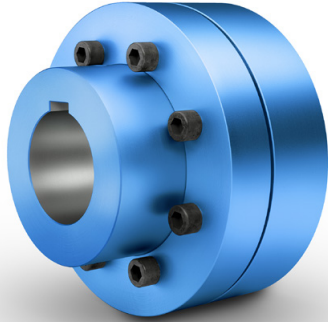


FLEXIBLE COUPLINGS – N-EUPEX, N-EUPEX DS SERIES

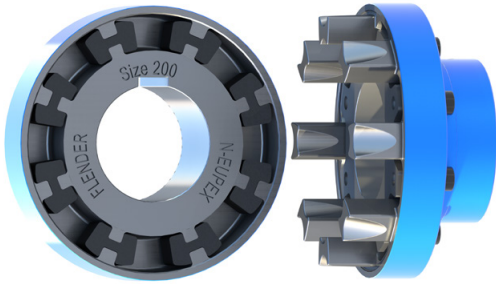


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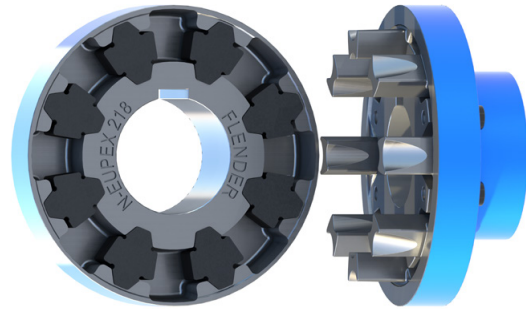


N-EUPEX
FLENDER

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 -30 °C and +80 °C. By using alternative elastomer flexibles, the permissible ambient temperature range can be extended to between -50 °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 FLUDEK 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

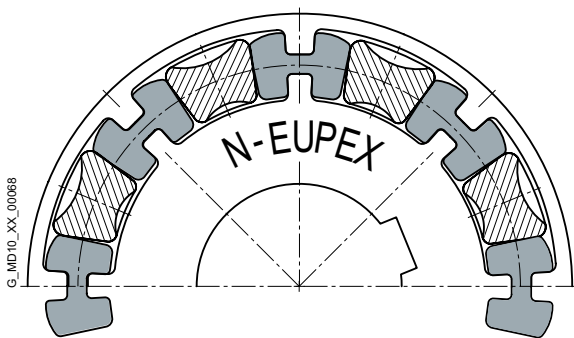
N-EUPEX and N-EUPEX DS couplings consist of two coupling halves mounted on the machine shafts. The coupling parts are connected positively by means of elastomer flexibles. On the two-part variant, the elastomer flexibles can be changed only if one of the coupled machines is moved.

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



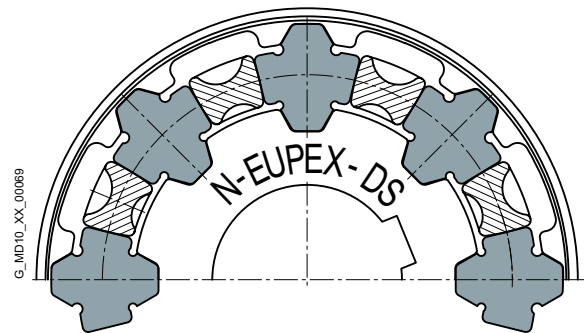
The flexibles of the N-EUPEX coupling are subjected to compression. This results in progressive torsion spring characteristics. If the flexibles are irreparably damaged, the hub parts come into contact with metal. This causes the torque to continue to be transmitted in "emergency mode" for a short period 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
N-EUPEX series			
NBR standard type	80 ShoreA	Flexible black with blue stripe	-30 °C ... +80 °C
NBR electrically insulating	80 ShoreA	Flexible green	-30 °C ... +80 °C
NBR soft	65 ShoreA	Flexible black with green stripe	-30 °C ... +80 °C
NBR hard	90 ShoreA	Flexible black with magenta stripe	-30 °C ... +80 °C
NBR normal low-backlash	80 ShoreA	Flexible black with yellow stripe	-30 °C ... +80 °C
NBR soft low-backlash	65 ShoreA	Flexible black with white stripe	-30 °C ... +80 °C
NR for low temperature	80 ShoreA	Flexible black with orange stripe	-50 °C ... +50 °C
HNBR high temperature	80 ShoreA	Flexible black with red stripe	-10 °C ... +100 °C
Type N-EUPEX DK			
NBR hard	90 ShoreA	Flexible black with magenta stripe	-30 °C ... +80 °C
N-EUPEX DS series			
NBR hard	90 ShoreA	Flexible black	-30 °C ... +80 °C

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

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

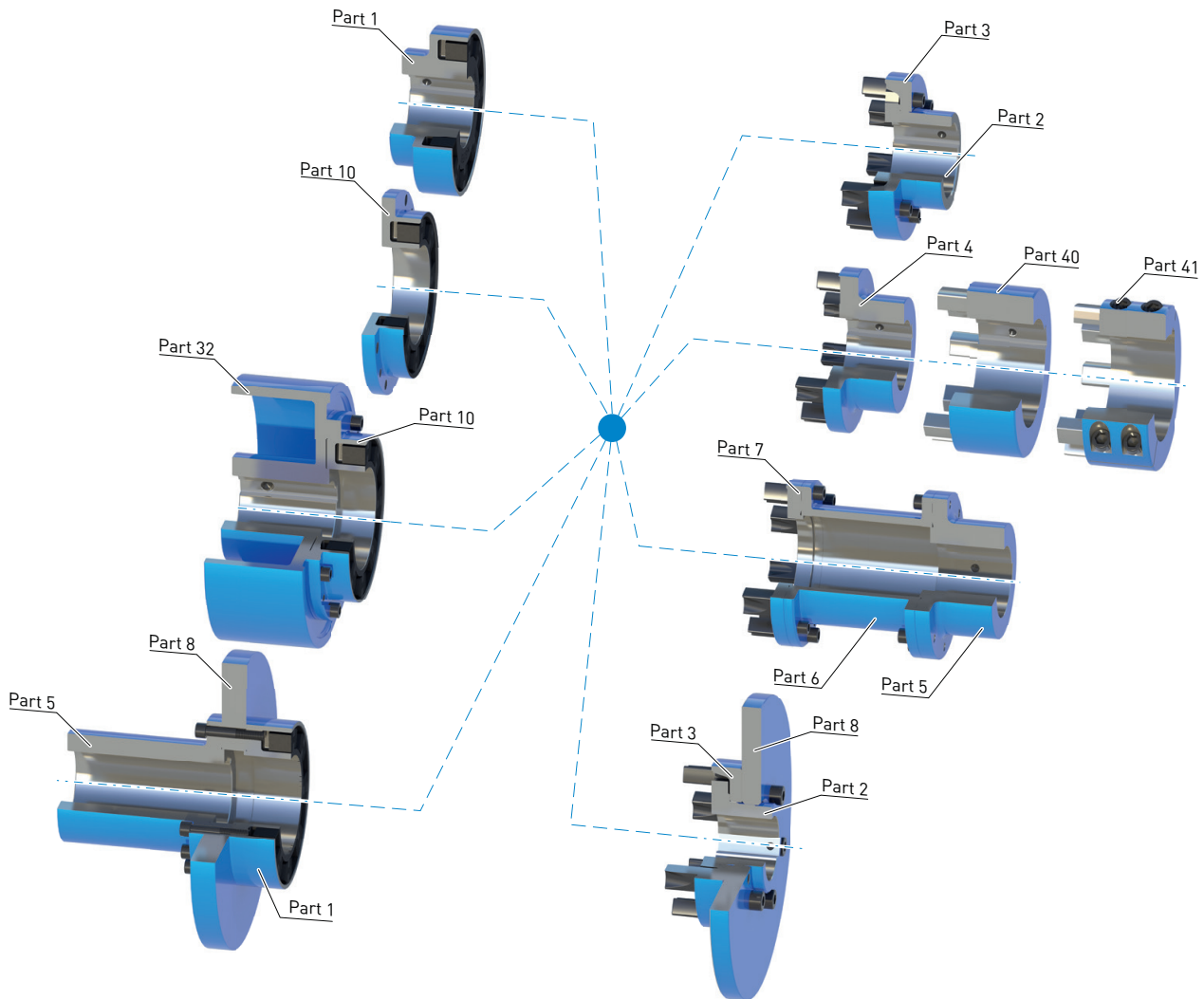
Type	Description
A	Fail-safe, 3-part
B	Fail-safe, 2-part
D	Fail-safe, 3-part, flange variant
E	Fail-safe, 2-part, flange variant
DK	Fail-safe, double-cardanic, with spacer
H	Fail-safe, with adapter
P	Fail-safe, 3-part, with brake drum
O	Fail-safe, 2-part, with brake drum
DBDR	Fail-safe, 3-part, with brake disk, brake disk radially dismountable
ABD	Fail-safe, 3-part, with brake disk
ADS	Non-fail-safe, 3-part
BDS	Non-fail-safe, 2-part
HDS	Non-fail-safe, with adapter

Special types of N-EUPEX pin coupling on request

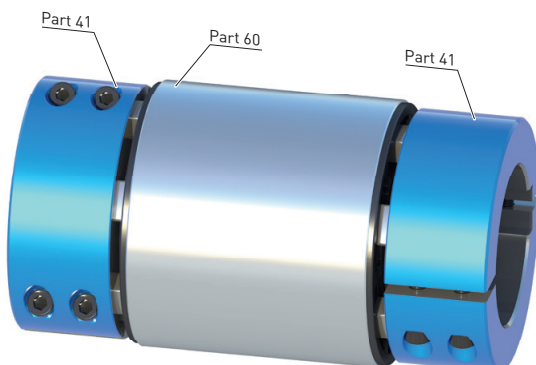
Type	Description
AT	Fail-safe, 3-part, with Taper clamping bush
BT	Fail-safe, 2-part, with Taper clamping bush
F	Fail-safe, 3-part, with intermediate shaft
G	Fail-safe, 2-part, with intermediate shaft
K	Fail-safe, 3-part, with brake drum to customer's requirement
L	Fail-safe, 2-part, with brake drum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



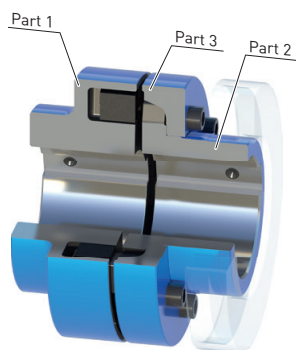
N-EUPEX DK



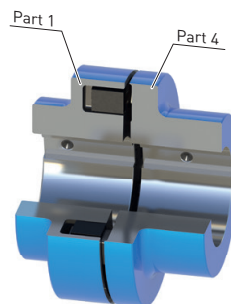
In the case of larger radial misalignment, a double-cardanic N-EUPEX coupling can be supplied in addition to the modular system. The spacer (part 60) is centered with the help of the N-EUPEX elastomer elements. Any radial misalignment that emerges between the shaft ends will accordingly be equalized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

GENERAL

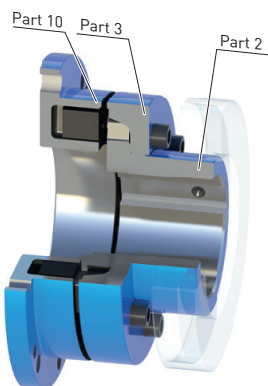
Types N-EUPEX



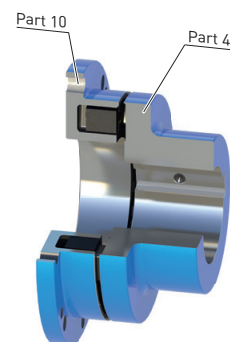
Types A and ADS



Types B and BDS

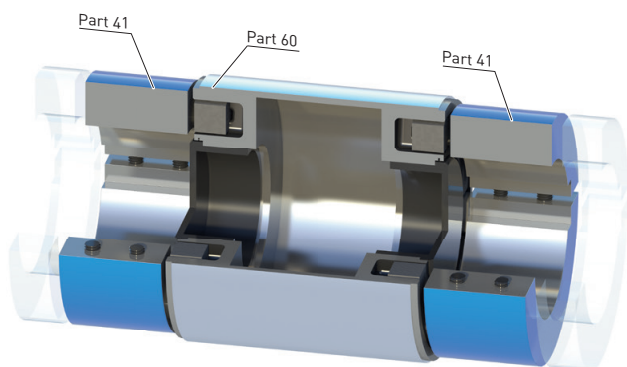


Type D

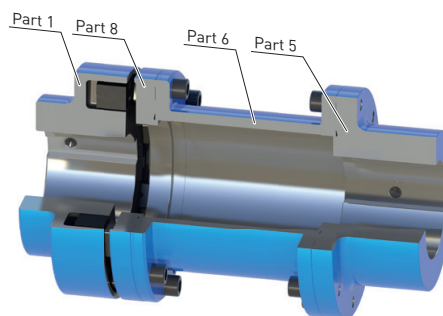


Type E

Types N-EUPEX with adapter

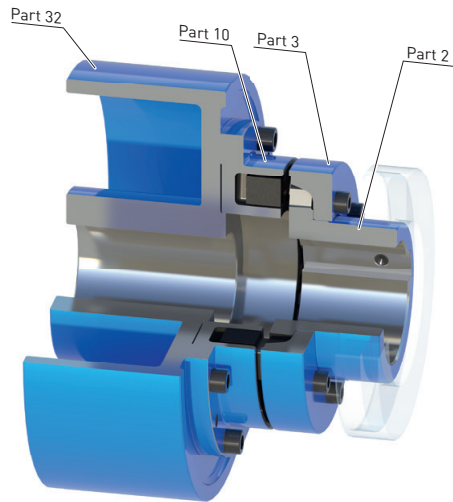


Type DK

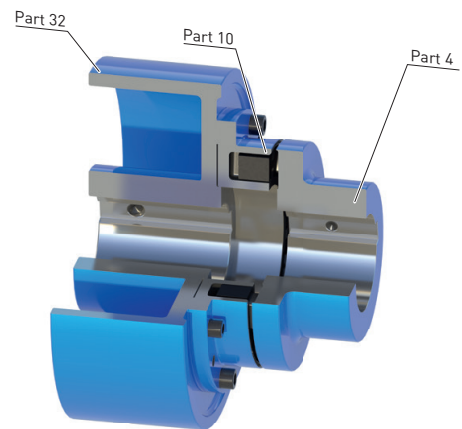


Types H and HDS

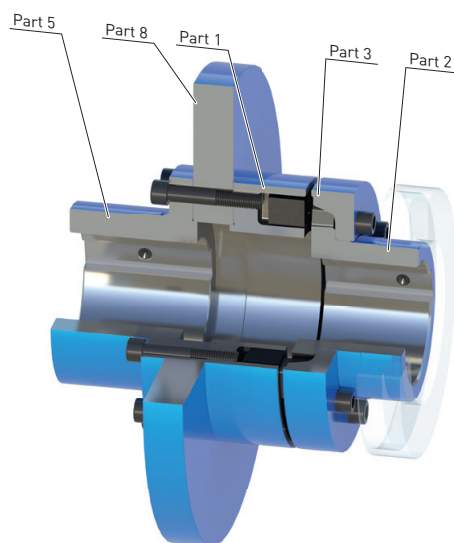
Type N-EUPEX with brake disk/brake drum



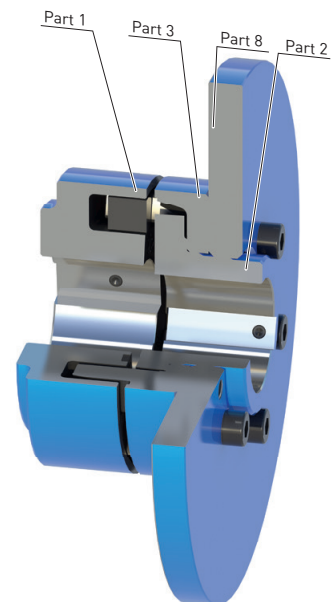
Type P



Type O



Type DBDR



Type ABD

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 ¹⁾ $n = 1500$ rpm	
	65 ShoreA T_{KN} Nm	80 ShoreA T_{KN} Nm	90 ShoreA T_{KN} Nm	65 ShoreA T_{Kmax} Nm	80/90 ShoreA T_{Kmax} Nm	65 ShoreA C_{Tdyn} 50 % kNm/rad	80 ShoreA C_{Tdyn} 50 % kNm/rad	90 ShoreA C_{Tdyn} 50 % kNm/rad	Radial ΔK_r mm	Angle ΔK_w °
58	12	28	34	36	70	0.22	0.75	1.51	0.2	0.15
68	23	48	58	69	120	0.42	1.26	2.79	0.2	0.15
80	40	85	100	120	212	1.13	3.21	6.81	0.2	0.12
95	69	140	160	207	350	1.77	5.32	10.86	0.2	0.12
110	110	225	270	330	562	2.70	8.15	17.47	0.2	0.10
125	165	345	400	495	862	4.0	12.3	25.5	0.25	0.10
140	250	500	600	750	1250	6.0	18	37.6	0.25	0.10
160	385	840	1000	1150	2100	12.2	39.4	82.8	0.3	0.10
180	600	1250	1500	1800	3125	20.6	63.6	135.5	0.3	0.10
200	935	1950	2300	2800	4875	34.2	106.8	216.6	0.3	0.09
225	1380	2300	2700	4150	5750	52	131	267	0.35	0.09
250	1930	3900	4600	5800	9750	73	221	451	0.35	0.08
280	2700	5500	6600	8100	13750	103	313	639	0.4	0.08
315	3850	7100	8500	11550	17750	186	472	1037	0.4	0.08
350	5335	10800	12900	16000	27000	255	708	1444	0.5	0.08
400	7150	14000	16800	21450	35000	343	997	2108	0.5	0.08
440	9350	19000	22800	28050	47500	427	1280	2943	0.6	0.08
480	11550	25100	30000	34650	62750	550	1781	3763	0.6	0.07
520	14630	32400	38800	43890	81000	650	2124	4485	0.65	0.07
560	20130	39000	46000	60390	97500	1095	3119	6899	0.65	0.07
610	26400	49000	58000	79200	122500	1422	3873	8542	0.75	0.07
660	33990	63000	75000	101970	157500	1799	4834	10689	0.8	0.07
710	42900	71000	85000	128700	177500	2339	5608	12225	0.9	0.07

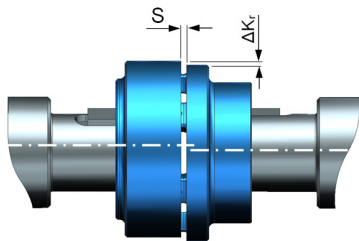
For coupling fatigue torque:

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

N-EUPEX shaft distance S and radial misalignment ΔK_r

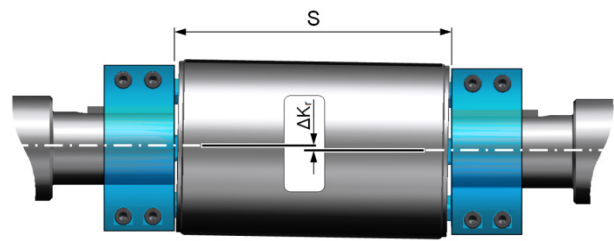
N-EUPEX (single-joint coupling)

Radial misalignment ΔK_r and angular misalignment ΔK_w as well as changes in gap dimension are equalized in a elastomer joint. Values for ΔS can be found in the respective type selection tables.



N-EUPEX DK (two-joint coupling)

Radial misalignment ΔK_r and angular misalignment ΔK_w as well as changes in gap dimension are equalized in two elastomer joints. Values for ΔS can be found in the corresponding type selection tables.



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

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

Size	Rated torque 90 ShoreA	Maximum torque 90 ShoreA	Torsional stiffness at 50 % capacity utilization for flexible type	Permitted shaft misalignment at $n = 1500$ rpm 1)					
	T_{KN} Nm	T_{KN} Nm	90 ShoreA C_{Tdyn} 50 % kNm/rad	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	Angle 2) ΔK_w °
68	48	120	1.18	1.2	–	–	–	–	0.20
80	85	212	2.95	1.2	1.7	–	–	–	0.20
95	140	350	4.84	1.1	1.6	–	–	–	0.20
110	225	562	7.44	1.0	1.5	2.1	–	–	0.20
125	345	862	11.2	1.0	1.5	2.0	2.3	–	0.10
140	500	1250	16.1	0.9	1.4	1.8	2.1	2.7	0.10
160	840	2100	35.4	–	1.3	1.8	2.1	2.7	0.10
180	1250	3125	57.6	–	1.3	1.8	2.0	2.6	0.10
200	1950	4875	93.5	–	1.2	1.7	2.0	2.6	0.10
225	2300	5750	118	–	–	1.7	1.9	2.6	0.10

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 65/80/90 ShoreA	0.50	0.82	1.00	1.20	1.40	1.63	2.10

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 ± 20 %. The specified damping coefficient Ψ is a minimum value with the result that the damping performance of the coupling corresponds at least to the specified value.

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 ΔK_r and ΔK_w may occur simultaneously.

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

2) The angular misalignment ΔK_w refers to the maximum additional tilting of the shaft axes.

GENERAL

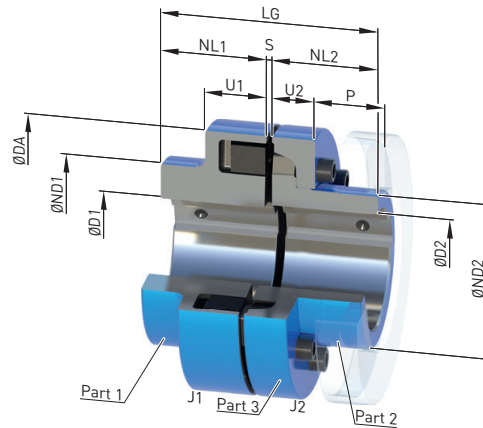
Assignment of N-EUPEX sizes to IEC standard motors (selected operating factor = 1.25) ¹⁾

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

¹⁾ 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. ¹⁾	Weight m			
			Bore with keyway to DIN 6885-1																			
			D1		D2		DA	ND1 ²⁾	ND2	NL1/NL2	S	ΔS	U1	U2	P	LG						
	Nm	rpm	min.	max.	min.	max.						+/-					kgm ²		kg			
110	225	6300	–	55	–	45	110	86	62	40	3	1.0	34	20	33	83	0.002	2LC0170-4AB	2.7			
125	345	6100	–	60	–	55	125	100	75	50	3	1.0	36	23	38	103	0.004	2LC0170-5AB	4.2			
140	500	5800	–	65	–	60	140	100	82	55	3	1.0	34	28	43	113	0.007	2LC0170-6AB	5.6			
160	840	5100	–	70	–	70	160	108	95	60	4	2.0	39	28	47	124	0.013	2LC0170-7AB	7.8			
180	1250	4500	–	80	–	80	180	125	108	70	4	2.0	42	30	50	144	0.023	2LC0170-8AB	11			
200	1950	4000	–	85	–	90	200	140	122	80	4	2.0	47	32	53	164	0.04	2LC0171-0AB	16			
225	2300	3600	–	90	–	100	225	150	138	90	4	2.0	52	38	61	184	0.07	2LC0171-1AB	23			
250	3900	3300	46	100	–	115	250	165	155	100	5.5	2.5	60	42	69	205.5	0.13	2LC0171-2AB	32			
280	5500	3000	49	110	54	125	280	180	172	110	5.5	2.5	65	42	73	225.5	0.20	2LC0171-3AB	42			
315	7100	2600	49	120	45	145	315	200	200	125	5.5	2.5	70	47	78	255.5	0.37	2LC0171-4AB	61			
350	10800	2400	61	140	60	165	350	230	230	140	5.5	2.5	74	51	83	285.5	0.64	2LC0171-5AB	85			
400	14000	2000	66	150	65	180	400	250	250	160	5.5	2.5	78	56	88	325.5	1.1	2LC0171-6AB	119			
440	19000	1900	80	160	80	190	440	265	265	180	7.5	2.5	86	64	99	367.5	1.7	2LC0171-7AB	156			
480	25100	1800	90	180	90	215	480	300	300	190	7.5	2.5	90	65	104	387.5	2.7	2LC0171-8AB	199			
520	32400	1500	100	190	100	225	520	315	315	210	7.5	2.5	102	68	115	427.5	3.8	2LC0172-0AB	251			
560	39000	1500	120	200	120	230	560	320	320	220	9	3.0	115	80	125	449	5.3	2LC0172-1AB	303			
610	49000	1300	130	220	130	250	610	352	352	240	9	3.0	121	88	135	489	8.2	2LC0172-2AB	393			
660	63000	1200	140	240	140	275	660	384	384	260	9	3.0	132	96	145	529	12.3	2LC0172-3AB	501			
710	71000	1100	140	260	140	300	710	416	416	290	9	3.0	138	102	155	589	17.4	2LC0172-4AB	623			

Configurable variants ¹⁾

- 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

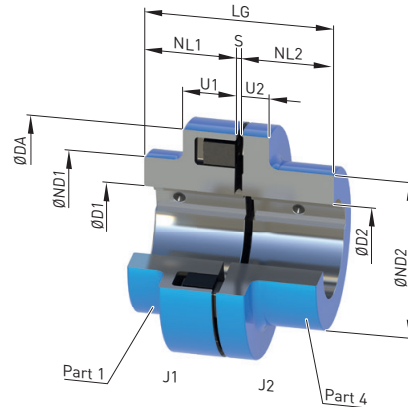
Article no.: 2LC0171-0AB99-0AA0 L1F+M1C

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

²⁾ The hub diameter HD1 can be smaller for small bores.

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

TYPE B



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 ²	Article no. ¹⁾	Weight m kg			
			D1		D2 ²⁾		Part 40 ³⁾	DA	ND1	ND2	NL1/ NL2	S	ΔS				U1	U2	LG
			min.	max.	min.	max.													
58	28	9000	–	24	–	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 ¹⁾

- 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

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

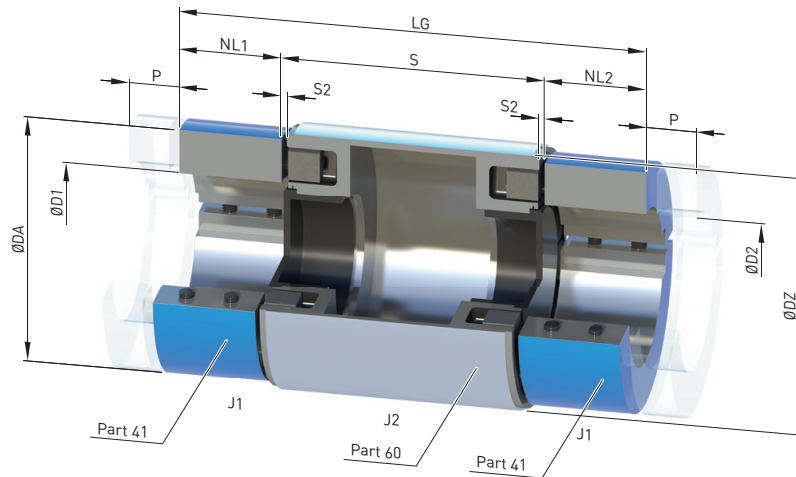
²⁾ The hub diameter HD1 can be smaller for small bores.

³⁾ Version with part 40 (jumbo hub) available on request.

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

TYPE DK

for large misalignment with simple installation and removal



Size	Rated torque flexible type 90 ShoreA T_{KN}	Speed n_{Kmax}	Dimensions in mm										Mass moment of inertia		Article no. ¹⁾	Weight m		
			Bore with keyway to DIN 6885-1		DA	DZ	NL1/NL2	Shaft distances S ²⁾		ΔS	S2	P	LG	J_1	J_2			
			D1/D2					Preferred dimension	Available standard dimensions									
	Nm	rpm	min.	max.						+/-				kgm ²	kgm ²		kg	
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 variants¹⁾

- 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 j_6 to p_6
- 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 j_6 to p_6
- Part 41-2: Bore D1 32 mm, with keyway as per DIN 6885-1, recommended shaft tolerances j_6 to p_6

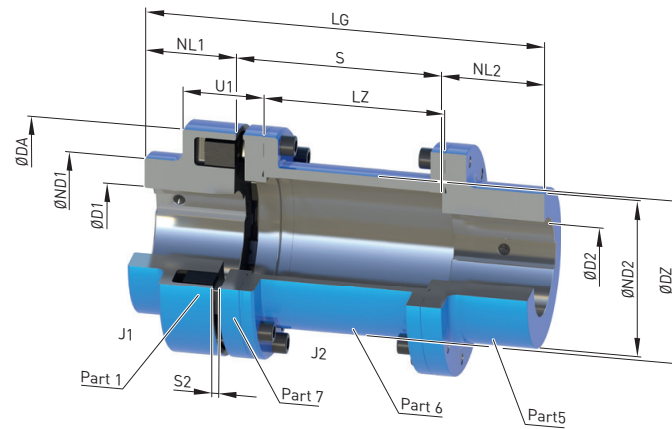
Article no.: 2LC0170-3BA99-0AA0 L0X+M0T

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

²⁾ Special lengths on request.

➤ For online configuration on [flender.com](https://www.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. ¹⁾	Weight m kg				
			Bore with keyway to DIN 6885-1				D1 min.	D1 max.	D2 min.	D2 max.	DA	ND1 ²⁾	ND2	NL1	NL2	S	S2	LZ	DZ	LG	J_1 kgm ²	J_2 kgm ²		
80	85	7200	-	38	-	38	80	80	55	30	45	100	5	87	51	175	0.0006	0.001	2LC0170-2AG	2.4				
95	140	6600	-	48	-	48	95	76	70	35	45	100	5	87	63	180	0.0009	0.003	2LC0170-3AG	3.3				
110	225	6300	-	55	-	55	110	86	80	40	50	100	5	85	73	190	0.003	0.005	2LC0170-4AG	4.8				
125	345	6100	-	60	-	60	125	100	90	50	50	140	5	125	85	230	0.005	0.006	2LC0170-4AG	5.0				
140	500	5800	-	65	-	65	140	100	100	55	65	180	5	165	85	290	0.005	0.011	2LC0170-5AG	7.8				
140	500	5800	-	65	-	65	140	100	100	55	65	200	5	182	91	300	0.007	0.02	2LC0170-6AG	10.6				

Configurable variants ¹⁾

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

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

²⁾ The hub diameter HD1 can be smaller for small bores

➤ For online configuration on 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. ¹⁾	Weight m kg		
			Bore with keyway to DIN 6885-1													J_1 kgm ²	J_2				
			D1 min.	max.	D2 min.	max.	DA	ND1 ²⁾	ND2	NL1	NL2	S	S2	LZ	DZ	LG					
160	840	5100	–	70	–	70	160	108	108	60	70	100	6	81.5	111	230	0.013	0.03	2LC0170-7AG	12.5	
																			0.032	2LC0170-7AG	13
																			0.034	2LC0170-7AG	14
																			0.035	2LC0170-7AG	14
																			0.037	2LC0170-7AG	15
180	1250	4500	–	80	–	80	180	125	125	70	80	140	6	121.5	131	290	0.023	0.053	2LC0170-8AG	18	
																			0.057	2LC0170-8AG	19
																			0.059	2LC0170-8AG	20
																			0.064	2LC0170-8AG	21
																			0.094	2LC0171-0AG	25
200	1950	4000	–	85	–	90	200	140	140	80	90	180	6	158.5	144	350	0.04	0.099	2LC0171-0AG	26	
																			0.104	2LC0171-0AG	27
																			0.109	2LC0171-0AG	28
																			0.157	2LC0171-1AG	33
																			0.16	2LC0171-1AG	34
225	2300	3600	–	90	–	95	225	150	150	90	100	180	6	158.5	169	370	0.07	0.17	2LC0171-1AG	35	
																			0.17	2LC0171-1AG	35
																			0.18	2LC0171-1AG	37
																			0.27	2LC0171-2AG	48
																			0.28	2LC0171-2AG	50
250	3900	3300	46	100	46	100	250	165	165	100	110	180	8	152.5	185	410	0.12	0.3	2LC0171-2AG	52	
																			0.28	2LC0171-2AG	50
																			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	250	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	310	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 variants¹⁾

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

Notes

- For dimension U1, see type A on page 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

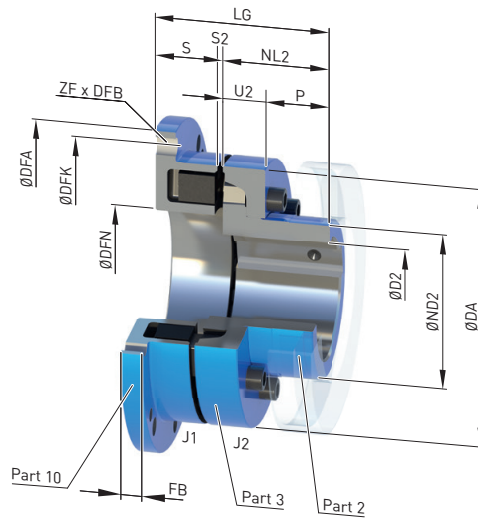
¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

²⁾ The hub diameter HD1 can be smaller for small bores

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

TYPE D

for easy elastomer flexible replacement



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. ¹⁾	Weight m kg
			Bore with keyway to DIN 6885-1		DA	ND2	NL2	S	ΔS +/-	S2	LG	DFA h8	DFN H7	DFK	FB	ZF	DFB	J_1 kgm ²	J_2 kgm ²			
			D2 min.	max.																		
110	225	6300	–	45	110	62	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	75	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	82	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	95	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	108	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	122	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	138	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	155	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	172	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 ¹⁾

- ØD2 Without finished bore
With finished bore

¹⁾ 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.

Configurable variants ¹⁾

- ØD2 Without finished bore
With finished bore

Notes

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

Ordering example

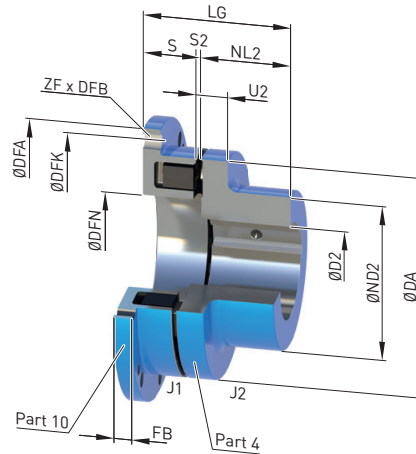
- N-EUPEX D coupling, size 125
- Part 10: with through bores
- Part 2: Bore D2 38H7 mm, with keyway to DIN 6885-1 and set screw

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

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

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

TYPE E



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

Configurable variants ¹⁾

- ØD2 Without finished bore
With finished bore

¹⁾ 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.

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. ¹⁾	Weight m kg				
			Bore with keyway to DIN 6885-1		DA	ND2	NL2	S	ΔS +/-	S2	LG	DFA h8	DFN H7	DFK	FB	ZF	DFB	J_1 kgm ²	J_2 kgm ²								
			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		2LC0170-8AC1 2LC0170-8AC2	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		2LC0171-0AC1 2LC0171-0AC2	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		2LC0171-1AC1 2LC0171-1AC2	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		2LC0171-2AC1 2LC0171-2AC2	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		2LC0171-3AC1 2LC0171-3AC2	34					

Configurable variants ¹⁾

- ØD2 Without finished bore
With finished bore

Notes

- For dimension U2, see type B on page 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

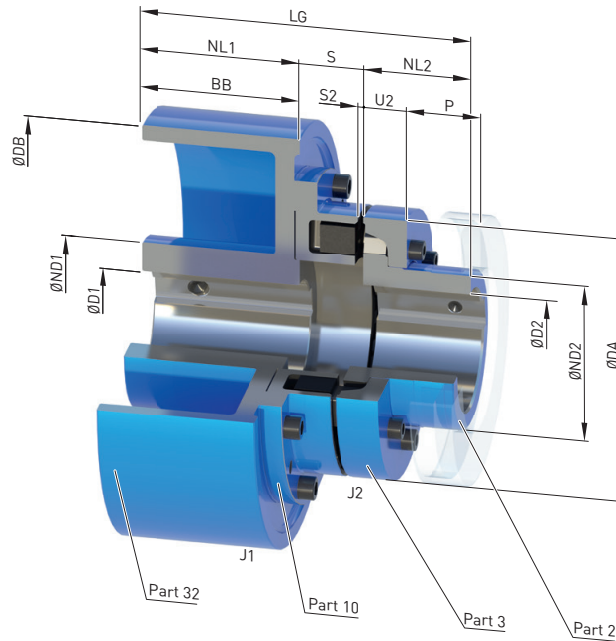
Article no.: 2LC0170-5AC19-0AA0 M0V

¹⁾ 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 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. ¹⁾	Weight m kg		
			Bore with keyway to DIN 6885-1				DA	ND1	ND2	NL1/BB	NL2	S	ΔS +/-	S2	DB	U2	LG	J_1 kgm ²	J_2 kgm ²		
			D1 min.	D1 max.	D2 min.	D2 max.															
125	345	4800	-	55	-	55	125	84	75	75	50	31	1.0	3	200	23	156	0.043	0.004	2LC0170-5AF	11
140	500	3800	-	60	-	60	140	128	82	95	55	34	1.0	3	250	28	184	0.13	0.007	2LC0170-6AF	21
160	840	3800	-	70	-	70	160	128	95	95	60	40	2.0	4	250	28	195	0.14	0.013	2LC0170-7AF	21
180	1250	3800	-	80	-	80	180	128	108	95	70	41	2.0	4	250	30	206	0.16	0.023	2LC0170-8AF	27
		3000	-	80	-	80		128		118		43			315		231	0.35		2LC0170-8AF	34
		3000	-	80	-	80		128		118		48			315		246	0.37		2LC0171-0AF	39
200	1950	2400	-	90	-	90	200	160	122	150	80	48	2.0	4	400	32	278	1.1	0.04	2LC0171-0AF	59
		1900	-	110	-	110		175		190		48			500		318	2.8		2LC0171-0AF	97
		3000	-	80	-	80		128		118		51			315		259	0.39		2LC0171-1AF	46
225	2300	2400	-	90	-	100	225	160	138	150	90	53	2.0	4	400	38	293	1.1	0.07	2LC0171-1AF	64
		1900	38	110	-	110		175		190		53			500		333	3.1		2LC0171-1AF	103

Configurable variants ¹⁾

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

¹⁾ 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.

Size	Rated torque flexible type 80 ShoreA T_{KN} Nm	Speed n_{Kmax} rpm	Dimensions in mm													Mass moment of inertia		Article no. ¹⁾	Weight m kg				
			Bore with keyway to DIN 6885-1			D1 min.	D2 min.	max.	DA	ND1	ND2	NL1/BB	NL2	S	ΔS +/-	S2	DB	U2	LG	J_1 kgm ²	J_2		
250	3900	2400	-	100	-	115	-	-	250	160	155	150	100	62.5	2.5	5.5	400	42	312.5	1.16	0.13	2LC0171-2AF	74
		1900	38	110	-																		
		2400	-	100	-																		
280	5500	1900	48	110	54	125	-	-	280	175	172	190	110	67.5	2.5	5.5	500	42	367.5	3.1	0.2	2LC0171-3AF	111
		1500	48	110	-																		
		2400	-	100	-																		
315	7100	1900	48	110	45	145	-	-	315	160	200	150	125	72.5	2.5	5.5	500	47	387.5	3.3	0.37	2LC0171-4AF	131
		1500	48	110	-																		
		2400	-	100	-																		
350	10800	1300	55	120	60	165	-	-	350	175	230	236	140	76.5	2.5	5.5	630	51	452.5	8.5	0.64	2LC0171-5AF	197
		1500	48	110	-																		
		1300	55	120	-																		

Configurable variants ¹⁾

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

Notes

- For dimension P, see type A on page **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

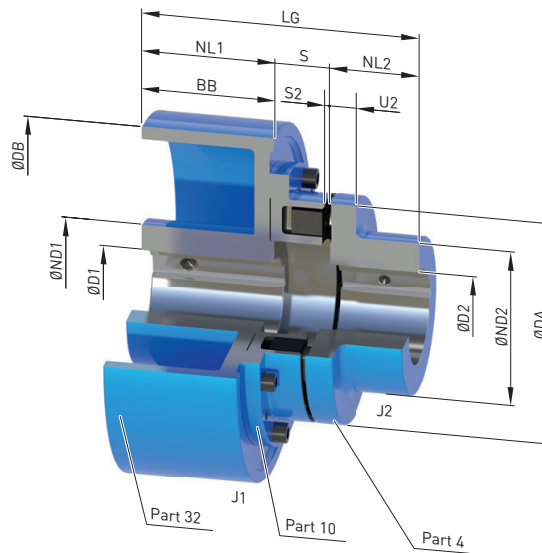
Plain text to Y95: G 6.3, n = 1500 rpm

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

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

TYPE O

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. ¹⁾	Weight m kg
			Bore with keyway to DIN 6885-1				DA	ND1	ND2	NL1/BB	NL2	S	ΔS +/-	S2	DB	U2	LG	J_1 kgm ²	J_2 kgm ²			
			D1 min.	max.	D2 min.	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	-	80				118		43			315		231	0.35		2LC0170-8AE	35	
		3000	-	80	-	80		128		118		48			315		246	0.37		2LC0171-0AE	40	
200	1950	2400	-	90	-	85	200	160	140	150	80	48	2.0	4	400	24	278	1.10	0.04	2LC0171-0AE	60	
		1900	-	110	-	85		175		190		48			500		318	2.80		2LC0171-0AE	98	

Configurable variants ¹⁾

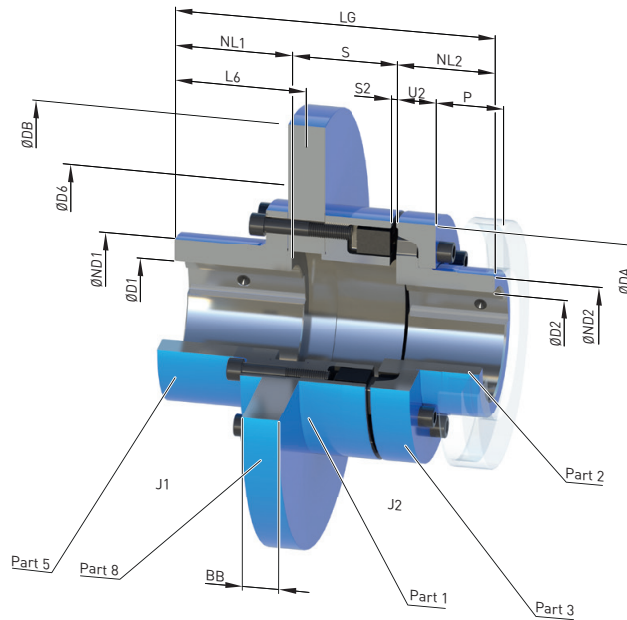
- ØD1 Without finished bore
With finished bore
- ØD2 Without finished bore
With finished bore

¹⁾ 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 DBDR

with brake disk



Size	Rated torque flexible type 80 ShoreA T_{KN} Nm	Dimensions in mm															Mass moment of inertia		Article no. ¹⁾	Weight m kg	
		D1 max.	D2 min.	D2 max.	DA	ND1	ND2	NL1	NL2	S ²⁾	ΔS +/-	S2	DB ²⁾ min.	D6 min.	BB ²⁾	L6	LG	J_1 min. kgm ²	J_2 kgm ²		
140	500	60	-	60	140	85	82	72	55	54.35	1.0	3	315	150	12.7	74	181.35	0.11	0.008	2LC0170-6AV	14.7
								72	55	57.5						15	76	184.5	0.13		16.2
								188	73	73						30	200	316	0.24		26.9
160	840	75	-	70	160	105	95	90	60	58.35	2.0	4	315	170	12.7	91	208.35	0.12	0.013	2LC0170-7AV	18.5
								90	60	62.5						15	94	212.5	0.14		20
								188	78	78						30	200	326	0.26		31
180	1250	90	-	80	180	125	108	90	70	60.35	2.0	4	315	190	12.7	91	220.35	0.35	0.024	2LC0170-8AV	25
								90	70	64.5						15	94	224.5	0.37		26
								188	80	80						30	200	338	0.57		42
200	1950	95	-	90	200	135	122	95	80	67.35	2.0	4	355	210	12.7	97	242.35	0.32	0.04	2LC0171-0AV	32
								95	80	70.5						15	99	245.5	0.36		35
								188	86	86						30	200	354	0.67		54

Configurable variants ¹⁾

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

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

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

➤ For online configuration on [flender.com](https://www.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. ¹⁾	Weight m kg
		D1 max.	D2 min.	D2 max.	DA	ND1	ND2	NL1	NL2	S	ΔS +/-	S2	DB ²⁾ min.	D6 min.	BB ²⁾ min.	L6	L6		
225	2300	115	-	100	225	160	138	100		72.35						12.7	103	262.35	0.52
								100	90	74.5	2.0	4	400	235	15	104	264.5	0.59	2LC0171-1AV
								188		90					30	200	368	1.1	
250	3900	120	-	115	250	170	155	105		83.35						12.7	107	288.35	1.6
								105	100	86.5	+2/-3	6	450	260	15	109	291.5	1.7	2LC0171-2AV
								188		102					30	200	390	2.5	
280	5500	140	54	125	280	200	172	120		87.35						12.7	122	317.35	1.3
								120	110	90.5	+2/-3	6	500	350	15	124	320.5	1.5	2LC0171-3AV
								188		106					30	200	404	2.7	
315	7100	140	45	145	315	200	200	130		87.35						12.7	130	342.35	2.1
								130	125	92.5	+2/-3	6	500	350	15	134	347.5	2.3	2LC0171-4AV
								188		108					30	200	421	4.2	
350	10800	165	60	165	350	230	230	135		97.35						12.7	136	372.35	3.3
								135	140	101.5	+2/-3	6	500	360	15	139	376.5	3.8	2LC0171-5AV
								188		117					30	200	445	6.7	

Configurable variants ¹⁾

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

Notes

- For dimensions U2 and P, see type A on page 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 = 1500 rpm

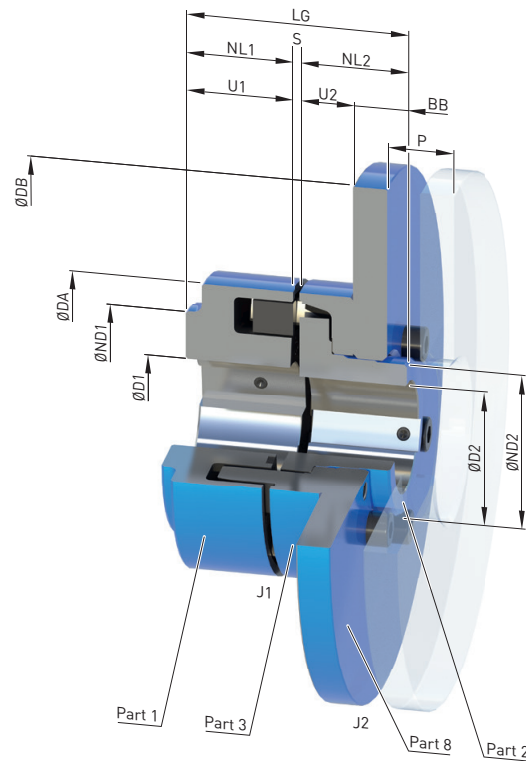
¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

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

➤ For online configuration on [flender.com](https://www.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. ¹⁾	Weight m kg	
			Bore with keyway to DIN 6885-1				DA	ND1 ²⁾	ND2	NL1/ NL2	S	ΔS +/-	U1	U2	P	DB ³⁾	BB ³⁾	LG				
			D1		D2														J_1	J_2		
			min.	max.	min.	max.										min.			kgm ²	kgm ²		
140	500	5500	-	65	-	60	140	100	82	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	95	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	108	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	122	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	138	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	155	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	172	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	200	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	230	140	5.5	2.5	74	51	83	710	30	285.5	0.64	6.5	2LC0171-5BB	167

Configurable variants ¹⁾

- 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 = 1500 rpm

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

²⁾ The hub diameter HD1 can be smaller for small bores.

³⁾ For the available DB · BB brake disk dimensions, please refer to the product configurator on flender.com.

➤ For online configuration on 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 T_{KN} Nm	Maximum torque T_{Kmax} Nm	Torsional stiffness at 50 % capacity utilization ¹⁾ C_{Tdyn} kNm/rad	Assembly Gap dimension ²⁾ ΔS mm	Permitted shaft misalignment at speed ³⁾ $n = 1500$ rpm	
					Radial ΔK_r mm	Angle ΔK_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.

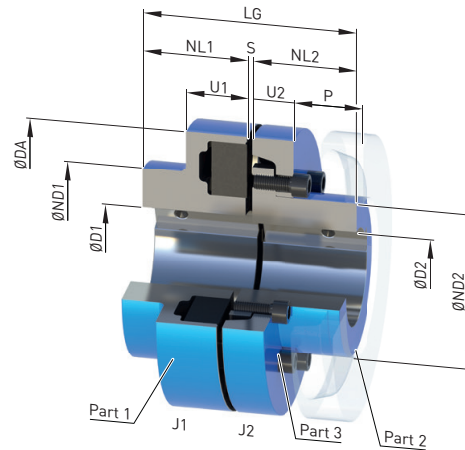
¹⁾ The correction factors for torsion spring stiffness and permitted shaft misalignment correspond to the specifications for the puncture-proof types **Page 7/9**

²⁾ Does not apply to type HDS.

³⁾ 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 ²	Article no. ¹⁾	Weight m kg		
			Bore with keyway to DIN 6885-1						DA	ND1	ND2	NL1/ NL2	S	U1	U2				P	LG
			D1	D2	min.	max.	min.	max.												
118	160	5300	-	48	-	38	118	86	62	40	3	34	20	33	83	0.003	2LC0110-4AB	3.5		
135	240	5100	-	55	-	45	135	100	75	50	3	36	23	38	103	0.006	2LC0110-5AB	5.5		
152	360	4900	-	60	-	50	152	108	82	55	3	36	28	43	113	0.011	2LC0110-6AB	7.7		
172	560	4250	-	65	-	58	172	118	95	60	4	41	28	47	124	0.019	2LC0110-7AB	10.5		
194	880	3800	-	75	-	65	194	135	108	70	4	44	30	50	144	0.036	2LC0110-8AB	15		
218	1340	3400	-	85	-	75	218	150	122	80	4	47	32	53	164	0.062	2LC0111-0AB	21		
245	2000	3000	-	90	-	85	245	150	138	90	4	52	38	61	184	0.10	2LC0111-1AB	28		
272	2800	2750	46	100	-	95	272	165	155	100	5.5	60	42	69	205.5	0.18	2LC0111-2AB	40		
305	3900	2450	49	110	54	105	305	180	172	110	5.5	65	42	73	225.5	0.28	2LC0111-3AB	50		
340	5500	2150	49	120	90	120	340	200	200	125	5.5	70	47	78	255.5	0.50	2LC0111-4AB	73		
380	7700	2000	61	140	90	140	380	230	230	140	5.5	74	51	83	285.5	0.80	2LC0111-5AB	104		
430	10300	1700	66	150	100	150	430	250	250	160	5.5	78	56	88	325.5	1.4	2LC0111-6AB	140		
472	13500	1550	80	160	120	160	472	265	265	180	7.5	86	64	99	367.5	2.1	2LC0111-7AB	180		
514	16600	1400	90	180	136	180	514	300	300	190	7.5	90	65	104	387.5	3.2	2LC0111-8AB	237		
556	21200	1300	100	190	140	190	556	315	315	210	7.5	102	68	115	427.5	4.7	2LC0112-0AB	290		

Configurable variants ¹⁾

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

Ordering example

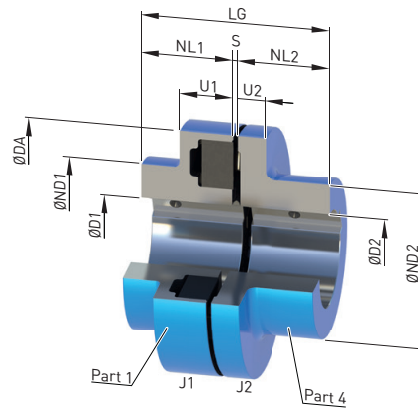
- N-EUPEX ADS coupling, size 135
- Part 1: Bore D1 42H7 mm, keyway to DIN 6885-1 and set screw
- Part 2: Bore D2 32H7 mm, keyway to DIN 6885-1 and set screw

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

¹⁾ 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 BDS



7

Size	Rated torque T_{KN} Nm	Speed n_{Kmax} rpm	Dimensions in mm												Mass moment of inertia J_1/J_2 kgm ²	Article no. ¹⁾	Weight m kg		
			Bore with keyway to DIN 6885-1						DA	ND1	ND2	NL1/ NL2	S	U1	U2	LG			
			D1		D2														
			min.	max.	min.	max.													
66	19	7500	-	19	-	24	66	66	40	20	3	20	8	43	0.0001	2LC0110-0AA	0.50		
76	34	7000	-	24	-	28	76	76	50	20	3	20	8	43	0.0002	2LC0110-1AA	0.65		
88	60	6000	-	30	-	38	88	88	68	30	3	30	10	63	0.0006	2LC0110-2AA	1.8		
103	100	5500	-	42	-	42	103	76	76	35	3	30	12	73	0.0015	2LC0110-3AA	3		
118	160	5300	-	48	-	48	118	86	86	40	3	34	14	83	0.003	2LC0110-4AA	3.7		
135	240	5100	-	55	-	55	135	100	100	50	3	36	18	103	0.007	2LC0110-5AA	6.1		
152	360	4900	-	60	-	60	152	108	100	55	3	36	20	113	0.011	2LC0110-6AA	7.0		
172	560	4250	-	65	-	65	172	118	108	60	4	41	20	124	0.019	2LC0110-7AA	11		
194	880	3800	-	75	-	75	194	135	125	70	4	44	20	144	0.035	2LC0110-8AA	17		
218	1340	3400	-	85	-	85	218	150	140	80	4	47	24	164	0.06	2LC0111-0AA	23		
245	2000	3000	-	90	-	90	245	150	150	90	4	52	18	184	0.085	2LC0111-1AA	27		
272	2800	2750	46	100	46	100	272	165	165	100	5.5	60	18	205.5	0.15	2LC0111-2AA	36		
305	3900	2450	49	110	54	110	305	180	180	110	5.5	65	20	225.5	0.25	2LC0111-3AA	47		

Configurable variants ¹⁾

- 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

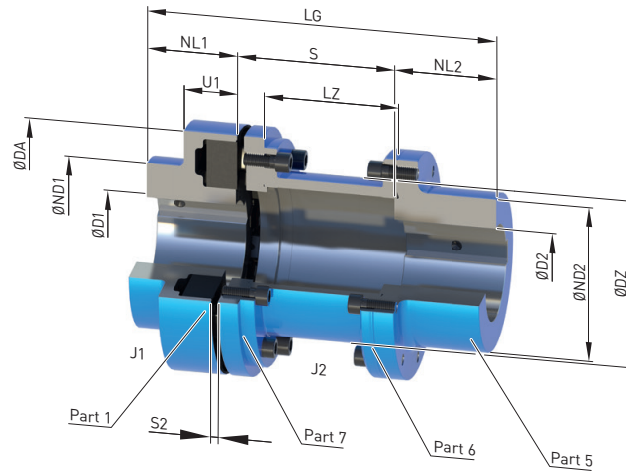
- N-EUPEX BDS coupling, size 103
- Part 1: Bore D1 42H7 mm, keyway to DIN 6885-1 and set screw
- Part 4: Bore D2 32H7 mm, keyway to DIN 6885-1 and set screw

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

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

➤ For online configuration on [flender.com](https://www.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. ¹⁾	Weight m kg	
			Bore with keyway to DIN 6885-1				DA	ND1	ND2	NL1	NL2	S	S2	LZ	DZ	LG	J_1 kgm ²	J_2 kgm ²		
			D1 min.	max.	D2 min.	max.														
88	60	6000	-	30	-	32	88	88	55	30	45	100	5	87	51	175	0.0007	0.0014	2LC0110-2AC	2.8
												140		127		215		0.0015	2LC0110-2AC	2.9
103	100	5500	-	42	-	42	103	76	70	35	45	100	5	87	63	180	0.001	0.003	2LC0110-3AC	4.0
												140		127		220		0.0033	2LC0110-3AC	4.3
118	160	5300	-	48	-	48	118	86	80	40	50	100	5	85	73	190	0.003	0.006	2LC0110-4AC	5.3
												140		125		230	0.003	0.0064	2LC0110-4AC	5.7
												180		165		280		0.0068	2LC0110-4AC	6.1
												50		85		200		0.01	2LC0110-5AC	7.6
135	240	5100	-	55	-	55	135	100	90	50	50	140	5	125	85	240	0.006	0.01	2LC0110-5AC	8.1
												180		165		290	0.006	0.012	2LC0110-5AC	8.6
												200		185		320		0.012	2LC0110-5AC	8.9
												250		235		380		0.013	2LC0110-5AC	9.4
												65		82		220		0.02	2LC0110-6AC	11.2
152	360	4900	-	60	-	60	152	108	100	55	65	140	5	122	91	260	0.011	0.02	2LC0110-6AC	11.7
												180		162		300	0.011	0.022	2LC0110-6AC	12.2
												200		182		320		0.023	2LC0110-6AC	12.5
												250		232		385		0.024	2LC0110-6AC	13.1

Configurable variants ¹⁾

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

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

↗ For online configuration on [flender.com](https://www.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. ¹⁾	Weight m kg		
			Bore with keyway to DIN 6885-1				DA	ND1	ND2	NL1	NL2	S	S2	LZ	DZ	LG	J_1 kgm ²	J_2 kgm ²			
			D1 min. max.		D2 min. max.																
172	560	4250	-	65	-	65	172	118	108	60	70	100	6	81.5	111	230	0.019	0.03	2LC0110-7AC	14.3	
194	880	3800	-	75	-	75	194	135	125	70	80	140	6	121.5	131	290	0.037	0.058	2LC0110-8AC	21	
218	1340	3400	-	85	-	85	218	150	140	80	90	180	6	158.5	144	350	0.062	0.10	2LC0111-0AC	30	
245	2000	3000	-	90	-	90	245	150	150	90	100	200	6	178.5	169	370	0.09	0.16	2LC0111-1AC	35	
272	2800	2750	46	100	46	100	272	165	165	100	110	250	8	222.5	185	410	0.16	0.31	2LC0111-2AC	51	
305	3900	2450	49	110	51	110	305	180	180	110	120	250	8	222.5	215	480	0.28	0.52	2LC0111-3AC	74	
340	5500	2150	49	120	51	120	340	200	200	125	140	250	8	222.5	250	515	0.50	0.87	2LC0111-4AC	105	
380	7700	2000	61	140	51	140	380	230	230	140	150	250	8	220.5	272	540	0.80	1.4	2LC0111-5AC	130	
430	10300	1700	66	150	51	150	430	250	250	160	180	250	8	185.5	310	590	1.4	2.5	2LC0111-6AC	205	
472	13500	1550	80	160	51	160	472	265	265	180	180	250	10	182	354	610	2.1	4.1	2LC0111-7AC	235	

Configurable variants ¹⁾

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

Notes

- For dimension U1, see type ADS on page Page 7/28 and type BDS on page Page 7/29
- 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, S3 = 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. n = 1500 rpm

¹⁾ 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.

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

NBR elastomer flexibles 90 Shore A for type DK (two-joint)

Size	Article No. (flexible set for one coupling joint)	Number of flexibles per set	Weights 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

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.