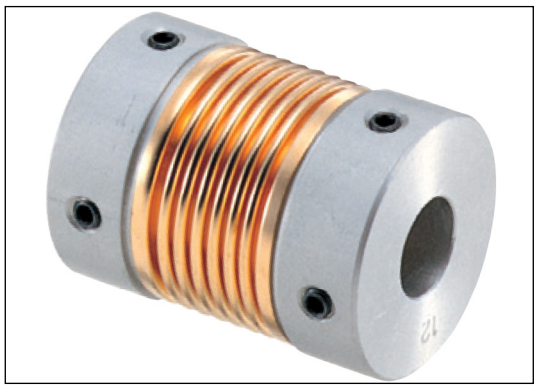
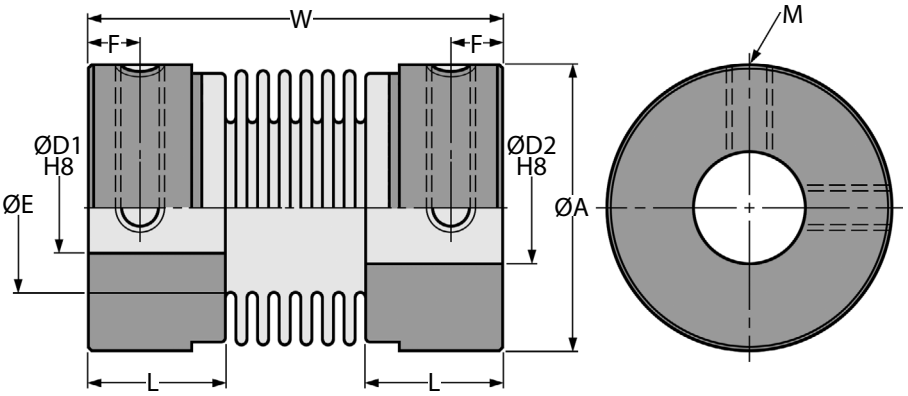
COUPLINGS

MFB

Bellows Flexible Coupling

Aluminium & Bronze : Set Screw Fixing : 0.3 - 4Nm : 3 - 16mm Bores





Part Number	Min. Bores H8 ØD1 ØD2	Max. Bores H8 ØD1 ØD2	ØA	L	W	ØE	F	Set Screw M	Wrench Torque Nm
MFB-12	3	6.35	12	7.5	23.5	7.0	2.5	M2.5	0.5
MFB-16	4	8.00	16	9.0	26.5	9.5	3.0	M3	0.7
MFB-20	5	10.00	20	10.0	33.0	12.5	3.5	M3	0.7
MFB-25	6	12.00	25	12.0	36.5	15.0	4.5	M4	1.7
MFB-32	6	16.00	32	13.5	42.0	21.0	5.5	M4	1.7

Part Number	Mass† g	Rated Torque* Nm	Max. Torque* Nm	Max. Rpm	Moment of Inertia† kg•m²	Static Torsional Stiffness Nm/rad	Errors of Eccentricity mm	Errors of Angularity	Errors of Shaft End-Play mm
MFB-12	4.1	0.3	0.6	52,000	9.0×10^{-8}	82	0.10	1.5°	+0.40 -1.20
MFB-16	9.0	0.5	1.0	39,000	3.5×10^{-7}	110	0.10	1.5°	+0.40 -1.20
MFB-20	16.0	0.8	1.6	31,000	9.9×10^{-7}	180	0.15	2.0°	+0.60 -1.80
MFB-25	32.0	1.3	2.6	25,000	3.1×10^{-6}	240	0.15	2.0°	+0.60 -1.80
MFB-32	57.0	2.0	4.0	19,000	9.2×10^{-6}	330	0.20	2.0°	+0.80 -2.50

* Adjustment of Rated and Max. Torque for load fluctuations not required.
† Moment of inertia and mass figures based on maximum shaft bores.

Material

Hub: Aluminium A2017 with anodised coating.
Bellows: Phosphor Bronze (C5191)
Set Screw: SCM435, black oxide coating (may be replaced with Stainless Steel).

Maximum Operating Temperature: +100°C (Approx.).

Ordering

Add bore size required to end of part number eg.
MFB-12-5X6 (bored Ø5mm & Ø6mm).

MFB-25 - 5 – 6

Type
ØD1
ØD2

Extras

Boring Out.
Pin holes, tapped holes, keyways (subject to a minimum order quantity of 5 pieces P.O.A. due to being pre-formed prior to assembly.
Finished products with two different end-bore diameters available.

Other Info.

All sizes are supplied with cap screws (2 per coupling except hubs with bore diameters of 4mm or less which have 1 setscrew).
Recommended tolerance on shaft diameters is h6 and h7.

Features

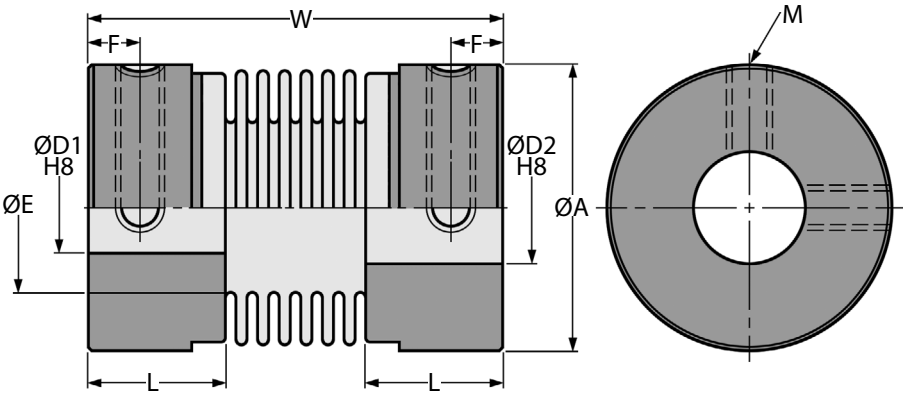
- Constant velocity
- Zero backlash
- Primarily for use with encoders
- High torsional stiffness and high response
- Identical clockwise and anti-clockwise rotational characteristics
- Complete absorption of eccentricity, angularity and end play by spring action of bellows configuration
- Uniform rotational speed, even under misalignment.

COUPLINGS

MFBS

Bellows Flexible Coupling

Stainless Steel : Set Screw Fixing : 0.5 - 6Nm : 3 - 16mm Bores



Part Number	Min. Bores H8 ØD1 ØD2	Max. Bores H8 ØD1 ØD2	ØA	L	W	ØE	F	Set Screw M	Wrench Torque Nm
MFBS-12	3	6.35	12	7.5	23.5	7.0	2.5	M2.5	0.5
MFBS-16	4	8.00	16	9.0	26.5	9.5	3.0	M3	0.7
MFBS-20	5	10.00	20	10.0	32.0	12.5	3.5	M3	0.7
MFBS-25	6	12.00	25	12.0	36.5	15.0	4.5	M4	1.7
MFBS-32	6	16.00	32	13.5	42.0	21.0	5.5	M4	1.7

Part Number	Mass * g	Rated Torque* Nm	Max. Torque* Nm	Max. Rpm	Moment of Inertia† kg•m²	Static Torsional Stiffness Nm/rad	Errors of Eccentricity mm	Errors of Angularity	Errors of Shaft End-Play mm
MFBS-12	9.1	0.5	1.0	52,000	2.1×10^{-7}	100	0.10	1.5°	+0.40 -1.20
MFBS-16	20.0	1.0	2.0	39,000	8.0×10^{-7}	150	0.10	1.5°	+0.40 -1.20
MFBS-20	37.0	1.5	3.0	31,000	2.3×10^{-6}	220	0.15	2.0°	+0.60 -1.80
MFBS-25	73.0	2.0	4.0	25,000	7.0×10^{-6}	330	0.15	2.0°	+0.60 -1.80
MFBS-32	130.0	3.0	6.0	19,000	2.1×10^{-5}	490	0.20	2.0°	+0.80 -2.50

* Adjustment of Rated and Max. Torque for load fluctuations not required.
† Moment of inertia and mass figures based on maximum shaft bores.

Material

Hub: 303 Stainless Steel.
Bellows: 316L Stainless Steel.
Set Screw: SUSXM7 Stainless Steel.

Maximum Operating Temperature: +150°C (Approx.).

Ordering

Add bore size required to end of part number eg.
MFBS-12-5X6 (bored Ø5mm & Ø6mm).

MFBS-25 - 5 – 6

Type
ØD1
ØD2

Extras

Boring Out.
Pin holes, tapped holes, keyways (subject to a minimum order quantity of 5 pieces P.O.A. due to being pre-formed prior to assembly.
Finished products with two different end-bore diameters available.

Other Info.

All sizes are supplied with cap screws (2 per coupling except hubs with bore diameters of 4mm or less which have 1 setscrew).
Recommended tolerance on shaft diameters is h6 and h7.

Features

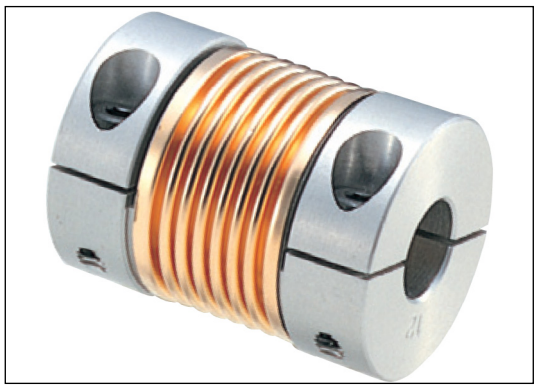
- Constant velocity
- Zero backlash
- Primarily for use with encoders
- High torsional stiffness and high response
- Identical clockwise and anti-clockwise rotational characteristics
- Complete absorption of eccentricity, angularity and end play by spring action of bellows configuration
- Uniform rotational speed, even under misalignment.

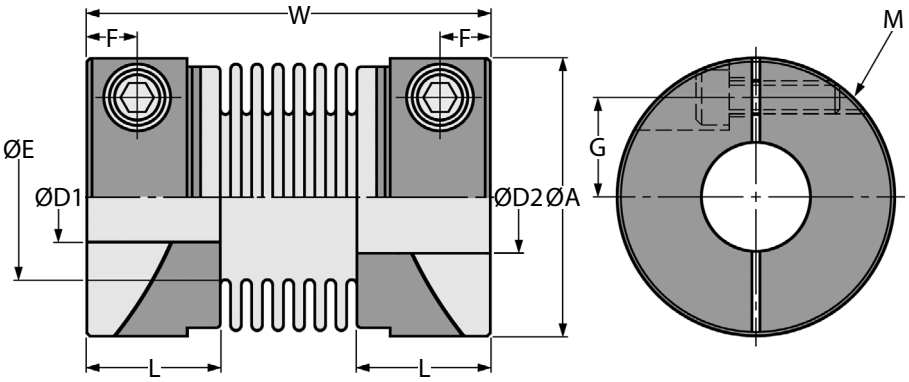
COUPLINGS

MFB-C

Bellows Flexible Coupling

Aluminium & Bronze : Clamp Fixing : 0.3 - 2Nm : 3 - 16mm Bores





Part Number	Min. Bores ØD1 ØD2	Max. Bores ØD1 ØD2	ØA	L	W	ØE	F	G	Cap Screw M	Wrench Torque Nm
MFB-12C	4	5.00	12	7.5	23.5	7.0	2.25	4.0	M2	0.5
MFB-16C	5	6.35	16	9.0	26.5	9.5	3.00	5.0	M2.5	1.0
MFB-20C	6	8.00	20	10.0	33.0	12.5	3.50	6.5	M2.5	1.0
MFB-25C	8	10.00	25	12.0	36.5	15.0	4.50	9.0	M3	1.5
MFB-32C	8	14.00	32	13.5	42.0	21.0	5.00	11.0	M4	2.5

Part Number	Mass† g	Rated Torque* Nm	Max. Torque* Nm	Max. Rpm	Moment of Inertia† kg•m²	Static Torsional Stiffness Nm/rad	Errors of Eccentricity mm	Errors of Angularity	Errors of Shaft End-Play mm
MFB-12C	3.8	0.3	0.6	52,000	9.7×10^{-8}	82	0.10	1.5°	+0.40 -1.20
MFB-16C	9.8	0.5	1.0	39,000	3.7×10^{-7}	110	0.10	1.5°	+0.40 -1.20
MFB-20C	16.0	0.8	1.6	31,000	1.0×10^{-7}	180	0.15	2.0°	+0.60 -1.80
MFB-25C	32.0	1.3	2.6	25,000	3.1×10^{-6}	240	0.15	2.0°	+0.60 -1.80
MFB-32C	58.0	2.0	4.0	19,000	9.6×10^{-6}	330	0.20	2.0°	+0.80 -2.50

* Adjustment of Rated and Max. Torque for load fluctuations not required.
† Moment of inertia and mass figures based on maximum shaft bores.

Material

Hub: Aluminium A2017 with anodised coating.
Bellows: Phosphor Bronze (C5191).
Cap Screw: SCM435, black oxide coating (may be replaced with Stainless Steel).
Maximum Operating Temperature: +100°C (Approx.).

Ordering

Add bore size required to end of part number eg.
MFB-12C-5X6 (bored Ø5mm & Ø6mm).

MFB-25C - 5 – 6
Type
ØD1
ØD2

Extras

Boring Out.
Pin holes, tapped holes, keyways (subject to a minimum order quantity of 5 pieces P.O.A. due to being pre-formed prior to assembly.
Finished products with two different end-bore diameters available.

Other Info.

All sizes are supplied with cap screws.
Recommended tolerance on shaft diameters is h6 and h7.
Non-standard bores and keyways machined on request.
In case of mounting on D-cut shaft, be careful about the position of the D-cut surface of the shaft.

Features

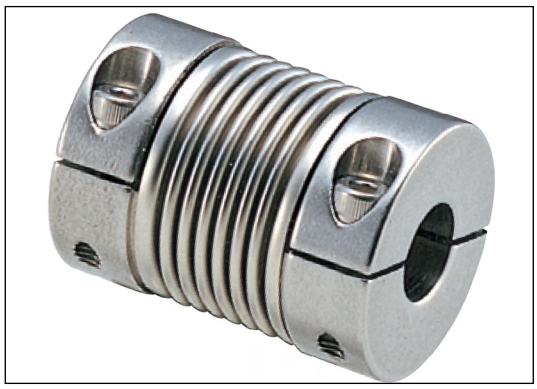
- Constant velocity
- Zero backlash
- Primarily for use with encoders
- High torsional stiffness and high response
- Identical clockwise and anti-clockwise rotational characteristics
- Complete absorption of eccentricity, angularity and end play by spring action of bellows configuration
- Uniform rotational speed, even under misalignment.

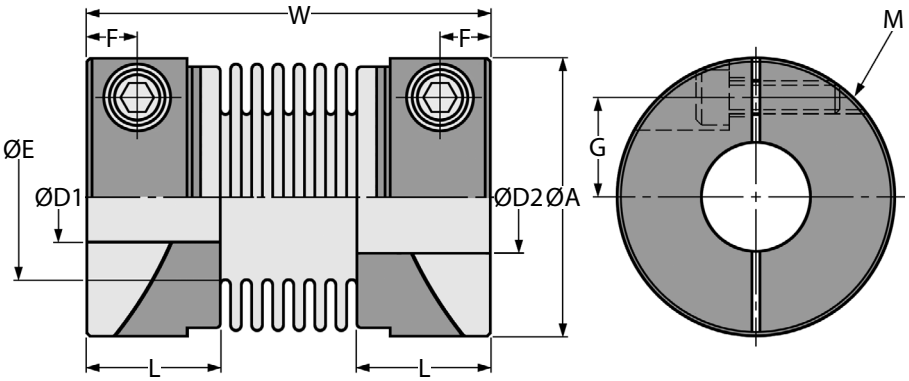
COUPLINGS

MFBS-C

Bellows Flexible Coupling

Stainless Steel : Set Screw Fixing : 0.5 - 6Nm : 3 - 16mm Bores





Part Number	Min. Bores ØD1 ØD2	Max. Bores ØD1 ØD2	ØA	L	W	ØE	F	G	Cap Screw M	Wrench Torque Nm
MFBS-12C	4	5.00	12	7.5	23.5	7.0	2.25	4.0	M2	0.5
MFBS-16C	5	6.35	16	9.0	26.5	9.5	3.00	5.0	M2.5	1.0
MFBS-20C	6	8.00	20	10.0	32.0	12.5	3.50	6.5	M2.5	1.0
MFBS-25C	8	10.00	25	12.0	36.5	15.0	4.50	9.0	M3	1.5
MFBS-32C	8	14.00	32	13.5	42.0	21.0	5.00	11.0	M4	2.5

Part Number	Mass * g	Rated Torque* Nm	Max. Torque* Nm	Max. Rpm	Moment of Inertia† $kg \cdot m^2$	Static Torsional Stiffness Nm/rad	Errors of Eccentricity mm	Errors of Angularity	Errors of Shaft End-Play mm
MFBS-12C	9.2	0.5	1.0	52,000	2.1×10^{-7}	100	0.10	1.5°	+0.40 -1.20
MFBS-16C	22.0	1.0	2.0	39,000	8.1×10^{-7}	150	0.10	1.5°	+0.40 -1.20
MFBS-20C	38.0	1.5	3.0	31,000	2.3×10^{-6}	220	0.15	2.0°	+0.60 -1.80
MFBS-25C	74.0	2.0	4.0	25,000	6.9×10^{-6}	330	0.15	2.0°	+0.60 -1.80
MFBS-32C	130.0	3.0	6.0	19,000	2.1×10^{-5}	490	0.20	2.0°	+0.80 -2.50

* Adjustment of Rated and Max. Torque for load fluctuations not required.
† Moment of inertia and mass figures based on maximum shaft bores.

Material

Hub: 303 Stainless Steel.
Bellows: 316L Stainless Steel.
Set Screw: SUSXM7 Stainless Steel.

Maximum Operating Temperature: +150°C (Approx.).

Ordering

Add bore size required to end of part number eg.
MFBS-12C-5X6 (bored Ø5mm & Ø6mm).

MFBS-25C - 5 – 6

Type
ØD1
ØD2

Extras

Boring Out.
Pin holes, tapped holes, keyways (subject to a minimum order quantity of 5 pieces P.O.A. due to being pre-formed prior to assembly.
Finished products with two different end-bore diameters available.

Other Info.

All sizes are supplied with cap screws.
Recommended tolerance on shaft diameters is h6 and h7.
Non-standard bores and keyways machined on request.
In case of mounting on D-cut shaft, be careful about the position of the D-cut surface of the shaft.

Features

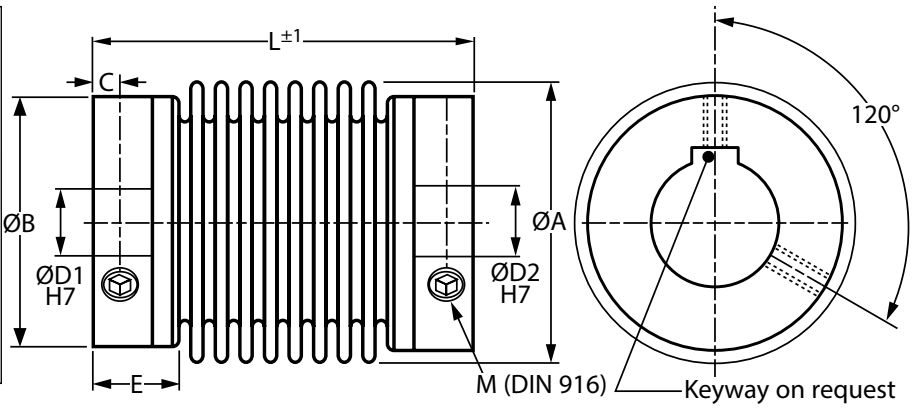
- Constant velocity
- Zero backlash
- Primarily for use with encoders
- High torsional stiffness and high response
- Identical clockwise and anti-clockwise rotational characteristics
- Complete absorption of eccentricity, angularity and end play by spring action of bellows configuration
- Uniform rotational speed, even under misalignment.

COUPLINGS

OKB1

Metal Bellows Coupling

Set Screws Fixing : 0.1 - 10Nm : 1 - 24mm Bores



Part Number	Torque T_{KN} Nm	L±1	ØA	ØD1 ØD2 H7 Min. Max.	ØB	C	E	Set Screw M	Tightening Torque T_A Nm
OKB1/1-23	0.1	23	10	1 - 4	10.0	2	6	M3	0.5
OKB1/5-19	0.5	19	15	3 - 8	13.5	2	6	M3	0.5
OKB1/5-23	0.5	23	15	3 - 8	13.5	2	6	M3	0.5
OKB1/5-27	0.5	27	15	3 - 8	13.5	2	6	M3	0.5
OKB1/10-21	1.0	21	15	3 - 8	13.5	2	6	M3	0.5
OKB1/10-25	1.0	25	15	3 - 8	13.5	2	6	M3	0.5
OKB1/10-29	1.0	29	15	3 - 8	13.5	2	6	M3	0.5
OKB1/15-26	1.5	26	19	3 - 12	19.0	3	8	M4	1.5
OKB1/15-30	1.5	30	19	3 - 12	19.0	3	8	M4	1.5
OKB1/20-22	2.0	22	24	3 - 14	21.5	3	6	M4	1.5
OKB1/20-28	2.0	28	24	3 - 14	21.5	3	6	M4	1.5
OKB1/20-32	2.0	32	24	3 - 14	21.5	3	6	M4	1.5
OKB1/45-40	4.5	40	32	6 - 18	29.0	4	12	M6	3.0
OKB1/45-48	4.5	48	32	6 - 18	29.0	4	12	M6	3.0
OKB1/100-45	10.0	45	40	6 - 24	36.0	4	12	M6	3.0
OKB1/100-55	10.0	55	40	6 - 24	36.0	4	12	M6	3.0

Part Number	Mass g	Moment of Inertia J g cm²	Spring Stiffness Torsional C_T Nm/rad	Spring Stiffness Radial C_R N/mm	Spring Stiffness Axial C_A N/mm	Misalignment Radial ΔKr mm	Misalignment Axial ΔKa mm	Misalignment Angular ΔKw
OKB1/1-23	3.0	0.45	65	10	14	0.12	0.2	1.2°
OKB1/5-19	4.0	1.30	260	43	13	0.10	0.2	1.0°
OKB1/5-23	4.5	1.50	200	18	10	0.15	0.3	1.5°
OKB1/5-27	5.0	1.60	160	9	8	0.20	0.4	2.0°
OKB1/10-21	5.5	1.80	510	74	27	0.10	0.2	1.0°
OKB1/10-25	6.0	2.00	380	31	20	0.15	0.3	1.5°
OKB1/10-29	7.0	2.30	310	16	16	0.20	0.4	2.0°
OKB1/15-26	10.0	6.00	750	59	15	0.10	0.3	1.5°
OKB1/15-30	12.0	7.40	700	20	9	0.15	0.4	2.0°
OKB1/20-22	11.0	9.20	1,500	67	12	0.15	0.3	1.5°
OKB1/20-28	13.0	12.60	1,300	21	11	0.20	0.4	1.5°
OKB1/20-32	15.0	13.50	1,050	11	9	0.25	0.5	2.0°
OKB1/45-40	44.0	68.00	6,500	168	32	0.10	0.3	1.5°
OKB1/45-48	50.0	79.00	4,200	41	20	0.20	0.5	2.0°
OKB1/100-45	60.0	150.00	8,100	120	27	0.15	0.4	1.5°
OKB1/100-55	79.0	210.00	6,800	29	17	0.30	0.6	2.0°

Material

Bellows: Stainless Steel.
Hub: Aluminium (Stainless Steel available, P.O.A.).

Maximum Rotational Speed: 15,000 rpm.
Operating Temperature Range: -30°C to +120°C.

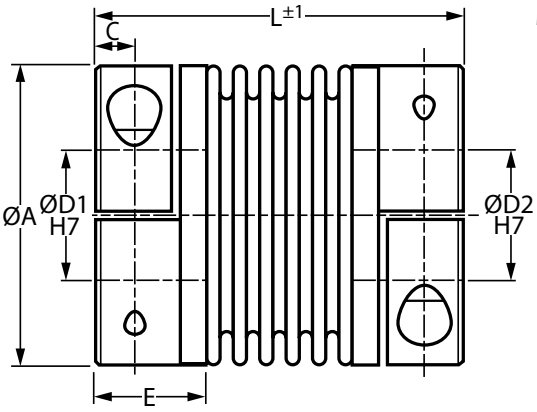
Keyway to DIN 6885 available, P.O.A.

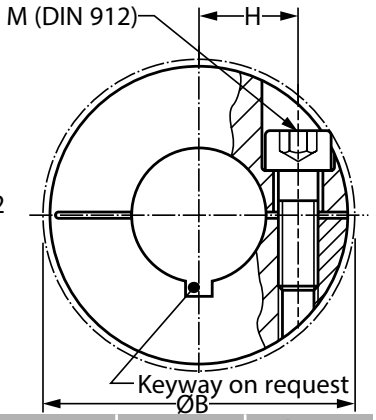
COUPLINGS

OKB2

Metal Bellows Coupling

Clamp Fixing : 0.1 - 10Nm : 1 - 24mm Bores





Part Number	Torque TKN Nm	L±1	ØA	ØD1 ØD2 H7 Min. Max.	H	C	ØB	E	Cap Screw M	Tightening Torque TA Nm
OKB2/1-25	0.1	25	10.0	1 - 4	3.4	2.0	11.0	7	M1.6	0.10
OKB2/5-21	0.5	21	15.5	3 - 8	5.2	2.5	17.5	8	M2	0.43
OKB2/5-25	0.5	25	15.5	3 - 8	5.2	2.5	17.5	8	M2	0.43
OKB2/5-28	0.5	28	15.5	3 - 8	5.2	2.5	17.5	8	M2	0.43
OKB2/10-23	1.0	23	15.5	3 - 8	5.2	2.5	17.5	8	M2	0.43
OKB2/10-26	1.0	26	15.5	3 - 8	5.2	2.5	17.5	8	M2	0.43
OKB2/10-31	1.0	31	15.5	3 - 8	5.2	2.5	17.5	8	M2	0.43
OKB2/15-26	1.5	26	20.0	3 - 10	7.0	3.0	21.0	9	M2.5	0.85
OKB2/15-31	1.5	31	20.0	3 - 10	7.0	3.0	21.0	9	M2.5	0.85
OKB2/20-32	2.0	32	25.0	3 - 14	9.0	3.5	27.0	11	M3	2.00
OKB2/20-38	2.0	38	25.0	3 - 14	9.0	3.5	27.0	11	M3	2.00
OKB2/20-42	2.0	42	25.0	3 - 14	9.0	3.5	27.0	11	M3	2.00
OKB2/45-41	4.5	41	32.5	6 - 16	12.0	5.0	34.0	14	M4	3.50
OKB2/45-50	4.5	50	32.5	6 - 16	12.0	5.0	34.0	14	M4	3.50
OKB2/100-48	10.0	47	40.5	6 - 25	15.5	5.0	41.5	14	M4	4.50
OKB2/100-57	10.0	57	40.5	6 - 25	15.5	5.0	41.5	14	M4	4.50

Part Number	Mass g	Moment of Inertia J g cm²	Spring Stiffness Torsional CT Nm/rad	Spring Stiffness Radial CR N/mm	Spring Stiffness Axial CA N/mm	Misalignment Radial ΔKr mm	Misalignment Axial ΔKa mm	Misalignment Angular ΔKw
OKB2/1-25	3.0	0.5	65	10	14	0.12	0.2	1.2°
OKB2/5-21	7.5	2.7	260	43	13	0.10	0.2	1.0°
OKB2/5-25	7.8	2.8	200	18	10	0.15	0.3	1.5°
OKB2/5-28	8.2	3.0	160	9	8	0.20	0.4	2.0°
OKB2/10-23	9.0	3.1	510	74	27	0.10	0.2	1.0°
OKB2/10-26	9.3	3.4	380	31	20	0.15	0.3	1.5°
OKB2/10-31	10.0	3.7	310	16	16	0.20	0.4	2.0°
OKB2/15-26	13.0	8.0	750	59	15	0.10	0.3	1.5°
OKB2/15-31	15.0	9.3	700	20	9	0.15	0.4	2.0°
OKB2/20-32	29.0	24.0	1,500	67	12	0.15	0.3	1.5°
OKB2/20-38	32.0	27.0	1,300	21	11	0.20	0.4	1.5°
OKB2/20-42	33.0	29.0	1,050	11	9	0.25	0.5	2.0°
OKB2/45-41	61.0	100.0	6,500	168	32	0.10	0.3	1.5°
OKB2/45-50	67.0	112.0	4,200	41	20	0.20	0.5	2.0°
OKB2/100-48	86.0	233.0	8,100	120	27	0.15	0.4	1.5°
OKB2/100-57	106.0	290.0	6,800	29	17	0.30	0.6	2.0°

Material

Bellows: Stainless Steel.
Hub: Aluminium (Stainless Steel available, P.O.A.).

Maximum Rotational Speed: 15,000 rpm.
Operating Temperature Range: -30°C to +120°C.

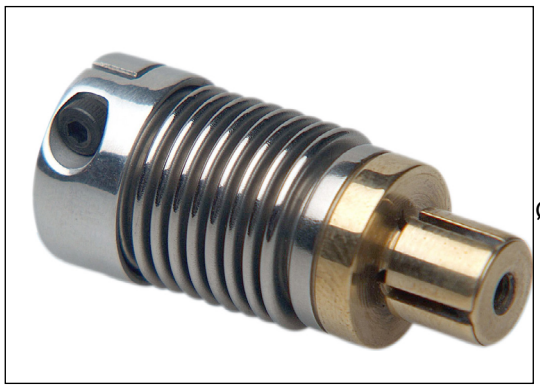
Keyway to DIN 6885 available, P.O.A.

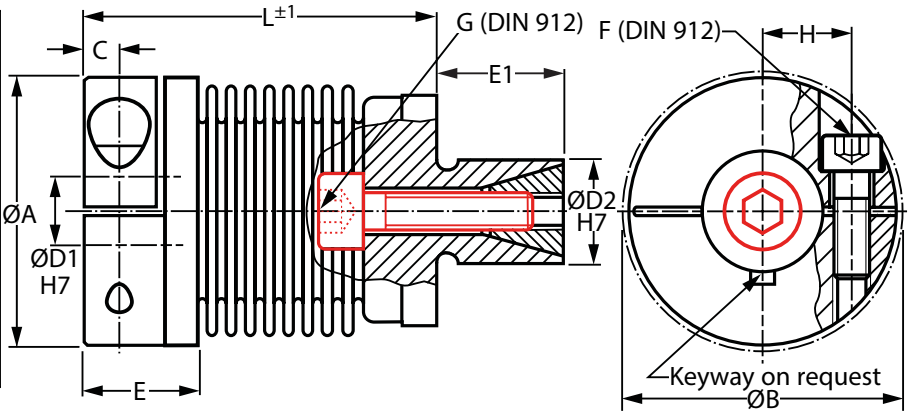
COUPLINGS

OKB3

Metal Bellows Coupling

With Expanding Clamp : 0.5 - 10Nm : 3 - 22mm Bores





Part Number	Torque TKN Nm	L±1	ØA	ØD1 ØD2 H7 Min. Max.	ØD2 H7	ØB	H	C	E	E1	Cap Screw F	Cap Screw G	Tightening Torque TA Nm F	Tightening Torque TA Nm G
OKB3/5-20	0.5	20	15.5	3 - 7.0	8	17.5	5.2	2.5	8	8	M2	M3	0.3	1.0
OKB3/5-24	0.5	24	15.5	3 - 7.0	8	17.5	5.2	2.5	8	8	M2	M3	0.3	1.0
OKB3/5-27	0.5	27	15.5	3 - 7.0	8	17.5	5.2	2.5	8	8	M2	M3	0.3	1.0
OKB3/10-22	1.0	22	15.5	3 - 7.0	8	17.5	5.2	2.5	8	8	M2	M3	0.3	1.0
OKB3/10-26	1.0	26	15.5	3 - 7.0	8	17.5	5.2	2.5	8	8	M2	M3	0.3	1.0
OKB3/10-30	1.0	30	15.5	3 - 7.0	8	17.5	5.2	2.5	8	8	M2	M3	0.3	1.0
OKB3/15-25	1.5	25	20.0	3 - 10.0	10	21.0	7.0	3.0	9	12	M2.5	M4	0.8	3.0
OKB3/15-29	1.5	29	20.0	3 - 10.0	10	21.0	7.0	3.0	9	12	M2.5	M4	0.8	3.0
OKB3/20-28	2.0	28	25.0	3 - 12.7	10	27.0	9.0	3.5	11	12	M3	M4	1.0	3.0
OKB3/20-34	2.0	34	25.0	3 - 12.7	10	27.0	9.0	3.5	11	12	M3	M4	1.0	3.0
OKB3/20-38	2.0	38	25.0	3 - 12.7	10	27.0	9.0	3.5	11	12	M3	M4	1.0	3.0
OKB3/45-36	4.5	36	32.5	6 - 16.0	14	34.0	12.0	5.0	14	16	M4	M5	3.0	5.9
OKB3/45-44	4.5	44	32.5	6 - 16.0	14	34.0	12.0	5.0	14	16	M4	M5	3.0	5.9
OKB3/100-41	10.0	41	40.5	6 - 22.0	16	41.5	15.5	5.0	14	20	M4	M6	3.0	10.0
OKB3/100-51	10.0	51	40.5	6 - 22.0	16	41.5	15.5	5.0	14	20	M4	M6	3.0	10.0

Part Number	Mass g	Moment of Inertia J g cm²	Spring Stiffness Torsional CT Nm/rad	Spring Stiffness Radial CR N/mm	Spring Stiffness Axial CA N/mm	Misalignment Radial ΔKr mm	Misalignment Axial ΔKa mm	Misalignment Angular ΔKw
OKB3/5-20	12.8	2.9	260	43	13	0.10	0.2	1.0°
OKB3/5-24	13.2	3.1	200	18	10	0.15	0.3	1.5°
OKB3/5-27	13.5	3.2	160	9	8	0.20	0.4	2.0°
OKB3/10-22	14.1	3.3	510	74	27	0.10	0.2	1.0°
OKB3/10-26	14.6	3.4	380	31	20	0.15	0.3	1.5°
OKB3/10-30	15.3	3.6	310	16	16	0.20	0.4	2.0°
OKB3/15-25	27.2	11.0	750	59	15	0.10	0.3	1.5°
OKB3/15-29	29.3	12.0	700	20	9	0.15	0.4	2.0°
OKB3/20-28	40.1	25.0	1,500	67	12	0.15	0.3	1.5°
OKB3/20-34	43.2	29.0	1,300	21	11	0.20	0.4	1.5°
OKB3/20-38	49.1	30.0	1,050	11	9	0.25	0.5	2.0°
OKB3/45-36	86.5	98.0	6,500	168	32	0.10	0.3	1.5°
OKB3/45-44	92.9	110.0	4,200	41	20	0.20	0.5	2.0°
OKB3/100-41	135.0	235.0	8,100	120	27	0.15	0.4	1.5°
OKB3/100-51	154.0	292.0	6,800	29	17	0.30	0.6	2.0°

Material

Bellows: Stainless Steel.
Hub: Aluminium (Stainless Steel available, P.O.A.).

Maximum Rotational Speed: 15,000 rpm.
Operating Temperature Range: -30°C to +120°C.

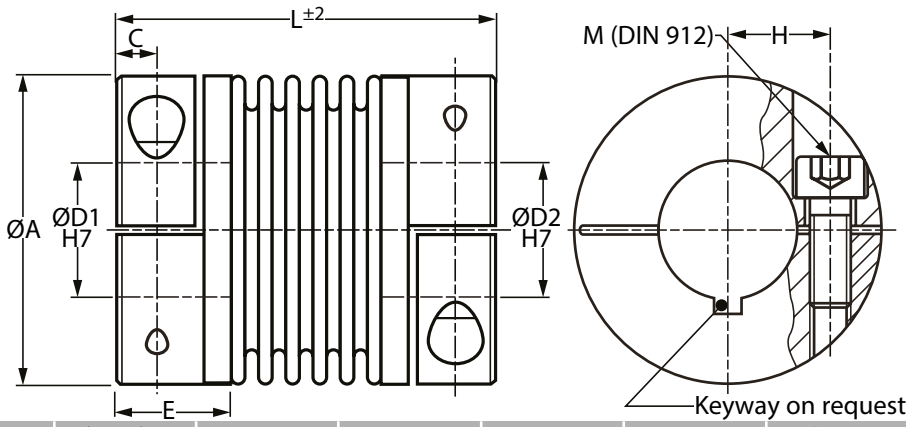
Keyway to DIN 6885 available, P.O.A.

COUPLINGS

OKB4

Metal Bellows Coupling

Clamp Fixing : 18 - 500Nm : 10 - 65mm Bores



Part Number	Torque T_{KN} Nm	L±2	ØA	ØD1 ØD2 H7 Min. Max.	H	C	E	Cap Screw M	Tightening Torque T_A Nm
OKB4/18-63	18	63	45	10 - 25.4	17	5.5	19.5	M5	8
OKB4/18-71	18	71	45	10 - 25.4	17	5.5	19.5	M5	8
OKB4/30-65	30	65	56	10 - 30.0	20	7.5	24.5	M6	15
OKB4/30-73	30	73	56	10 - 30.0	20	7.5	24.5	M6	15
OKB4/60-79	60	79	66	12 - 32.0	23	10.0	29.0	M8	40
OKB4/60-89	60	89	66	12 - 32.0	23	10.0	29.0	M8	40
OKB4/80-91	80	91	82	14 - 42.0	28	11.0	33.5	M10	72
OKB4/80-102	80	102	82	14 - 42.0	28	11.0	33.5	M10	72
OKB4/150-91	150	91	82	19 - 42.0	28	11.0	33.5	M10	84
OKB4/150-102	150	102	82	19 - 42.0	28	11.0	33.5	M10	84
OKB4/200-101	200	101	90	22 - 45.0	31	13.0	38.0	M12	125
OKB4/200-113	200	113	90	22 - 45.0	31	13.0	38.0	M12	125
OKB4/300-105	300	105	110	30 - 60.0	40	13.0	38.0	M12	145
OKB4/300-116	300	116	110	30 - 60.0	40	13.0	38.0	M12	145
OKB4/500-112	500	112	122	35 - 70.0	42	15.0	42.0	M12	145
OKB4/500-123	500	123	122	35 - 70.0	42	15.0	42.0	M12	145
OKB4/800-168	800	168	157	40 - 80.0	55	22.5	55.0	2 x M20	400
OKB4/1400-168	1,400	168	157	50 - 80.0	55	22.5	55.0	2 x M20	470

Part Number	Mass g	Moment of Inertia J g cm²	Spring Stiffness Torsional C_T Nm/rad	Spring Stiffness Radial C_R N/mm	Spring Stiffness Axial C_A N/mm	Misalignment Radial ΔKr mm	Misalignment Axial ΔKa mm	Misalignment Angular ΔKw	Max. Rotational Speed rpm
OKB4/18-63	0.10	0.04	20×10^3	205	50	0.20	0.5	1.5°	12,800
OKB4/18-71	0.15	0.05	15×10^3	82	36	0.25	0.5	2.0°	12,800
OKB4/30-65	0.30	0.15	38×10^3	720	50	0.15	0.6	1.5°	10,300
OKB4/30-73	0.32	0.16	28×10^3	225	28	0.25	1.0	2.0°	10,300
OKB4/60-79	0.50	0.33	75×10^3	1,150	90	0.15	0.6	1.5°	8,700
OKB4/60-89	0.60	0.36	50×10^3	340	50	0.25	1.0	2.0°	8,700
OKB4/80-91	2.30	2.30	128×10^3	1,200	80	0.20	0.5	1.5°	6,900
OKB4/80-102	2.40	2.40	75×10^3	400	50	0.25	0.8	2.0°	6,900
OKB4/150-91	2.30	2.50	155×10^3	2,020	145	0.20	0.5	1.5°	6,900
OKB4/150-102	2.40	2.60	105×10^3	595	85	0.25	0.5	2.0°	6,900
OKB4/200-101	2.60	3.30	175×10^3	2,500	145	0.20	0.5	1.5°	6,400
OKB4/200-113	2.70	3.50	120×10^3	460	82	0.25	0.8	2.0°	6,400
OKB4/300-105	4.30	7.60	502×10^3	6,300	280	0.20	0.5	1.5°	6,000
OKB4/300-116	4.40	7.80	285×10^3	1,400	145	0.25	0.8	2.0°	6,000
OKB4/500-112	5.50	13.50	690×10^3	7,790	100	0.20	0.5	1.5°	5,000
OKB4/500-123	5.60	13.70	320×10^3	970	85	0.25	1.0	2.0°	5,000
OKB4/800-168	9.00	35.00	$1,270 \times 10^3$	700	275	0.20	0.8	1.8°	5,000
OKB4/1400-168	10.00	36.00	$1,270 \times 10^3$	700	275	0.20	0.8	1.8°	5,000

Material

Bellows: Stainless Steel.
Hub: OKB4/18 to OKB4/60 = Aluminium (Stainless Steel available, P.O.A.).
OKB4/80 to OKB4/500 = Steel (Aluminium & Stainless Steel available, P.O.A.).

Maximum Rotational Speed: 15,000 rpm.
Operating Temperature Range: -30°C to +120°C.

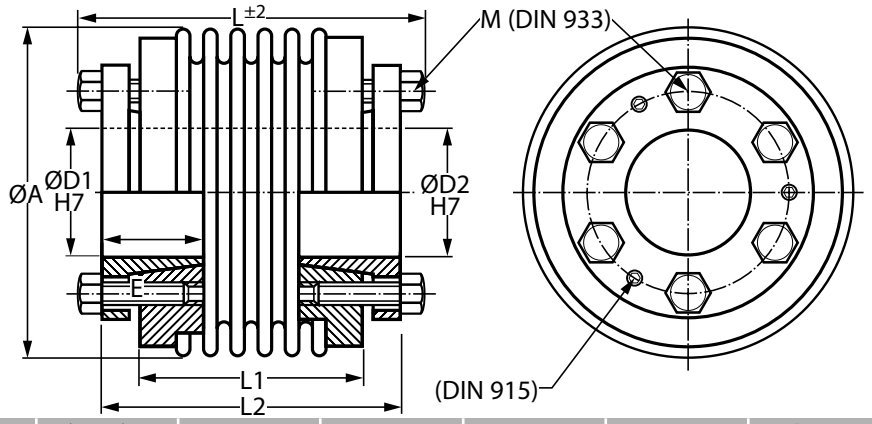
Keyway to DIN 6885 available, P.O.A.

COUPLINGS

OKB5

Metal Bellows Coupling

With Inner Conical Hub : 18 - 5,000Nm : 10 - 90mm Bores



Part Number	Torque TKN Nm	L ±2	ØA	ØD1 ØD2 H7 Min. Max.	E	L1	L2	Hex Screw M	Tightening Torque TA Nm
OKB5/18-63	18	63	47	10 - 18	20	38	56	4 x M5	4.5
OKB5/18-71	18	71	47	10 - 18	20	46	64	4 x M5	4.5
OKB5/30-53	30	53	56	12 - 20	20	30	46	6 x M5	4.5
OKB5/30-61	30	61	56	12 - 20	20	38	54	6 x M5	4.5
OKB5/60-62	60	62	66	15 - 25	25	36	54	6 x M6	8.5
OKB5/60-73	60	73	66	15 - 25	25	47	65	6 x M6	8.5
OKB5/80-78	80	78	82	20 - 35	30	50	70	6 x M6	10.0
OKB5/80-90	80	90	82	20 - 35	30	62	82	6 x M6	10.0
OKB5/150-78	150	78	82	20 - 35	30	50	70	6 x M6	15.0
OKB5/150-90	150	90	82	20 - 35	30	62	82	6 x M6	15.0
OKB5/200-78	200	78	90	20 - 40	30	50	70	6 x M6	15.0
OKB5/200-91	200	91	90	20 - 40	30	63	83	6 x M6	15.0
OKB5/300-90	300	90	110	25 - 50	37	56	80	6 x M8	17.0
OKB5/300-102	300	102	110	25 - 50	37	67	91	6 x M8	17.0
OKB5/500-101	500	101	122	35 - 55	40	66	90	6 x M8	25.0
OKB5/500-112	500	112	122	35 - 55	40	77	101	6 x M8	25.0
OKB5/800-170	800	170	157	50 - 70	60	110	150	6 x M16	45.0
OKB5/1400-170	1,400	170	157	50 - 70	60	110	150	6 x M16	80.0
OKB5/3000-206	3,000	206	157	55 - 85	60	150	190	6 x M12	85.0
OKB5/5000-206	5,000	206	208	60 - 90	65	146	186	6 x M16	210.0

Part Number	Mass g	Moment of Inertia J g cm²	Spring Stiffness Torsional CT Nm/rad	Spring Stiffness Radial CR N/mm	Spring Stiffness Axial CA N/mm	Misalignment Radial ΔKr mm	Misalignment Axial ΔKa mm	Misalignment Angular ΔKw
OKB5/18-63	0.36	0.075	20 x 10^3	205	50	0.20	0.5	1.5°
OKB5/18-71	0.37	0.078	15 x 10^3	82	36	0.25	0.5	2.0°
OKB5/30-53	0.40	0.110	38 x 10^3	720	50	0.15	0.6	1.5°
OKB5/30-61	0.42	0.120	28 x 10^3	225	25	0.25	1.0	2.0°
OKB5/60-62	0.77	0.320	75 x 10^3	1,150	90	0.15	0.6	1.5°
OKB5/60-73	0.79	0.340	50 x 10^3	340	50	0.25	1.0	2.0°
OKB5/80-78	1.34	1.050	128 x 10^3	1,200	80	0.20	0.5	1.5°
OKB5/80-90	1.39	1.110	75 x 10^3	400	50	0.25	1.0	2.0°
OKB5/150-78	1.36	1.150	155 x 10^3	2,020	145	0.20	0.5	1.5°
OKB5/150-90	1.41	1.210	105 x 10^3	595	85	0.25	1.0	2.0°
OKB5/200-78	1.59	1.390	175 x 10^3	2,500	145	0.20	0.5	1.5°
OKB5/200-91	1.66	1.490	120 x 10^3	460	82	0.25	1.0	2.0°
OKB5/300-90	3.26	4.660	502 x 10^3	6,300	280	0.20	0.5	1.5°
OKB5/300-102	3.32	4.810	285 x 10^3	1,400	145	0.25	1.0	2.0°
OKB5/500-101	3.78	6.110	690 x 10^3	7,790	100	0.20	0.5	1.5°
OKB5/500-112	3.87	6.380	320 x 10^3	970	85	0.25	1.0	2.0°
OKB5/800-170	9.05	24.050	760 x 10^3	500	185	0.20	0.8	1.8°
OKB5/1400-170	9.15	24.200	1,270 x 10^3	700	275	0.20	0.8	1.8°
OKB5/3000-206	9.43	25.700	2,810 x 10^3	2,945	305	0.20	0.8	1.5°
OKB5/5000-206	19.90	96.700	4,810 x 10^3	4,915	505	0.20	0.8	1.5°

Material

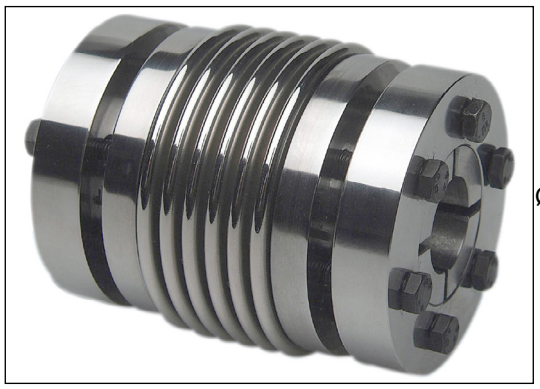
Bellows: Stainless Steel.
Hub: High Tensile Steel (Stainless Steel available, P.O.A.).
Operating Temperature Range: -30°C to +120°C.

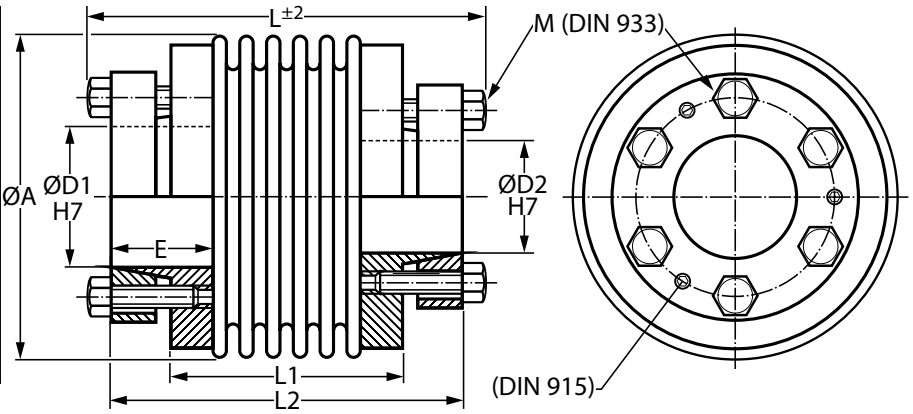
COUPLINGS

OKB6

Metal Bellows Coupling

With Outer Conical Hub : 18 - 5,000Nm : 8 - 90mm Bores





Part Number	Torque TKN Nm	L±2	ØA	ØD1 ØD2 H7 Min. Max.	E	L1	L2	Hex Screw M	Tightening Torque TA Nm
OKB6/18-65	18	65	45	8 - 15	16.5	37	58	4 x M5	5.9
OKB6/18-73	18	73	45	8 - 15	16.5	45	66	4 x M5	5.9
OKB6/30-60	30	60	56	12 - 20	18.0	31	53	6 x M5	5.9
OKB6/30-68	30	68	56	12 - 20	18.0	39	61	6 x M5	5.9
OKB6/60-78	60	78	66	15 - 32	25.0	36	71	6 x M5	8.7
OKB6/60-89	60	89	66	15 - 32	25.0	47	82	6 x M5	8.7
OKB6/80-95	80	95	82	20 - 35	31.0	50	87	6 x M6	15.0
OKB6/80-107	80	107	82	20 - 35	31.0	62	99	6 x M6	15.0
OKB6/150-95	150	95	82	20 - 35	31.0	50	87	6 x M6	15.0
OKB6/150-107	150	107	82	20 - 35	31.0	62	99	6 x M6	15.0
OKB6/200-95	200	95	90	20 - 42	31.0	50	87	6 x M6	15.0
OKB6/200-108	200	108	90	20 - 42	31.0	63	100	6 x M6	15.0
OKB6/300-108	300	108	110	25 - 50	34.0	57	98	6 x M8	25.0
OKB6/300-120	300	120	110	25 - 50	34.0	68	109	6 x M8	25.0
OKB6/500-122	500	122	122	35 - 55	41.0	59	112	6 x M8	36.0
OKB6/500-134	500	134	122	35 - 55	41.0	70	123	6 x M8	36.0
OKB6/800-184	800	184	157	50 - 70	50.0	108	169	6 x M12	85.0
OKB6/1400-184	1,400	184	157	50 - 70	50.0	108	169	6 x M12	115.0
OKB6/3000-220	3,000	220	157	55 - 75	60.0	146	204	6 x M12	125.0
OKB6/5000-245	5,000	245	208	60 - 90	55.0	146	225	6 x M16	210.0

Part Number	Mass g	Moment of Inertia J g cm²	Spring Stiffness Torsional CT Nm/rad	Spring Stiffness Radial CR N/mm	Spring Stiffness Axial CA N/mm	Misalignment Radial ΔKr mm	Misalignment Axial ΔKa mm	Misalignment Angular ΔKw
OKB6/18-65	0.30	0.081	20 x 10^3	205	50	0.20	0.5	1.5°
OKB6/18-73	0.31	0.084	15 x 10^3	82	36	0.25	0.5	2.0°
OKB6/30-60	0.37	0.130	38 x 10^3	720	50	0.15	0.6	1.5°
OKB6/30-68	0.39	0.140	28 x 10^3	225	25	0.25	1.0	2.0°
OKB6/60-78	0.76	0.460	75 x 10^3	1,150	90	0.15	0.6	1.5°
OKB6/60-89	0.79	0.490	50 x 10^3	340	50	0.25	1.0	2.0°
OKB6/80-95	1.57	1.370	128 x 10^3	1,200	80	0.20	0.5	1.5°
OKB6/80-107	1.62	1.430	75 x 10^3	400	50	0.25	1.0	2.0°
OKB6/150-95	1.59	1.390	155 x 10^3	2,020	145	0.20	0.5	1.5°
OKB6/150-107	1.64	1.450	105 x 10^3	595	85	0.25	1.0	2.0°
OKB6/200-95	1.60	1.640	175 x 10^3	2,500	145	0.20	0.5	1.5°
OKB6/200-108	1.67	1.740	120 x 10^3	460	82	0.25	1.0	2.0°
OKB6/300-108	2.83	4.520	502 x 10^3	6,300	280	0.20	0.5	1.5°
OKB6/300-120	2.89	4.680	285 x 10^3	1,400	145	0.25	1.0	2.0°
OKB6/500-122	3.89	7.040	690 x 10^3	7,790	100	0.20	0.5	1.5°
OKB6/500-134	3.98	7.310	320 x 10^3	970	85	0.25	1.0	2.0°
OKB6/800-184	8.87	24.900	760 x 10^3	500	185	0.20	0.8	1.8°
OKB6/1400-184	8.92	25.200	1,270 x 10^3	700	275	0.20	0.8	1.8°
OKB6/3000-220	10.90	30.900	2,810 x 10^3	2,945	305	0.20	0.8	1.5°
OKB6/5000-245	27.70	144.400	4,810 x 10^3	4,915	505	0.20	0.8	1.5°

Material

Bellows: Stainless Steel.
Hub: High Tensile Steel (Stainless Steel available, P.O.A.).
Operating Temperature Range: -30°C to +120°C.

+44 (0)1246 455500
+44 (0)1246 455522
ondrives
sales@ondrives.com
www.ondrives.com

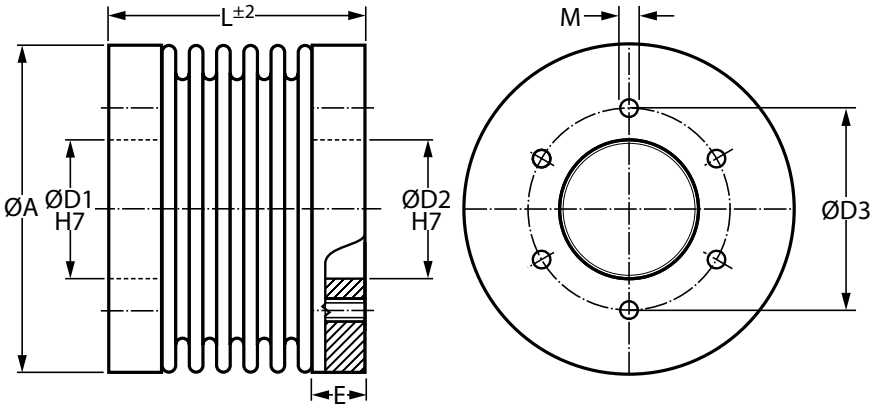
Product information updated June 2017 and subject to change. Please click the product links for prices and availability.

COUPLINGS

OKB7

Metal Bellows Coupling

For Flange Mounting : 18 - 5,000Nm : 22 - 100mm Bores



Part Number	Torque TKN Nm	L±2	ØA	ØD1 ØD2 H7	ØD3	E	Thread M
OKB7/18-36	18	36	45	22	31	6.0	M5
OKB7/18-44	18	44	45	22	31	6.0	M5
OKB7/30-30	30	30	56	28	37	7.0	M5
OKB7/30-38	30	38	56	28	37	7.0	M5
OKB7/60-41	60	41	66	38	46	10.5	M6
OKB7/60-51	60	51	66	38	46	10.5	M6
OKB7/80-50	80	50	82	50	62	13.0	M6
OKB7/80-62	80	62	82	50	62	13.0	M6
OKB7/150-50	150	50	82	50	62	13.0	M6
OKB7/150-62	150	62	82	50	62	13.0	M6
OKB7/200-50	200	50	90	50	62	13.0	M6
OKB7/200-63	200	63	90	50	62	13.0	M6
OKB7/300-55	300	55	110	65	80	13.0	M8
OKB7/300-66	300	66	110	65	80	13.0	M8
OKB7/500-61	500	61	122	70	94	16.0	M8
OKB7/500-72	500	72	122	70	94	16.0	M8
OKB7/800-131	800	131	157	85	110	23.0	M16
OKB7/1400-131	1,400	131	157	85	110	23.0	M16
OKB7/3000-131	3,000	131	157	85	110	23.0	M16
OKB7/5000-146	5,000	146	208	100	130	36.5	M16

Part Number	Mass g	Moment of Inertia J g cm²	Spring Stiffness Torsional CT Nm/rad	Spring Stiffness Radial CR N/mm	Spring Stiffness Axial CA N/mm	Misalignment Radial ΔKr mm	Misalignment Axial ΔKa mm	Misalignment Angular ΔKw
OKB7/18-36	0.110	0.04	20×10^3	205	50	0.20	0.5	1.50°
OKB7/18-44	0.115	0.04	15×10^3	82	36	0.25	0.5	2.00°
OKB7/30-30	0.160	0.09	38×10^3	720	50	0.15	0.6	1.50°
OKB7/30-38	0.170	0.09	28×10^3	225	25	0.25	1.0	2.00°
OKB7/60-41	0.330	0.25	75×10^3	1,150	90	0.15	0.6	1.50°
OKB7/60-51	0.370	0.29	50×10^3	340	50	0.25	1.0	2.00°
OKB7/80-50	0.690	0.83	128×10^3	1,200	80	0.20	0.5	1.50°
OKB7/80-62	0.750	0.92	75×10^3	400	50	0.25	1.0	2.00°
OKB7/150-50	0.690	0.83	155×10^3	2,020	145	0.20	0.5	1.50°
OKB7/150-62	0.750	0.92	105×10^3	595	85	0.25	1.0	2.00°
OKB7/200-50	0.740	1.00	175×10^3	2,500	145	0.20	0.5	1.50°
OKB7/200-63	0.800	1.10	120×10^3	460	82	0.25	1.0	2.00°
OKB7/300-55	1.180	2.50	502×10^3	6,300	280	0.20	0.5	1.50°
OKB7/300-66	1.240	2.70	285×10^3	1,400	145	0.25	1.0	2.00°
OKB7/500-61	1.950	5.00	690×10^3	7,790	100	0.20	0.5	1.50°
OKB7/500-72	2.050	5.30	320×10^3	970	85	0.25	1.0	2.00°
OKB7/800-131	3.550	15.00	760×10^3	500	185	0.20	0.8	1.75°
OKB7/1400-131	3.550	15.00	$1,270 \times 10^3$	700	275	0.20	0.8	1.75°
OKB7/3000-131	3.700	16.00	$2,810 \times 10^3$	2,945	305	0.20	0.8	1.50°
OKB7/5000-146	8.220	61.00	$4,810 \times 10^3$	4,915	505	0.20	0.8	1.50°

Material

Bellows: Stainless Steel.
Hub: High Tensile Steel (Stainless Steel available, P.O.A.).
Operating Temperature Range: -30°C to +120°C.