

Metal bellows coupling with intermediate pipe I Series WDB

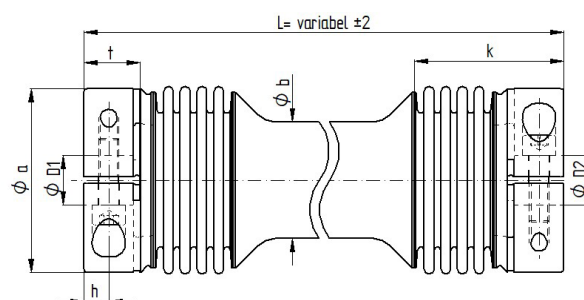
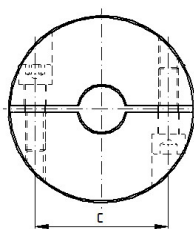
- /// variable lengths from 55 to 260 mm // without additional intermediate storage
- /// backlash-free, precise torque transmission // low mass moment of inertia
- /// special symmetrical clamping hub with high balancing quality and for high operating speeds

technical data:

WDB	nominal torque	torsional stiffness	moment of inertia	mass. approx.	max. operating speed	max. lateral shaft misalignment [mm]		f-tightening torque*
Größe	[Nm]	[Nm/arcmin]	[10 ⁻³ kgm ²]	[kg]	[min ⁻¹]	L _{min}	L _{max}	
4	4	0,3	0,008	0,1	20.000	0,4	2,9	2x M3 - 2 Nm
16	16	1	0,04	0,3	20.000	0,5	2,7	2x M5 - 8 Nm
40	40	4	0,4	1,0	17.000	0,7	2,6	2x M6 - 14 Nm
100	100	7	0,9	1,5	14.000	0,9	2,8	2x M8 - 35 Nm
200	200	13	2,4	2,7	12.000	0,9	2,9	2x M10 - 65 Nm
400	400	22	5	4	10.000	1,1	3,0	2x M12 - 115 Nm
1000	1000	62	15	6,8	8.000	1,3	3,7	2x M14 - 185 Nm

max. permissible axial misalignment: $\Delta A = \pm 1,5 \text{ mm}$ / maximum angular shaft misalignment: $\alpha = 1^\circ$

Two clamping screws per hub
with 180° arrangement



material:

Metal bellows: stainless steel 1.4571 / A4

Hubs: size 4 - 16: stainless steel 1.4301 / size 40-400: steel (S 355)

Intermediate pipe: stainless steel 1.4301

Screws: ISO 4762 Q 12.9 - coated

Dimensions [mm]: length dimensions according to DIN ISO 2768 cH

WDB	Øa	Øb	c	h	k ± 1	t	L		ØD1/2		Øprebored min.
size							min	max	min	max(*)	
4	26	15	16	5	24	10	55	200	6	12	6
16	37	22	22	6,5	35	13	75	200	8	16	6
40	57	35	40	7,5	45	15	95	200	12	32	9
100	68	48	46	9,5	49	18,5	110	220	16	35	11
200	84	58	58	12	59	22,5	125	240	20	45	15
400	101	70	65	13	68	26	145	260	28	50	19
1000	132	95	92	15	75	28	160	300	35	75	23

Øa: interfering edge – screw head

order example: WDB 200 L = 180 D1 = 32^{G7} D2 = 35^{G7}