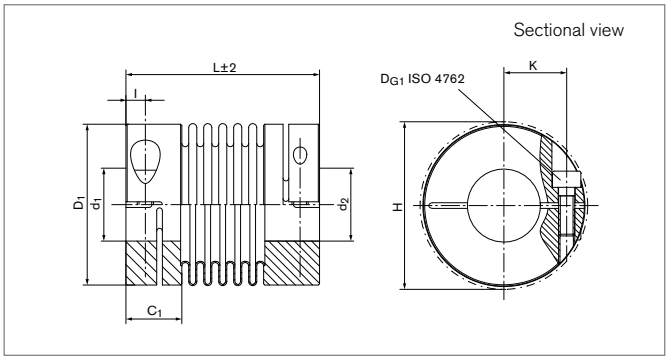
Metal Bellows Couplings
RINGFEDER® GWB DKN
Miniature metal bellows coupling with clamping hubs





Size	L	$d_1;d_2$ min-max	$d_{1k};d_{2k}$ min-max	C_1	D_1	H	l	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}	Gw
	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	0,00026	1 x M2	0,3	0,005
4	0,5	15000	0,19	54	13	0,3	2,0	0,15	0,00026	1 x M2	0,3	0,006
4	0,5	15000	0,15	26	11	0,4	2,0	0,20	0,00026	1 x M2	0,3	0,007
9	1,1	15000	0,50	187	36	0,2	1,2	0,10	0,00026	1 x M2	0,3	0,006
9	1,1	15000	0,38	82	27	0,3	2,0	0,15	0,00029	1 x M2	0,3	0,007
9	1,1	15000	0,30	42	22	0,4	2,0	0,20	0,00032	1 x M2	0,3	0,008
15	1,75	15000	0,75	139	23	0,25	1,2	0,10	0,0011	1 x M2,5	0,8	0,012
15	1,75	15000	0,70	81	12	0,4	2,0	0,15	0,0012	1 x M2,5	0,8	0,014
20	2,4	15000	1,50	147	18	0,3	1,2	0,10	0,0025	1 x M3	1,5	0,020
20	2,4	15000	1,30	96	14	0,4	2,0	0,20	0,0027	1 x M3	1,5	0,022
20	2,4	15000	1,00	46	9	0,5	2,0	0,25	0,0028	1 x M3	1,5	0,024
45	5,5	15000	6,50	444	47	0,3	1,2	0,10	0,0098	1 x M4	3	0,058
45	5,5	15000	4,00	108	29	0,5	2,0	0,20	0,0103	1 x M4	3	0,062
100	12	15000	8,10	361	46	0,4	1,2	0,15	0,0231	1 x M4	3	0,060
100	12	15000	6,70	193	34	0,5	2,0	0,25	0,0250	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	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

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Explanation

L	= Total length	**I**	= Distance between center screw hole and hub end	**ΔK_a**	= Max. permissible axial misalignment
$d_1;d_{2min}$	= Min. bore diameter d_1/d_2	**K**	= Distance shaft axis - clamping screw axis	**ΔK_w**	= Max. permissible angular misalignment
$d_1;d_{2max}$	= 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}
C_1	= Guided length in hub bore	**C_r**	= Radial spring stiffness	**D_{G1}**	= Thread
D_1	= 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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