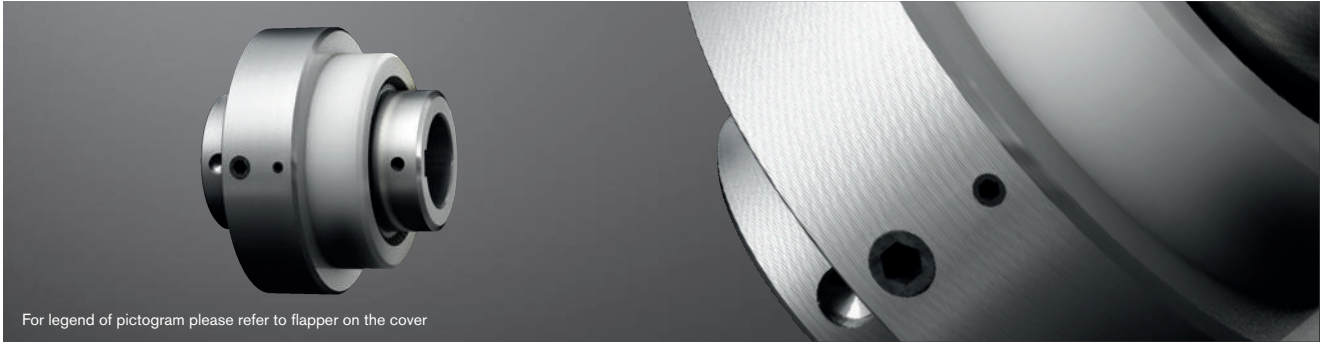
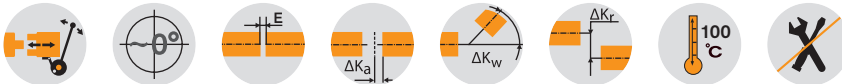


BoWex® SD/SD-D Curved-tooth gear coupling®

Shiftable coupling (at standstill)



For legend of pictogram please refer to flapper on the cover



BoWex® Type SD																						
Size	Pilot bore		Finish bore d ₁ , d ₂			Dimensions [mm]												Weight with max. bore [kg]		Mass moment of inertia J with max. bore [kgcm ²]		Shifting force [N]
	Unbored	Pilot bored	d ₁	d ₁ max.	d ₂ max.	E	l ₁	l ₂	L	L _H	l ₃	M	W	N	D	D _H	D _A	Shifting hub with sleeve	Driving hub	Shifting hub with sleeve	Driving hub	
24 SD	x	-	For finish bores see stock programme on page 88	24	24	4	26	50	80	52	31	10	19	18	36	58	78	1.08	0.14	8.23	0.36	140
28 SD	x	-		28	28	4	40	55	99	57	33	21.5	21.5	20.5	44	70	88	1.50	0.33	15.62	1.22	180
32 SD	x	-		32	32	4	40	55	99	58	33	20.5	21.5	20.5	50	84	100	1.85	0.43	22.87	2.17	180
45 SD	x	-		45	45	4	42	60	106	63	37	21.5	22.5	21.5	65	100	125	2.56	0.68	46.07	5.66	250
				48			50		29.5													
65 SD	-	21		65	65	4	55	70	129	77	37	28	25	24	95	140	156	5.07	2.30	158.99	43.96	350
80 SD	-	31		90	90	6	90	90	186	96	47	56	35	34	124	175	195	10.60	5.20	523.7	150.8	350
100 SD	-	38		100	100	8	110	110	228	113	55	72	43	43	152	210	235	18.87	9.37	1350	401.3	400
125 SD	-	45		125	125	10	140	140	290	149	70	89	52	52	192	270	298	40.40	9.44	4919	1362.3	450

Connection dimensions of BoWex® SD shifting ring (comp. 17) for mounting of: slip ring SD1 (s. catalogue on p. 89), shifting disk etc.

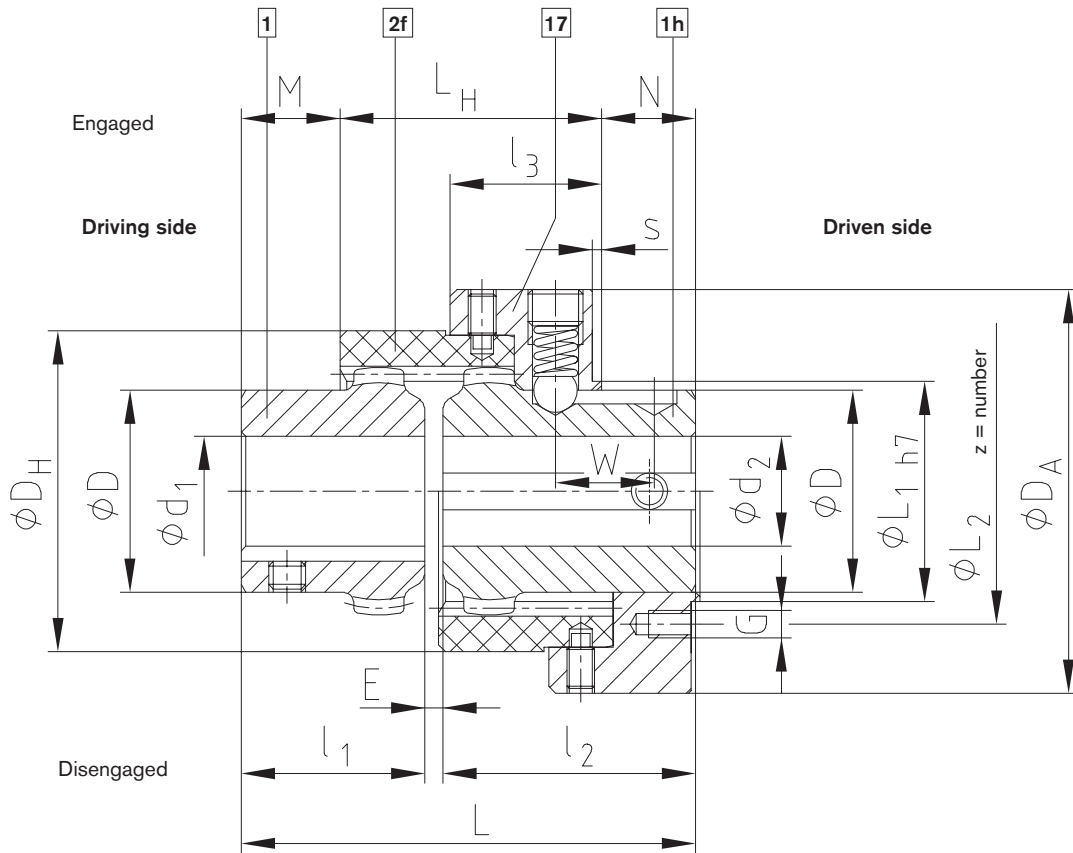
Size	Dimensions [mm]			
	L ₁	L ₂	z x G	s
24 SD	48	58	4 x M6	2
28 SD	48	58	4 x M6	2
32 SD	64	75	4 x M6	2
45 SD	75	90	4 x M8	2
65 SD	100	114	4 x M8	2
80 SD	130	145	4 x M8	3
100 SD	180	196	6 x M10	4
125 SD	220	236	6 x M10	4

Performance data/torques see type M (on page 88), max. circumferential speed v = 20 m/s, referring to ØD_A
Other sizes on request

Ordering example:	BoWex® 32 SD	d ₁ Ø32	d ₂ Ø32
	Size and type of coupling	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)

Any questions? Please contact us.

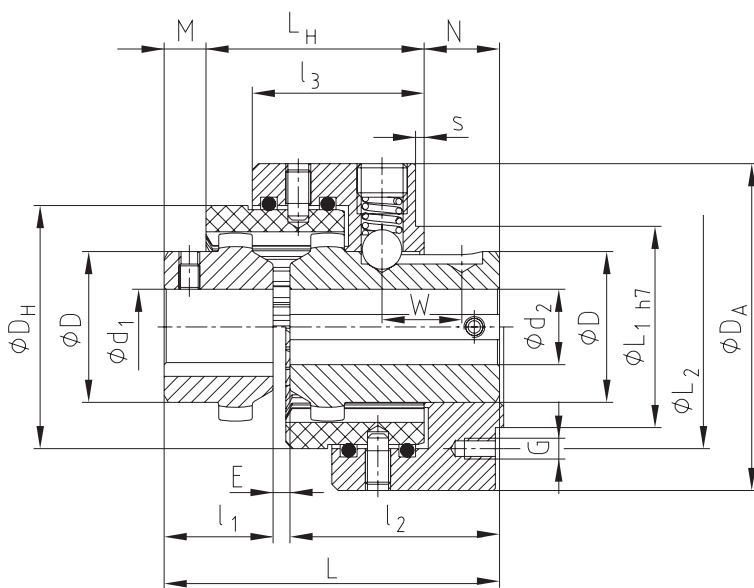
Components



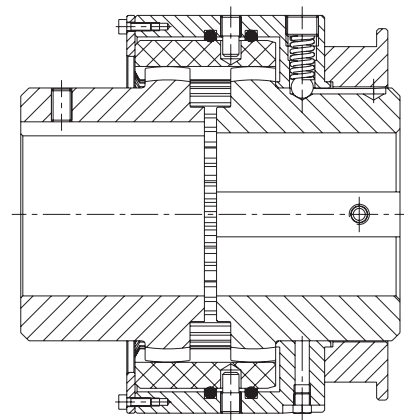
BoWex®

Gear couplings

BoWex® SD



BoWex® SD-D



BoWex® SD-D3

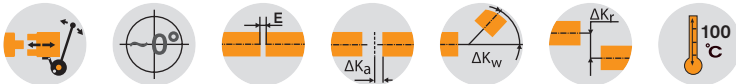
GEARex®

BoWex® SD1 Curved-tooth gear coupling®

Shiftable coupling with shiftable linkage (at standstill)



For legend of pictogram please refer to flapper on the cover



BoWex® Type SD1 and slip ring																					
Size	Finish bore			Dimensions [mm]																	Shifting force [N]
	d1	d1 max.	d2 max.	E	l1	l2	L	LG	l4	l5	M	W	t	D	DH	DA	D1	D2 ±0.1 (keyway)	D5	n ±0.1 (keyway)	
24 SD1		24	24	4	26	50	80	67	11	46	10	19	16	36	58	78	45	70.5	78	12.5	140
28 SD1		28	28	4	40	55	99	72	11	48	21.5	21.5	16	44	70	88	45	70.5	78	12.5	180
32 SD1		32	32	4	40	55	99	78	13.5	53	20.5	21.5	21	50	84	100	60	89.5	100	17.5	180
45 SD1	For finish bores see stock programme on page 86	45		4	42		106				21.5										
		48	45		50	60	114	84	14	58	29.5	22.5	22	65	100	125	70	112.5	125	18	250
65 SD1		65	65	4	55	70	129	103	16	61	26	25	25	96	140	156	96	130.5	145	20.5	350
80 SD1		80	80	6	90	90	186	124	18.5	75	56	35	29	124	175	195	125	164.5	182	25.5	350
100 SD1		100	100	8	110	110	228	152	28	94	72	43	39	152	210	235	174	210.5	230	30.5	400
125 SD1		125	125	10	140	140	290	193	30.5	114	89	52	44	192	270	298	214	250.5	275	35.5	450

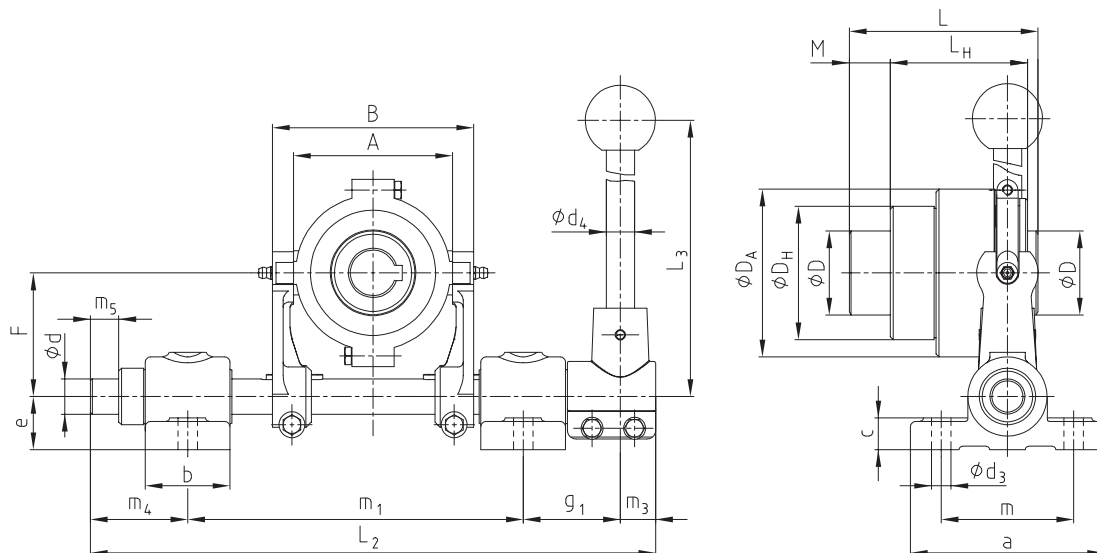
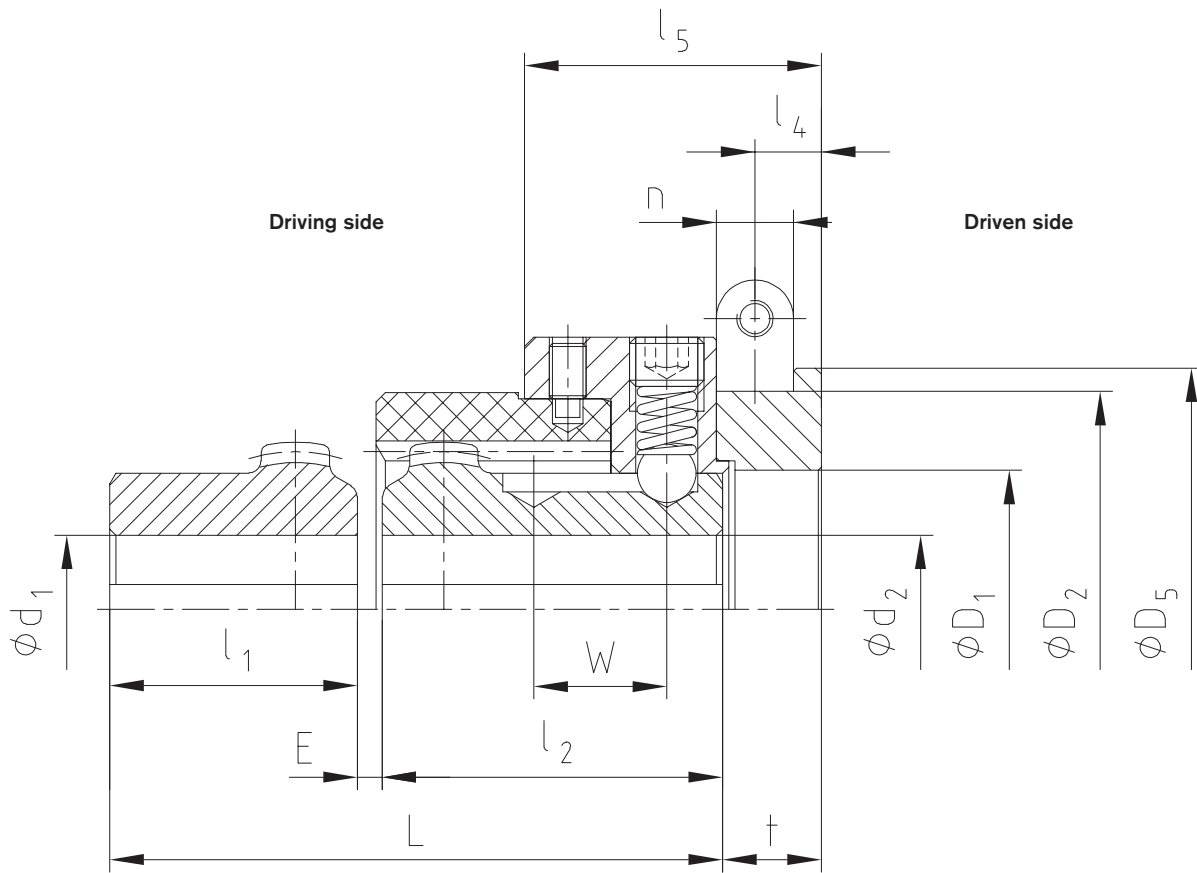
BoWex® Type SD1 - Shiftable linkage																					
Size	Shiftable linkage size	Slip ring size	Dimensions [mm]															Dimensions with m1 max.			
			a	b	c	d	d3	d4	e	F	g1	L2	L3	m	m1 min.	m1 max.	A	B	m3	m4	m5
24 SD1	1	1.1																			
28 SD1	1	1.1	110	50	18	20	11	16	30	70	55	320	400	75	180	190	90	114		55	16
32 SD1	2	2.2				25				97.5	60	430	450		240	270	111	151	20	80	34
45 SD1	3	3.3	140			30		20	40	120		490	600	100	280	310	140	180		90	44
65 SD1	3	4.4									70						170	210			
80 SD1	4	5.5		60	25	35	13.5		50	147.5		565	750		321	365	200	244		100	54
100 SD1	5	6.6	160			40		30	50 ¹⁾	190	80	630	1085	120	365	410	250	300	30	110	62
125 SD1	5	7.7													-		300	350			

¹⁾ = With a continuous base plate the dimension „e“ has to be increased by at least 10 mm. The brackets of the driving and driven side have to be adjusted accordingly. Also available as type SD-D. Other sizes on request.

Performance data/torques see type M (on page 88), max. circumferential speed v = 20 m/s, referring to ØDA

Ordering example:	BoWex® 65 SD1	d1 Ø32	d2 Ø32	4.4	3
	Size and type of coupling	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)		Slip ring Size	Shiftable linkage Size

Any questions? Please contact us.



Any questions? Please contact us.

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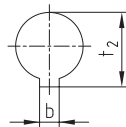
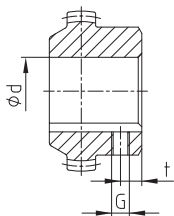
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Technical data

Power, torque and speed							
Type and size		Power P [kW] / n [rpm]		Torque [Nm]			Max. speed [rpm]
		Rated	Max.	T _{KN}	T _{K max}	T _{KW}	
Type plug-in coupling/ junior M	junior 14 / M-14	0.0005	0.010	5	10	2.5	6000
	junior 19 / M-19	0.0008	0.0017	8	16	4	6000
	junior 24 / M-24	0.0013	0.0025	12	24	6	6000
Type M AS Spec.-I SG SSR	14	0.0010	0.003	10	30	5	14000
	19	0.0017	0.005	16	48	8	11800
	24	0.0021	0.006	20	60	10	10600
	28	0.0047	0.014	45	135	23	8500
	32	0.0063	0.019	60	180	30	7500
	38	0.0084	0.025	80	240	40	6700
	42	0.010	0.031	100	300	50	6000
	45 / 48	0.015	0.044	140	420	70	5600
	65	0.040	0.119	380	1140	190	4000
	80	0.073	0.22	700	2100	350	3150
	100	0.13	0.38	1200	3600	600	3000
	125	0.26	0.78	2500	7500	1250	2120
Type M...C GT	14	0.0015	0.0047	15	45	7.5	14000
	19	0.0025	0.0075	24	72	12	11800
	24	0.003	0.009	30	90	15	10600
	28	0.007	0.022	70	210	35	8500
	32	0.009	0.028	90	270	45	7500
	38	0.013	0.038	120	360	60	6700
	48	0.021	0.063	200	600	100	5600
	65	0.058	0.18	560	1680	280	4000
Type HEW Compact	T50 Sh	0.0236	0.0471	200	400	50	7300
	42-130 T65 Sh	0.0283	0.0565	270	540	68	7300
	T70 Sh	0.0330	0.0660	320	640	80	7300
	T50 Sh	0.0628	0.1257	550	1100	138	5500
	65-180 T65 Sh	0.0785	0.1571	740	1500	185	5500
	T70 Sh	0.0890	0.1780	860	1700	215	5500
	T50 Sh	0.1414	0.2827	1250	2500	313	4400
	80-225 T65 Sh	0.1728	0.3455	1600	3200	400	4400
	T70 Sh	0.2042	0.4084	1900	3800	475	4400
	T50 Sh	0.3141	0.6283	2750	5500	688	3200
	100-305 T65 Sh	0.4084	0.8168	3900	7800	975	3200
	T70 Sh	0.4712	0.9424	4500	9000	1125	3200
	T50 Sh	0.6283	1.2565	5500	11000	1375	2900
	125-365 T65 Sh	0.7853	1.5707	7500	15000	1875	2900
	T70 Sh	0.8901	1.7801	8400	16800	2100	2900

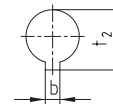
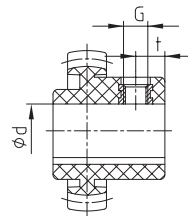
Thread for setscrews

Thread dimensions for setscrews, BoWex® coupling hubs with cylindrical bore.



Position of the thread for setscrews BoWex® M-14 to M-24 opposite the keyway

BoWex® M-28 to I-125 on the keyway



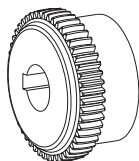
Position of thread with BoWex® junior plug-in coupling and junior M coupling

BoWex® coupling hubs							
Size Dimensions	14 19 24	28 32 38	42 45 48	65	80	100	125
Thread G	M5	M8	M10	M10	M12	M16	
Distance t	6	10	15 ¹⁾ 20	20	30	40	
Tightening torque T _A [Nm]	2	10	17	17	40	80	

BoWex® junior coupling hubs			
Size Dimensions	14	19	24
Thread G	M5	M5	M5
Hub 1b - Distance t	6	6	6
Plug-in sleeve 2b - Distance t	8	10	10
Tightening torque T _A [Nm]	1.4	1.4	1.4

¹⁾ Length of hub 55 mm t = 15 mm, 70 mm t = 20 mm

Types of hubs



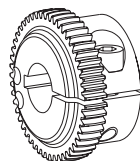
Type 1.0 hub with feather keyway and setscrew

Positive-locking power transmission, permissible torque depending on the permissible surface pressure. Not suitable for backlash-free power transmission with heavily reversing operation.

Type 1.1 hub without feather key with setscrew

Non-positive torque transmission for crimp connections and adhesive bonds. (No ATEX approval)

Type 1.3 hub with spline bore (see page 107)



Type 2.0 clamping hub single slot without feather keyway

Frictionally engaged, backlash-free shaft-hub-connection. Transmittable torques depending on bore diameter.

Type 2.1 clamping hub single slot with feather keyway

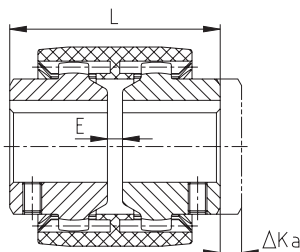
Positive-locking power transmission with additional friction fit. The friction fit avoids or reduces reverse backlash. Surface pressure of the keyway connection is reduced.

Type 2.3 clamping hub with spline bore (see page 107)

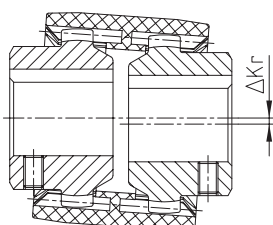
Displacements

BoWex® couplings are double-cardanic compensating for axial, radial and angular shaft displacements in addition to transmitting the torque so that damage on the driving or driven machine is prevented.

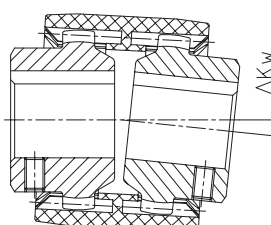
Axial displacement



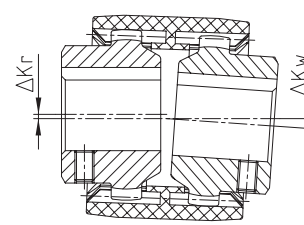
Radial displacement



Angular displacement



Radial and angular displacement



Displacements – type junior couplings

BoWex® size	Type junior plug-in coupling			Type junior M		
	14	19	24	14	19	24
Max. axial displacement ΔK_a [mm]	± 1	± 1	± 1	± 1	± 1	± 1
Max. radial displacement with $n=1500$ rpm ΔK_r [mm]	± 0.1	± 0.1	± 0.1	± 0.3	± 0.3	± 0.4
Max. radial displacement with $n=3000$ rpm ΔK_r [mm]	± 0.1	± 0.1	± 0.1	± 0.3	± 0.3	± 0.4
Max. angular displacement with $n=1500$ rpm ΔK_w [degree]	± 1.0	± 1.0	± 0.9	± 1.0	± 1.0	± 0.9
Max. angular displacement with $n=3000$ rpm ΔK_w [degree]	± 0.7	± 0.7	± 0.6	± 0.7	± 0.7	± 0.6

Displacements – type M, I, AS, Spec.-I, SG and SSR

BoWex® size	14	19	24	28	32	38	42	48	65	80	100	125
Max. axial displacement ΔK_a [mm]	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1
Max. radial displacement with $n=1500$ rpm ΔK_r [mm]	± 0.30	± 0.30	± 0.35	± 0.35	± 0.35	± 0.40	± 0.40	± 0.40	± 0.45	± 0.45	± 0.45	± 0.45
Max. radial displacement with $n=3000$ rpm ΔK_r [mm]	± 0.20	± 0.20	± 0.23	± 0.23	± 0.23	± 0.25	± 0.25	± 0.25	± 0.28	± 0.28	± 0.28	± 0.28
Max. angular displacement with $n=1500$ rpm ΔK_w [degree]	± 1.0	± 1.0	± 0.9	± 0.9	± 0.9	± 0.9	± 0.9	± 0.9	± 0.7	± 0.6	± 0.6	± 0.4
Max. angular displacement with $n=3000$ rpm ΔK_w [degree]	± 0.7	± 0.7	± 0.6	± 0.6	± 0.6	± 0.6	± 0.6	± 0.6	± 0.5	± 0.4	± 0.4	± 0.3

Displacements – Type GT

Displacements – Type HEW Compact

BoWex® size	Type GT				Type HEW Compact															
	28	38	48	65	42-130			65-180			80-225			100-305			125-365			
					T50	T65	T70	T50	T65	T70	T50	T65	T70	T50	T65	T70	T40	T52	T65	
Max. axial displacement ΔK_a [mm]	± 1	± 1	± 1	± 1	± 2			± 2			± 2			± 2			± 2			
Max. radial displacement with $n=1500$ rpm ΔK_r [mm]	± 1	± 1	± 1.4	± 1.4	± 1.1	± 1	± 0.5	± 1.6	± 1.5	± 0.7	± 1.8	± 1.7	± 2.2	± 2.2	± 2	± 2	± 1	± 2.5	± 2.3	± 1.1
Max. radial displacement with $n=3000$ rpm ΔK_r [mm]	± 0.6	± 0.6	± 1	± 1	± 0.55	± 0.5	± 0.25	± 0.8	± 0.75	± 0.35	± 0.9	± 0.85	± 1.1	± 1.1	± 1	± 1	± 0.5	± 1.25	± 1.15	± 0.55
Max. angular displacement with $n=1500$ rpm ΔK_w [degree]	± 1	± 1	± 0.9	± 0.9	± 1	± 0.75	± 0.5	± 1	± 0.75	± 0.5	± 1	± 0.75	± 1	± 1	± 0.75	± 0.5	± 1	± 0.75	± 0.5	± 0.5
Max. angular displacement with $n=3000$ rpm ΔK_w [degree]	± 0.7	± 0.7	± 0.6	± 0.6	± 0.5	± 0.4	± 0.25	± 0.5	± 0.4	± 0.25	± 0.5	± 0.4	± 0.25	± 0.5	± 0.25	± 0.25	± 0.5	± 0.4	± 0.25	± 0.25

The permissible displacement figures of the BoWex® couplings specified are general standard values taking into account the load of the coupling up to the rated torque T_{KN} of the coupling. With different operating conditions please order our data sheet for displacements of BoWex® KTR-N 20140. The displacement figures may only be used one by one, if they appear simultaneously, they must be limited in proportion. Care should be taken to maintain the distance dimension E accurately in order to allow for axial clearance of the coupling while in operation. Detailed mounting instructions are shown on our homepage www.ktr.com.

Cylindrical bores, taper/inch bores see selection of standard IEC motors

Stock programme of cylindrical finish bores [mm] H7 feather keyway acc. to DIN 6885 sheet 1 [JS9] and thread for setscrews																														
BoWex® Size	un/pilot bored	Ø8	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø17	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55	Ø60	Ø65	Ø70	Ø75
14	●■	●	●	●	●	●	●																							
19	●■		●	●	●	●	●	●	●	●	●■	●																		
24	●■		●	●	●	●■	●	●	●	●	●■	●■	●	●■	●															
28	●■				●	●	●	●	●	●	●	●	●	●	●	●■														
32	●■							●		●	●	●	●	●	●	●	●	●	●											
38	●■							●		●	●	●	●	●	●	●	●	●	●	●■										
42	●■									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
48	●■										●				●	●	●	●	●	●	●	●	●■	●■	●■					
65	●■																●■	●	●■	●	●■	●■	●■	●■	●■	●■	●■	●■	●■	●■
80	●																						●		●	●	●	●	●	●

● Standard length ■ Standard lengthened

Stock programme taper and inch bores																				
Code d +0.05 b JS9 t +0.2	Taper 1:5					Taper 1:8					Inch bores									
	A-10 9.85 2	B-17 16.85 3	C-20 19.85 4	D-25 24.85 5	E-30 29.85 6	N/1 9.7 2.4	N1d 14 3	N/2 17.28 3.2	N/2a 17.28 4	N/3 22 3.99	Ta 12.7 3.17 14.3	DNC 13.45 3.17 14.9	Ed 15.87 4.75 18.1	A 19.05 4.78 21.3	G 22.22 4.75 24.7	F 22.22 6.38 25.2	Bs 25.38 6.37 28.3	Hs 25.4 6.35 28.7	K 31.75 7.93 35.4	
14	●						●												●	
19		●					●						●						●	
24	●	●					●		●	●			●						●	●
28	●	●					●	●	●	●		●							●	
32		●																		●
38		●							●	●									●	
42		●		●					●	●		●							●	●
48																				
65																				●

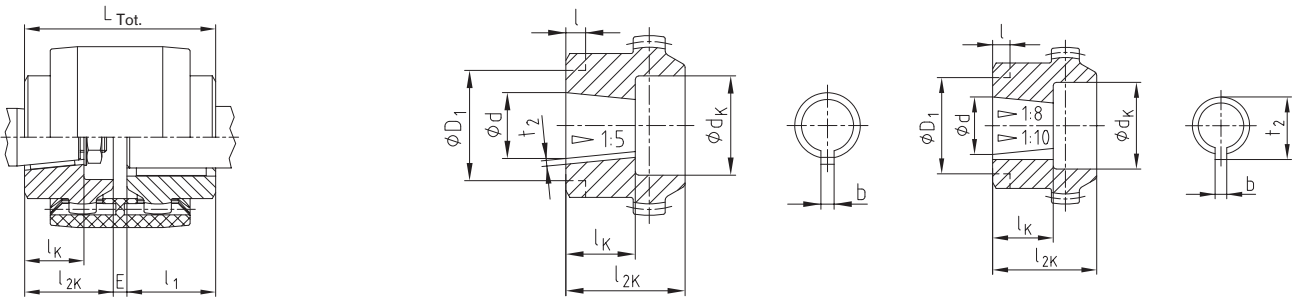
Other dimensions on request.

BoWex® couplings for standard IEC motors, protection class IP 54/IP 55										
A. C. motor Size	Motor power with 50 Hz n = 3000 [rpm]			Motor power with 50 Hz n = 1500 [rpm]			Motor power with 50 Hz n = 1000 [rpm]			Cylindrical shaft ends d x l [mm] 3000 ≤ 1500
	kW	T [Nm]	BoWex® coupling	kW	T [Nm]	BoWex® coupling	kW	T [Nm]	BoWex® coupling	
56	0.09	0.32		0.06	0.43		0.037	0.43		9 x 20
	0.12	0.41		0.09	0.64		0.045	0.52		
63	0.18	0.62	14	0.12	0.88	14	0.06	0.72	14	11 x 23
	0.25	0.86		0.18	1.3		0.09	1.1		
71	0.37	1.3	19	0.25	1.8	19	0.18	2.0	19	14 x 30
	0.55	1.9		0.37	2.5		0.25	2.7		
80	0.75	2.5	24	0.55	3.7	24	0.37	3.9	24	19 x 40
	1.1	3.7		0.75	5.1		0.55	5.8		
90 S	1.5	5.0	28	1.1	7.5	28	0.75	8.0	28	24 x 50
90 L	2.2	7.4		1.5	10		1.1	12		
100 L	3	9.8	38	2.2	15	38	1.5	15	38	28 x 60
				3	20		2	22		
112 M	4	13	42	4	27	42	2.2	22	42	38 x 80
132 S	5.5	18		5.5	36		3	30		
	7.5	25	7.5	49	4	40	5.5	55		
132 M			48			48			48	42 x 110
160 M	11	36		11	72		7.5	75		
160 L	15	49	55	15	98	55	11	108	55	48 x 110
180 M	18.5	60		18.5	121		15	148		
180 L	22	71	65	22	144	65	18.5	181	65	55 x 110
200 L	30	97		30	196		22	215		
225 S	37	120	80	37	240	80			80	60 x 140
225 M	45	145		45	292		30	293		
250 M	55	177	100	55	356	100	37	361	100	65 x 140
280 S	75	241		75	484		45	438		
280 M	90	289	125	90	581	125	55	535	125	75 x 140
315 S	110	353		110	707		75	727		
315 M	132	423	150	132	849	150	90	873	150	80 x 170
	160	513		160	1030		110	1070		
315 L	200	641	175	200	1290	175	132	1280	175	85 x 170
				160	1550		160	1550		
355	250	801	200	250	1610	200	200	1930	200	95 x 170
	315	1010		315	2020		250	2420		
	355	1140	225	355	2280	225			225	
	400	1280		400	2560		315	3040		

Torque T ^Δ = rated torque according to Siemens catalogue.

Taper bores

BoWex® with taper bore



$L_{Tot} = l_1 + E + l_{2K}$

see stock programme on page 90

Taper bores 1:5

Dimensions [mm]					Counterbore d _K and hub length l _{2K} [mm] Recess on hub collar D ₁ x l [mm]																		
Code	Details of bores				14		19		24		28		32		38		42		48		65		
	d +0.05	b ^{JS9}	t ₂ +0.1	l _K	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	
A-10	9.85	2	1.0	11.5	18	23	18	25	25	26	25	26	25	26	25	26							
B-17	16.85	3	1.8	18.5			30 x 7	30	30	36	40	36	40	36	40	36	40	45	42	45	42	45	50
C-20	19.85	4	2.2	21.5					28	36	36	40	36	40	36	40	45	42	45	42	45	50	
Cs-22	21.95	3	1.8	21.5					28	36	36	40	36	40	36	40	45	42	45	42			
D-25	24.85	5	2.9	26.5							36	40	36	40	36	40	45	42	45	42	45	50	
E-30	29.85	6	2.6	31.5									36	40	45	55	45	55	45	55	45	55	
F-35	34.85	6	2.6	36.5															52	60	55	60	
G-40	39.85	6	2.6	41.5															52	60	65	70	

Taper bores 1:8

Dimensions [mm]					Counterbore d _K and hub length l _{2K} [mm] Recess on hub collar D ₁ x l [mm]																	
Code	Details of bores				14		19		24		28		32		38		42		48		65	
	d +0.05	b ^{JS9}	t ₂ +0.1	l _K	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}
N/1	9.7 ± 0.015	2.4 +0.05	10.85	17	18	26	18	25	25	26	25	30	25	30	25	30						
N/1c	11.6	3 ^{JS9}	12.90	16.5	18	23			25	26	25	30										
N/1e	13	2.4 +0.05	13.80	21					25	30	25	30			25	30						
N/1d	14	3 ^{JS9}	15.50	17.5	20	23	25	30	28	30	28	30	28	40								
N/2	17.287	3.2 +0.05	18.24	24					28	35	36	40	36	40	36	40	45	42	45	42	45	50
N/2a	17.287	4 ^{JS9}	18.94	24					28	35	36	40	36	40	36	40	45	42	45	42	45	50
N/2b	17.287	3 ^{JS9}	18.34	24					28	35					36	40	45	42	45	42		
N/3	22.002	4 ^{JS9}	23.40	28							36	40	36	40	36	40	45	42	45	42	45	50
N/4	25.463	4.78 +0.05	27.83	36							36	50	36	50	36	50	45	50	45	50	45	62
N/4b	25.463	5 ^{JS9}	28.23	36													58 x 10	58 x 10				
N/4a	27	4.78 +0.05	28.80	32.5							36	50			36	50						
N/4g	28.45	6 ^{JS9}	29.32	38.5											36	60	45	60	45	60		
N/5	33.176	6.38 +0.05	35.39	44											45	60	45	60	45	60	45	62
N/5a	33.176	7 ^{JS9}	35.39	44													45	60	45	60	45	62

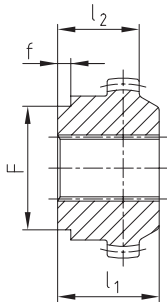
Taper bores 1:10

Dimensions [mm]					Counterbore d _K and hub length l _{2K} [mm]																	
Code	Details of bores				14		19		24		28		32		38		42		48		65	
	d +0.05	b ^{JS9}	t ₂ +0.1	l _K	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}
CX-20	19.85	5	22.08	32							36	50			36	50	45	50	45	50		
DX-25	24.95	6	26.68	45									36	50			45	60	45	60	45	60
EX-30	29.75	8	31.88	50													45	60	45	60	45	70

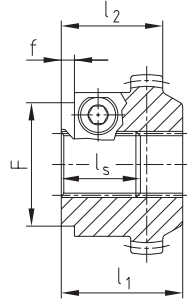
Spline hubs and inch bores

BoWex® spline hubs – basic programme

Spline hub (N)



Clamping hub (K)



If it is not possible to fasten the hubs of pump shafts with involute spline by means of an end plate and a screw, we recommend to use our spline clamping hub.
Radial clamping ensures a backlash-free tight fit on the pump shaft.

Spline and clamping hubs to DIN 5480								
Size	Dimensions [mm]							Order designation specify coupling size
	Type	Spline size	l ₁	l ₂	l _S	F	f	
42	N	25x1.25x18	42	-	-	-	-	P000205
	K	25x1.25x18	42	-	-	-	-	P500202
48	K	30x2x14	42	-	-	60	6	P500203
	N	30x2x14	50	-	-	60	6	P000206
	K	30x2x14	50	-	-	60	6	P500203
65	N	35x2x16	55	-	-	60	6	P000303
	K	35x2x16	60	-	-	60	6	P500301
	N	40x2x18	55	-	-	78	6	P000304
65	K	40x2x18	60	-	-	78	6	P500302
	K	45x2x21	55	-	-	78	6	P500401

Spline and clamping hubs to ANSI B92.1								
Size	Dimensions [mm]							Order designation specify coupling size
	Type	Spline size	l ₁	l ₂	l _S	F	f	
42	K	PH-S 5/8"	42	-	-	-	-	P558101
		16/32DP, z=9						
42	K	PI-S 3/4"	-	35	-	-	-	P559101
		16/32DP, z=11						
	K	PB-S 7/8"	42	-	-	60	3	P567101
48	K	16/32DP, z=13						
	K	PB-BS 1"	42	-	27	50	6	P660201
48	K	16/32DP, z=15						
	K	PA-S 3/8"	50	-	45	52	7	P663301
65	K	16/32DP, z=21						
	K	PA-S 3/8"	55	-	48	52	5	P663301
65	K	16/32DP, z=21						
	K	PC-S 1 1/4"	55	-	44	52	5	P656201
65	K	12/24DP, z=14						
	K	12/24DP, z=14						

Inch bores – see stock programme page 86						
Bore and keyway acc. to ANSI/AGMA 9002-C14 Bore (clearance fit) Keyway (commercial class fit)				Bore and keyway acc. to ANSI/AGMA 9002-C14 Bore (clearance fit) Keyway (commercial class fit)		
KTR Code	Bore Ø [Inch]	Width of keyway [Inch]	Bore Ø [mm]	Width of keyway [mm]	Keyway depth/ Tolerance +0.381 [mm]	Keyway depth/ Tolerance +0.381 [mm]
Tb	3/8	1/8	9.525 ^{+0.0254}	3.175 ^{+0.05}	10.972	32.105
DNB	7/16	3/32	11.112 ^{+0.0254}	2.382 ^{+0.051}	12.293	34.721
T	1/2	3/16	12.7 ^{+0.0254}	4.762 ^{+0.051}	14.757	35.331
Ta	1/2	1/8	12.7 ^{+0.0254}	3.175 ^{+0.051}	14.224	38.557
DNC	17/32	1/8	13.495 ^{+0.0254}	3.175 ^{+0.051}	15.011	39.141
Do	9/16	1/8	14.287 ^{+0.0254}	3.175 ^{+0.051}	15.824	40.767
E	5/8	1/8	15.875 ^{+0.0254}	3.175 ^{+0.051}	17.424	41.783
Es	5/8	5/32	15.875 ^{+0.0254}	3.968 ^{+0.051}	17.729	42.392
Ed	5/8	3/16	15.875 ^{+0.0254}	4.762 ^{+0.051}	18.008	45.618
DNH	11/16	3/16	17.462 ^{+0.0254}	4.762 ^{+0.051}	19.634	48.818
Ad	3/4	1/8	19.05 ^{+0.0254}	3.175 ^{+0.051}	20.624	49.428
A	3/4	3/16	19.05 ^{+0.0254}	4.762 ^{+0.051}	21.259	53.238
G	7/8	3/16	22.225 ^{+0.0254}	4.762 ^{+0.051}	24.485	54.864
F	7/8	1/4	22.225 ^{+0.0254}	6.35 ^{+0.051}	25.069	56.464
Gf	15/16	1/4	23.812 ^{+0.0254}	6.35 ^{+0.051}	26.695	59.69
H	1	3/16	25.4 ^{+0.0254}	4.762 ^{+0.051}	27.686	62.915
Hs	1	1/4	25.4 ^{+0.0254}	6.35 ^{+0.051}	28.295	67.335
R	1 1/16	3/16	26.987 ^{+0.0254}	4.762 ^{+0.051}	29.286	95.504
Sb	1 1/8	1/4	28.575 ^{+0.0254}	6.35 ^{+0.051}	31.521	101.955
Sd	1 1/8	5/16	28.575 ^{+0.0254}	7.937 ^{+0.051}	32.105	
Js	1 1/4	1/4	31.75 ^{+0.0254}	6.35 ^{+0.051}	34.721	
K	1 1/4	5/16	31.75 ^{+0.0254}	7.937 ^{+0.051}	35.331	
Ma	1 3/8	5/16	34.925 ^{+0.0254}	7.937 ^{+0.051}	38.557	
RH1	1 3/8	3/8	34.925 ^{+0.0254}	9.525 ^{+0.063}	39.141	
Cb	1 7/16	3/8	36.512 ^{+0.0254}	9.525 ^{+0.063}	40.767	
Ca	1 1/2	5/16	38.1 ^{+0.0254}	7.937 ^{+0.051}	41.783	
C	1 1/2	3/8	38.1 ^{+0.0254}	9.525 ^{+0.063}	42.392	
Nb	1 5/8	3/8	41.275 ^{+0.0254}	9.525 ^{+0.063}	45.618	
Ls	1 3/4	3/8	44.45 ^{+0.0254}	9.525 ^{+0.063}	48.818	
L	1 3/4	7/16	44.45 ^{+0.0254}	11.112 ^{+0.063}	49.428	
Lu	1 7/8	1/2	47.625 ^{+0.0254}	12.7 ^{+0.063}	53.238	
Da	1 15/16	1/2	49.212 ^{+0.0254}	12.7 ^{+0.063}	54.864	
Ds	2	1/2	50.8 ^{+0.0254}	12.7 ^{+0.063}	56.464	
Pa	2 1/8	1/2	53.975 ^{+0.0381}	12.7 ^{+0.063}	59.69	
U	2 1/4	1/2	57.15 ^{+0.0381}	12.7 ^{+0.063}	62.915	
Ub	2 3/8	5/8	60.325 ^{+0.0381}	15.875 ^{+0.076}	67.335	
Wd	3 3/8	7/8	85.725 ^{+0.0381}	22.225 ^{+0.076}	95.504	
Wf	3 5/8	7/8	92.075 ^{+0.0381}	22.225 ^{+0.076}	101.955	

The splines and inch bores specified are only a part of KTR's options. Many other variants are available, too.

Any questions? Please contact us.

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