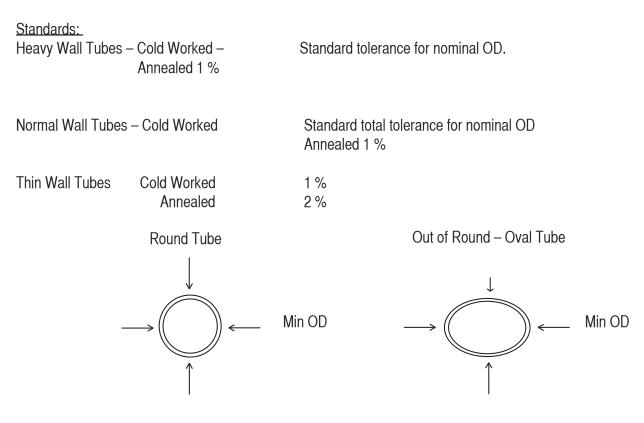


Commercial Standards for Small Diameter Tubing

1.Ovality (out of roundness)

Out of roundness or difference between maximum and minimum dimensions of OD, obtained by a micrometer measurement for high and low points. The ovality tolerance is considered to be a total spread inside which both the maximum OD dimension and minimum OD dimension must fall.

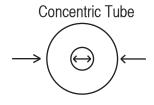


2. Eccentricity (opposite of concentricity)

Refers to the variation in wall thickness from the maximum to minimum.

Standard:

Shall be limited to 10 % of the specified or calculated average wall.



Eccentric Tube \longrightarrow \longleftrightarrow \leftarrow

RMS: Is a means of describing the average height of the random peaks and valleys of the surface finish. (Root Mean Square). A surface roughness of 20rms would be the equivalent of .5 Microns (A micon being one millionth of a meter or .000001).