

OPERATING INSTRUCTIONS

Proctor Penetrometer

29-3925

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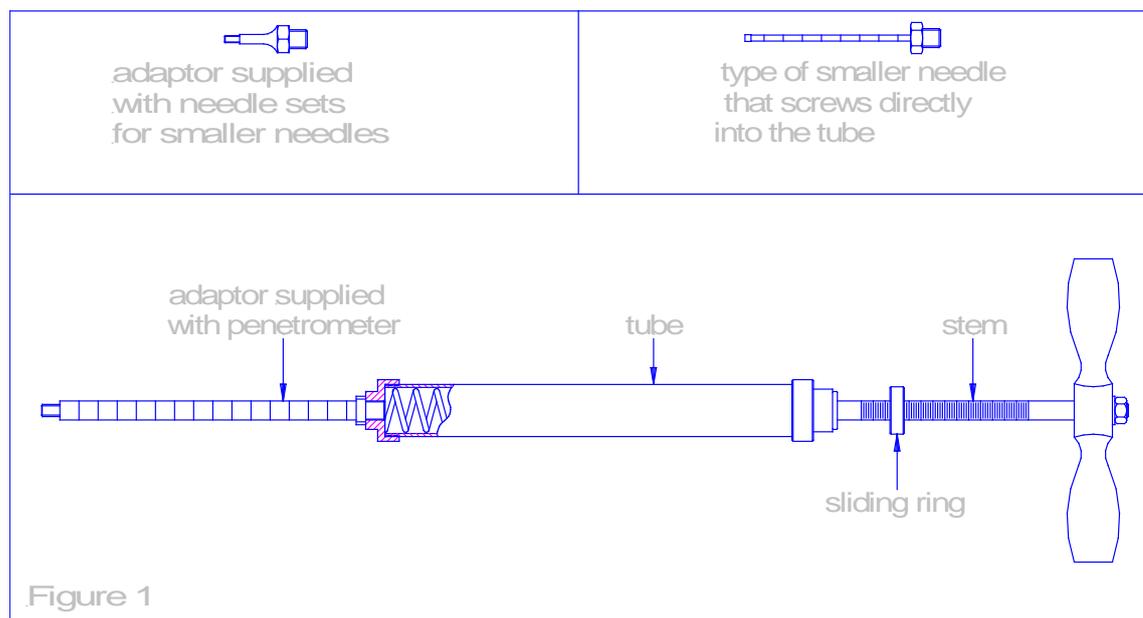
1 Introduction

The Proctor Penetrometer can be used either for establishing the moisture-penetration resistance relationship of fine-grained soils as determined by penetration testing or for the determination of setting-time of concrete mixes by penetration resistance.

The unit consists of a spring dynamometer with a pressure indicating scale on the stem of the handle. The scale is calibrated to 150 lbf in 2 lbf subdivisions. The applied load is read at the top face of the sliding ring.

The Proctor Penetrometer is supplied with a set of needles 29-3929. Refer to the Accessories & Spares section for details of other needle sets available.

Note: these instructions do not give details of test procedures. Please refer to the relevant standard for this information.



2 Assembly (refer to Figure 1)

The method of assembling the needles to the Proctor Penetrometer varies according to the size and type of needle to be used.

The unit is supplied with an adaptor screwed into the tube and this will accept needles from 1 – 1/5 in².

The needle sets are supplied with another adaptor for use with some of the smaller needles. This adaptor is fitted to the tube in place of the adaptor supplied with the Proctor Penetrometer.

Some of the smaller needles fit directly into the tube without the need for adaptors.

3 Accessories & Spares

29-3929 Set of needle points ASTM D1558

1, 3/4, 1/2, 1/3, 1/5, 1/10, 1/20, 130, 1/40 in² needles with adaptor for smaller needles.

34-0810 Set of needle points ASTM C403; AASHTO T197

1, 1/2, 1/4, 1/10, 1/20, 1/40 in² needles with adaptor for smaller needles.

29-3933 Wooden carrying case.