



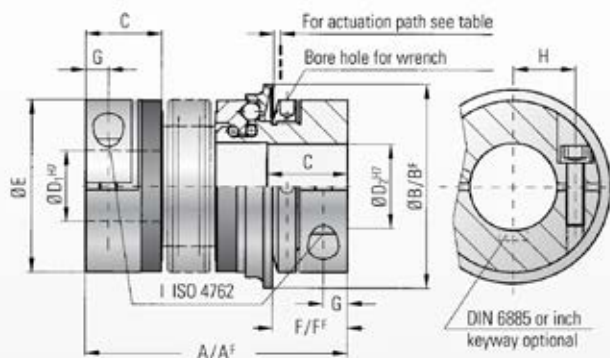
single-position
multi-position
load holding
full disengagement



MODEL SK2

BACKLASH FREE TORQUE LIMITER

with clamping hub



Material:

Bellows made of highly elastic stainless steel
Safety section: High strength hardened steel
Hub material: up to series 80 aluminium
from series 150 steel

Design:

With a single radial clamping screw per hub

Temperature range:

-30° C to +120° C

Backlash:

Absolutely backlash free as a result of the frictional clamp connection and the patented principle

Service life:

These coupling are maintenance free and have extreme service life as long as the performance limits are not exceeded.

Fit tolerance:

Tolerance between hub and shaft 0.01-0.05 mm

Model SK 2	Series													
	1.5	2	4.5	10	15	30	60	80	150	200	300	500	800	1500
Adjustment range possible from - to (approx. values) (Nm)	T_{KN} 0.1-0.6 0.4-1 0.8-1.5	0.2-1.5 or 0.5-2	1-3 or 3-6	2-6 or 4-12	5-20	10-25 or 20-40	10-30 or 25-80	20-70 or 30-90	40-160	30-90 60-160 120-240	100-200 200-350 300-500	80-200 200-350 300-500	400-650 500-800 650-850	650-800 700-1200 1000-1800
Adjustment range possible from - to (approx. values) (full disengagement) (Nm)	T_{KN} 0.3-0.8 or 0.6-1.3	0.5-2	2.5-4.5	2.5 or 5-10	7-15	8-20 or 16-30	20-40 or 30-60	20-60 or 40-80	80-150	60-140 or 130-200	120-180 or 180-300	60-150 100-300 250-500	200-400 or 450-800	1000-1250 or 1250-1500
Overall length (mm)	A	42 46 51	57 65	65 74	75 82	87 95	102 112	115 127	116 128	128 140	139 153	163 177	190	223
Overall length, (full disengagement) (mm)	A'	42 46 51	57 65	65 74	75 82	87 95	102 112	117 129	118 130	131 143	142 156	167 181	201	232
Actuation ring Ø (mm)	B	23 29	35 45	55	65	73	92	92	99	120	135	152	174	
Actuation ring Ø (full disengagement) (mm)	B'	24 32	42 51.5	62	70	83	98	98	117	132	155	177	187	
Fit length (mm)	C	11 13	16 16	22	27	31	35	35	40	42	51	48	67	
Inner diameter from Ø to Ø H7 (mm)	D ₁ /D ₂	3-8 4-12	5-14 6-20	10-26	12-30	15-32	19-42	19-42	24-45	30-60	35-60	40-75	50-80	
Outer diameter of coupling (mm)	E	19 25	32 40	49	55	66	81	81	90	110	123	134	157	
Distance (mm)	F	12 13	15 17	19	24	30	31	31	35	35	45	50	63	
Distance (full disengagement) (mm)	F'	11.5 12	14 16	19	22	29	31	30	33	35	43	54	61	
Distance (mm)	G	3.5 4	5 5	6.5	7.5	9.5	11	11	12.5	13	17	18	22.5	
Distance between centers (mm)	H	6 8	10 15	17	19	23	27	27	31	39	41	2x48	2x55	
ISO 4762 screws	I	M2.5 M3	M4 M4	M5 M5	M6 M6	M8 M8	M10 M10	M10 M10	M12 M12	M12 M12	M16 M16	2xM16	2xM20	
Tightening torque (Nm)	I	0.85 2	4 4.5	8 15	40 50	70 120	130 200	250 470						
Approx. weight (kg)		0.035 0.07	0.2 0.3	0.4 0.6	1.0 2.0	2.4 4.0	5.9 9.6	14 21						
Moment of inertia (10 ⁻³ kgm ²)	J _{rot}	0.01 0.01 0.01	0.02 0.02	0.06 0.07	0.10 0.15	0.27 0.32	0.75 0.80	1.80 1.90	2.50 2.80	5.10 5.30	11.5 11.8	22.8 23.0	42.0 83.0	
Torsional stiffness (10 ⁶ Nm/rad)	C _T	0.02 1.2 1.3	7 5 9 8	20 15 38 28	76 55 129 86	175 110 191 140	420 350 510 500	780 1304						
Lateral misalignment max. (mm)		0.15 0.15 0.20	0.20 0.25	0.20 0.30	0.15 0.20	0.20 0.25	0.20 0.25	0.20 0.25	0.20 0.25	0.25 0.30	0.25 0.30	0.30 0.35	0.35 0.35	
Angular misalignment max. (degrees)		1 1 1.5	1.5 2	1.5 2	1 1.5	1 1.5	1 1.5	1 1.5	1 1.5	1.5 2	1.5 2	2 2.5	2.5 2.5	
Lateral spring stiffness (N/mm)		70 40 30	290 45	280 145	475 137	900 270	1200 420	920 255	1590 435	2040 610	3750 1050	2500 940	2000 3600	
Actuation path (mm)		0.7 0.8	0.8 1.2	1.5 1.5	1.7 1.9	1.9 2.2	2.2 2.2	2.2 2.2	2.2 2.2	2.2 2.2	2.2 2.2	2.2 2.2	3	

A', B', F' = Full disengagement version

(smaller sizes on request)