RIGID COUPLINGS

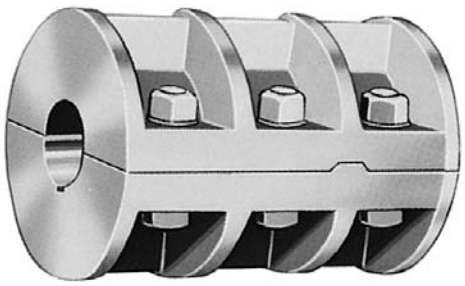
TB Wood's

SECTION F7

Ribbed Type Compression Couplings are recommended for emergency and regular service on heavily loaded shafts.

These couplings are bored true to shaft size, and the halves are separated during boring operation to allow for clamping when halves are drawn together. Bolt heads and nuts are protected by flanges. End flanges are faced square with bore, and outer diameters are turned.

To facilitate the use of V-belt drives, sufficient space may be left between shaft ends when mounting the coupling to permit easy replacement of belts.



RIBBED COMPRESSION NO. 257

Product No.	Shaft Size	Max. RPM	Approx. Diam.	Length	BOLTS			Weight Lbs.
					No.	Size	Wrench(1) Torque ft.-lb.	
2571316	1-3/16	4630	4-1/8	5-3/8	6	3/8	19	11
257114	1-1/4	4630	4-1/8	5-3/8	6	3/8	19	11
2571716	1-7/16	4070	4-11/16	6-1/8	6	1/2	45	18
257112	1-1/2	4070	4-11/16	6-1/8	6	1/2	45	18
25711116	1-11/16	3820	5	6-3/4	6	1/2	45	20
257134	1-3/4	3820	5	6-3/4	6	1/2	45	20
25711516	1-15/16	3250	5-7/8	8	6	5/8	93	34
2572	2	3250	5-7/8	8	6	5/8	93	33
2572316	2-3/16	3050	6-1/4	8-3/4	6	5/8	93	38
257214	2-1/4	3050	6-1/4	8-3/4	6	5/8	93	38
2572716	2-7/16	2680	7-1/8	9-5/8	6	3/4	150	57
257212	2-1/2	2680	7-1/8	9-5/8	6	3/4	150	54
25721116	2-11/16	2610	7-5/16	10-5/8	6	3/4	150	62
25721516	2-15/16	2210	8-5/8	11-5/8	8	3/4	150	95
2573	3	2210	8-5/8	11-5/8	8	3/4	150	95
2573316	3-3/16	2100	9-1/16	12-3/4	8	3/4	150	126
2573716	3-7/16	1920	9-15/16	13-5/8	8	7/8	202	157
257312	3-1/2	1920	9-15/16	13-5/8	8	7/8	202	157
25731516	3-15/16	1830	10-7/16	14-5/8	8	7/8	202	171
2574716	4-7/16	1600	11-7/8	16-1/2	8	1	300	273
25741516	4-15/16	1390	13-11/16	18-1/8	8	1-1/8	474	395

NOTE: Capacity of Coupling exceeds capacity of shaft based on 6000 PSI Shaft Stress.
(1) Do not lubricate CAP Screws. Other shaft sizes available on a MTO Basis.
Coupling may require balancing to reduce vibration when operating within these speeds.

RIGID COUPLINGS

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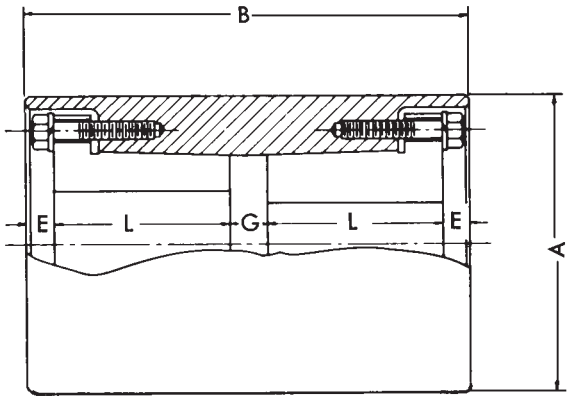
This coupling is designed to provide a simple method of rigidly connecting two pieces of shafting. The standard Sure-Grip tapered bushing is used, one on each shaft, to securely clamp the two shafts together. The precision tapered fit lines up the two shafts. No press or shrink fits are necessary.

SURE-GRIP RIGID NO. 44



Product No.	Max. RPM	Maximum Bore		Bushing †	DIMENSIONS					Weight Including Bushings
		Light (1) Loads	Heavy (2) Loads		A	B	E	G	L	
44SD	6200	1-13/16	1-7/16	SD	4	4-5/8	3/8	1/4	1-13/16	11
44SF	4500	2-3/8	1-7/8	SF	5-1/2	5-1/4	1/2	1/4	2	22
44E	3600	2-15/16	2-1/4	E	6-7/8	6-3/4	5/8	1/4	2-5/8	54
44J	3000	3-13/16	3	J	8-1/4	11	3/4	1/2	4-1/2	122
44M	2450	4-3/4	3-11/16	M*	10	16	1	1/2	6-3/4	270

† Dimensions for Sure-Grip bushings are given on page A1—3.

* Bushing M is not stocked with drilled holes for the above type mounting and will be made-to-order.

(1) Max Shaft Stress < 8500 psi.

(2) Max Shaft Stress < 4000 psi.

$$\text{Axial Thrust Capacity} = \frac{\text{Bushing Torque Capacity}}{\text{Radius of Shaft}}$$