The following instructions apply to limited end float couplings with rung spacers and a gap disc connecting a horizontal shaft without axial movement (end float) to one with axial movement (such as in sleeve bearing motors).

Rung spacers are furnished long and must be cut to length to suit the maximum end float required. Gap discs are furnished to dimensions shown in Table 1 on Page 2.

After coupling halves are mounted on their respective shafts as instructed in the coupling installation manual, proceed as follows:

1. Cut rung spacers to suit maximum end float required (see Table 1 and starred footnote). For NEMA motors, refer to Figure 1 to determine maximum end float if not specified.
2. Set floating shaft at the mid-point of travel and mark shaft such that the position will be maintained. Set hub gap equal to gap disc thickness plus one-half of maximum end float required and align shafts.
3. Insert gap disc, grids and rung spacers as illustrated in Figures 2 and 3 on Page 2.
4. Lubricate and assemble the coupling as instructed in the coupling installation manual. Then test run the assembly and measure the end float.

**TYPICAL LIMITED END FLOAT ARRANGEMENT**

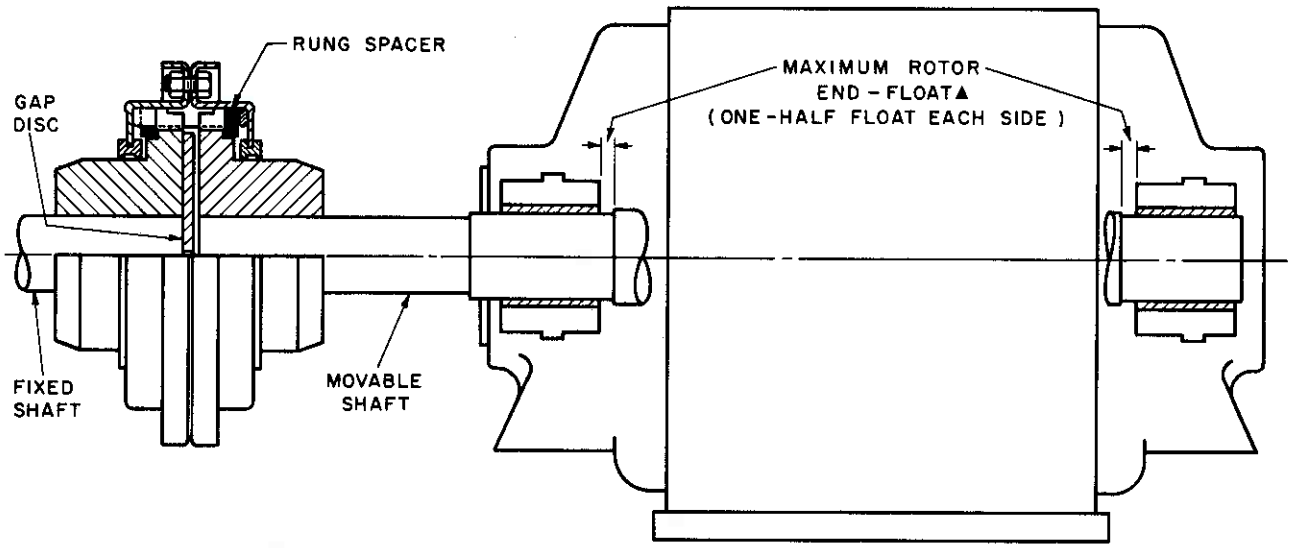


**FIGURE 1**

▲ Maximum rotor end float is usually indicated on the NEMA motor nameplate, or the extreme float limits are marked on the shaft. If not given, determine by measuring the maximum in and out travel of the shaft. Limit coupling end float to less than half of rotor end float.



(CONTINUED ON PAGE 2)

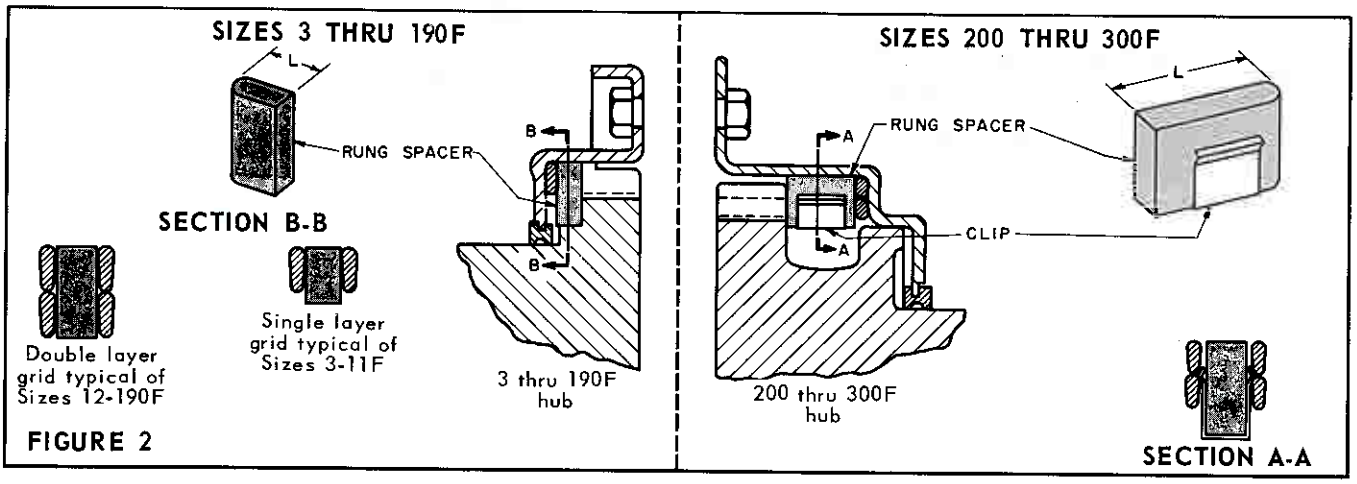


FIGURE 2

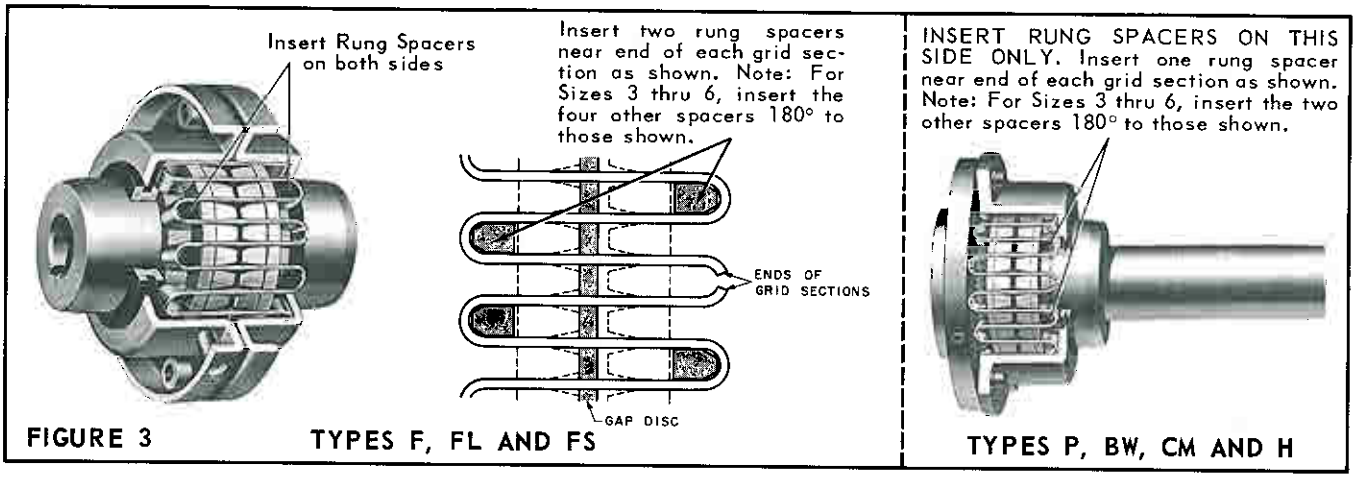


FIGURE 3 TYPES F, FL AND FS

TYPES P, BW, CM AND H

**TABLE 1 GAP DISC AND RUNG SPACER DIMENSIONS – INCHES**

| CPLG. SIZE | Gap Disc | | Rung Spacers Per Coupling | | DIMENSION L ±.015★ RUNG SPACER LENGTH (Figure 2) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Types F, FL, FS | | | | | Types P, BW, CM, H | | | | |
| | Dia. | Thick-ness | Coupling Types | | Maximum End Float Required | | | | | Maximum End Float Required | | | | |
| | | | F, FL, FS | P, BW, CM, H | .062 | .094 | .125 | .188 | .250 | .062 | .094 | .125 | .188 | .250 |
| 3 | 1.875 | .062 | 8 | 4 | .262 | .247 | ... | ... | ... | .265 | .234 | ... | ... | ... |
| 4 | 2.188 | .062 | 8 | 4 | .310 | .294 | .279 | ... | ... | .345 | .314 | .284 | ... | ... |
| 5 | 2.500 | .062 | 8 | 4 | .310 | .294 | .279 | ... | ... | .345 | .314 | .284 | ... | ... |
| 6 | 3.000 | .062 | 8 | 4 | .310 | .294 | .279 | ... | ... | .345 | .314 | .284 | ... | ... |
| 7 | 3.375 | .062 | 8 | 4 | .310 | .294 | .279 | ... | ... | .345 | .314 | .284 | ... | ... |
| 8 | 4.125 | .125 | 8 | 4 | .373 | .358 | .342 | ... | ... | .403 | .370 | .339 | ... | ... |
| 9 | 4.375 | .125 | 8 | 4 | .373 | .358 | .342 | ... | ... | .403 | .370 | .339 | ... | ... |
| 10 | 5.250 | .188 | 8 | 4 | .561 | .545 | .530 | .498 | ... | .620 | .589 | .558 | .495 | ... |
| 11 | 5.625 | .188 | 8 | 4 | .561 | .545 | .530 | .498 | ... | .620 | .589 | .558 | .495 | ... |
| 12 | 6.000 | .188 | 8 | 4 | .561 | .545 | .530 | .498 | ... | .620 | .589 | .558 | .495 | ... |
| 13 | 7.250 | .188 | 8 | 4 | .561 | .545 | .530 | .498 | ... | .620 | .589 | .558 | .495 | ... |
| 14 | 7.750 | .250 | 8 | 4 | .686 | .670 | .654 | .623 | .592 | .761 | .729 | .698 | .635 | .573 |
| 15 | 8.000 | .250 | 8 | 4 | .654 | .638 | .622 | .591 | .560 | .730 | .699 | .667 | .605 | .542 |
| 16 | 9.500 | .250 | 8 | 4 | .654 | .638 | .622 | .591 | .560 | .730 | .699 | .667 | .605 | .542 |
| 17 | 11.000 | .250 | 8 | 4 | .654 | .638 | .622 | .591 | .560 | .730 | .699 | .667 | .605 | .542 |
| 18 | 12.500 | .250 | 12 | 6 | .654 | .638 | .622 | .591 | .560 | .730 | .699 | .667 | .605 | .542 |
| 190 | 13.500 | .250 | 16 | 8 | 1.460 | 1.445 | 1.429 | 1.397 | 1.366 | 1.414 | 1.382 | 1.351 | 1.288 | 1.226 |
| 200 | 16.750 | .250 | 16 | 8 | 1.454 | 1.439 | 1.423 | 1.392 | 1.360 | 1.407 | 1.375 | 1.345 | 1.283 | 1.220 |
| 210 | 18.250 | .250 | 16 | 8 | 1.461 | 1.446 | 1.430 | 1.399 | 1.367 | 1.422 | 1.390 | 1.360 | 1.298 | 1.235 |
| 220 | 20.000 | .250 | 16 | 8 | 1.466 | 1.451 | 1.435 | 1.404 | 1.372 | 1.432 | 1.400 | 1.370 | 1.308 | 1.245 |
| 230 | 23.250 | .250 | 24 | 12 | 1.454 | 1.439 | 1.423 | 1.392 | 1.360 | 1.407 | 1.375 | 1.345 | 1.283 | 1.220 |
| 240 | 25.875 | .500 | 32 | 16 | 2.126 | 2.111 | 2.095 | 2.064 | 2.033 | 2.066 | 2.034 | 2.003 | 1.940 | 1.878 |
| 250 | 31.500 | .500 | 32 | 16 | 2.126 | 2.111 | 2.095 | 2.064 | 2.033 | 2.066 | 2.034 | 2.003 | 1.940 | 1.878 |
| 260 | 35.750 | .500 | 32 | 16 | 2.136 | 2.121 | 2.105 | 2.074 | 2.043 | 2.086 | 2.054 | 2.023 | 1.960 | 1.898 |
| 270 | 42.250 | .500 | 32 | 16 | 2.126 | 2.111 | 2.095 | 2.064 | 2.033 | 2.066 | 2.034 | 2.003 | 1.940 | 1.878 |
| 280 | 45.625 | .500 | 32 | 16 | 2.141 | 2.126 | 2.110 | 2.079 | 2.048 | 2.096 | 2.064 | 2.033 | 1.970 | 1.908 |
| 290 | 51.375 | .500 | 36 | 18 | 2.141 | 2.126 | 2.110 | 2.079 | 2.048 | 2.096 | 2.064 | 2.033 | 1.970 | 1.908 |
| 300 | 57.375 | .500 | 40 | 20 | 1.896 | 1.881 | 1.865 | 1.834 | 1.803 | 2.106 | 2.074 | 2.043 | 1.980 | 1.918 |

★The degree of accuracy to which Dimension L is held determines the accuracy of the end float. Cutting the spacers to the high side of the tolerance (+.015) will result in less end float; on the low side (–.015) more end float.