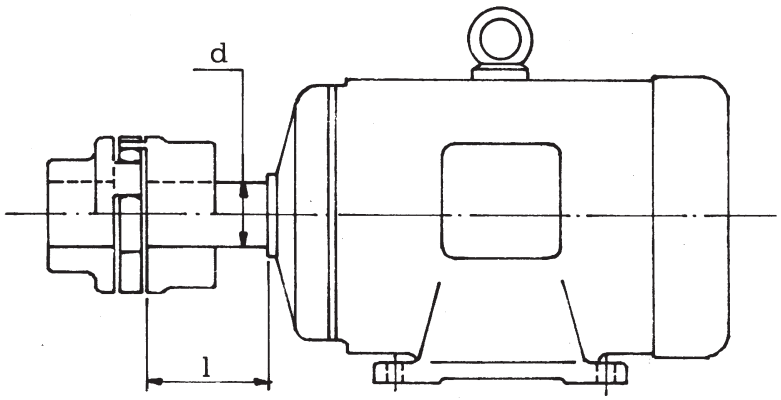
Accouplements Elastiques

Z.I La Barbière 47300 Villeneuve sur Lot - **Tél.** +33 (0)5.53.70.00.75 **Fax.** +33 (0)5.53.49.14.76
Web. http://www.bassaler.com - **Email.** contact@bassaler.com

"GIFLEX®" GE-T FLEXIBLE COUPLINGS



GE-T COUPLINGS designed for CEI standardised motors

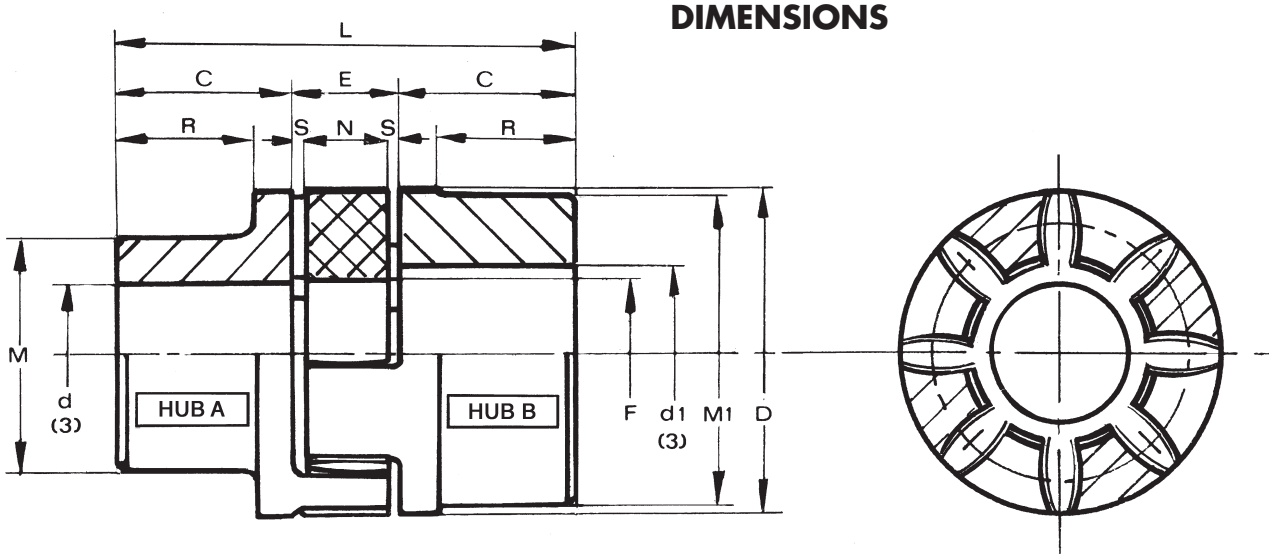
ELECTRIC MOTOR TYPE	Motor power output at 50 Hz. n = 3000 min.		COUPLING		Motor power output at 50 Hz. n = 1500 min.		COUPLING		Motor power output at 50 Hz. n = 1000 min.		COUPLING		Motor power output at 50 Hz. n = 750 min.		COUPLING		Shaft end dxl (mm)
	P (kW)	T (Nm)	GE-T TYPE	Fs	P (kW)	T (Nm)	GE-T TYPE	Fs	P (kW)	T (Nm)	GE-T TYPE	Fs	P (kW)	T (Nm)	GE-T TYPE	Fs	3000<1500
	0.75	2.4		8.0	0.55	3.6		5.4	0.37	3.6		5.1	0.18	2.3		8.0	
80											19/24				19/24		19x40
	1.1	3.6	19/24	5.4	0.75	4.9	19/24	3.9	0.55	5.4		3.4	0.25	3.2		5.7	
90 S	1.5	4.9		4.0	1.1	7.6		2.7	0.75	7.3		2.5	0.37	4.8		3.8	24x50
90 L	2.2	7.2		2.7	1.5	9.8		2.0	1.1	10.8		5.8	0.55	7.2		2.5	
					2.2	14.4		4.7					0.75	9.8		6.4	
100 L	3	9.8		7.1					1.5	14.7		4.7					
					3	19.6		3.5					1.1	14.4		4.4	28x60
112 M	4	13.1	24/32	5.4	4	26.2	24/32	2.6	2.2	21.6	24/32	3.2	1.5	19.7	24/32	3.3	
	5.5	18.0		10.6													
132 S					5.5	36		5.3	3	29.5		6.3	2.2	28.8		6.6	
	7.5	24.6		7.6													38x80
			28/38				28/38		4	39	28/38	4.8			28/38		
132 M					7.5	49		3.9					3	39		4.8	
									5.5	54		3.5					
	11	36		10.6									4	52		7.0	
160 M					11	72		5.3	7.5	73		5.1					
	15	49		7.8									5.5	72		5.1	42x110
160 L	18.5	60	38/45	6.3	15	98	38/45	3.9	11	108	38/45	3.5	7.5	98	38/45	3.8	
180 M	22	72		7.5	18.5	121		4.4									48x110
180 L					22	144		3.7	15	147		3.6	11	144		3.7	
	30	98		5.5			42/55		18.5	182	42/55	2.9			42/55		
200 L					30	196		2.7					15	197		2.7	55x110
	37	121	42/55	4.4					22	216		2.5					
225 S					37	242		2.6					18.5	242		2.5	
225 M	45	147		3.7	45	295	48/60	2.1	30	295	48/60	2.1	22	288	48/60	2.1	55x110 60x140
250 M	55	180	48/60	3.5	55	360	55/70	2.1	37	364	55/70	2.1	30	394	65	2.2	60x140 65x140
280 S	75	246		3.1	75	492		4.0	45	442		4.4	37	485		4.0	75x140
280 M	90	295	55/70	2.6	90	590	75	3.4	55	541	75	3.6	45	591	75	3.3	
315 S	110	360		2.1	110	721		2.8	75	738		2.7	55	722	75/90	2.7	
315 M	132	433		4.6	132	866	75/90	2.3	90	885	75/90	2.3					65x140 80x170
	160	525		3.8	160	1030		4.7	110	1070		4.5	90	1170		4.1	
315 L			75/90				90				90				90		
	200	656		3.0	200	1290		3.7	132	1280		3.8	110	1420		3.4	
	250	820	75/90	2.4	250	1610		3.0	160	1550	90/100	3.1	132	1710	70/100	2.8	
355 L							90/100	2.4	200	1930		2.5	160	2070		3.2	75x140 95x170
	315	1010		4.8	315	2020			250	2420	100	2.7	200	2580	100	2.6	
	355	1140		4.2	355	2280		2.9									
400 L			90/100	3.8			100		315	3040							80x170 100x210
	400	1280			400	2560		2.6									

Code interpretation

Example:

GE-T 19A - 24B = with hub A +hub B
GE-T 19A - 19A = with 2 hubs A
GE-T 24B - 24B = with 2 hubs B

DIMENSIONS



The characteristic size of the coupling is defined by the maximum bore diameter.

Material: G25 CAST IRON * STEEL

MEASUREMENTS - WEIGHTS

COUPLING TYPE	WITHOUT BORE		Finished bore d (3)		Measurements in mm. Normal range										Mass Kg.			J (2) Kg. cm² Hubs A+B
	A	B	d max.	d1 max.	C	D	E (1)	F	M	M1	N	R	S	L	Flexible Component	Hub A	Hub B	
GE-T 19A-24B*	-	-	19	24	25	40	16	18	30	40	12	19	2	66	0.004	0.18	0.25	0.8
GE-T 24A-32B	-	-	24	32	30	55	18	27	40	55	14	24	2	78	0.014	0.36	0.55	3
GE-T 28A-38B	-	-	28	38	35	65	20	30	48	65	15	27.5	2.5	90	0.025	0.60	0.85	7
GE-T 38A-45B	-	-	38	45	45	80	24	38	66	78	18	36.5	3	114	0.042	1.35	1.65	20
GE-T 42A-55B	-	-	42	55	50	95	26	46	75	94	20	40	3	126	0.066	2.00	2.30	50
GE-T 48A-60B	-	-	48	60	56	105	28	51	85	104	21	45	3.5	140	0.088	2.75	3.10	80
GE-T 55A-70B	-	-	55	70	65	120	30	60	98	118	22	52	4	160	0.116	4.20	4.50	160
GE-T 65A-75B	-	-	65	75	75	135	35	68	115	134	26	61	4.5	185	0.172	6.50	6.80	310
GE-T 75A-90B	-	-	75	90	85	160	40	60	135	158	30	69	5	210	0.325	10.00	10.80	680
GE-T 90A-100B	38	38	90	100	100	200	45	100	160	180	34	81	5.5	245	0.440	14.00	15.80	1590

(1) Assembly distances
(2) Coupling inertia moment with hubs A-B and max. bore Ø
(3) **On request:** Finished bore in compliance with ISO standards, H7 tolerance, keyway DIN 6885, sheet 1, JS9 tolerance. Dowel bore.

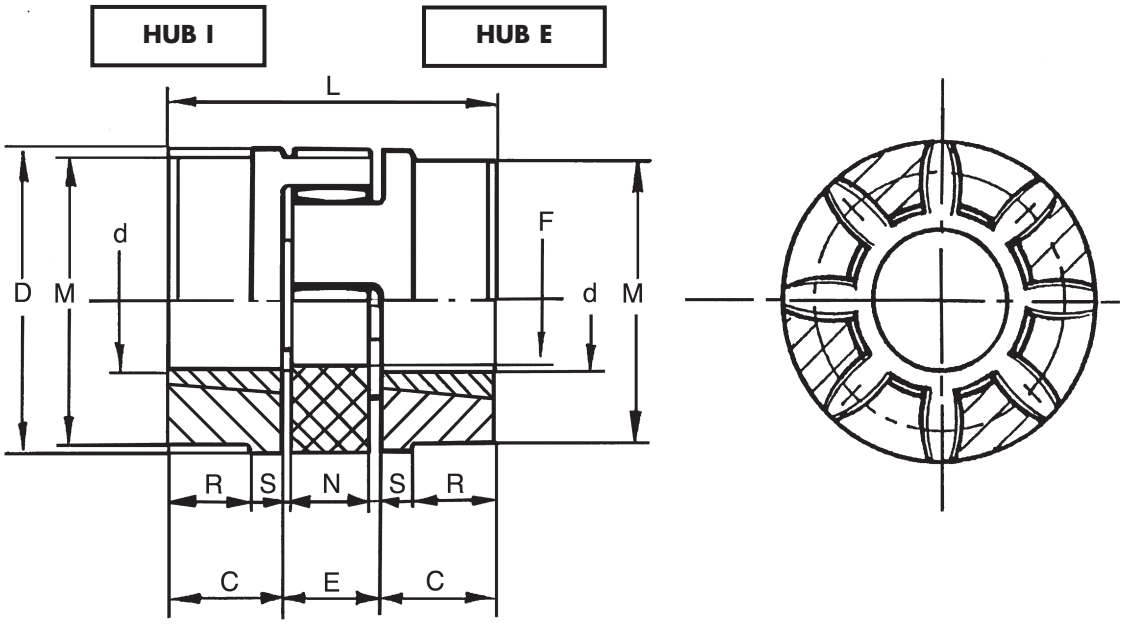
EXECUTION WITH TAPER-LOCK® BUSH

Code interpretation

Example:

GE-T 28I - 38E = with hub I + hub E
GE-T 28I - 28I = with 2 hubs I
GE-T 38E - 38E = with 2 hubs E

DIMENSIONS



Material: G25 CAST IRON

MEASUREMENTS - WEIGHTS

COUPLING TYPE	Taper Lock Bush	Finished bore d		Measurements in mm. Normal range									Mass Kg.		J (2)
		d min.	d max.	C	D	E (1)	F	M	N	S	L	R	Flexible Component	Hubs B_1 Max. Bore	Kg. cm^2 Hubs B_1
GE-T28-38 B1-TL	1108	14	25	23	65	20	30	65	15	2.5	66		0.025	0.50	7
GE-T38-45 B1-TL	1108	14	25	23	80	24	38	78	18	3	70	15	0.042	0.88	26
GE-T42-55 B1-TL	1610	14	42	26	95	26	46	94	20	3	78	16	0.066	1.40	36
GE-T48-60 B1-TL	1615	19	40	39	105	28	51	104	21	3.5	106	28	0.088	2.33	78
GE-T55-70 B1-TL	2012	19	50	33	120	30	60	118	22	4	96	20	0.116	2.42	120
GE-T75-90 B1-TL	2517	19	65	52	160	40	80	158	30	5	144	36	0.325	6.80	630

(1) Assembly distances
(2) Coupling inertia moment with hubs I and E max. bore

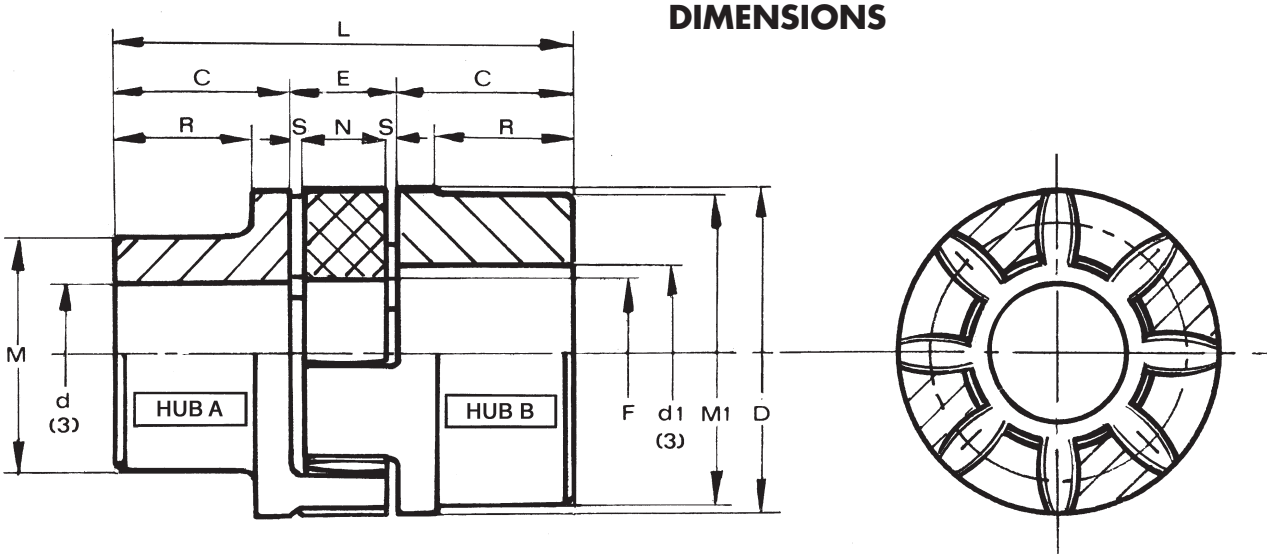
ALUMINIUM

Code interpretation

Example:

GE-T 19A - 24B/AL = with hub A + hub B
GE-T 19A - 19A/AL = with 2 hubs A
GE-T 24B - 24B/AL = with 2 hubs B

DIMENSIONS



Material: ALUMINIUM ALLOY

MEASUREMENTS - WEIGHTS

COUPLING TYPE	WITHOUT BORE		Finished bore d (3)		Measurements in mm. Normal range										Mass Kg.			J (2) Kg. cm² Hubs A+B
	A	B	d max.	d1 max.	C	D	E (1)	F	M	M1	N	R	S	L	Flexible Component	Hub A	Hub B	
GE-T 19A-24B/AL	_	10	19	24	25	40	16	18	30	40	12	19	2	66	0.005	0.07	0.08	0.4
GE-T 24A-32B/AL	8	14	24	32	30	55	18	27	40	55	14	24	2	78	0.014	0.13	0.18	1.0
GE-T 28A-38B/AL	10	16	28	38	35	65	20	30	48	65	15	27.5	2.5	90	0.025	0.22	0.30	3.0
GE-T 38A-45B/AL	12	20	38	45	45	80	24	38	66	78	18	36.5	3	114	0.042	0.48	0.55	8.0

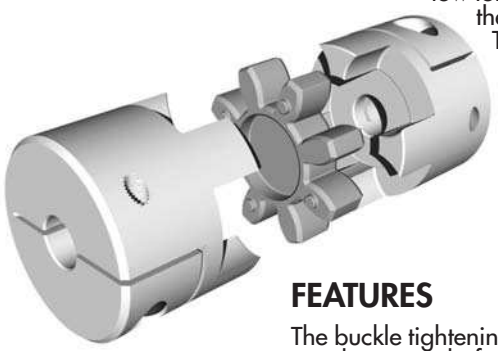
(1) Assembly distances
(2) Coupling inertia moment with hubs A and B and max. bore Ø
(3) **On request:** Finished bore in compliance with ISO standards, H7 tolerance, keyway DIN 6885, sheet 1, JS9 tolerance. Dowel bore.

N.B.: use of a polyurethane elastomer is recommended

"GIFLEX®" GE-T SG
BACKLASH-FREE TORSIONAL COUPLING

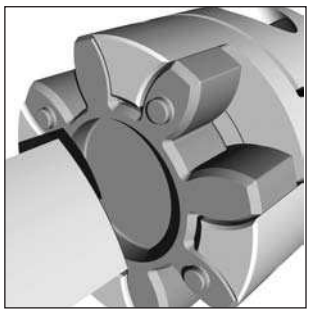
INTRODUCTION

The aluminium flexible couplings GE-T SG are made of three pre-tensioned elements in backlash-free execution.
They are meant for the coupling mounting and they are designed to fit low torque working units and industrial processing, where they must satisfy certain requirements.
Thanks to their limited dimensions and their easy mounting, they can operate in little space and any project can take big advantages of it.



FEATURES

The buckle tightening guarantees a quick and sure fixing without extension between shaft and hub. It is however important to keep the screw tightening torque (MS) shown in the table.
Besides testing the size of the coupling given in the table, it is suggested to test the maximum torque of buckle to diameter (F).
The elastomeric element, that has a star shape, is set into the hubs' hollow seats with a light pre-tensioning , ensuring the needed transmission torque backlash-free execution.

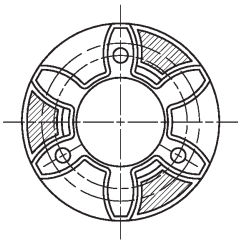


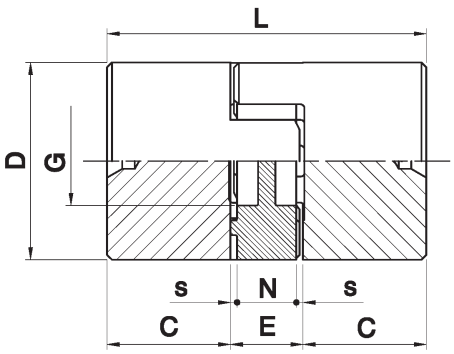
TECHNICAL DATA (Polyurethane elastomeric element in blu colour 80 shore A - in yellow colour 92 shore A - in red colour 98 shore A).

COUPLING GE-T SG	Elastomeric element hardness Shore A	N. max speed revolution V=30m/s	TORQUE (Nm)			STIFFNESS			WEIGHT		Mass inertia moment $Kgm^2 \times 10^{-6}$
			Tksg	Tkn	Tk mx	Torsion statica Nm/rad	Torsion dinam. Nm/rad	radial N/mm	Hub	Star	
9	80	28000	0,45	1,8	3,6	17,02	52	125	0,009	0,002	0,57
	92			3,0	6,0	31,5	95	262			
	98			5,0	10,0	51,5	150	518			
14	80	19000	1,0	4,0	8,0	60,2	180	153	0,020	0,005	3,25
	92			7,5	15,0	114,6	344	336			
	98			12,5	25,0	172,0	513	604			
19/24	80	14000	2,5	4,9	9,8	343,8	1030	582	0,066	0,007	21,90
	92			10,0	20,0	573,0	1720	1120			
	98			17,0	34,0	859,0	2580	2010			
24/28	80	10600		17,0	34,0				0,132	0,018	58,30
	92			35,0	70,0	1432,0	4296	1480			
	98			60,0	120,0	2063,0	6189	2560			
28/38	80	8500		46,0	92,0				0,253	0,029	216,80
	92			95,0	190,0	2292,0	6879	1780			
	98			160,0	320,0	3438,0	10315	3200			
38/45	80	7100		94,0	188,0				0,455	0,049	445,20
	92			190,0	380,0	4589,0	13752	2350			
	98			325,0	650,0	7160,0	21485	4400			

N.B. FOR EXTERNAL SPEED MORE THAN V=30m/s DYNAMIC BALANCING IS NEEDED.

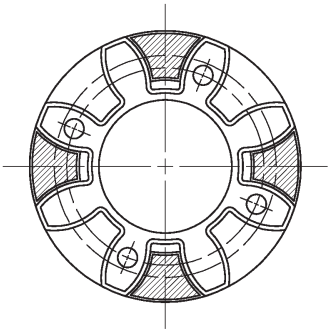
"GIFLEX®" GE-T SG

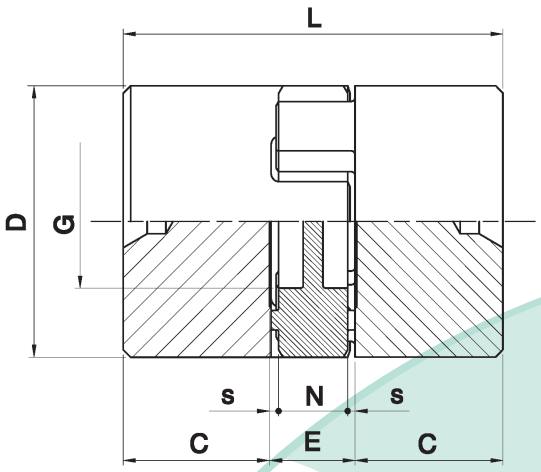




DIMENSIONS: EXECUTION A IN ALUMINIUM ALLOY WITH PLAIN HUB

COUPLING TYPE	F min.	F max	D	G	L	C	E	N	s
9	4	10	20	7,2	30	10	10	8	1,0
14	4	16	30	10,5	35	11	13	10	1,5
19/24	8	20	40	18	66	25	16	12	2,0

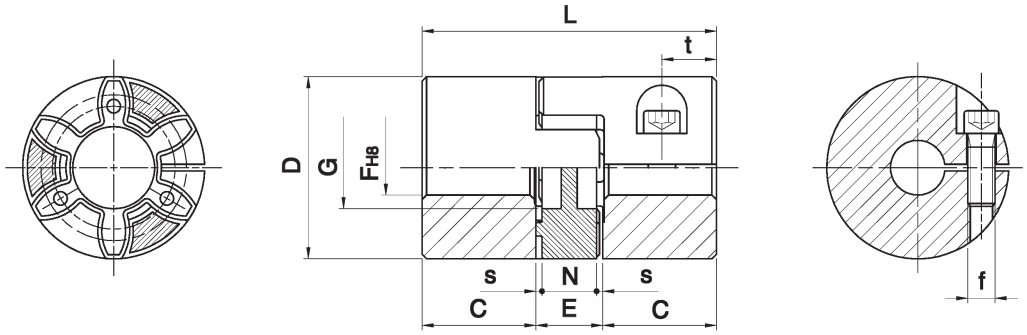




DIMENSIONS: EXECUTION B IN ALUMINIUM ALLOY WITH PLAIN HUB

COUPLING TYPE	F min.	F max	D	G	L	C	E	N	s
24/28	12	28	55	27	78	30	18	14	2,0
28/38	18	35	65	30	90	35	20	20	2,5
38/45	18	45	80	38	114	45	24	18	3,0

"GIFLEX®" GE-T SG

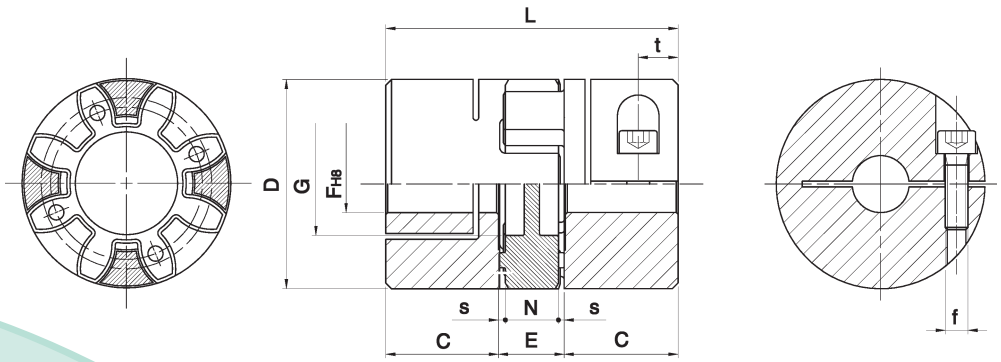


DIMENSION: EXECUTION C IN ALUMINIUM ALLOY WITH SIMPLE SPLIT

COUPLING TYPE	Execution	F min.	F max	D	G	L	C	E	N	s	f	Ms screws (Nm)	t
9	A	4	10	20	7,2	30	10	10	8	1,0	M2,5	0,75	5
14	A	4	16	30	10,5	35	11	13	10	1,5	M3	1,40	5
19/24	A	8	20	40	18	66	25	16	12	2,0	M6	11,0	12

ALLOWED TORQUE (Nm)

COUPLING TYPE	PRODUCED DIAMETER OF BORES (F)																			
	5	6	8	10	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40
9	1,55	1,63	1,79	1,94																
14	3,32	3,43	3,67	3,91	4,14	4,38	4,5	4,6												
19/24			18	19	20	21	21,5	22	22,5	23	24									



DIMENSIONS: EXECUTION D IN ALUMINIUM ALLOY WITH DOUBLE SPLIT

COUPLING TYPE	Execution	F min.	F max	D	G	L	C	E	N	s	f	Ms screws (Nm)	t
24/28	B	12	28	55	27	78	30	18	14	2,0	M6	11,0	14
28/38	B	18	35	65	30	90	35	20	15	2,5	M8	25,0	15
38/45	B	18	45	80	38	114	45	24	18	3,0	M8	25,0	20

ALLOWED TORQUE (Nm)

COUPLING TYPE	PRODUCED DIAMETER OF BORES (F)																			
	5	6	8	10	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40
24/28					25	26	27	27,5	28	28,5	29	30	31	32	33					
28/38									60	61	62	63	65	66	69	71	73	75		
38/45									69	70	71	73	74	78	78	80	81	84	87	88