

# Permeability Plugging Tester, 2000 PSI

**Brand:** OFI Testing Equipment, Inc.  
**Product Code:** 171-90  
**Availability:** Call for availability

## Description

The Permeability Plugging Tester (PPT), is a modification of the 500 mL HTHP Filter Press. The instrument is used for running filtration tests on plugging materials without the interference of particles settling on the filter medium. Typical differential pressures are much higher than those seen in standard HTHP filtration testing. The pressure cell is the same as that used on the HTHP Filter Press, but it is inverted with the filter and receiver on top. Several filter media may be used, such as ¼" thick fused aluminum oxide disks, conventional filter paper, or sintered metal filters. The cell is pressurized with hydraulic oil (#171-96-1). A floating piston separates the oil from the test fluid within the pressurized cell. The conventional cell may be operated to 2,000 PSI by using hardened steel set screws to secure the end caps. For elevated pressures, OFITE has designed a special cell with a working pressure of up to 4,000 PSI, pressurized with the conventional hydraulic pump.

## Components

- #153-14: Graduated Cylinder, 50 mL × 1 mL, Glass
- #154-20: Thermometer with Metal Dial, 8" Stem, Dual Scale: 50° - 500°F / 0° - 250°C
- #170-04: CO<sub>2</sub> Pressuring Assembly
- #170-17: O-ring for Valve Stem, Viton®
- #170-19: Filter Paper, 2.5" (6.35 cm) Diameter, Box of 100
- #170-53: Ceramic Filter Disk, 50 Micron
- #170-73: Cell Cap for Ceramic Disks, Scribed, Extra Long
- #171-00: Heating Jacket, 800 Watt, 115 Volt
- #171-01: Heating Jacket, 800 Watt, 230 Volt
- #171-10: Back Pressure Receiver, 100 mL
- #171-23-1: Safety Pin with Lanyard
- #171-27: Hose, 5000#, 3/16" × 6'
- #171-90-18: Cell Assembly with Floating Piston, 2000 PSI
- #171-42: Gauge, 3000 PSI
- #171-83: Valve Stem Assembly, Hydraulic Entry
- #171-83-1: Valve Stem Assembly, Outlet
- #171-84-02: Reducing Bushing, 3/8" MNPT × 1/8" FNPT
- #171-90-02: Quick Connect Coupler, Female
- #171-90-04: Cross, 1/4" NPT
- #171-90-07: Hex Nipple, 1/4" NPT
- #171-90-11: Elbow for Back Pressure Receiver
- #171-90-12: Elbow for Hydraulic Pressure Assembly
- #171-90-13: Adapter, 1/4" Flare × 1/4" MNPT
- #171-90-14: Hose Barb
- #171-90-15: Crescent Wrench, Adjustable, 6"
- #171-92: Relief Valve, 2200 PSI
- #171-96: Handpump
- #171-96-1: Hydraulic Oil, 32 Oz
- #171-98: Ball Valve for Hydraulic Pressure Assembly
- #171-99: O-ring for Piston, Viton®

<h2>Optional</h2> <ul> <li>#143-05: CO<sub>2</sub> Bulbs, Box of 10,  
UN2037</li> <li>#171-10: Back Pressure Receiver, 100 mL (For Conventional  
Filtration)</li> <li>#171-90-SP: Spare Parts Kit</li> </ul> <h2>Part Numbers</h2>  
<ul> <li>#171-90: 115 Volt</li> <li>#171-90-01: 230 Volt</li> </ul>