

4.4 LEVELLING

When the unit is received with the pump and the motor mounted on the base plate, it should be placed on the foundation and the coupling halves disconnected. the coupling should not be reconnected until the alignment is completed.

Check the coupling faces as well as the suction and discharge flanges of the pump for horizontal or vertical position by means of a level. Correct the positions, if necessary, by adjusting the base plate as required.

4.5 FLEXIBLE COUPLINGS

The purpose of flexible coupling is to compensate for temperature changes and to permit end movement to the shafts without interference with each other while transmitting power from motor to the pump. It should not be used to compensate for misalignment of the pump and driver shafts.

4.6 TYPES OF MISALIGNMENT

There are two types of misalignments between pump shaft and the motor shaft.

Angular misalignment - shafts which axis concentric but not parallel. (See fig. 3)

Parallel misalignment - shafts which axis parallel but not concentric. (See fig. 4)

4.7 COUPLING ALIGNMENT

The faces of coupling halves should be spaced far enough apart so that they can not strike each other when the motor rotor is moved hard over towards the pump. Due allowance should be made for wear of the thrust bearing.

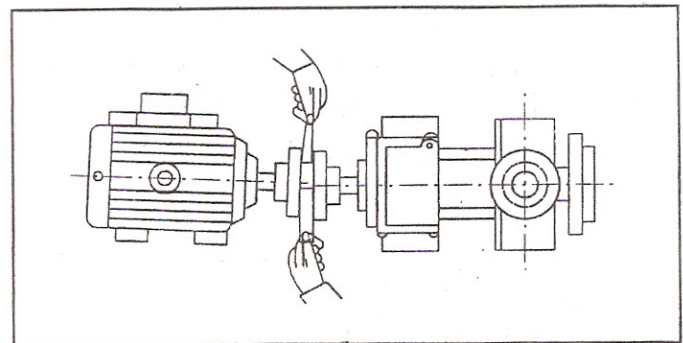
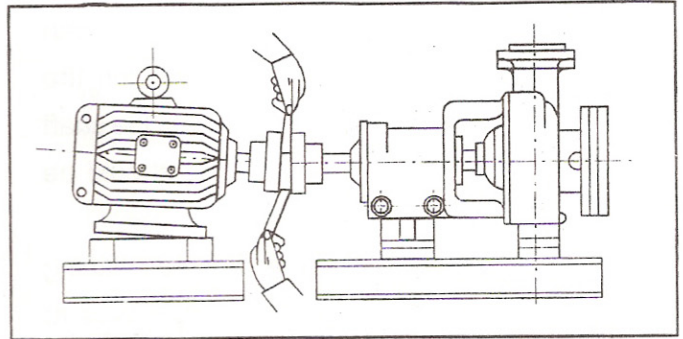


FIG. 3 CHECKING ANGULAR ALIGNMENT

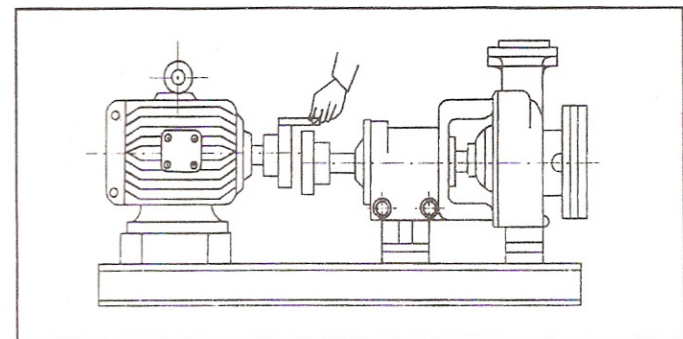
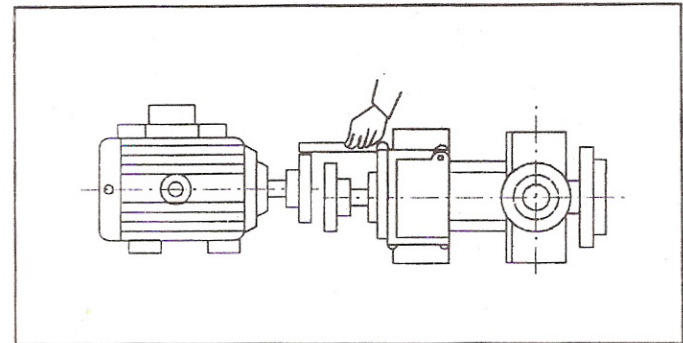


FIG. 4 CHECKING PARALLEL ALIGNMENT