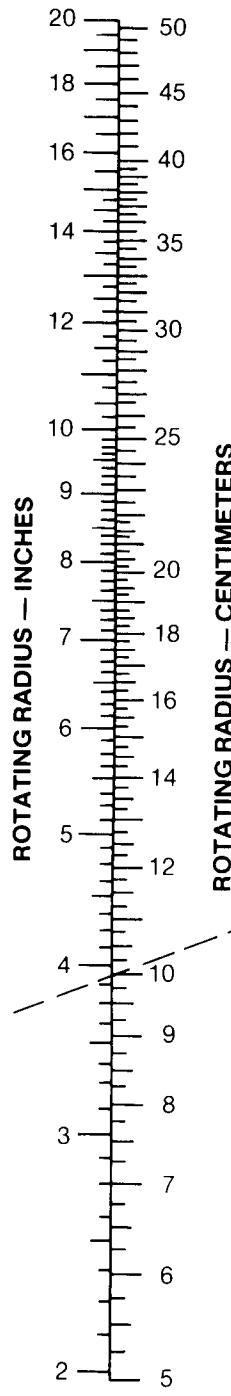


4.5 Nomograph



Using the RCF Nomograph

To determine the relative centrifugal force (rcf), place a straightedge on the nomograph connecting the known speed (rpm) and the known rotating radius. The point at which the straightedge intersects the rcf axis is the force.

For example, if the rotating radius is 10 cm and the speed is 3,000 rpm, the relative centrifugal force is 1,000 xg (gravity).

If the force and the radius are known, the corresponding speed can be determined.

To Calculate RCF

$$RCF = .00001118 \times r \times N^2$$

RCF = relative centrifugal force
(gravities)

r = rotating radius (centimeters)

N = rotating speed (rev. per min. or
rpm)

