CURFLEX

Curved Tooth Coupling

Compañía Internacional Transmisiones

- Light, compact and easy to assemble.
- Long life without lubrication and maintenance.
- Good dynamic proprieties.
- Available with hubs made of Aluminium, Cast iron (GG25) and Steel (St) with ANTICORROSIVE TREATMENT (GG25-PHOSPHATED, St- ZINC PLATED).
- Elastic insert made of two different hardnesses.
- Reduction of intermittent short period torsional shocks, vibration and y noise.
- Compensation of axial, radial and angular displacements, thanks to polyurethane material and curved form of the insert.
- Prevention from accidental stops: continues working even in case of insert failure.
- Resistance to oils, greases, solvents and atmospheric effects (incl. ozone and hydrolysis in tropical conditions).
- Aplications in hydraulic equipment and general mechanical transmission.

Torque range

Size	Torque (Nm) 92 Sh A - YELLOW		Torque (Nm) 95-98 Sh A – RED[1]		Max. speed[2]	
	Cont.	Max.	Cont.	Max.	V=30 m/s	V=40 m/s
	Tkn	Tkmax	Tkn	Tkmax		
19	10	20	17	34	14.000	19.000
24	35	70	60	120	10.600	14.000
28	95	190	160	320	8.500	11.800
38	190	380	325	650	7.100	9.500
42	265	530	450	900	6.000	8.000
48	310	620	525	1.050	5.600	7.100
55	410	820	685	1.370	4.750	6.300
65	625	1.250	940	1.880	4.250	5.600
75	1.280	2.560	1.920	3.840	3.550	4.750
90	2.400	4.800	3.600	7.200	2.800	3.750
100	-	-	4.950	9.900	2.500	3.350
110	-	-	7.200	14.400	2.200	2.950
125	-	-	10.000	20.000	1.950	2.600

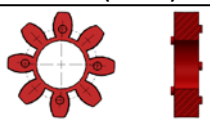
[1]The hardness for red colour insert sizes between 19 and 55 is 98 Shore A. For sizes from 65 to 90 the hardness is 95 shore A.

[2]Peripheral speed of over v=30m/s requires compulsory steel hubs.

INSERTS

Hardness	Colour	Material	Compatible hub materials	Temperature range	
				Standard	Maximum (short period)
92 Sh A	Yellow	Polyurethane	GG25, Aluminium, Steel	-40º C – +90º C	-50º C – 120º C
98 Sh A[1]	Red	Polyurethane	GG25, Steel	-30º C – +90º C	-40º C – +120º C

92 Shore A (Yellow)



95/98 Shore A (Red)

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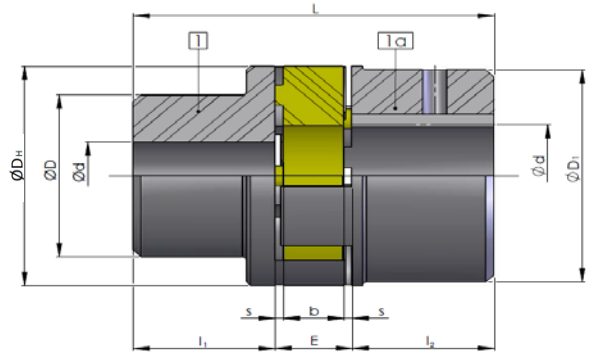
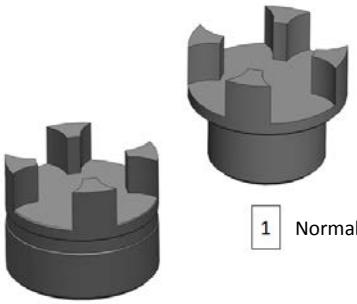


HUBS



1 Normal (Type A)

1a Wide (Type B)

Material: Aluminium

Size	Hub	Ød	Dimensions (mm)						
	(type A-B)	(Min-Max)	L	L_1:L_2	E	b	s	D_H	ØD:ØD_1
19	A	06-19	66	25	16	12	2	41	32
	B	19-24							41
24	A	09-24	78	30	18	14	2	56	40
	B	22-28							56
28	A	10-28	90	35	20	15	2,5	66	48
	B	28-38							66
38	B	38-45	114	45	24	18	3	80	75

Material: Cast Iron (GG25) - PHOSPHATED

Size	Hub	Ød	Dimensions (mm)						
	(type A-B)	(Min-Max)	L	L_1:L_2	E	b	s	ØD_H	ØD:ØD_1
38	A	12-38	114	45	24	18	3	80	66
	B	38-45							78
42	A	14-42	126	50	26	20	3	95	75
	B	42-55							94
48	A	15-48	140	56	28	21	3,5	105	85
	B	48-60							104
55	A	20-55	160	65	30	22	4	120	98
	B	55-70							118
65	A	22-65	185	75	35	26	4,5	135	115
75	A	30-75	210	85	40	30	5	160	135
90	A	40-90	245	100	45	34	5,5	200	160

Material: Steel (St) – ZINC PLATED

Size	Hub	Ød	Dimensions (mm)						
	(type B)	(Min-Max)	L	L_1:L_2	E	b	s	ØD_H	ØD:ØD_1
19	B	0-25	66	25	16	12	2	40	40
24	B	0-35	78	30	18	14	2	55	55
28	B	0-40	90	35	20	15	2,5	65	65
38	B	0-48	114	45	24	18	3	80	70
42	B	0-55	126	50	26	20	3	95	85
48	B	0-62	140	56	28	21	3,5	105	95
55	B	0-74	160	65	30	22	4	120	110
65	B	0-80	185	75	35	26	4,5	135	115
75	B	0-95	210	85	40	30	5	160	135
90	B	0-110	245	100	45	34	5,5	200	160

Material: Ductile Iron (GGG40) - PHOSPHATED

Size	Hub	Ød	Dimensions (mm)						
	(type A)	(Min-Max)	L	L_1:L_2	E	b	s	ØD_H	ØD:ØD_1
100	A	50-115	270	110	50	38	6	225	180
110	A	60-125	295	120	55	42	6.5	255	200
125	A	60-145	340	140	60	46	7	290	230

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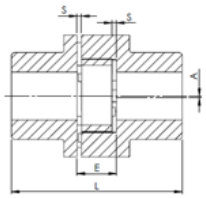
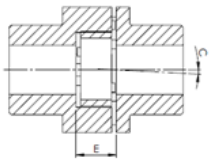
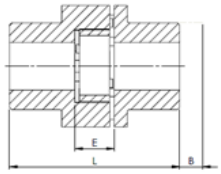


Radial



Angular



Axial

Misalignments										
Type	19	24	28	38	42	48	55	65	75	90
Max. angular misalignment. "C"	1º 30'									
Max. radial misalignment "A" (mm)	0,4	0,75	1			1,3			1,7	
Max. axial misalignment. "B" (mm)	1,2	1,5	1,5	1,8	2,0	2,1	2,3	2,6	3,0	3,4