1)</sup>	162	12	30	12	64.5 67.5	M10	2LC0130-6WA00-0AA0	0.23	2LC0130-6WB00-0AA0 ASE36075396	0.76 0.8
228	228	11	40	16	79	M12	2LC0130-7WA00-0AA0	0.42	2LC0130-7WB00-0AA0	1.4
252	228	12	40	16	79	M12	2LC0130-8WA00-0AA0	0.45	2LC0130-8WB00-0AA0	1.5
285	285	11	48	20	98	M16	2LC0131-0WA00-0AA0	0.81	2LC0131-0WB00-0AA0	2.5
320	285	12	48	20	98	M16	2LC0131-1WA00-0AA0	0.88	2LC0131-1WB00-0AA0	2.8
360	360	10	64	25	123	M18	2LC0131-2WA00-0AA0	1.6	2LC0131-2WB00-0AA0	4.4
400	360	14	64	25	123	M18	2LC0131-3WA00-0AA0	2.2	2LC0131-3WB00-0AA0	6.1
450	450	12	78	32	123	M16	2LC0131-4WA00-0AA0	3.5	2LC0131-4WB00-0AA0	11
500	450	14	78	32	123	M16	2LC0131-5WA00-0AA0	4	2LC0131-5WB00-0AA0	13
560	560	12	101	42	158	M20	2LC0131-6WA00-0AA0	7.1	2LC0131-6WB00-0AA0	25
630	560	14	101	42	158	M20	2LC0131-7WA00-0AA0	8.3	2LC0131-7WB00-0AA0	29
710	710	14	120	50	185.5	M24	2LC0131-8WA00-0AA0	14	2LC0131-8WB00-0AA0	49
800	710	16	120	50	185.5	M24	2LC0132-0WA00-0AA0	16	2LC0132-0WB00-0AA0	56
900	900	16	136	55	207.5	M24	2LC0132-1WA00-0AA0	24	2LC0132-1WB00-0AA0	71
1000	900	18	136	55	207.5	M24	2LC0132-2WA00-0AA0	27	2LC0132-2WB00-0AA0	80
1120	1120	18	155	60	232.5	M30	2LC0132-3WA00-0AA0	41	2LC0132-3WB00-0AA0	110
1250	1120	20	155	60	232.5	M30	2LC0132-4WA00-0AA0	45	2LC0132-4WB00-0AA0	125
1400	1400	20	175	70	274	M30	2LC0132-5WA00-0AA0	65	2LC0132-5WB00-0AA0	185
1600	1400	24	175	70	274	M30	2LC0132-6WA00-0AA0	78	2LC0132-6WB00-0AA0	225
1800	1800	22	200	80	327	M36	2LC0132-7WA00-0AA0	115	2LC0132-7WB00-0AA0	320
2000	1800	26	200	80	327	M36	2LC0132-8WA00-0AA0	135	2LC0132-8WB00-0AA0	380

**Note**

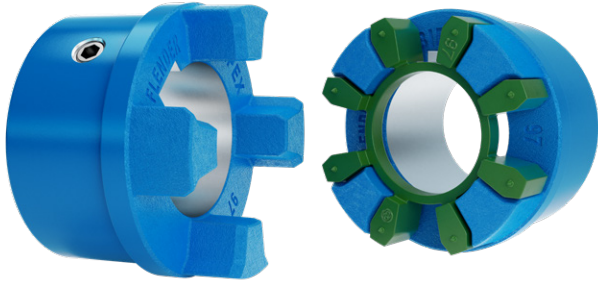
- The buffers of RUPEX couplings are wear parts.  
The service life depends on the operating conditions.

<sup>1)</sup> For types RWB/RBS with brake disk BB = 30 only





# FLEXIBLE COUPLINGS BIPEX SERIES



<b>General</b>	<b>9/2</b>
Benefits	9/2
Application	9/2
Design and configurations	9/3
Technical specifications	9/4
<b>Type BWN</b>	<b>9/5</b>
<b>Type BWT</b>	<b>9/6</b>
<b>Type BNT</b>	<b>9/8</b>
<b>Spare and wear parts</b>	<b>9/9</b>




# GENERAL



Coupling suitable for use in potentially explosive atmospheres.

Complies with the current ATEX Directive for:

CE  II 2G Ex h IIB T6 ... T4 Gb X

 II 2D Ex h IIIC T85 °C ... 120 °C Db X

 I M2 Ex h Mb X

BIPEX couplings are torsionally flexible and are outstanding for their particularly compact design and low weight.

BIPEX couplings are used in many areas of mechanical engineering.

Their main area of use is in electric motor drives which are well aligned and have uniform torque loads, such as in hydraulic applications and in combinations with geared motors. The BIPEX coupling is often used in engine lanterns.

## Benefits

BIPEX couplings are suitable for horizontal, vertical and freely selectable mounting positions. They are able to absorb axial, radial and angular misalignment.

BIPEX couplings consist of two identical hub parts which can be arranged as required on the shaft extensions to be connected. BIPEX couplings transmit the torque positively and are thus fail-safe. The specific cam design leads to an optimal position of the elastomer ring and thus to low wear.

The cam ring is mounted with minimal play and provides a progressive torsional spring stiffness, i.e. the torsional spring stiffness increases with increasing load. As a result of the good damping capability and by selecting the suitable stiffness, torque shock loads can thus be absorbed and the torsional vibration behavior of the drive can be positively influenced. Both the cam ring and the ready-to-install hub parts are available from stock.

## Application

The BIPEX coupling is available as a catalog standard in 13 sizes with rated torques of between 21 Nm and 5100 Nm. The coupling can be used for ambient temperatures from -50 °C to +100 °C without any restriction of the rated torque due to temperature factors.

## Design and configurations



BIPEX couplings in the BWN, BWT and BNT types each consist of two hubs in different designs, which are connected by a cam ring made of elastomer material.

The hubs are connected to the respective shafts via a key connection. You can choose between a finished bored hub (BWN) and a hub with a taper bushing (BWT). BIPEX couplings are positive-locking and torsionally flexible thanks to the thermoplastic polyurethane cam ring.

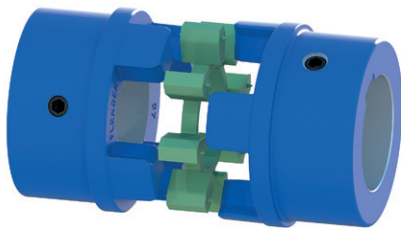
### Coupling materials

#### Hubs:

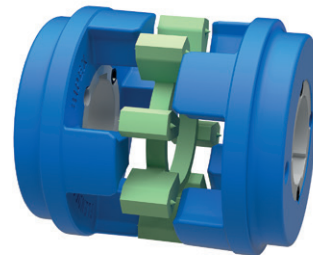
- EN-GJL-250

#### Cam ring:

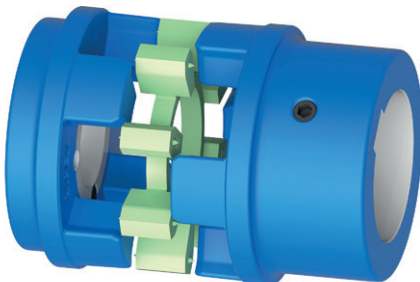
- TPU 95 ShoreA
  - 50 °C to 100 °C without restrictions
  - over 100 °C to 120 °C with restrictions (see temperature factor FT on [page E/21](#))



Type BWN



Type BWT



Type BNT

# GENERAL

## Technical specifications

Power ratings									
Size	Rated torque	Fatigue torque	Maximum torque	Maximum speed	Torsional stiffness at 50 % capacity utilization	Damping coefficient $\Psi$	Permissible shaft misalignment at speed <sup>1)</sup> n = 1500 rpm		
							Axial $\Delta K_a$ mm	Radial $\Delta K_r$ mm	Angle $\Delta K_w$ degree
	$T_{KN}$ Nm	$T_{KW}$ Nm	$T_{Kmax}$	$n_{max}$ rpm	$C_{Tdyn 50\%}$ kNm/rad				
43	21	4.2	63	17000	2.86	1.4	0.25	0.1	0.3
53	42	8.4	126	14000	5.18	1.4	0.25	0.15	0.3
62	60	12	180	12000	8.6	1.4	0.3	0.18	0.3
72	112	22.4	336	10000	15.1	1.4	0.3	0.2	0.3
84	208	41.6	624	9000	23.7	1.4	0.4	0.2	0.3
97	305	61	915	7800	39	1.4	0.5	0.25	0.3
112	520	104	1560	6800	57	1.4	0.5	0.25	0.3
127	780	156	2340	6000	91	1.4	0.6	0.3	0.3
142	1300	260	3900	5300	141	1.4	0.6	0.3	0.3
162	1750	350	5250	4700	210	1.4	0.6	0.35	0.3
182	3000	600	9000	4100	313	1.4	0.7	0.35	0.3
202	3900	780	11700	3700	422	1.4	0.8	0.4	0.3
227	5100	1020	15300	3300	703	1.4	1.0	0.45	0.3

### Torsional stiffness and damping

The values stated in the above table apply to a capacity utilization of 50 %, an excitation amplitude of 10 %  $T_{KN}$  with the frequency 10 Hz and an ambient temperature of 20 °C. The dynamic torsional stiffness is load-dependent and increases in proportion to capacity utilization. The following table shows the correction factors for different rated loads.

$$C_{Tdyn} = C_{Tdyn 50\%} \cdot FKC$$

	Load $T_N / T_{KN}$						
	20%	40%	50%	60%	70%	80%	100%
Correction factor FKC	0.7	0.9	1.0	1.1	1.25	1.4	1.7

Torsional stiffness and damping is further dependent on the ambient temperature and the frequency and amplitude of the torsional vibration excitation. More precise torsional stiffness and damping parameters on request.

With flexible couplings the manufacturing process of the rubber elements and their aging primarily influence the stiffness value  $C_{Tdyn}$ . For this reason calculation must be made with a tolerance for the dynamic stiffness of  $\pm 20\%$ . The specified damping coefficient  $\Psi$  is a minimum value with the result that the damping performance of the coupling corresponds at least to the specified value.

### Permitted shaft misalignment

The permitted shaft misalignment depends on the operating speed. As the speed increases, lower shaft misalignment values are permitted. The correction factors for different speeds are specified in the following table. The maximum speed for the respective coupling size must be noted!

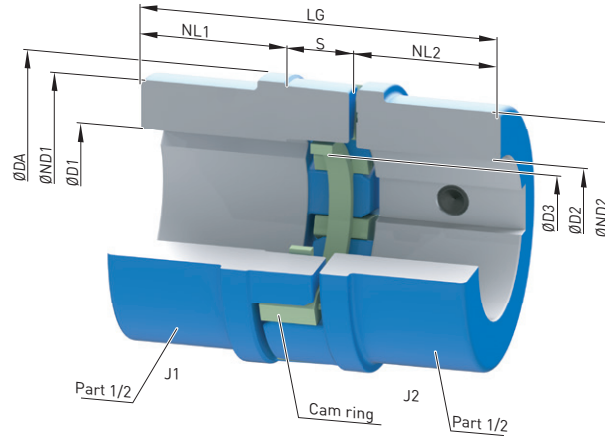
$$\Delta K_{perm} = \Delta K_{1500} \cdot FKV$$

	Speed in rpm			
	500	1000	1500	3000
Correction factor FKV	1.2	1.1	1.0	0.7

The shaft misalignments  $\Delta K_a$ ,  $\Delta K_r$  and  $\Delta K_w$  may occur simultaneously.

<sup>1)</sup> The maximum speed for the respective type must be noted. For additional information on the allowable shaft misalignment, please refer to the operating instructions.

# TYPE BWN



Size	Rated torque $T_{KN}$ 95 ShoreA Nm	Speed $n_{max}$ rpm	Dimensions in mm									Mass moment of inertia $J_1/J_2$ kgm <sup>2</sup>	Article no. <sup>1)</sup>	Weight $m$ kg
			Bore with keyway to DIN 6885-1 D1/D2		DA	ND1/ ND2	NL1/ NL2	S	$\Delta S$	D3	LG			
			min.	max.										
43	21	17000	-	25	43	43	22	12	+0.5	21	56	0.000053	2LC0120-0AA	0.34
53	42	14000	-	30	53	50	25	14	+0.5	25	64	0.00012	2LC0120-1AA	0.54
62	60	12000	-	35	62	58	30	16	+0.5	29	76	0.00026	2LC0120-2AA	0.87
72	112	10000	-	42	72	68	35	18	+0.5	36	88	0.00056	2LC0120-3AA	1.4
84	208	9000	-	48	84	76	40	21	+0.5	40	101	0.0011	2LC0120-4AA	2.0
97	305	7800	-	55	97	90	50	24	+1.0	48	124	0.0025	2LC0120-5AA	3.4
112	520	6800	-	65	112	100	60	27	+1.0	54	147	0.0046	2LC0120-6AA	4.9
127	780	6000	-	70	127	110	65	27	+1.0	61	157	0.0078	2LC0120-7AA	6.7
142	1300	5300	-	80	142	126	75	31	+1.0	70	181	0.015	2LC0120-8AA	9.9
162	1750	4700	-	90	162	134	80	36	+1.0	81	196	0.023	2LC0121-0AA	12
182	3000	4100	-	100	182	152	90	42	+1.0	91	222	0.043	2LC0121-1AA	18
202	3900	3700	-	120	202	168	100	48	+1.0	102	248	0.068	2LC0121-2AA	22
227	5100	3300	-	130	227	180	110	54	+2.0	115	274	0.11	2LC0121-3AA	30

## Configurable variants<sup>1)</sup>

- $\Delta D1$  Without finished bore  
With finished bore
- $\Delta D2$  Without finished bore  
With finished bore

## Notes

- Weights and mass moments of inertia apply to maximum bores.

## Ordering example

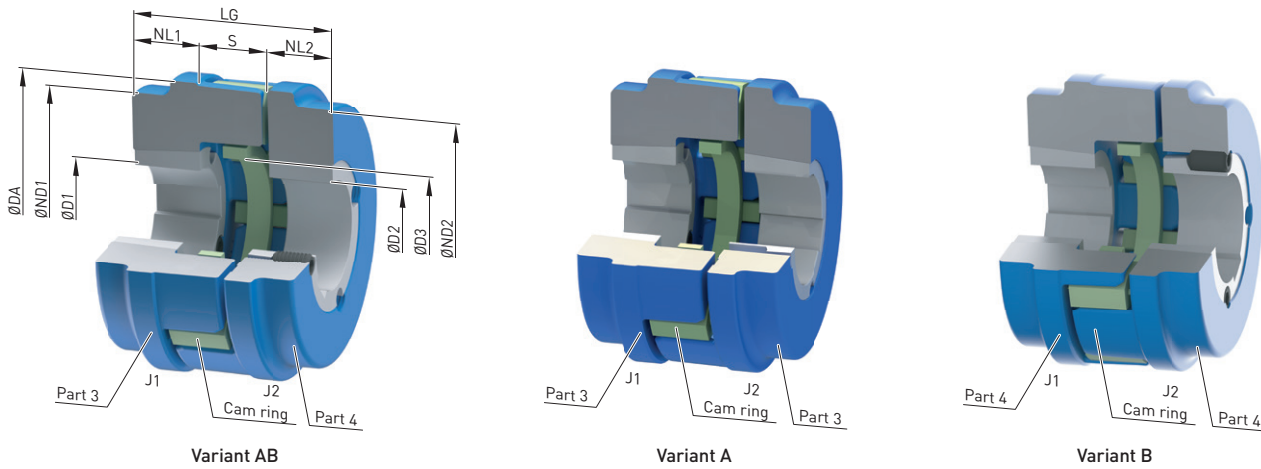
- BIPEX coupling BWN, size 43
- Part 1/2: Bore D1 20 H7 mm, with keyway to DIN 6885-1 and set screw
- Part 1/2: Bore D2 22 H7 mm, with keyway to DIN 6885-1 and set screw

Article no.: 2LC0120-0AA99-0AA0 L0M+M0N

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

➤ For online configuration on [flender.com](http://flender.com), click on the item no.

# TYPE BWT



9

Size	Variant	Taper Clamping Bush		Rated torque $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm													Mass moment of inertia $J_1/J_2$ kgm <sup>2</sup>	Article no. <sup>1)</sup>	Weight $m$ kg
		Size				Bore with keyway to DIN 6885-1				DA	ND1/ND2	NL1	NL2	S	ΔS	D3	LG				
						D1	D2	min.	max.									min.			
62	A	1008	1008	60	12000	10	22 <sup>2)</sup>	10	22 <sup>2)</sup>	62	58	23	23	16	+0.5	29	62	0.00023	2LC0120-2AB	0.90	
	B	1108	1108			10	25 <sup>2)</sup>	10	25 <sup>2)</sup>										2LC0120-2AC	0.86	
	AB	1008	1108			10	22 <sup>2)</sup>	10	25 <sup>2)</sup>										2LC0120-2AD	0.88	
72	A	1108	1108	112	10000	10	25 <sup>2)</sup>	10	25 <sup>2)</sup>	72	68	23	23	18	+0.5	36	64	0.00045	2LC0120-3AB	1.3	
	B																		2LC0120-3AC		
	AB																		2LC0120-3AD		
84	A	1210	1210	208	9000	11	32	11	32	84	76	26	26	21	+0.5	40	73	0.00090	2LC0120-4AB	1.9	
	B																		2LC0120-4AC		
	AB																		2LC0120-4AD		
112	A	1610	1610	520	6800	14	40 <sup>2)</sup>	14	40 <sup>2)</sup>	112	100	26	26	27	+1.0	54	79	0.0030	2LC0120-6AB	3.5	
	B																		2LC0120-6AC		
	AB																		2LC0120-6AD		
142	A	2012	2012	1300	5300	14	50	14	50	142	126	33	33	31	+1.0	70	121	0.011	2LC0120-8AB	6.9	
	B	2517	2517			45	45	2LC0120-8AC	8.2												
	AB	2012	2517			33	45	2LC0120-8AD	7.6												
182	A	2517	2517	3000	4100	16	60	16	60	182	152	45	45	42	+1.0	91	132	0.032	2LC0121-1AB	15	
	B	3020	3020			52	52	2LC0121-1AC													
	AB	2517	3020			45	52	2LC0121-1AD													
202	A	3020	3020	3900	3700	25	75	25	75	202	168	52	52	48	+1.0	102	146	0.034	2LC0121-2AB	20	
	B	3535	3535			90	90	2LC0121-2AC	27												
	AB	3020	3035			52	90	2LC0121-2AD	24												
227	A	3535	3535	5100	3300	35	90	35	90	227	180	90	90	54	+2.0	115	234	0.11	2LC0121-3AB	36	
	B																		2LC0121-3AC		
	AB																		2LC0121-3AD		

### Configurable variants <sup>1)</sup>

- ØD1 Without Taper clamping bush  
With Taper clamping bush
- ØD2 Without Taper clamping bush  
With Taper clamping bush

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>2)</sup> When using taper bushings with a flat groove, larger bores are possible.

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

### Notes

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- Weights and mass moments of inertia apply to couplings with Taper clamping bushes with maximum bore diameter.

### Ordering example

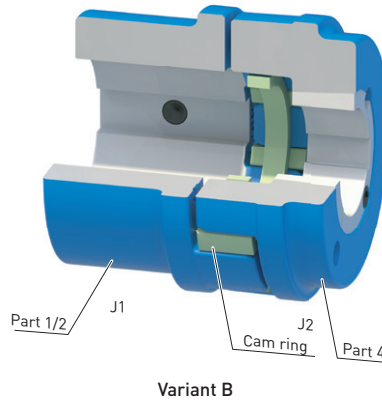
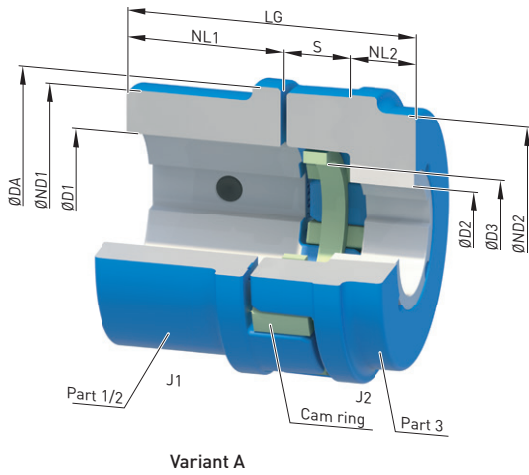
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- BIPEX BWT coupling, size 72, variant AB
- Part 3: With taper clamping bush, size 1108, Bore D1 20 mm, with keyway to DIN 6885-1
- Part 4: With taper clamping bush, size 1108, Bore D2 22 mm, with keyway to DIN 6885-1
- Cam ring hardness 92 ShoreA

Article no.: 2LC0120-3AD99-0AA0 L0M+M0N

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# TYPE BNT



Variant A

Variant B

Size	Variant	Taper Clamping Bush Size	Rated torque $T_{KN}$ Nm	Speed $n_{Kmax}$ rpm	Dimensions in mm											Mass moment of inertia $J_1 / J_2$ kgm <sup>2</sup>	Article no. <sup>1)</sup>	Weight $m$ kg	
					Bore with keyway to DIN 6885-1				DA	ND1/ ND2	NL1	NL2	S	ΔS	D3				LG
					D1	D2	min.	max.											
62	A	1008	60	12000	-	35	10	222	62	58	30	23	16	+0.5	29	69	0.00025	2LC0120-2AE	0.88
	B	1108																10	
72	A	1108	112	10000	-	42	10	252	72	68	35	23	18	+0.5	36	76	0.00050	2LC0120-3AE	1.3
	B	1108																10	
84	A	1210	208	9000	-	48	11	32	84	76	40	26	21	+0.5	40	87	0.00098	2LC0120-4AE	1.9
	B	1210																11	
112	A	1610	520	6800	-	65	14	402	112	100	60	26	27	+1.0	54	113	0.0038	2LC0120-6AE	4.2
	B	1610																14	
142	A	2012	1300	5300	-	80	14	50	142	126	75	33	31	+1.0	70	139	0.012	2LC0120-8AE	8.4
	B	2517																16	
182	A	2517	3000	4100	-	100	16	60	182	152	90	45	42	+1.0	91	177	0.038	2LC0121-1AE	17
	B	3020																25	
202	A	3020	3900	3700	-	120	25	75	202	168	100	52	48	+1.0	102	200	0.061	2LC0121-2AE	21
	B	3535																35	
227	A	3535	5100	3300	-	130	35	90	227	180	110	90	54	+2.0	115	254	0.11	2LC0121-3AE	33
	B	3535																35	

### Configurable variants <sup>1)</sup>

- ØD1 Without Taper clamping bush  
With Taper clamping bush
- ØD2 Without Taper clamping bush  
With Taper clamping bush

### Notes

- Weights and mass moments of inertia apply to couplings with Taper clamping bushes with maximum bore diameter.

### Ordering example

- BIPEX BNT coupling, size 72, variant A
- Part 1/2: Bore D1 30H7 mm, keyway to DIN 6885-1 and set screw
- Part 3: With Taper clamping bushes, size 1108, bore D2 22 mm, with keyway to DIN 6885-1

Article no.: 2LC0120-2AE99-0AA0 L0S+M0N

<sup>1)</sup> To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](http://flender.com).

<sup>2)</sup> When using taper bushings with a flat groove, larger bores are possible.

↗ For online configuration on [flender.com](http://flender.com), click on the item no.

# SPARE AND WEAR PARTS

## BIPEX cam ring

Size	Article number	Weight kg
43	2LC0120-0WA00-0AA0	0.002
53	2LC0120-1WA00-0AA0	0.004
62	2LC0120-2WA00-0AA0	0.01
72	2LC0120-3WA00-0AA0	0.01
84	2LC0120-4WA00-0AA0	0.02
97	2LC0120-5WA00-0AA0	0.03
112	2LC0120-6WA00-0AA0	0.05
127	2LC0120-7WA00-0AA0	0.07
142	2LC0120-8WA00-0AA0	0.10
162	2LC0121-0WA00-0AA0	0.14
182	2LC0121-1WA00-0AA0	0.20
202	2LC0121-2WA00-0AA0	0.28
227	2LC0121-3WA00-0AA0	0.39

### Note

- The elastomer cam rings are wear parts. The service life depends on the operating conditions.



# APPENDIX

<b>Fits</b>	<b>A/2</b>
Fitting recommendations	A/2
Deviation table to DIN ISO 286	A/2
Cylindrical shaft ends	A/3
Central holes according to DIN 332 Part 2	A/3
<b>Parallel key connections to DIN 6885-1</b>	<b>A/4</b>
<b>Related catalogs</b>	<b>A/6</b>
<b>Suitable gear solutions</b>	<b>A/8</b>
<b>The perfect coupling</b>	<b>A/10</b>
<b>Individual solutions</b>	<b>A/12</b>
<b>Flender Services</b>	<b>A/16</b>

# FITS

## Fitting recommendations

For many applications, the fit assignment m6/H7 is especially suitable.

Description	Application	Shaft tolerance	Bore tolerance
Facile sliding fit	For steel or aluminum hubs Preferred for SIPEX and BIPEX-S coupling series	g6	H7
		h7	H7
		k6	F7
		m6	F7
Sliding fit with parallel key connection not suitable for reversing operation	For steel and cast hubs	j6	H7
		h6	J7
Press fit with parallel key connection not suitable for reversing operation	For steel and cast hubs	h6	K7
		k6	H7
Interference fit with parallel key connection suitable for reversing operation	For steel and cast hubs  Only for steel hubs Preferred for N-ZAPEX and ARPEX coupling series	m6	H7
		n6	H7
		h6	M7
		h6	P7
		k6	M7
		m6	K7
		n6	J7
		p6	H7
Shrink fit connection without parallel key	Only for steel hubs The permitted hub tension must be urgently checked.	s6	F7
		u6	H6
		v6	H6
		x6	H6

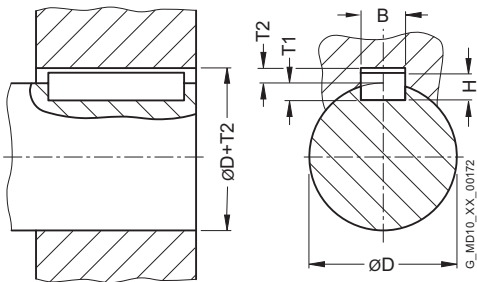
## Deviation table to DIN ISO 286 for above-mentioned fits for bore diameters from 10 mm to 250 mm

Bore diameter above	up to	Deviations in µm Bore						Shaft					
		F7	H7	J7	K7	M7	P7	h6	j6	k6	m6	n6	p6
10	18	+34	+18	+10	+6	0	-11	0	+8	+12	+18	+23	+29
		+16	0	-8	-12	-18	-29	-11	-3	+1	+7	+12	+18
18	30	+41	+21	+12	+6	0	-14	0	+9	+15	+21	+28	+35
		+20	0	-9	-15	-21	-35	-13	-4	+2	+8	+15	+22
30	50	+50	+25	+14	+7	0	-17	0	+11	+18	+25	+33	+42
		+25	0	-11	-18	-25	-42	-16	-5	+2	+9	+17	+26
50	80	+60	+30	+18	+9	0	-21	0	+12	+21	+30	+39	+51
		+30	0	-12	-21	-30	-51	-19	-7	+2	+11	+20	+32
80	120	+71	+35	+22	+10	0	-24	0	+13	+25	+35	+45	+59
		+36	0	-13	-25	-35	-59	-22	-9	+3	+13	+23	+37
120	180	+83	+40	+26	+12	0	-28	0	+14	+28	+40	+52	+68
		+43	0	-14	-28	-40	-68	-25	-11	+3	+15	+27	+43
180	250	+96	+46	+30	+13	0	-33	0	+16	+33	+46	+60	+79
		+50	0	-16	-33	-46	-79	-29	-13	+4	+17	+31	+50

A



# PARALLEL KEY CONNECTIONS TO DIN 6885-1



For moderate operating conditions, the hub keyway tolerance JS9 is recommended.

In harsh operating conditions or during reversing operation, the keyway width tolerance P9 must be preferred.

With two parallel keyways, the keyway width tolerance JS9 should be specified in order to simplify the assembly.

The shaft keyway width has to be specified with the tolerance N9.

Diameter above D mm	up to mm	Keyway width B mm	Parallel key height H mm	Shaft keyway depth T1 mm	Hub keyway depth T2 mm	Deviation for shaft and hub keyway depth mm	Deviation table for keyway width B	
							JS9 µm	P9 µm
	10	3	3	1.8	1.4	+0.1	+12.5 -12.5	-6 -31
10	12	4	4	2.5	1.8	+0.1	+15 -15	-12 -42
12	17	5	5	3	2.3	+0.1	+15 -15	-12 -42
17	22	6	6	3.5	2.8	+0.1	+15 -15	-12 -42
22	30	8	7	4	3.3	+0.2	+18 -18	-15 -51
30	38	10	8	5	3.3	+0.2	+18 -18	-15 -51
38	44	12	8	5	3.3	+0.2	+21.5 -21.5	-18 -61
44	50	14	9	5.5	3.8	+0.2	+21.5 -21.5	-18 -61
50	58	16	10	6	4.3	+0.2	+21.5 -21.5	-18 -61
58	65	18	11	7	4.4	+0.2	+21.5 -21.5	-18 -61
65	75	20	12	7.5	4.9	+0.2	+26 -26	-22 -74
75	85	22	14	9	5.4	+0.2	+26 -26	-22 -74
85	95	25	14	9	5.4	+0.2	+26 -26	-22 -74

Diameter		Keyway width B mm	Parallel key height H mm	Shaft keyway depth		Hub keyway depth T2 mm	Deviation for shaft and hub keyway depth mm	Deviation table for keyway width B	
above D mm	up to mm			T1 mm	T2 mm			JS9 µm	P9 µm
95	110	28	16	10	6.4	+0.2	+26	-22	
							-26	-74	
110	130	32	18	11	7.4	+0.2	+31	-26	
							-31	-88	
130	150	36	20	12	8.4	+0.3	+31	-26	
							-31	-88	
150	170	40	22	13	9.4	+0.3	+31	-26	
							-31	-88	
170	200	45	25	15	10.4	+0.3	+31	-26	
							-31	-88	
200	230	50	28	17	11.4	+0.3	+31	-26	
							-31	-88	
230	260	56	32	20	12.4	+0.3	+37	-32	
							-37	-106	
260	290	63	32	20	12.4	+0.3	+37	-32	
							-37	-106	
290	330	70	36	22	14.4	+0.3	+37	-32	
							-37	-106	
330	380	80	40	25	15.4	+0.3	+37	-32	
							-37	-106	
380	440	90	45	28	17.4	+0.3	+43.5	-37	
							-43.5	-124	
440	500	100	50	31	19.4	+0.3	+43.5	-37	
							-43.5	-124	

A

# RELATED CATALOGS

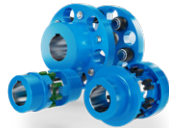
## Torsionally Rigid Couplings

FLE 10.1  
FLEX-C10001-00-7600



## Flexible Couplings

FLE 10.2  
FLEX-C10002-00-7600



## Highly Flexible Couplings

FLE 10.3  
FLEX-C10003-00-7600



## Fluid Couplings

FLE 10.4  
FLEX-C10004-00-7600



## ARPEX

High Performance Couplings  
FLE 10.5  
FLEX-C10120-00-7600



## SIPEX und BIPEX-S

Backlash-free couplings  
FLE 10.6  
FLEX-C10121-00-7600



## ARPEX

Safety couplings  
FLE 10.7  
FLEX-C10122-00-7600



**FLENDER SIP**

Standard Industrial Planetary Gear Units

MD 31.1

PDMD-C10154-00

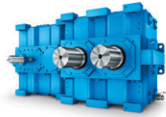


**FLENDER CHG**

Helical Gear Units

MD 20.10

PDMD-C10155-00



**Gear units**

Fast Track

MD 20.12

PDMD-C10156-00



**Bucket Elevator Drives**

MD 20.2

PDMD-C10157-00

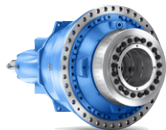


**PLANUREX 3**

Planetary Gear Units

FLE 20.3

FLEX-C10052-00-7600



**Paper Machine Drives**

MD 20.5

PDMD-C10159-00



**Conveyor Belt Drives**

MD 20.6

PDMD-C10160-00



**Marine Reduction Gearboxes**

MD 20.7

PDMD-C10161-00

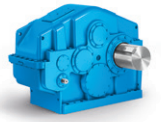


**DUORED 2**

Helical Gear Units, Load-sharing

MD 20.8

PDMD-C10162-00



**Pinion Drive for Tube Mills**

MD 20.9

PDMD-C10163-00

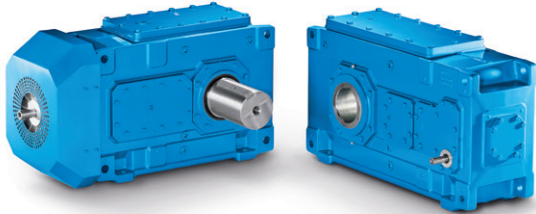




## THE RIGHT GEAR UNIT SOLUTION FOR ANY REQUIREMENT

We provide helical and planetary gear units made up of standard modules or as a complete application solution.

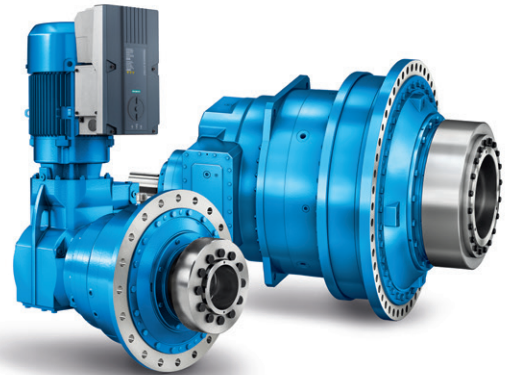
Helical and planetary gear units from Flender are modern drive solutions that satisfy the most varying and extreme demands, day after day and year after year. For decades, plant operators have been achieving high system reliability and low lifecycle costs in every conceivable industry with our helical gear units.



### Helical and bevel helical gear units

Flender helical and bevel helical gear units are by far the most comprehensive range of industrial gear units in the world. It ranges from a multi-faceted universal gear unit portfolio and application-specific gear units to customer-specific solutions.

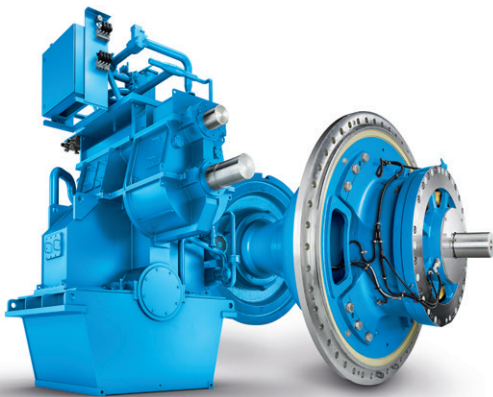
**Rated torque: 3,300 Nm ... 1,400,000 Nm**



### Planetary Gear Units

With Flender planetary gear units, we provide a range of durable, reliable and finely graduated gear unit solutions. The series wins customers over due to its highly integrated planetary geared motor and maximum conformity with all international motor standards. It also brings quality and performance in a good ratio of lifecycle costs to price.

**Rated torque: 10,000 Nm ... 5,450,000 Nm**



### Application-specific gear units

With application-specific gear units, Flender provides by far the most application solutions and thus covers nearly every drive-related need from hundreds of applications in industry and the acquisition of raw materials.

**Rated torque: up to 10,000,000 Nm**



### Customer-specific designs

Our experts are available at any time for special requirements during the development of new products. From designing and simulating complex drive solutions to implementing them, we work together with you to resolve multi-layered tasks.



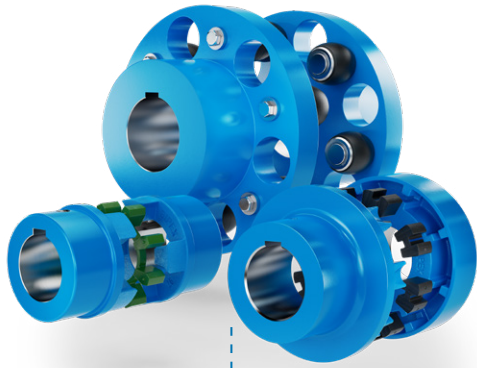
# THE PERFECT COUPLING FOR THE PERFECT GEAR UNIT

We provide elastic, highly elastic, rigid and hydrodynamic solutions.

Regardless of which demands are made on the coupling: Low or high performance, demanding operating conditions or high ambient temperatures, dusty or hazardous environments – we have the right portfolio. Our comprehensive range of couplings offers a large number of sizes and designs with a torque range from 0.5 to 10,000,000 Nm.

In over 90 years of development, conception and production, our product portfolio has grown to its current level of diversity. Nearly every matured coupling solution is available as a standard item in our modular system. This saves our customers time and money.

We are a powerful and flexible player in every market in the world – just like our customers. The production of our coupling components aims for maximum quality. As a trio, the setup, material and design result in optimal coupling solutions – rugged, dependable, largely low-maintenance and, above all, available at any time, anywhere. We provide high quality, first class delivery performance, and comprehensive service.



### Flexible couplings

Our elastic couplings are pluggable and easy to install. The elastomer element equalizes the shaft offset and absorbs impacts from the motor or driven machine.

Nominal output torque: 12 Nm ... 1,690,000 Nm



### Torsionally rigid couplings

Our compact steel couplings provide extremely precise transmission of high torques, especially in harsh operating conditions and extreme temperatures.

Nominal output torque: 92 Nm ... 10,000,000 Nm



### Hydrodynamic couplings

Soft start, overload protection, torsional vibration damping – FLUDEX® fluid couplings allow the torque-limited approach and have very little slippage at rated load.

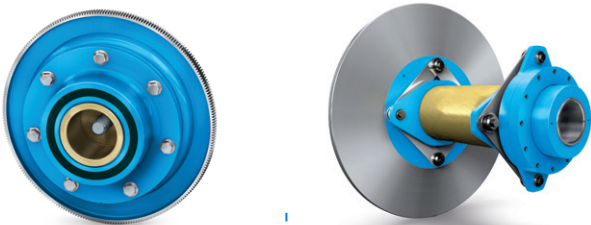
Power: 1.2 kW ... 2,500 kW



### Highly-flexible couplings

Highly flexible couplings are well-suited for connecting machines that operate asymmetrically. They are preferred for use in systems that are periodically operated.

Nominal output torque: 24 Nm ... 90,000 Nm



### Application-specific couplings

Flender offers a variety of application-specific couplings for rail vehicles and use in wind energy generation.



### Backlash-free couplings

Our couplings act as a modular interface between the motor and the work machine to ensure reliable, backlash-free power transmission in servodrives and positioning drives.

Nominal output torque: 0.1 Nm ... 5,000 Nm

Flender's system competence turns first-class components into systems with tangible added value. Drive systems from Flender ensure maximum productivity, energy efficiency and reliability in any automation environment.

### Consultation

Our customers use our interdisciplinary know-how, our application competence, our innovation strength and, last but not least, our experience to find the right drive system for their individual requirements.

Reduced engineering time, lower costs



### Integrated drive portfolio

We not only provide gear units and couplings, but also have the competence in electrical drive technology that enables us to offer the entire drive train – perfectly integrated, with optimal interaction between all components, as a standard or individual solution.

Fewer interface risks, more efficiency

## Flender service

From diagnostics and support, replacement part and repair services, all the way to maintenance and retrofit services – the Flender service portfolio creates individual solutions, fully and completely tailored to the needs of our customers. In this way, a gear unit remains an original Flender gear unit.

Increased system availability, reduced lifecycle costs

## DIAGNOSTEX

Ensuring the process stability requires status-oriented maintenance of the drive train. With DIAGNOSTEX®, sensors measure deviations of our gear units from the target status. These can be analyzed and evaluated in terms of maximized system availability.

Industrie 4.0, reduced costs

# INDIVIDUAL SOLUTIONS.

We have the right solution for you, even if your requirements are special. We no longer have to newly develop every special solution. Many solutions are already available.

At [flender.com](https://www.flender.com), we provide application-specific solutions for your special requirements.

Use our online configurator, which allows you to create tailored product combinations.



# GREAT EXPERTISE IN YOUR INDUSTRY TOO.

Each industry has its own conditions. Every application has its own specific requirements. We are looking forward to meeting your challenges.

We probably already have the right solution at hand. Here are a few examples:



Minerals and mining

**Requirement:**  
Perfectly coordinated drive system



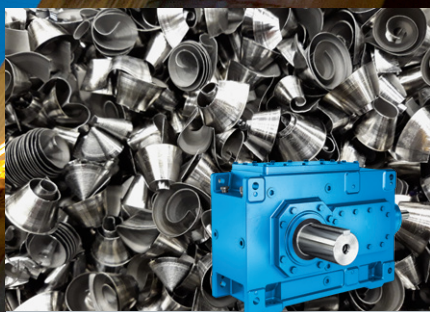
Cement

**Requirement:**  
Low maintenance effort and cost,  
sealing due to dirt in surroundings



Plastics and rubber

**Requirement:**  
Absorption of high axial forces,  
suitability for explosion protection



Environmental and recycling

**Requirement:**  
Highest possible reliability, rugged  
design



Pulp and paper

**Requirement:**  
Suitability for centrally located  
lubrication



Industrial cranes

**Requirement:**  
Quick availability, version with  
double drive shaft



### Chemicals

**Requirement:**

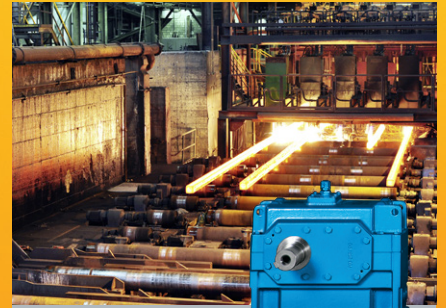
Absorption of forces from the manufacturing process



### Power generation

**Requirement:**

Effective cooling, speed adjustment for motor to fan



### Metals

**Requirement:**

Harsh working conditions, high peak loads



### Harbor cranes

**Requirement:**

Specific axle clearance, frequent start-up



### Oil and gas

**Requirement:**

Flexible adaptation to speed requirements



### Water and wastewater

**Requirement:**

Absorption of external forces, oil-retaining pipe required



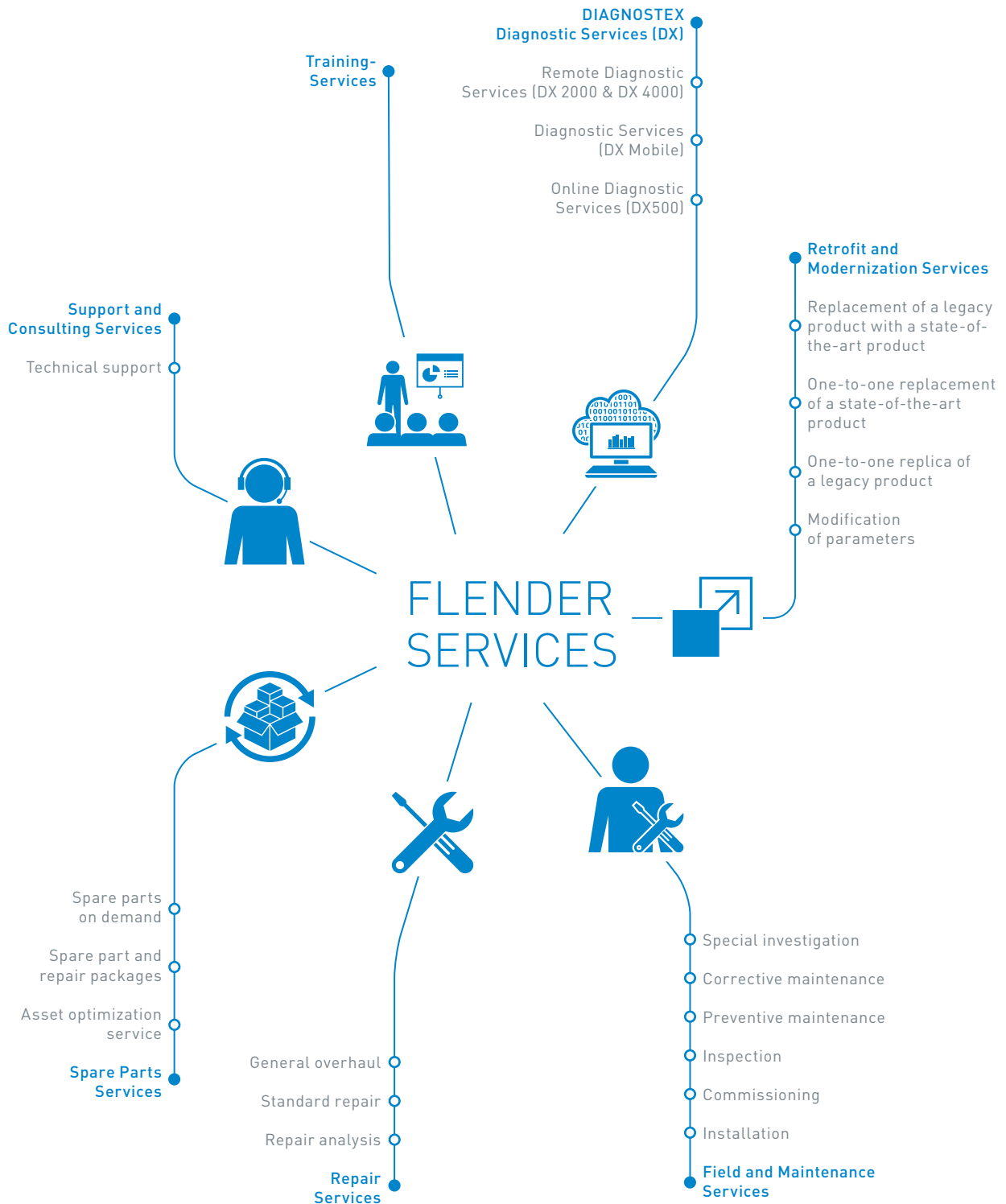
## AN ORIGINAL FOR THE LONG TERM WITH ORIGINAL FLENDER SERVICES

Ever increasing requirements make it more and more important for industrial plants to work with maximum productivity and efficiency. Flender Services give companies a decisive advantage over the competition in industry, the acquisition of raw materials and energy production. In view of the high cost pressure, increasing energy prices and stricter and stricter environmental stipulations, our services are becoming a decisive factor to success over the competition.

Enjoy the support of our service experts, from planning, development and operation to the modernization of your plant and benefit from our experience and in-depth know-how of your application – in more than 100 countries, seven days a week, 24 hours a day.

Reduce standstills, minimize downtimes due to failure, and increase the productivity, flexibility and cost efficiency of your plant.

# OUR OFFER FOR GEAR UNITS AND COUPLINGS AT A GLANCE.







# FLENDER COUPLINGS CATALOG **FLE 10.2** EDITION 2026 EN



WE  
**MOVE**<sub>the</sub>  
WORLD

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Article no.: FLEX-C10002-00-7600

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