



## DRILLING FLUIDS EQUIPMENT

For over 30 years OFI Testing Equipment (OFITE) has provided instruments and reagents for testing drilling fluids, well cements, completion fluids, and wastewater. In addition to these product lines we also offer a range of instruments for core analysis. From our manufacturing facility in Houston, TX we provide customers all over the world with quality products and exceptional service.

Our drilling fluids product line includes innovative designs such as the Model 900 Viscometer, which showcases our ability to develop new technology to meet customer and industry demands. We also offer Retorts, Aging Cells, Roller Ovens, Mud Balances, Filter Presses, and all other instruments required to evaluate drilling fluid properties according to API Recommended Practice 13B-1 and 13B-2.

As an independent manufacturer and supplier, OFITE has one priority, our customers.

### **API Filter Press, Bench Mount, with Regulator and Hose**

The API Pressure Filter Press provides a quick, easy way to evaluate the filtration properties of a drilling fluid. This instrument consists of a pressure cell, frame, filter medium, graduated cylinder, regulator, and hose. It conforms to API specifications, and is suitable for both field and lab use.



### **Features**

- Stainless steel test cell
- Built-in pressure regulator
- Best suited for laboratory use
- Conforms to API specifications
- For Nitrogen and CO<sub>2</sub> Pressurization
- Nitrogen Tank not included





## Technical Specifications and Requirements

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- #140-31 API Filter Press, Bench Mount, with Regulator and Hose

### Specifications

- Working Pressure: 100 PSI (689.5 kPa)
- Working Temperature: Ambient
- Filtration Area:  $7.1 \pm 0.1 \text{ in}^2$  ( $4,580 \pm 60 \text{ mm}^2$ )
- Working Volume: 400 mL

## Optional

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#155-20 - Interval Timer



#170-37 - Nitrogen Cylinder

## ***Intro***

Measurements of filtration behavior and wall cake-building characteristics of a drilling fluid are fundamental to control and treatment of drilling fluids, as are various characteristics of the filtrate such as oil, water, or emulsion content. These factors are affected by the types and quantities of the solids in the fluid and their physical and chemical interactions, which in turn are affected by changing temperatures and pressures.

The OFITE low pressure filter press helps determine filtration and wall cake-building properties of drilling fluids. The filter press design features a cell body to hold the mud sample, a pressure inlet, and a base cap with screen and filter paper.

The pressure cell is designed so that a 3½" (9 cm) sheet of filter paper can be placed in the bottom of the chamber to remove particles from the fluid. The filtration area is  $7.1 \pm 0.1 \text{ in}^2$  ( $4,580 \pm 60 \text{ mm}^2$ ). Pressure may be applied with any non-hazardous fluid medium, either gas or liquid. Some models are equipped with pressure regulators and may be pressurized with portable pressure cylinders, midget pressure cartridges, or hydraulic pressure.

Suitable for field and laboratory use, OFITE Filter Presses have become the industry standard for low pressure/low temperature filtration testing.

# Components

#140-55 Filter Paper for Low Pressure; 3½" (9.0 cm); Box of 100  
#141-00 Test Cell  
#141-01 Base Cap  
#141-02 Top Cap  
#141-04 Screen; 60 Mesh  
#141-05 Neoprene Gasket; Qty: 3  
#141-08 Bench-Mount Frame  
#141-09 Threaded Insert with Set Screw  
#141-10 T-Screw  
#141-11 Support For Graduated Cylinder  
#141-12 Support Rod  
#141-14 Air Hose; 3'; Low Pressure  
#141-18 Thumb Screw  
#141-19 Air Hose Adapter  
#141-22 Felt Filter; Qty: 2  
#143-00 Regulator  
#143-01 Gauge; 200 PSI; ⅛" Bottom Connection  
#143-06 Safety Bleeder Valve  
#153-16 Graduated Cylinder; Glass; 25 mL × ⅓ mL

## **#140-31-SP Spare Parts for #140-31:**

#140-55 3½" (9 cm) Filter Paper; Low-Pressure; WLP; Box of 100;  
Qty: 3  
#140-60-01 O-ring for Bleeder Valve; Qty: 2  
#141-04 60-Mesh Screen; Qty: 2  
#141-05 Neoprene Gasket; Qty: 6  
#141-22 Felt Filter; Qty: 4  
#143-00-1 Diaphragm for Airco Regulator  
#143-07 Repair Kit for #143-00  
#153-16 Graduated Cylinder; 25 mL × ⅓ mL