



# Lovejoy Grid Coupling

## Limited End Float Installation Instructions

### INTRODUCTION

Follow these instructions when it is necessary to limit the end float of Lovejoy Grid couplings sizes 1020 - 1140.

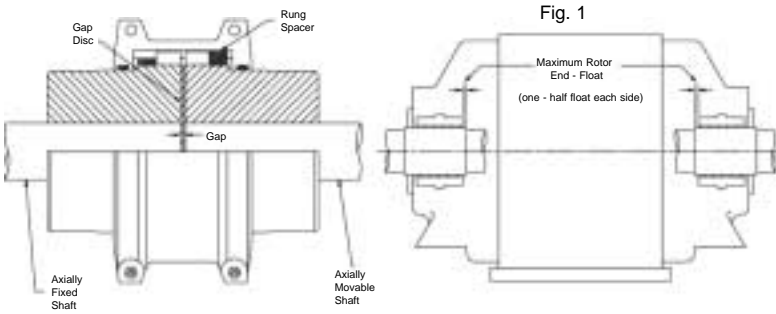
### CAUTION

Consult applicable local and national safety codes for proper guarding of rotating members. Observe all safety rules when installing or servicing couplings. Lockout starting switch of prime mover and remove all external loads from drive before installing or servicing couplings. When assembling coupling seal the keyways to prevent leakage.

The 1020 through 1140 standard couplings connecting a horizontal shaft without axial movement (end float) to one with axial movement (such as in sleeve bearing motors), will limit the shaft end float to approximately 0.06 inches when assembled with gap disc and rung spacers as specified herein.

### ASSEMBLY INSTRUCTIONS

1. Mount the coupling hubs and seal rings as instructed in Lovejoy's Installation Instructions for Grid Couplings.
2. Position the floating shaft at the mid-point of travel and secure the shaft axially in this position for alignment. Position equipment and align per their Installation Instructions. Use the coupling gap specified in Table 1. When setting the coupling gap, position the floating shaft at mid-point (center of travel).
3. Insert the gap disc between coupling hubs.
4. Pack coupling grooves with lubricant and insert grids as recommended in Lovejoy's Installation Instructions for Grid Couplings.
5. Insert rung spacers as follows:
  - 1020 thru 1060 - Insert FOUR rung spacers at Positions 1 & 2 in the last two loops at the end of the one-piece grid. Then insert four more at 180° as shown in Figure 3.
  - 1070 thru 1090 - Insert rung spacers at Positions 1, 2, 3 and 4 in the last four loops of EACH grid segment (eight spacers per grid segment) as shown in Figure 3.
  - 1100 thru 1140 - Insert rung spacers in every other grid loop as shown in Figure 4. Where additional rung spacers are provided, evenly space them in the open grid loops around the circumference of the grid.
6. Complete coupling assembly and lubrication per Lovejoy's Installation Instructions for Grid Couplings. NOTE: Position cover halves so lugs inside the cover do not interfere with grid or any rung spacers. Cover halves should come together at split with a minimum amount of force.



Limited End Float Dimensions

Table 1

Cplg. Size	Gap Disc		Rung Spacers - Fig. 2 Cplg.		
	Dia Inch	Thickness Inch	Per Cplg	L1 Inch	Gap Inch
1020	1.750	0.032	8	0.252	0.092
1030	2.188	0.062	8	0.315	0.092
1040	2.500	0.062	8	0.315	0.092
1050	2.750	0.062	8	0.371	0.092
1060	3.000	0.062	8	0.371	0.092
1070	3.750	0.062	16	0.460	0.092
1080	4.375	0.125	16	0.500	0.155
1090	5.250	0.125	16	0.630	0.155
1100	6.000	0.188	16	0.650	0.218
1110	6.750	0.188	20	0.780	0.218
1120	7.500	0.250	20	0.830	0.280
1130	9.000	0.250	24	0.890	0.280
1140	10.50	0.025	32	1.010	.0280

Note: 1. Manufacturing tolerance is ± .020 inches.

