

# Pressurized Fluid Density Scale

**Brand:** OFI Testing Equipment, Inc.  
**Product Code:** 100-70  
**Availability:** 21  
**Lead Time:** 60



## Description

### Introduction

Drilling fluids and cement slurries often have a considerable amount of entrained or trapped air that may give erroneous results when determining fluid density using conventional equipment. This air volume may be reduced or eliminated by pressurizing the sample cup, which will then give more accurate density readings of the fluid itself.

The OFITE Pressurized Fluid Density Scale is similar to a standard mud balance. A sample cup of known volume is balanced by a fixed counterweight at the opposite end of a balance beam. A sliding weight rider moves along the graduated scale and a level bubble on the beam indicates when the system is in balance. The position of the rider on the graduated scale indicates the density of the sample.

### Features

- **Durability:** The machined stainless steel construction is stronger, less susceptible to corrosion, and more consistent from unit to unit.
- **Ease of Use:** The smooth finish is easy to clean and the laseretched scales are clear and easy to read. The more consistent construction makes calibration easier.

### Specifications

- **Density Measurement Ranges**
  - 52 - 164 lb / ft<sup>3</sup>

- 6.9 - 21.9 ppg
- .83 - 2.63 specific gravity
- 360 - 1130 PSI / 1000 ft

## Components

- #100-29: Level Bubble Vial
- #100-56: Steel Shot for Calibrating
- #100-60-09: Check Valve
- #100-60-24: Retaining Ring for Check Valve
- #100-70-02: Lid
- #100-70-03: Cap
- #100-70-04: Rider
- #100-70-05: Shotwell
- #100-70-06: O-ring for Lid
- #100-70-07: Plunger Assembly
  - #100-60-13: Packing Cup
  - #100-60-14: Backup Washer
  - #100-60-18: Screw, Shoulder
  - #100-70-010: Knob
  - #100-70-11: Piston Rod
  - #100-70-13: Compression Cylinder
  - #100-70-14: Lower Cap
  - #100-70-15: Upper Cap
  - #170-07: O-ring
- #100-70-08: Carrying Case
- #100-70-24: Base
- #115-00-002: Set Screw for Knife Edge
- #115-32: Knife Edge
- #142-54: O-ring for Check Valve Nozzle
- #142-56: O-ring for Check Valve

## Part Number

- #100-70