

MTE - PRESSURIZED CEMENT CONSISTOMETER

MODEL No. CMNT-003

INTRODUCTION

MTE Pressurized Cement Consistometers are used to evaluate the thickening time or pumping time of a cement slurry under simulated downhole conditions of temperature and pressure. The Model CMNT-003 is capable of performing all of the thickening time test schedules as published by the API in Specification 10, and any modified testing procedures which can be programmed into the unit by the operator. The testing of cement slurries under simulated downhole conditions is necessary to ensure that the operator can achieve an efficient and effective cementing application. To ensure comparative results, the cement, cement additives, and mix water used in the slurry design for testing in the consistometer should consist of the same materials and be mixed in the same order as planned for field application.

Pressurized consistometers are used worldwide by most of the cement manufacturers, service companies, and major oil companies to greatly enhance the quality of products, service, and job performance for oilwell cementing operations. Efficient cementing applications contribute to better hydrocarbon production from the reservoir, and a longer, more profitable lifespan of the well.

DESCRIPTION

The MTE Pressurized Consistometers are patterned from the original Pan American thickening time testers. However, this apparatus incorporates the latest in design technology and operating features available in the industry. The Model CMNT- 003 is constructed of the finest stainless steel cabinet and component parts. Messina units can be manufactured using single cell or double cell designs to meet your requirements. The MTE Pressurized Consistometer can be custom-built to our customers' temperature and pressure specifications up to a maximum operating temperature of 600° F (315° C) and a maximum operating pressure of 40,000 psi (275 MPa). Some of the additional features include:

- Magnetic (Packless) Drive
- Digital Instrumentation Package
- Programmable Controls



- Two Channel Strip Chart Recorder (Temperature and Slurry Consistency)
- Signal Alarms for Consistency and Time
- Remote Control Operation (optional)
- Available in 220-240V, 50Hz/60Hz or 380-440V, 3 phase, 50Hz/60Hz Messina consistometers are compatible with those produced by other well-known manufacturers to provide correlatable test results. Many of the parts in Messina's consistometer are interchangeable with other units.

CERTIFICATION

Messina's manufacturing facilities employ designers, engineers, and craftsmen with many years of experience in the manufacture of pressurized consistometers and other "state-of-the-art" testing equipment. The MTE Pressurized Consistometer is calibrated, pressure tested, and performance checked by Messina prior to shipment and is guaranteed against manufacturing defects. Each unit comes complete with operating/calibration instructions and spare parts list. Shipping dimensions are 48"W X 32"D X 52" H, shipping weight approximately 1,300 lb. The MTE double cell consistometer is slightly wider (60 inches), shipping weight is approximately 1,900 lb. Contact Messina Incorporated, Dallas, Texas for further information.

