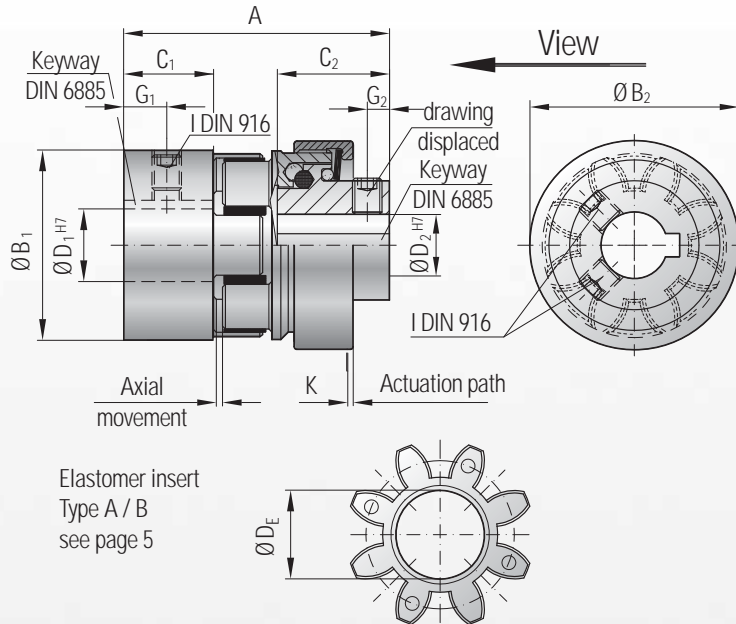




MODEL ESL

LOW BACKLASH TORQUE LIMITERS



Elastomer insert
Type A / B
see page 5



„Economy Class“

Properties:

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

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:

The R+W SERVOMAX elastomer coupling with integral multi position torque limiter.

Speed:

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

Tolerance:

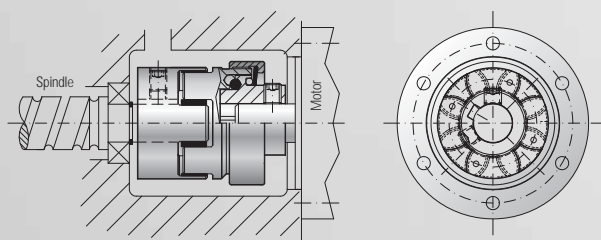
Overall clearance between shaft and hub 0.01 to 0.05 mm.

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 _{in}	9	12	12.5	16	17	21	60	75	160	200
Preset torque 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	
Inside diameter range H7 (mm)	D ₁	6-15		6-18		8-25		12-32		19-38	
Inside diameter range H7 (mm)	D ₂	6-10		6-12		8-19		12-24		19-32	
Inside diameter of elastomer (mm)	D ₃	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	

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

* Disengagement torque is preset by R+W, and is not adjustable

Installation instruction



Ordering example

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

Model
Series
Type elastomer insert
Bore Ø D1 H7 with keyway
Bore Ø D2 H7 with keyway
Disengagement torque Nm
Non standard e.g. stainless steel

All data is subject to change without notice.