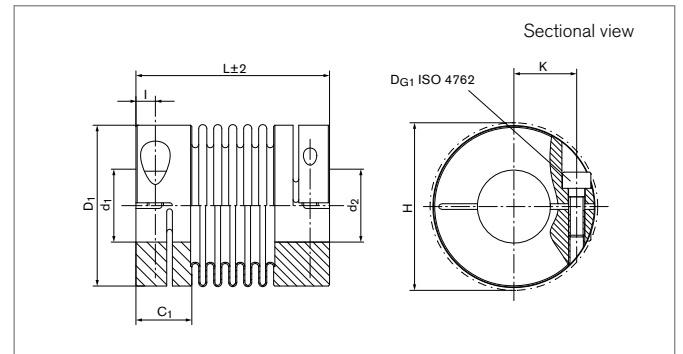


Metal Bellows Couplings

RINGFEDER® GWB DKN

Miniature metal bellows coupling with clamping hubs



Size	L	d ₁ ;d ₂ min-max	d _{1k} ;d _{2k} min-max	C ₁	D ₁	H	I	K
	mm	mm	mm	mm	mm	mm	mm	mm
4	21	3 - 8	6 - 8	6,5	16	18	2,4	5
4	24	3 - 8	6 - 8	6,5	16	18	2,4	5
4	28	3 - 8	6 - 8	6,5	16	18	2,4	5
9	23	3 - 8	6 - 8	6,5	16	18	2,4	5
9	26	3 - 8	6 - 8	6,5	16	18	2,4	5
9	30	3 - 8	6 - 8	6,5	16	18	2,4	5
15	26	3 - 10	6 - 10	8,3	20	21	3	7
15	30	3 - 10	6 - 10	8,3	20	21	3	7
20	32	3 - 14	6 - 14	10,4	25	27	3,5	9
20	38	3 - 14	6 - 14	10,4	25	27	3,5	9
20	42	3 - 14	6 - 14	10,4	25	27	3,5	9
45	41	5 - 17	6 - 17	12,5	33	34	4,5	12
45	50	5 - 17	6 - 17	12,5	33	34	4,5	12
100	47	5 - 24	6 - 24	13,2	40	42	4,8	16
100	57	5 - 24	6 - 24	13,2	40	42	4,8	16

Transmission of the couplings transmissible torque T can not longer be guaranteed for certain with borings < dmin. Types with borings < dmin, however, can be supplied.

Moment of inertia and weight (mass) are calculated with reference to the largest bore size.

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Size	T	n _{max}	C _{Tdyn}	C _r	C _a	ΔK _a	ΔK _w	ΔK _r	J	D _{G1}	T _{A1}	G _w
	Nm	1/min	10 ³ Nm/rad	N/mm	N/mm	mm	degree	mm	10 ⁻³ kgm ²	mm	Nm	kg
4	0,5	15000	0,25	128	18	0,2	1,2	0,10	0,0026	1 x M2	0,3	0,005
4	0,5	15000	0,19	54	13	0,3	2,0	0,15	0,0026	1 x M2	0,3	0,006
4	0,5	15000	0,15	26	11	0,4	2,0	0,20	0,0026	1 x M2	0,3	0,007
9	1,1	15000	0,50	187	36	0,2	1,2	0,10	0,0026	1 x M2	0,3	0,006
9	1,1	15000	0,38	82	27	0,3	2,0	0,15	0,0029	1 x M2	0,3	0,007
9	1,1	15000	0,30	42	22	0,4	2,0	0,20	0,0032	1 x M2	0,3	0,008
15	1,75	15000	0,75	139	23	0,25	1,2	0,10	0,011	1 x M2,5	0,8	0,012
15	1,75	15000	0,70	81	12	0,4	2,0	0,15	0,012	1 x M2,5	0,8	0,014
20	2,4	15000	1,50	147	18	0,3	1,2	0,10	0,025	1 x M3	1,5	0,020
20	2,4	15000	1,30	96	14	0,4	2,0	0,20	0,027	1 x M3	1,5	0,022
20	2,4	15000	1,00	46	9	0,5	2,0	0,25	0,028	1 x M3	1,5	0,024
45	5,5	15000	6,50	444	47	0,3	1,2	0,10	0,098	1 x M4	3	0,058
45	5,5	15000	4,00	108	29	0,5	2,0	0,20	0,103	1 x M4	3	0,062
100	12	15000	8,10	361	46	0,4	1,2	0,15	0,231	1 x M4	3	0,060
100	12	15000	6,70	193	34	0,5	2,0	0,25	0,250	1 x M4	3	0,070

Transmissible torque T [Nm]

Size	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9	Ø10	Ø11	Ø12	Ø13	Ø14	Ø15	Ø16	Ø17	Ø18	Ø19	Ø20	Ø21	Ø22	Ø24	
4	0,5	0,5	0,5	0,5	0,5	0,5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	0,5	0,5	0,5	0,5	0,5	0,5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	1,5	1,75	1,75	1,75	1,75	1,75	1,75	1,75	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	1,7	2,3	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	---	---	---	---	---	---	---	---	---	---	---
45	---	---	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	---	---	---	---	---	---	---
100	---	---	7	8	9	10,5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

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Explanation

L	= Total length	I	= Distance between center screw hole and hub end	ΔK_a	= Max. permissible axial misalignment
d₁;d_{2min}	= Min. bore diameter d ₁ /d ₂	K	= Distance shaft axis - clamping screw axis	ΔK_w	= Max. permissible angular misalignment
d₁;d_{2max}	= Max. bore diameter d ₁ /d ₂	T	= Transmissible torque at given T _A	ΔK_r	= Max. permissible radial misalignment
d_{1k};d_{2kmin}	= Min. bore diameter d ₁ /d ₂ with keyway acc. to DIN 6885-1	n_{max}	= Max. rotation speed	J	= Total moment of inertia
d_{1k};d_{2kmax}	= Max. bore diameter d ₁ /d ₂ with keyway acc. to DIN 6885-1	C_{Tdyn}	= Dynamic torsional stiffness	n_{Sc1}	= Quantity of screws D _{G1}
C₁	= Guided length in hub bore	C_r	= Radial spring stiffness	D_{G1}	= Thread
D₁	= Outer diameter	C_a	= Axial spring stiffness	T_{A1}	= Tightened torque of clamping screw D _{G1}
H	= Clearance diameter			Gw	= Weight

Ordering example

Series/Size	Length	Bore diameter d ₁	Bore diameter d ₂	Further details
DKN 20	42	6	10	*

* Keyway or stainless steel

More information about
RINGFEDER® GWB DKN
 on www.ringfeder.com

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