

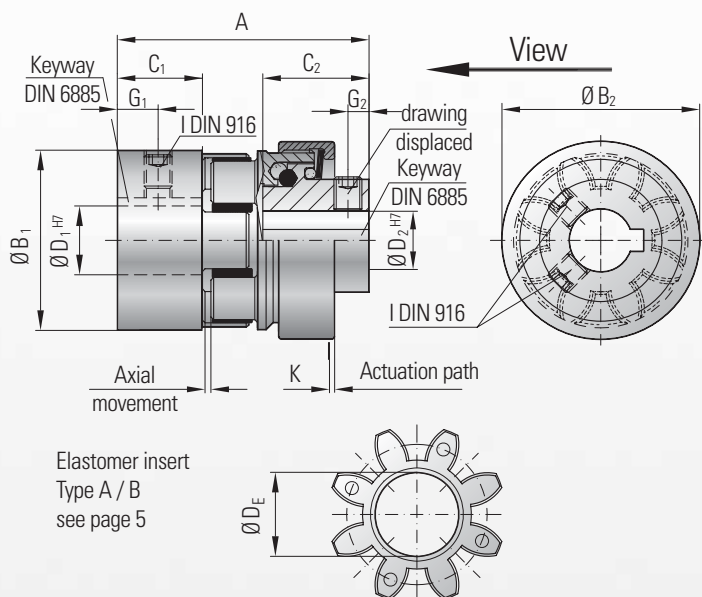
optional
stainless steel

MODEL ESL

LOW BACKLASH TORQUE LIMITERS



„Economy Class“



Properties:

- reliable torque overload protection
- compact simple design
- multi position engagement
- low wear
- economically priced

Material:

Torque limiter: high strength steel.
Detent balls made of hardened steel.
Clamping hubs: high strength aluminum.
Elastomer insert: precision molded, wear resistant and thermally stable polymer.

Design:

Our zero backlash elastomer coupling incorporated with a torque limiter. Available function system for all series: multi-position.

Speed:

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

Fit tolerance:

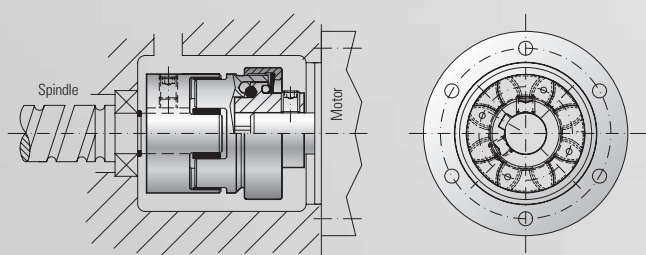
On the hub/shaft connection 0.01 to 0.05 mm.

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
Adjustment range* (Nm)	Nm	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	
Fit length (mm)	C_1	12.5		12		25		30		35	
Fit length (mm)	C_2	11.5		20		22		31		35	
Inner diameter from \emptyset to \emptyset H7 (mm)	D_1	6-15		6-18		8-25		12-32		19-38	
Inner diameter from \emptyset to \emptyset H7 (mm)	D_2	6-10		6-12		8-19		12-24		19-32	
Inner diameter max. (elastomer) (mm)	D_E	10.5		14.2		19.2		26.2		29.2	
Distance (mm)	G	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 page 12									
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		1		0.6		1.2		1.2	

* Adjustment range preset by R+W / fixed disengagement torque.

Information about static and dynamic torsional stiffness as well as max. possible misalignment see page 5

Installation instruction



Ordering example

ESL / 10 / A / 14 / 12.7 / 10 / XX

Model	ESL
Series	10
Type elastomer insert	A
Bore \emptyset D1 H7 with keyway	14
Bore \emptyset D2 H7 with keyway	12.7
Disengagement torque Nm	10
Non standard e.g. stainless steel	XX

All data is subject to change without notice.