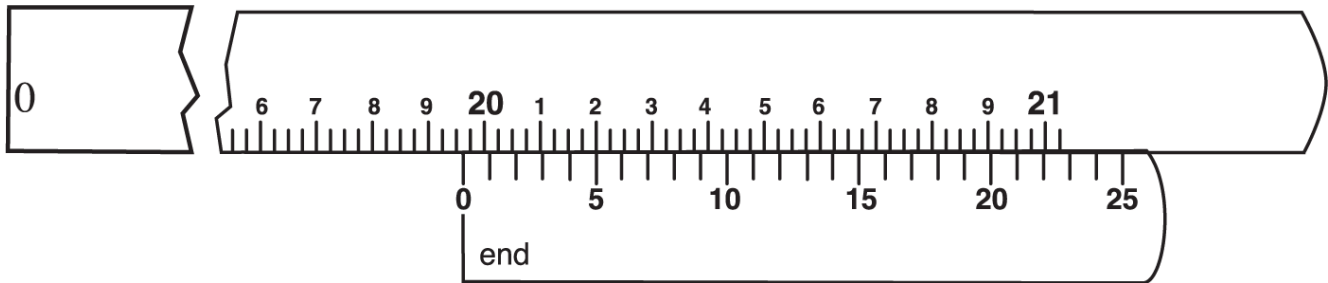




# PI TAPE CORPORATION

## READING A LINEAR TAPE WITH A VERNIER SCALE

LINEAR TAPE



VERNIER SCALE

Place the linear tape on a flat surface. Slide the linear tape alongside the part to be measured. Line up the zero end of the linear tape (left end) with the end of the part to be measured. Make certain the left end of the tape and the left end of the part to be measured line up exactly.

Line up the Vernier scale portion of the linear tape at the point where the part being measured ends. This will place the zero on the Vernier scale exactly at the right end of the part to be measured.

In the illustration, the divisions to the left of the Vernier zero are 19.900 inches plus 2 divisions or 19.950. The 5th line on the Vernier coincides with the line on the Linear Tape which represents .005". This is added to the 19.950, making a total linear reading of 19.955 inches.

As a suggestion for checking very large parts – pieces of masking tape can be used to hold the tape in proper parallel position. In many applications, magnets can also be used.

Pi Tape® linear tapes have a .001" resolution with a guaranteed accuracy of .005" up to 120".

### Care

- When not in use, wipe clean and apply a light rust preventative oil. Store tape and Vernier scale in container.
- No periodic adjustments are needed.
- Make certain the tapes have not been stepped on or kinked which may destroy the accuracy.