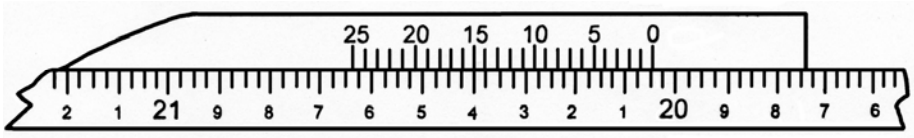
READING O-RING INSIDE DIAMETER INCH TAPES

VERNIER SCALE



GAGE MEMBER

The tape and part should be wiped clean. The tape is aligned on the inside diameter flat and snug to the part, straight and parallel so the gage member is flat against the vernier scale.

Each line on the gage member represents .025", while each line on the vernier represents .001". The zero on the vernier is past the 20" line plus 1 division on the gage member for a reading of 20.025". Now find the line on the vernier which corresponds exactly with the line above. The example shows it to be the 15th line (.015"). This is added to the 20.025" to equal 20.040" which is the true inside diameter reading of the part.

Inside diameter tapes are manufactured at 68° F under no tension. All inside diameter tapes are marked I.D. and are calibrated for direct inside diameter readings.

As a suggestion for checking large diameters – pieces of masking tape can be used to hold the tape in the proper parallel position.

Tape resolution is ± .001" with an accuracy of ± .003" on standard ranges up to 36".
Standard range tapes over 36" and extended range tapes have an accuracy of ± .005".

Care

When not in use, wipe clean and apply a light rust preventative oil. Store tape in container.

No periodic adjustments are needed.

Make certain the tape has not been stepped on or kinked which may destroy the accuracy.