

optional  
stainless  
steel

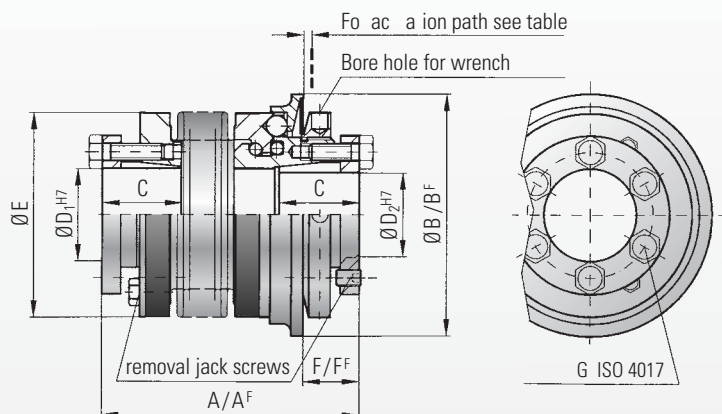
single-position  
multi-position  
load holding  
full disengagement



# MODEL SK3

## BACKLASH FREE TORQUE LIMITER

with tapered clamp connection



Optional sealed version for wash down and foodservice application. See page 16.

**Material:**

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

**Design:**

With slitted 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 R+W principle

**Service life:**

These couplings 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

**Ordering specifications:**

see page 11

Model SK 3		Series																			
		15		30		60		150		200		300		500		800		1500		2500	
Adjustment range possible from (approx. values)	(Nm)	$T_{KN}$		5-20	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 possible from (approx. values) (full disengagement)	(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 180-300	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 (full disengagement)	(mm)	A <sup>F</sup>	62	69	72	80	84	94	93	105	102	114	117	131	127	140	151	184	252		
Actuation ring	(mm)	B	55		65		73		92		99		120		135		152		174		243
Actuation ring (full disengagement)	(mm)	B <sup>F</sup>	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 to 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 <sup>F</sup>	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 ( $10^{-3}$ kgm <sup>2</sup> )		$J_{ges}$	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	20.00		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	(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	(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<sup>F</sup>, B<sup>F</sup>, F<sup>F</sup> = Full disengagement version