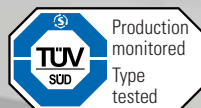




single-position
multi-position
full disengagement

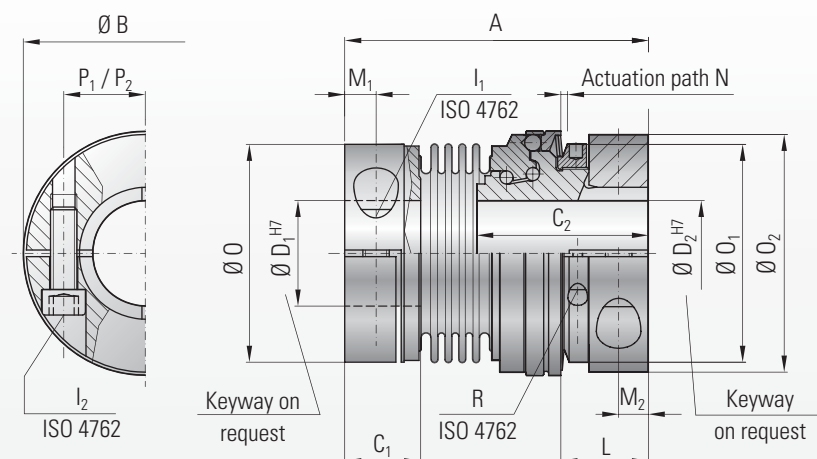


MODEL SL2



BACKLASH FREE TORQUE LIMITER

with clamping hubs and metal bellows



Design:

Clamping hub with one ISO 4762 screw per hub. Components of compact and rigid design with backlash free interface. Misalignment compensation via torsionally rigid bellows

Temperature range: -30 to +100°C

Service life: These couplings are maintenance free and stable over their entire service life if technical limits are not exceeded

Fit tolerance: Overall clearance between shaft and hub 0.01-0.05 mm

Function system:

W = single position engagement (standard)

D = multi position engagement every 60° (30, 45, 90° optional)

F = full disengagement on request

Model SL2			Series								
			30		60		150		300		
Adjustment range* from - to	(Nm)	T_{KN}	10-35	30-80	20-50	40-100	40-100	100-200	100-250	200-350	300-400
Overall length	(mm)	A	80		93		112		126		
Actuation ring diameter	(mm)	B	63		74		92		118		
Hub length	(mm)	C_1/C_2	21/45		23/53		28 / 63		34/72		
Bore diameter from Ø to Ø H7	(mm)	D_1/D_2	12-32/12-30		16-35 / 16-35		19-42 / 19-48		22-60 / 22-60		
ISO 4762 screw	(mm)	I_1/I_2	M6		M8		M10		M12		
Tightening torque	(Nm)		15		40		75		130		
Distance to actuation ring edge	(mm)	L	22		27		32		35		
Distance	(mm)	M_1/M_2	7.5/7.5		9.5/9		11/11		13/12		
Actuation path	(mm)	N	1.3		1.5		1.8		2		
Clamping hub Ø, (coupling end)	(mm)	O	55.5		66		82		110		
Adjustment nut Ø	(mm)	O_1	55		66		82		100		
Clamping ring Ø, (torque limiter end)	(mm)	O_2	59		72		90		112		
Distance between centers, bellows side/safety element	(mm)	P_1/P_2	20/21.5		23 / 25		27/33		39/41		
Adjustment nut's clamp screw ISO 4762		R	M3		M3		M3		M4		
Tightening torque	(Nm)		2		2		2		4.5		
Approx. weight	(kg)		0.4		0.7		1.2		2.5		
Approx. moment of inertia at D max. (10^{-3} Kg m^2)		J_{ges}	0.2		0.8		1.4		6.2		
Torsional stiffness (10^3 Nm/rad)			31		72		141		157		
Lateral ± max. (mm)			0.2		0.2		0.2		0.25		

* max. transmittable torque depends on the bore diameter; see table on page 4.

(1Nm = 8.85 in lbs)

max. misalignment for bellows



Angular misalignment
± 1°



Axial misalignment
± 2 mm



Lateral misalignment
see table above

Ordering specifications

SL2 / 060 / W / 30 / 20 / 80 / 40-100 / XX

Model
Series
Function system
Bore Ø D1H7
Bore Ø D2H7
Disengagement torque (Nm)
Adjustment range (Nm)
Special feature, e.g. stainless steel