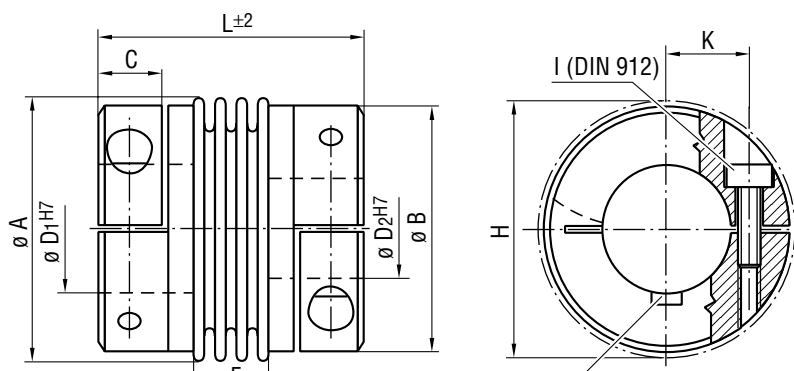


# Metal bellows couplings

## Series AKN with retaining hub and increased torsional stiffness



Keyway according to DIN 6885<sup>1)</sup> on demand

### Technical Data – Series AKN

TYPE		18	30	60	80	150	200	300	500
Nominal moment (Nm)	$T_{KN}$	18	30	60	80	150	200	300	500
Torsional stiffness ( $10^3$ Nm/rad)	$C_{T\ dyn}$	8	36	73	126	151	173	499	680
Radial spring (N/mm)	$C_r$	204	718	1125	1218	2030	2531	6328	8800
Axial spring (N/mm)	$C_a$	52	48	91	84	147	147	284	105
Moment of inertia ( $10^{-3}$ Kgm <sup>2</sup> )	$J$	0.08	0.1/0.16	0.3/0.5	1.4/2.3/2.8	1.4/2.3/2.8	2.6/4.2	4.6/6.2	9
Tightening torque of retaining screws (Nm)	$M_A$	6/6	15/12	40/30	60/55/50	80/70/50	100/80	110/90	145
Weight (ca. kg)	$m$	0.2	0.2/0.3	0.5/0.6	1.7/2.1/2.3	1.7/2.1/2.3	2.5/3.3	3.4/4.1	4.8
Max. approved misalignment									
- radial (mm)	$\Delta K_r$	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2
- axial (mm)	$\Delta K_a$	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5
- angular (degree)	$\Delta K_w$	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Max. rotating speed at $V = 30$ m/s (rpm)	$n_{max}$	12700	10200	8600	6800	6800	6300	5900	4900

### Dimensions (mm) – Series AKN

TYPE	18	30	60	80	150	200	300	500
$L_{\pm 2}$	63	65	78	91	91	100	102	110
$\varnothing A$	45	56	66	82	82	90	110	122
$\varnothing B$	45	47/56	57/66	68/80/84	68/80/84	80/90	90/96	110
C	12	15	19.5	21.5	21.5	25.5	28	29.5
$\varnothing D_1^{H7} / \varnothing D_2^{H7}$								
- min.	10/20	10/20	14/23	20/28/35	20/28/35	25/32	32/40	40
- max.	20/25	20/25	23/35	28/35/40	28/35/40	32/42	40/45	60
F	24	16	20	24	24	24	27	28
I	M5	M6	M8	M10	M10	M12	M12	M12
K	17.5	16/20	20/24	24/27/28	24/27/28	26/31	32/35	40
H (clearance diameter)	48	56	70	84	84	93	102	108

Hubs 18 to 60 made of aluminum,  
Hubs 80 to 500 made of steel, other  
materials available on request.

1) Tolerance of keyway: Standard JS9.

2) Smaller  $\varnothing$  possible for lower torque of  
transmission.

3) Stainless steel version also available.