Grace INSTRUMENT
SCIENTIFIC INNOVATIONS • INDUSTRIAL SOLUTIONS

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M3080

Variable Speed Mixer

Customizable speed sequences

Users can create custom speed and timing sequences using the M3080 Variable Speed Mixer controls. This allows the creation of mixing sequences which are exactly configured to meet the requirements of your test fluids and cements. Then, once created, these customized sequences can be run automatically, at the touch of a button. Alternatively, two constant speed ranges, 4,000 rpm and 12,000 rpm, are also available automatically, allowing the user to choose an API speed while adding cement.

Lightweight, durable design

A steel structure supports a mixer component featuring a stainless-steel mixing container.

The M3080 Variable Speed Mixer is specifically designed to meet oil industry testing requirements. It functions as a mixer for cement and other shear-sensitive dry or fluid materials and complies with all existing API guidelines.

In addition, when testing cement, wide variations in shear rate are avoided as the M3080 holds the speed constant for 15 seconds (as specified by API Spec 10, Sec. 5) without operator attention, so that the cement can be added slowly.

- Durable stainless steel mixing blades
- 1L stainless steel mixing container that can withstand abrasive action
- Two preset mixing speeds
- Variable speeds
- Complies with all API standards
- Microprocessor-controlled speeds allow operator to set customized speed acceleration rate
- User-friendly LCD display of rpm and time
- Rotational speed is maintained at set point with microprocessor
- Timing relays automatically control mixing at the required rpm
- No variation in thickening time tests due to changes in shear rate
- Operator can quickly select API speeds while adding cement to mixer

Mechanical Specifications:

Two Constant Speed Ranges:
4,000 rpm and 12,000 rpm
RPM Range:
1,000 rpm (Minimum)
22,000 rpm (Maximum)
Dimensions / Footprint:
26" tall x 16" wide x 11" deep
Weight: 35 lbs
Construction: Stainless steel

Utility Requirements:

Electrical Supply Voltage: 115 VAC to 220 VAC
(Can be operated with 1.25 KVA power supply)
Line Frequency: 50 to 60 Hz
Power: 800 W