optional stainless steel

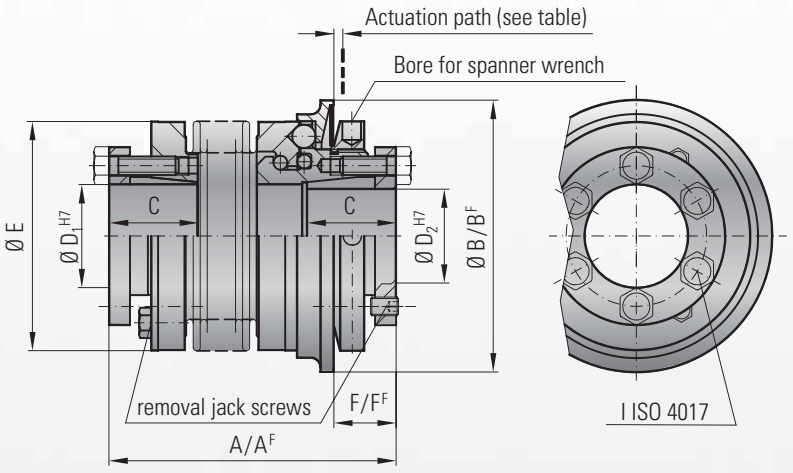
single-position
multi-position
load holding
full disengagement

Production monitored Type Testet

MODEL **SK3**

BACKLASH FREE TORQUE LIMITER

with tapered conical connection



Material:
Bellows made of highly elastic stainless steel
Torque limiter section: High strength hardened steel
Hub material: Steel

Design:
With tapered conical clamp and removal jack screws.

Absolutely backlash free through frictional clamping connection

Temperature range:
-30 to +100° C

Service life:
Maintenance free when operated within the technical specifications

Fit tolerance:
Tolerance between hub and shaft 0.01 – 0.05 mm

Ordering specifications: see page 15

Optional sealed version for food-grade applications (see page 26)

Optional ATEX Certification (see page 19)

Model SK 3			Series																	
			15		30		60		150		200		300		500		800	1500	2500	
Adjustment range available from (approx. values)	(Nm)	T_{KN}	5-10 or 8-20		10-25 or 20-40		10-30 or 25-80		20-70 45-150 80-200		30-90 60-160 140-280		100-200 150-240 220-400		80-200 200-350 300-500		400-650 500-800 600-900	650-850 700-1200 1000-1800	1500-2000 2000-2500 2300-2800	
Adjustment range available from (approx. values) ("F" Version)	(Nm)	T_{KN}	7-15		8-20 or 16-30		20-40 or 30-60		20-60 40-80 80-150		80-140 or 130-200		120-180 or 160-300		60-150 100-300 250-500		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 ("F" Version)	(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 ("F" Version)	(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	34	
Distance ("F" Version)	(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)		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^{-3} kgm²)	J_{ges}	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	42	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	± (mm)	max. values	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	± (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

(larger sizes upon request)