

Optional:



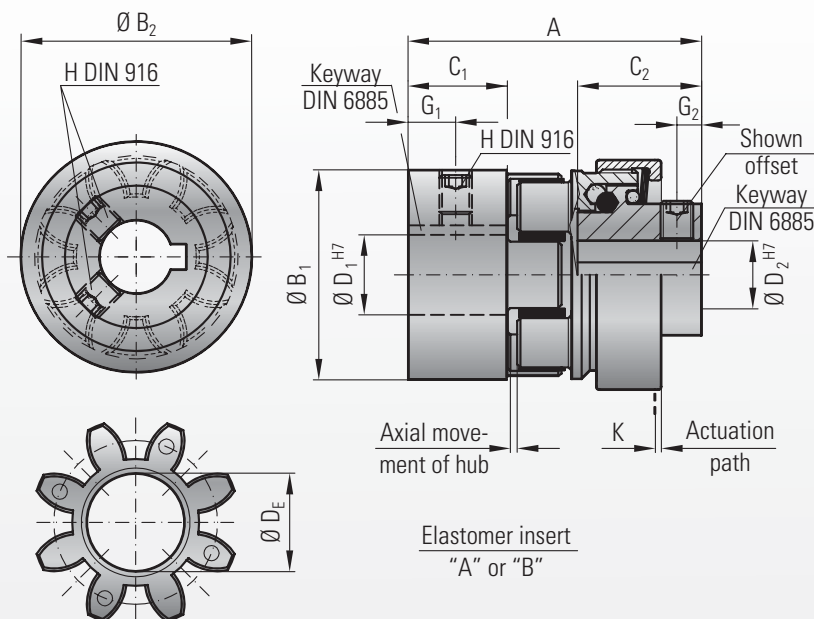
ratcheting



MODEL ESL

LOW BACKLASH TORQUE LIMITERS

with keyway connection



Material:

Torque limiting portion: high-strength steel
Clutching balls: hardened steel
Clamping hubs: high-strength aluminum
Elastomer insert: precision molded, wear-resistant, thermally stable polymer

Design:

Zero backlash elastomer coupling with integral torque limiter. All sizes available in standard multi-position design.

Speed:

Negligible abrasion with disengagement speeds up to 200 rpm
Higher speeds available upon request

Fit tolerance:

Tolerance between hub and shaft 0.01 – 0.05 mm

MODEL ESL		Series									
		5		10		20		60		150	
Type (Elastomer insert)		A	B	A	B	A	B	A	B	A	B
Rated torque (Nm)	T _{Kn}	9	12	12.5	16	17	21	60	75	160	200
Torque setting possible* from - to (Nm)	T _{Kn}	1-6		1-12		3-19		5-60		20-150	
Overall length (mm)	A	34		45		64		80		90	
Diameter of the hub (mm)	B ₁	25		32		42		56		66.5	
Diameter of the hub (mm)	B ₂	29		32		46		59		75	
Hub fit length (mm)	C ₁	12.5		12		25		30		35	
Hub fit length (mm)	C ₂	11.5		20		22		31		35	
Inside diameter from Ø to Ø H7 (mm)	D ₁	6-15		6-18		8-25		12-32		19-38	
Inside diameter from Ø to Ø H7 (mm)	D ₂	6-10		6-12		8-19		12-24		19-32	
Inside diameter max. (elastomer) (mm)	D _E	10.5		14.2		19.2		26.2		29.2	
Distance (mm)	G ₁	5		6		9		11		12	
Distance (mm)	G ₂	2.5		3.5		4		4		4	
Screws DIN 916**	I	depending on bore diameter see below table									
Approx. weight (kg)		0.05		0.15		0.2		0.5		1	
Moment of inertia (10 ⁻³ kgm ²)	J ₁ / J ₂	0.01		0.02		0.08		0.15		0.5	
Actuation path (mm)	K	0.6		0.6		0.7		1.1		1.4	

*Torque setting not adjustable. Information about static and dynamic torsional stiffness as well as max. possible misalignment see page 16

Ordering specifications

ESL / 10 / A / 14 / 12 / 10 / XX

Model

Series

Type of elastomer

Bore D1 H7 with keyway

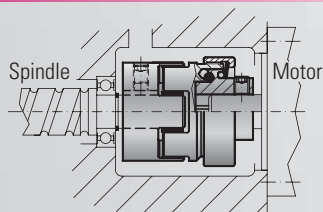
Bore D2 H7 with keyway

Disengagement torque Nm (factory set – non-adjustable)

Non-standard e.g. Stainless steel

All data is subject to change without notice.

Installation instructions



Disengagement torque setting

The ESL torque limiter is factory preset at the required disengagement torque and is not adjustable.

** Set screw

D_1/D_2	I
- Ø 10	M3
Ø 11-12	M4
Ø 13-30	M5
Ø 31-58	M8
Ø 59-80	M10

Bore sizes < Ø 6 are manufactured without a keyway