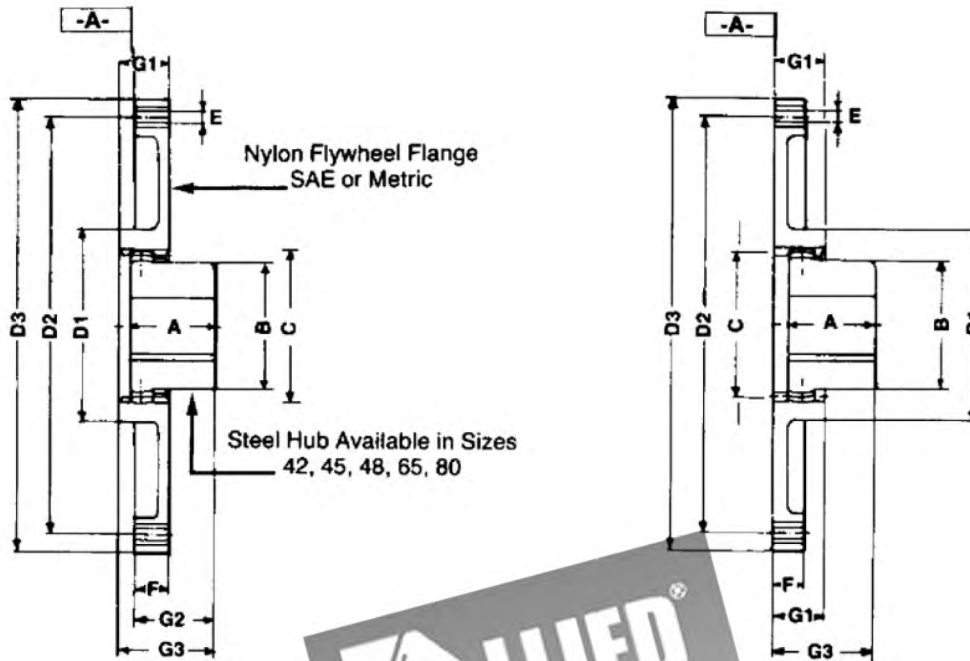


GUARDEX TYPE FL FLYWHEEL COUPLING



MOUNTING FACE 1 (Recommended For SAE 6 1/2, 7 1/2, and 11 1/2)

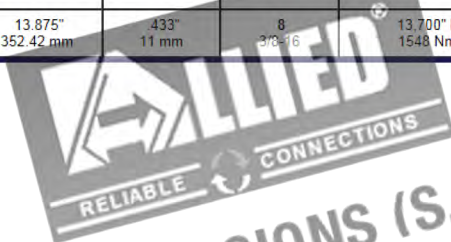
MOUNTING FACE 2 (Recommended For SAE 8-10)

INTERCHANGEABLE WITH BOWEX® TYPE FLE-PA FLYWHEEL COUPLING

ALLIED TRANSMISSIONS (S.E.A) PTE LTD

GUARDEX TYPE FL COUPLING DIMENSIONS										
Coupling Size	Steel Hub Dimensions					SAE Nylon Flange Dimensions			Coupling Assembly Dimensions	
	Available Bore Range		Steel Hub Length (A)	Steel Hub Diameter (B)	Steel Gear Diameter (C)	Nylon Sleeve Diameter (D1)	Bolt Hole Depth (F)	Nylon Splines Length (G1)	OAL from Flywheel Face 1 (G2)	OAL from Flywheel Face 2 (G3)
	Min	Max								
FL42	.625" 16 mm	1.625" 42 mm	1.50" 38.1 mm	2.56" 65 mm	3.07" 78 mm	3.90" 100 mm	.51" 13 mm	.78" 20 mm	1.30" 33 mm	1.65" 42 mm
FL45	.625" 16 mm	1.625" 42 mm	2.19" 55.6 mm	2.56" 65 mm	3.07" 78 mm	3.90" 100 mm	.51" 13 mm	.78" 20 mm	2.00" 51 mm	2.36" 60 mm
FL48	.625" 16 mm	1.875" 48 mm	1.80" 45.7 mm	2.68" 68 mm	3.07" 78 mm	3.90" 100 mm	.51" 13 mm	.78" 20 mm	1.61" 41 mm	1.97" 50 mm
FL48/TSB	.625" 16 mm	1.875" 48 mm	2.20" 56 mm	2.60" 66 mm	3.07" 78 mm	3.90" 100 mm	.51" 13 mm	.78" 20 mm	1.93" 49 mm	2.20" 56 mm
FL65/TSB 10	.625" 16 mm	2.500" 65 mm	2.17" 55 mm	3.78" 96 mm	4.33" 110 mm	5.15" 132 mm	.82" 21 mm	1.05" 27 mm	1.90" 48 mm	2.17" 55 mm
FL65/TSB 11 1/2	.625" 16 mm	2.500" 65 mm	2.17" 55 mm	3.78" 96 mm	4.33" 110 mm	6.69" 170 mm	.885" 22 mm	1.21" 31 mm	1.78" 45 mm	2.17" 55 mm
FL80/TSB 11 1/2	.875" 22 mm	3.125" 80 mm	2.13" 54 mm	4.88" 124 mm	5.66" 144 mm	6.69" 170 mm	.820" 21 mm	1.18" 30 mm	1.69" 43 mm	1.82" 46 mm

SAE FLANGES							
SAE Flywheel/Hub	Hole Centerline (D2)	Outside Diameter (D3)	Bushing I.D. (E)	Number of Holes	Torque		Maximum RPM
					Nominal	Maximum	
6 1/2" -42	7.875" 200.02 mm	8.5" 215.9 mm	.354" 9 mm	6 5/16-18	2100" lb 237 Nm	5300" lb 599 Nm	5,000
7 1/2" -42	8.750" 222.25 mm	9.5" 241.3 mm	.354" 9 mm	8 5/16-18	2100" lb 237 Nm	5300" lb 599 Nm	5,000
8" -45	9.625" 244.47 mm	10.375" 263.52 mm	.433" 11 mm	6 3/8-16	2100" lb 237 Nm	5300" lb 599 Nm	5,000
10" -48	11.625" 295.27 mm	12.375" 314.32 mm	.433" 11 mm	8 3/8-16	2100" lb 237 Nm	5300" lb 599 Nm	5,000
10" -48 TSB	11.625" 295.27 mm	12.375" 314.32 mm	.433" 11 mm	8 3/8-16	2700" lb 305 Nm	6600" lb 745 Nm	5,000
10" -65	11.625" 295.27 mm	12.375" 314.32 mm	.433" 11 mm	8 3/8-16	5700" lb 644 Nm	14,200" lb 1,605 Nm	3,600
10" -65 TSB	11.625" 295.27 mm	12.375" 314.32 mm	.433" 11 mm	8 3/8-16	7000" lb 791 Nm	17,700" lb 2000 Nm	3,600
11 1/2" -65	13.125" 333.37 mm	13.875" 352.42 mm	.433" 11 mm	8 3/8-16	5700" lb 644 Nm	14,200" lb 1,605 Nm	3,600
11 1/2" -65 TSB	13.125" 333.37 mm	13.875" 352.42 mm	.433" 11 mm	8 3/8-16	7000" lb 791 Nm	17,700" lb 2000 Nm	3,600
11 1/2" -80	13.125" 333.37 mm	13.875" 352.42 mm	.433" 11 mm	8 3/8-16	10,600" lb 1,198 Nm	26,600" lb 3,006 Nm	3,600
11 1/2" -80 TSB	13.125" 333.37 mm	13.875" 352.42 mm	.433" 11 mm	8 3/8-16	13,700" lb 1548 Nm	34,300" lb 3,875 Nm	3,600



ALLIED TRANSMISSIONS (S.E.A) PTE LTD

SPECIAL METRIC NYLON FLANGES				
Outside Diameter	Bolt Circle	Number and Size of Bolts	Pilot Diameter	Engines
96 mm (3.78")	50 mm (1.97")	4 x 10 mm	70 mm (2.76")	Hatz-Z788, 789, 790
125 mm (4.92")	100 mm (3.94")	3 x 10 mm	80 mm (3.15") 125 mm (4.92")	Deutz-F2L511-1338, F1L210 (125mm Pilot), Perkins-4.108, Lister Petter-"ALPHA" Series
135 mm (5.32")	100 mm (3.94")	3 x 10 mm	135 mm (5.32")	Kubota-650, 750, 850, 950, V1100, 1200, and Super 5 Series (905 thru 1505), Perkins 103-10
150 mm (5.91")	130 mm (5.12")	5 x 8 mm	106 mm (4.17")	Kubota-D600B, Z400, D722, V800, WG600, WG750 (Super Mini Series), Briggs Daihatsu DM700, DM950
152 mm (5.98")	122 mm (4.80") 125 mm (4.92")	3 x 12 mm 3 x 12 mm	105 mm (4.13") 100 mm (3.94")	Hatz-573, 673, 780, 786, E71, E75, E79 (122 mm B.C.) Perkins-4108 (125 mm B.C.), 504-2T/2LR Deutz-F2L511 (125 mm B.C.)
155 mm	125 mm (4.92")	3 x 12 mm	155 mm (6.10")	Perkins 103-12/13/15, 104-22
165 mm (6.50")	142 mm (5.59")	6 x 12 mm	125 mm (4.92")	Hatz E786, 2.3.4, L/M Series
180 mm	155 mm (6.10")	4 x 10 mm	As required	All purpose Adaptor, with 65FL ratings
210 mm	185 mm (7.28")	3 x 10 mm	125 mm (4.92")	Kubota Super 3 Series, D1403, D1703, V1903, V2203
220 mm (8.661")	165 mm (6.496")	6 x 10 mm	220 mm	Kubota Super 3 Series, D1403, D1703, V1903, V2203
220 mm (8.661")	185 mm (7.283")	3 x 12 mm	125 mm	Kubota Super 3 Series, D1403, D1703, V1903, V2203
252 mm (9.92")	234 mm (9.21") 218 mm (8.58")	6 x 8 mm 6 x 8 mm	252 mm (9.92") 234 mm (9.21")	VW-068, 126, 127 (218 mm B.C.), Kubota 950

Notes:

1. Several hub lengths are available, or the steel hubs can be machined to specific lengths to meet other mounting dimensions.
2. Axial adjustment of the hub gear in flange internal spline is +/- .080" (+/-2mm), parallel misalignment to .030", angular misalignment to 2°.
3. Steel Hub bores are available with shaft keyways, tapers, and SAE or metric splines with crossbolt clamping.
4. Flanges may be installed in either Face 1 or Face 2 position, and hubs may be reversed in either position to obtain optimum overall dimension.