optional stainless steel

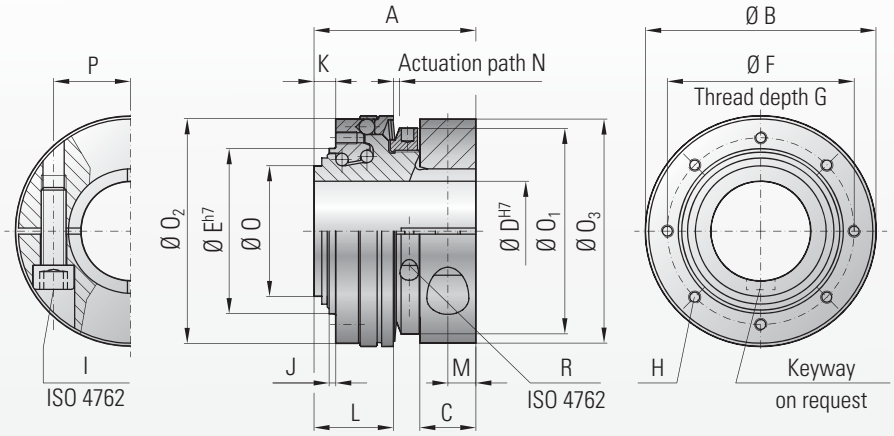
single-position
multi-position
full disengagement

MODEL **SLN**

Production monitored
Type tested

BACKLASH FREE TORQUE LIMITER

with clamping hub



Design:
With clamp collar and screw per ISO 4762
Components of compact and rigid design with backlash free interface

Temperature range: -30 to +120°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 disengagemnt on request

Model SLN			Series											
			30			60			150			300		
Adjustment range* from - to	(Nm)	T_{KN}	10-35	30-80	40-135	30-80	60-120	100-200	40-100	100-200	150-300	200-350	300-450	400-550	550-700
Overall length	(mm)	A	45			53			63			72			
Actuation ring Ø	(mm)	B	63			74			92			118			
Clamping fit length	(mm)	C	15			18			22			24			
Bore diameter from Ø to Ø H7	(mm)	D	12-30			16-35			19-48			22-60			
Bore diameter with keyway DIN 6885 from Ø to Ø H7		D	12-25.4			16-32			19-44			22-54			
Centering diameter h7	(mm)	E	43			53			68			85			
Bolt-hole circle diameter ± 0.2	(mm)	F	48			60			75			95			
Thread depth +1	(mm)	G	5			6			7			9			
Fastening threads		H	8x M4			8x M4			8x M5			8x M6			
ISO 4762 screw		I	M6			M8			M10			M12			
Tightening torque	(Nm)		15			40			75			130			
Centering length -0.2	(mm)	J	2			2			3			3			
Distance	(mm)	K	6			7			9			9			
Distance to actuation ring edge	(mm)	L	23			26			32			36			
Distance	(mm)	M	7.5			9			11			12			
Actuation path	(mm)	N	1.3			1.5			1.8			2			
Base element Ø	(mm)	O	35			42			54			70			
Adjustment nut Ø	(mm)	O_1	55			66			82			100			
Flange Ø -0.2	(mm)	O_2	58			72			87			110			
Clamping hub Ø	(mm)	O_3	59			72			90			112			
Distance between centers	(mm)	P	21.5			25			33			41			
Adjustment nut's clamp screw ISO 4762		R	M3			M3			M3			M4			
Tightening torque	(Nm)		2			2			2			4.5			
Approx. weight	(kg)		0.3			0.5			0.8			1.5			
Approx. moment of inertia at D max	(10^{-3} Kgm^2)	J_{ges}	0.15			0.3			1			3			

(1Nm = 8.85 in lbs)

* max. transmittable torque depends on the bore diameter; see table below:

Maximum transmittable torque in relation to bore diameter

Series	Ø 12	Ø 15	Ø 20	Ø 25	Ø 30	Ø 35	Ø 40	Ø 45	Ø 50	Ø 55	Ø 60
30	30	55	80	110	130						
60		80	120	160	200	220					
150			200	250	300	350	400	450			
300				350	430	510	590	670	750	830	910

Higher torque ratings possible with key / keyway