

Lovejoy / Sier-Bath

Nyflex and Mite Coupling

Size Nyflex and Mite

Introduction

Carefully follow the instructions in this manual for optimum performance and trouble free service.

This manual applies to standard Nyflex and Mite type couplings. For vertical applications please consult with Lovejoy application Engineering.

The Nyflex & Mite type couplings are used for applications requiring NO lubrication and light to medium duty industrial applications.

Installation & Alignment Instructions

All parts must be clean and free of any foreign materials before attempting assembly, use a non-flammable solvent. All Parts should be examined for any damage during shipping and handling. Measurements should be taken to verify correctness of parts to meet application requirements, such as, hub and shaft fits, shaft separation, etc. Check hubs, shafts and keyways for burrs.

1) Install keys in respective shafts. Keys should fit shaft keyseat with a tight fit on the sides and slight clearance over the key. Coat the shafts with an anti-galling lubricant. Place retaining rings over respective

Caution: Consult applicable local and national safety codes for proper guarding of rotating coupling. Observe all safety rules when installing or servicing coupling.

Warning: Lockout starting switch of prime mover and remove all external loads from drive before installing or servicing coupling.

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shaft **before mounting hubs**. Protect shaft on which retaining rings will rest during hub installation.

2) Determine the mounting arrangement of the proper mating hub and sleeve as illustrated in figure 1. Mount so that the end of each hub is flush with the end of the shaft as illustrated in figure 1. Tighten setscrews once hubs are in place.

3) Although the shafts may be perfectly aligned at installation they should be realigned after mounting of coupling. Position equipment in the approximate alignment with the approximate "G" dimension found on Chart 1. Align coupling using the instrument method as described below.

4) Angular Alignment – Using a feeler gage, **take readings at four points 90° apart**. Adjust machines until all four readings are identical. The difference in maximum and minimum measurements must not exceed the **installation angular** limits specified in chart 1.

5) Parallel Offset Alignment – The dial indicator method is recommended for this procedure. Attach the dial indicator base to one hub and set the dial indicator needle in contact with the outside diameter of opposite hub. Rotate hub on which the indicator is mounted 360°, **taking indicator readings at four points 90° apart**. Adjust machines until all four readings are identical. The difference in maximum and minimum measurements must not exceed the **installation-offset** limits specified in chart 1. Relocate the indicator dial base to the opposite hub and repeat the procedure. Tighten all foundation bolts and repeat step 4 and 5. Realign coupling if necessary.

6) Slide each sleeve onto its respective hub, making sure that the gear teeth mesh properly. Insert retaining ring into grooves cut into sleeve.

CHART 1

Size		Mite	Nyflex
"G" hub Separation		.13	.13
Installation	Offset MAX	0.006	0.010
Limits	Angular MAX	0.018	0.021
Operating	Offset MAX	0.015	0.021
Limits	Angular MAX	0.036	0.045
Max Speed		5000	5000

FIGURE 1

