

Procedure 1101: How to Use a Dixon® Diameter Tape

effective 02/08

Preparation

- 1. One side of the Dixon® diameter tape is a standard measuring device. The other side is marked "INCHES OF DIA. BY 64THS" (see A in diagram one, on next page). This side of the tape measures OD (Outside Diameter).
- 2. Review markings on the diameter tape:
 - a. The unmarked line to the right of the "INCHES OF DIA. BY 64THS" label is the measurement line.
 - b. The number figures (1, 2, 3, etc.) with a line the width of the tape to the right of them indicate inches of diameter (see B in diagram one, on next page).
 - c. The number figures (16, 32 and 48) with a partial line below them are reference numbers. They identify $\frac{16}{64}$, $\frac{32}{64}$ and $\frac{48}{64}$ of an inch respectively (see D in diagram one, on next page).
 - d. The hash marks between the reference numbers represent $\frac{1}{64}$ of an inch, (see C in diagram one, on next page).

Notes

- 1. Many Dixon® clamping devices (example: Boss™ clamps, Holedall™ ferrules) are selected based on the OD of the hose on which they will be used. Each device has a minimum and maximum OD range. To ensure proper coupling performance, it is imperative that the clamping device selected be the correct size for the hose OD being used.
- 2. Always measure the OD on both ends of the hose.
 - a. Manufacturers may change dimensional specifications on their products without notification.
 - b. Allowable manufacturing tolerances in the hose may affect clamping device selection.
- 3. It is good practice to measure each hose end twice to ensure an accurate measurement.

Process

- 1. Grasping the diameter tape buckle, pull several inches of tape from the case.
- 2. With the diameter side of the tape facing up, loop the tape around the end of the hose keeping the loop 2-3" from the hose end.
- 3. Keep the buckle near the bottom of the loop.
- 4. Pull the tape tight to the hose.
- 5. The measurement line will line up with an inch of diameter mark, a reference number mark or a hash mark.
- 6. Read the hose OD:
 - a. If the measurement line lines up with a reference number or a hash mark to the LEFT of the 1" of diameter number, the OD of the hose is a fraction. The fraction uses the number of hash marks as the numerator and 64 as the denominator.
 - b. If the measurement line lines up with an inch of diameter number, the inches of diameter number is the OD of the hose (see diagram two, on next page).
 - c. If the measurement line lines up with a reference number to the RIGHT of the inches of diameter number, the hose OD is the inches of diameter number plus a fraction. The fraction uses the reference number as the numerator and 64 as the denominator (see diagram three, on next page).
 - d. If the measurement line lines up with a hash mark to the RIGHT of the inches of diameter number, the hose OD is the inches of diameter number plus a fraction. The fraction uses the number of hash marks to the RIGHT of the inches of diameter number as the numerator and 64 as the denominator (see diagram four, on next page).

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Diagram One

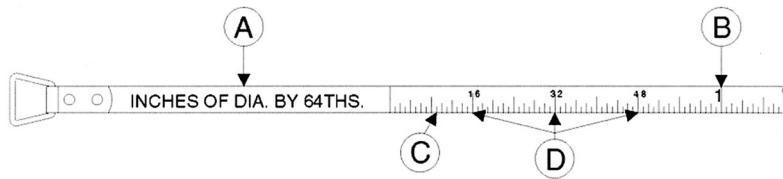


Diagram Two

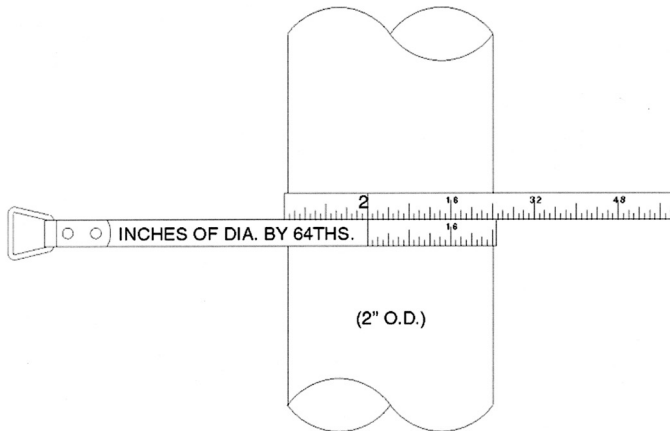


Diagram Three

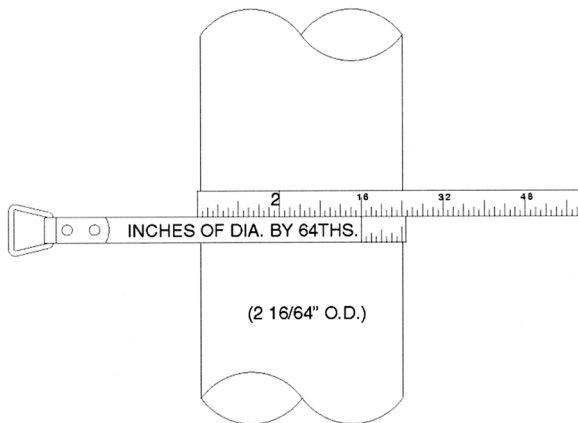


Diagram Four

