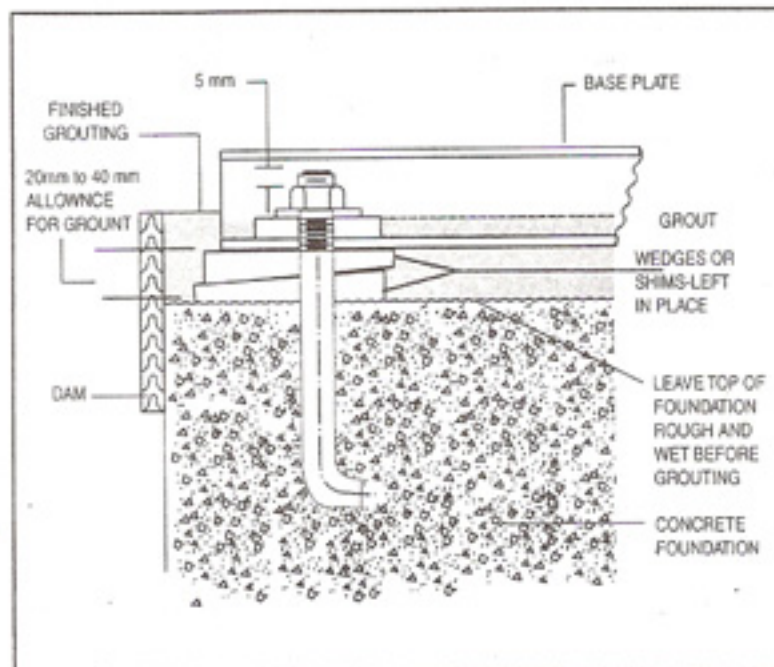


#### 4. INSTALLATION - GENERAL

INVESTA centrifugal pumps, when properly installed and given reasonable care and maintenance, should operate satisfactorily for a long period of time. In order to ensure satisfactory operation, the discussion in following pages must be considered.



**FIG. 1 TYPICAL FOUNDATION BOLT DESIGN**

#### 4.1 LOCATION

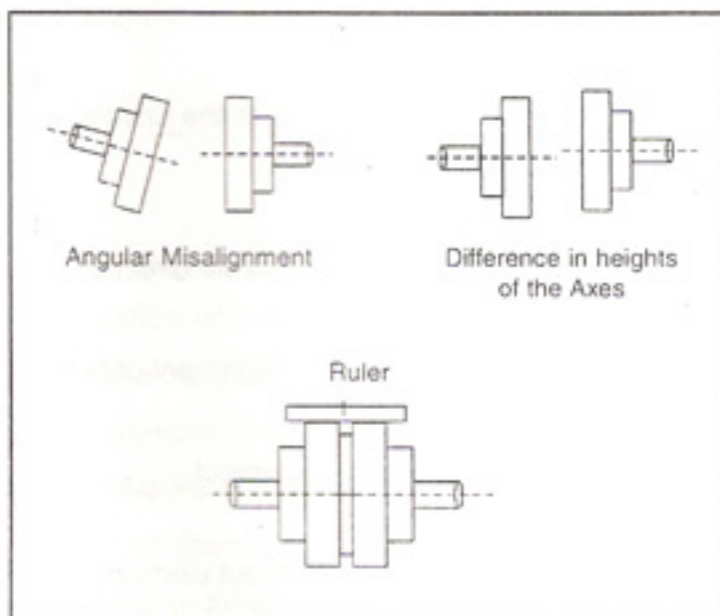
The pump should be located as close to the liquid supply as possible so that suction pipe is short and direct, and a short, direct discharge pipe with minimum number of elbows and fittings, should be used to minimise head loss due to friction. The area around pump should be adequate so that it is readily accessible for inspection and maintenance and can be attended with a minimum of effort.

#### 4.2 FOUNDATION

For permanent installation, pump should be mounted on a rigid concrete foundation 200 to 300 mm high and extending 50 to 75 mm beyond the pump base plate. Foundation bolts of the proper size should be embedded in the concrete, located by a template. (See Fig 1)

#### 4.3 ALIGNMENT

Pumps and motors (if supplied) that are received from the factory with mounted on a common base plate, were accurately aligned before shipment. Re-alignment is necessary after the complete unit has been levelled on the foundation and again after the grout has set and foundation bolts have been tightened. The alignment must be checked after the unit is piped and rechecked periodically.



**FIG. 2 TYPES OF MISALIGNMENT**