

Lateral Load Tester

LLT TYPE-M



GENERAL

The LLT Type "M" is an in-situ tester to evaluate the mechanical characteristics of soft ground. The LLT operates using inflatable rubber packers and mechanical properties are deduced from the relationship between applied stress and deformation. Three different diameter sondes (60,70, and 80 mm) are available to cover a wide range of borehole diameters. The water tank consists of four equi-dimensional cylinders enabling the user to select four different water volumes dependent on the sonde diameter. The whole system is packed in two carrying containers.

The LLT is able to evaluate the following foundation engineering static characteristics of the ground:

Modulus of subgrade reaction K value

Deformation modulus E value

Yield strength P_y

■ GENERAL

Maximum Loading

Pressure : 25kg/cm²
 (Maximum pressure to the probe is subject to the diameter of the test hole.)

Measuring Range (Diameter) of Borehole

60mmΦ Sonde : 65 to 120 mm
 70mmΦ Sonde : 75 to 130 mm
 80mmΦ Sonde : 85 to 140 mm

■ SONDE

Rubber Membrane

Outer Rubber : NBR Rubber
 Inner Rubber : Natural Rubber (NR)

Dimensions

60mmΦ Sonde : 1010 mm, 7.8 kg
 70mmΦ Sonde : 1030 mm, 11.5 kg
 80mmΦ Sonde : 900 mm, 12.0 kg

■ MEASURING UNIT

Water Tank : 60 mm (I.D.), 65 mm (O.D.), 880 mm (L),
 4pcs

Capacity : (Effective) 1.7 Litre/Piece

Standpipe : 12 mm (O.D.), 6 mm (I.D.), 600 mm (L)
 Reinforced Glass with Protective Acrylic Resin Pipe.

Carrying Container : 530 (W) x 200 (H) x 995 (D) mm
 40 kg (Packed Condition)

■ ACCESSORIES

Regulator Valve

Input : 150 kg/cm² (max.)
 Output : 50 kg/cm² (max.)

High Pressure Air Hose

: 6 mm (I. D.), 15 mm (O.D.), 5 mm (L)

Nylon Tubing

: 6 mm (I.D.), 4 mm (O.D.), 100 mm (L) x 2 pcs

Length is optional according to survey condition (max. 30 m)

Carrying Container

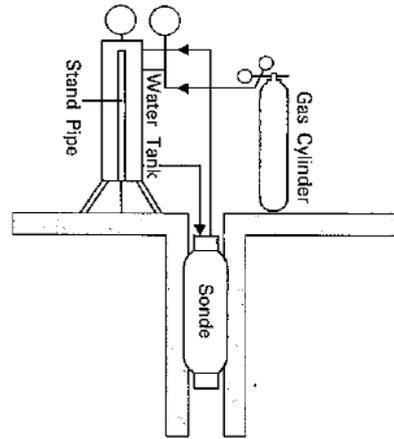
: The same size with that of measuring unit. 40 kg (Packed Condition)

■ OPTION

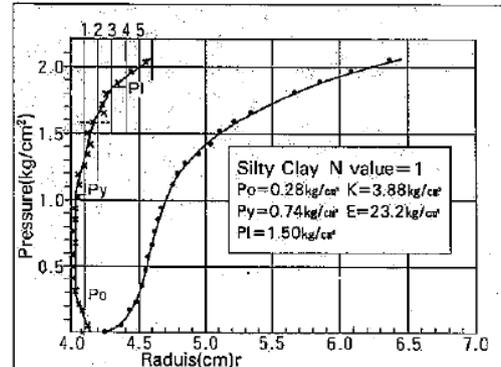
Gas Cylinder for Nitrogen Gas

Inner Pressure : 150 kg/cm²
 Dimensions : 140 mm Φ x 1050 mm (H)
 Weight : 16 kg

*Nitrogen gas should be filled locally.



EXAMPLE



JQA-2772

Please note specifications are subject to change without notice for the improvement.

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