

### Torvane Instructions

Three sizes of vanes are supplied with each Torvane. The standard vane has a stress range from 0 to 1 kg/cm<sup>2</sup> (Approx. 1 ton/ft<sup>2</sup>). This is also the approximate range of torque that can be easily applied by finger pressure. It is used for fully saturated cohesive soils with undrained strength independent of normal pressure. The stress range permits it to be used for clays varying in consistency from very soft to stiff. A large vane is provided for use with remolded samples, and has a ratio of 0.2. A smaller vane with a ratio of 2.5 is used with stiffer clays.



1.) Select desired vane size and fit to vane driver.

2.) Make sure zero on dial is aligned with index mark on knob. A counter-clockwise rotation of the dial face, (**while holding onto the vane**) brings the zero mark on the dial face back to the index mark.

3.) Test surface should be reasonably flat and at least two inches in diameter. Press Torvane into soil to depth of blades and maintain a constant vertical pressure while turning the knob. A rate of rotation such that failure develops in five to ten seconds is recommended.

4.) After failure develops, release the remaining spring tension slowly and the index mark on the knob will indicate the maximum shear value.



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