

Metal bellows coupling with intermediate pipe I Series WDZ

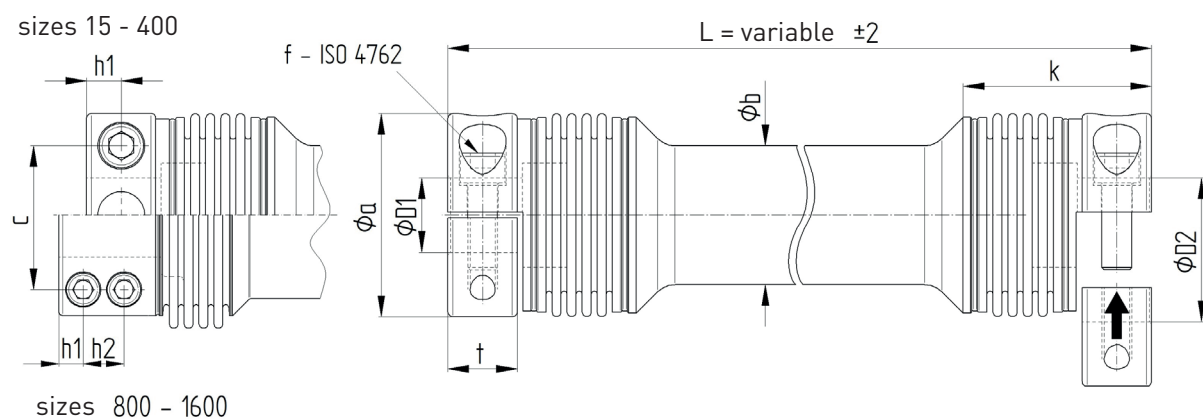
- variable lengths from 105 to 450 mm
- easy to assemble half-shell clamping hub
- backlash-free, precise torque transmission, no additional intermediate bearing
- high-speed and torsional stiffness
- low moment of inertia

technical data:

WDZ	nominal torque	torsional stiffness	moment of inertia	mass	max. operating speed	max. lateral shaft misalignment [mm]		f-tightening torque*
Size	[Nm]	[Nm/arcmin]	[10 ⁻³ kgm ²]	[kg]	[min ⁻¹]	L _{min}	L _{max}	
15	15	0,5	0,03	0,2	20.000	0,6	2,6	2x M5-8 Nm
50	50	2,8	0,32	0,7	17.000	0,6	2,8	2x M8 - 35 Nm
100	100	4	0,6	1,2	14.000	0,7	3,4	2x M10 - 65 Nm (50)
200	200	8	1,6	1,5	12.000	0,8	3,5	2x M12 - 115 Nm (80)
400	400	22	4,2	3	10.000	0,8	3,7	2x M14 - 180 Nm (140)
800	800	50	15	8,5	8.000	0,7	4,0	4x M12 - 115 Nm
1600	1600	130	55	18	6.000	0,8	4,5	4x M16 - 290 Nm

max. temperature range: -40°C bis +200°C

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



material:

metal bellows: stainless steel 1.4571 / A4

hubs: Size 15 - 400: high-tensile aluminum / size 800-1600: steel - burnished

intermediate pipe: size 15 - 400: high-tensile aluminum / size 800-1600: steel - burnished

screws: ISO 4762 Q 12.9 - beschichtet

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

WDZ	Øa	Øb	c	h1	h2	k ± 1	t	L		ØD1/2	
size								min	max	min	max(*)
15	36	20	21	9	-	52	18	105	220	6	15
50	58	37	36	13	-	66	26	130	250	8	25
100	75	44	47	13	-	68	26	135	280	12	35 (31)
200	89	56	56	14	-	76	28	150	300	18	42 (34)
400	109	74	72	15	-	84	30	165	320	24	55 (48)
800	123	87	80	13	22	93	45	190	380	24	65
1600	158	124	108	18	30	116	64	235	450	35	88

Øa: interfering edge – screw head

(*) notice: reduced tightening torque (value in brackets) for bigger shaft diameter - see D1/2max

order example: WDZ 200 L = 220 D1 = 32 F6 D2 = 35 F6