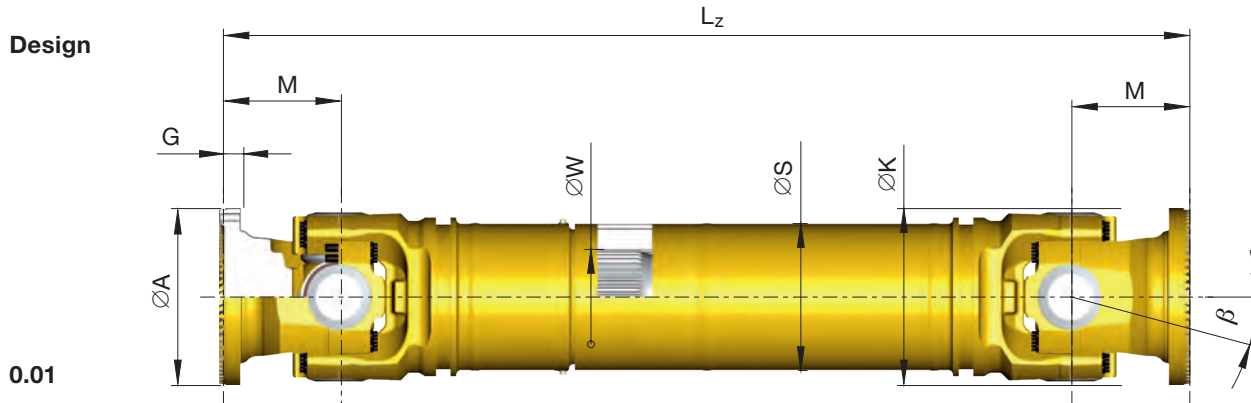


Data sheet series 492 Maximum torque capacity

- 0.01 with length compensation, tubular design
- 0.03 without length compensation, tubular design
- 9.01 with length compensation, short design

- 9.02 with length compensation, short design
- 9.03 with length compensation, short design
- 9.04 without length compensation, double flange shaft design



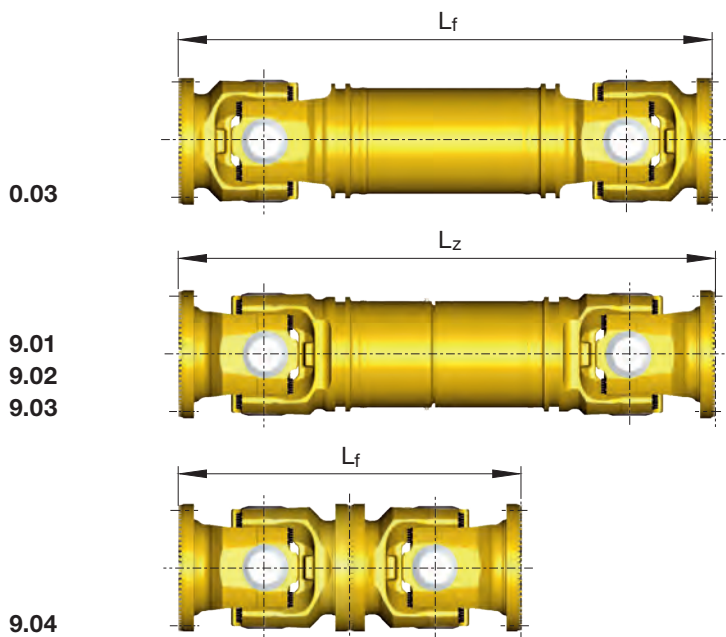
Shaft size		492.60	492.65	492.70	492.75		492.80		492.85		492.90	
T_{CS}	kNm	210	250	340	440	410	650	580	850	770	1.300	1.170
T_{DW}	kNm	100	115	160	210	190	280	250	400	360	600	540
L_c	-	110	330	855	2.120		7.390		17.370		60.120	
β	°	7	7	7	10	15	10	15	10	15	10	15
A	mm	285	315	350	390		435		480		550	
K	mm	285	315	350	390		435		480		550	
B	mm	255	280	315	350		395		445		510	
G	mm	35	35	40	45		50		55		65	
H	mm	15	17	17	19		19		21		23	
l ¹⁾	-	10	10	12	12		16		16		16	
M	mm	200	220	240	260		280		300		330	
S	mm	244,5 x 22,2		254 x 36	292 x 36		323,9 x 36		355,6 x 40		406,4 x 40	
W <i>DIN 5480</i>	mm	185 x 5		185 x 5	210 x 5		210 x 5		210 x 5		240 x 5	

T_{CS} = Functional limit torque*
 Yield torque 30% over T_{CS}
T_{DW} = Reversing fatigue torque*
L_c = Bearing capacity factor*

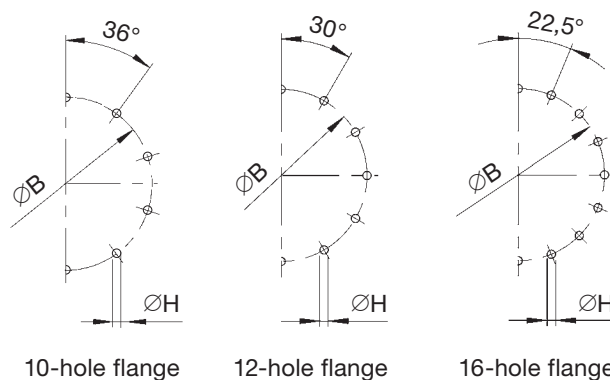
* See specifications of driveshafts.
 β = Maximum deflection angle per joint
 1) Number of flange holes

Data sheet series 492 Maximum torque capacity

Design



Flange connection with Hirth-serration



Each driveshaft size has a specific hole pattern (see table). Other hole patterns available on request.

Design	Shaft size		492.60	492.65	492.70	492.75	492.80	492.85	492.90
0.01	L _{z min}	mm	1.440	1.520	1.680	1.750	1.900	2.130	2.415
	L _a	mm	135	135	150	170	170	190	210
	G	kg	472	568	788	1.025	1.355	1.873	2.750
	G _R	kg	121,7	193,5	227,3	255,6	311,3	361,4	501,9
	J _m	kgm ²	4,16	5,16	7,73	15	30,7	50,4	92,7
	J _{mR}	kgm ²	1,52	2,36	3,80	5,38	7,88	12,28	21,1
	C	Nm/rad.	3,32 x 10 ⁶	4,31 x 10 ⁶	5,97 x 10 ⁶	6,76 x 10 ⁶	9,7 x 10 ⁶	13,64 x 10 ⁶	19,44 x 10 ⁶
	C _R	Nm/rad.	1,55 x 10 ⁷	2,41 x 10 ⁷	3,87 x 10 ⁷	5,48 x 10 ⁷	8,03 x 10 ⁷	12,51 x 10 ⁷	21,5 x 10 ⁷
0.03	L _{f min}	mm	940	1.020	1.130	1.220	1.320	1.450	1.620
	G	kg	311	407	557	819	1.040	1.330	1.880
	G _R	kg	121,7	193,5	227,3	255,6	311,3	361,4	501,9
9.01	L _z	mm	1.380	1.460	1.620	1.700	1.840	2.050	2.340
	L _a	mm	135	135	150	170	170	190	210
	G	kg	465	559	777	1.010	1.340	1.850	2.710
9.04	L _f	mm	800	880	960	1.040	1.120	1.200	1.320
	G	kg	284	374	479	590	870	1.190	1.734

L_{z min} = Shortest possible compressed length
 L_a = Length compensation
 L_{f min} = Shortest fixed length
 L_z + L_a = Maximum operating length

G = Weight of shaft
 G_R = Weight per 1.000 mm tube
 J_m = Moment of inertia
 J_{mR} = Moment of inertia per 1.000 mm tube

C = Torsional stiffness of shaft without tube
 C_R = Torsional stiffness per 1.000 mm tube

Length dimensions (L_z/L_a) of the designs 0.02 · 9.02 · 9.03 available on request.