

optional
stainless steel

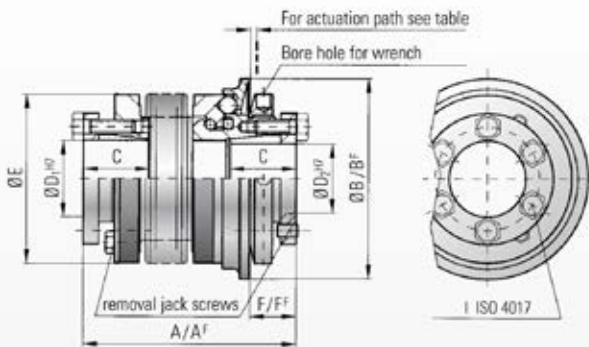
single-position
multi-position
load holding
full disengagement

MODEL SK3

BACKLASH FREE TORQUE LIMITER



with tapered clamp connection



Material:

Bellows made of highly elastic stainless steel
Safety section: High strength hardened steel.
Hub material: Steel

Design:

With slotted tapered conical sleeves and removal jack screws

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 3	Series										
		15	30	60	150	200	300	500	800	1500	2500
Adjustment range possible from (approx. values) (Nm)	T _{EN}	5-20	10-25 or 20-40	10-30 or 25-80	20-70 or 45-150 or 80-200	30-90 or 80-160 or 140-280	100-200 or 150-240 or 220-400	80-200 or 200-350 or 300-500	400-850 or 500-800 or 600-900	650-850 or 700-1200 or 1000-1800	1500-2000 or 2000-2500 or 2300-2800
Adjustment range possible from (approx. values) (full disengagement) (Nm)	T _{EN}	7-15	8-20 or 16-30	20-40 or 30-60	20-60 or 40-80 or 80-150	80-140 or 40-80 or 130-200	120-180 or 100-300 or 180-300	60-150 or 100-300 or 250-500	200-400 or 450-800	1000-1250 or 1250-1500	1400-2200 or 1800-2700
Overall length (mm)	A	62 69	72 80	84 94	93 105	99 111	114 128	123 136	151	175	246
Overall length (full disengagement) (mm)	A ^f	62 69	72 80	84 94	93 105	102 114	117 131	127 140	151	184	252
Actuation ring Ø (mm)	B	55	65	73	92	99	120	135	152	174	243
Actuation ring Ø (full disengagement) (mm)	B ^f	62	70	83	98	117	132	155	177	187	258
Fit length (mm)	C	19	22	27	32	32	41	41	49	61	80
Inner diameter from Ø to Ø H7 (mm)	D ₁ /D ₂	10-22	12-23	12-29	15-37	20-44	25-56	25-60	30-60	35-70	50-100
Outer diameter of coupling (mm)	E	49	55	66	81	90	110	123	133	157	200
Distance (mm)	F	13	16	18	19	19	23	25	31	30	37
Distance (full disengagement) (mm)	F ^f	13	14	17	18	17	20	22	20	26	31
6x ISO 4017	I	M4	M5	M5	M6	M6	M8	M8	M10	M12	M16
Tightening torque (Nm)	I	4	6	8	12	14	18	25	40	70	120
Approx. weight (kg)		0.3	0.4	1.2	2.3	3.0	5.0	6.5	9.0	16.3	35
Moment of inertia (10 ⁻⁴ kgm ²)	J _{res}	0.10 0.15	0.28 0.30	0.75 0.80	1.90 2.00	2.80 3.00	5.50 6.00	11.0 12.8	20.00	42.00	257
Torsional stiffness (10 ³ Nm/rad)	C _T	20 15	39 28	76 55	175 110	191 140	420 350	510 500	780	1304	3400
Lateral misalignment max. (mm)		0.15 0.20	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	0.35
Angular misalignment max. (degrees)		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	2.5
Lateral spring stiffness (N/mm)		475 137	900 270	1200 380	1550 435	2040 610	3750 1050	2500 840	2000	3600	6070
Actuation path (mm)		1.5	1.5	1.7	1.9	2.2	2.2	2.2	2.2	3	3

A^f, B^f, F^f = Full disengagement version