

GE
Sensing

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35 Vantage Point Drive Rochester, NY 14624
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Features

- Hydraulic comparison test pumps to 20,000 psi (1400 bar)
 - Pneumatic comparison test pumps to 3,000 psi (210 bar)
 - Liquid/Liquid media separators to 10,000 psi (700 bar)
 - Liquid/Gas media separators to 3,000 psi (210 bar)
 - Dirt/Moisture traps to 3,000 psi (210 bar)
 - Adapters and other accessories
-

P5500 Series

Hydraulic and Pneumatic Comparison Test Pumps, Media Separators and Accessories

The P5500 Series is a Pressurements product. Pressurements has joined other GE high-technology sensing businesses under a new name—GE Industrial, Sensing.



GE Sensing

Hydraulic Comparison Test Pumps

The Pressurements Series of hydraulic test pumps are used for checking pressure measuring instruments against master test gauges, indicators or transducers. These cost effective instruments, which include several features from our popular line of hydraulic deadweight testers, are capable of easily generating high pressures and provide precise control for important calibration requirements.

Model P5515

Pressure range 0 to 20,000 psi (1,400 bar)

Features

- Built-in pump for large volume applications and system priming
- High quality screw press for fine pressure control
- Acrylic reservoir for visibility of fluid level and quality
- Test port adapters that require no polytetrafluoroethylene (PTFE) tape or wrenches
- Built-in drain plug for removal of old fluid
- Sturdy carrying case with lid
- Operational with a wide range of fluids*

Specifications

Pressure Range

0 to 20,000 psi (1,400 bar)

Test Port Adapters

(2 sets) 1/8, 1/4, 3/8 and 1/2 NPT or BSP

Instrument Weight

36 lb (16 kg)

Instrument Size (W x D x H)

17.5 x 12 x 8.5 in
(440 x 300 x 215 mm)

Reservoir Volume

150 cc

Screw Press Displacement

5.5 cc

Pump Displacement

4.7 cc per stroke



Model P5514

Pressure range 0 to 10,000 psi (700 bar)

Features

- Bench mount design
- Screw press for fine pressure adjustments
- Test connections can be made without the need for PTFE tape or wrenches
- Operates with a wide range of fluids*

Specifications

Pressure Range

0 to 10,000 psi (700 bar)

Test Port Adapters

(2 sets) 1/8, 1/4, 3/8 and 1/2 NPT or BSP

Instrument Size (W x D x H)

11 x 11 x 10 in
(280 x 280 x 254 mm)

Instrument Weight

11 lb (5 kg)

Reservoir Volume

75 cc

Screw Press Displacement

20 cc

* Fluid Media

Both the P5515 and P5514 are designed for use with a wide range of fluids.

The standard O-ring seals are Nitrile®, Viton® or Ethylene Propylene seals are available for use with solvents, fuel oils, brake fluids or other similar aggressive fluids.

Model	O-rings	Model	O-rings
P5515	Nitrile	P5514	Nitrile
P5515-V	Viton	P5514-V	Viton
P5515-EP	Ethylene Propylene	P5514-EP	Ethylene Propylene

GE Sensing

Pneumatic Comparison Test Pumps

These pneumatic comparison test pumps are designed for testing pressure measuring instruments against master test instruments. These cost effective instruments provide precise control for important calibration requirements and include many features found in our popular line of pneumatic deadweight testers.

Model P5510

Pressure range 0 to 300 psi (20 bar)

Vacuum range 0 to 24 inHg (800 mbar)

Features

- Dual pressure/vacuum capability
- Bench mount design
- Built-in handpump as pressure/vacuum source
- High quality needle valve for fine control
- Test port adapters that require no PTFE tape or wrenches

Specifications

Pressure Range

0 to 300 psi (20 bar)

Vacuum Range

0 to 24 inHg (800 mbar)

Instrument Size (W x D x H)

9.5 x 13 x 7 in (240 x 330 x 180 mm)

Instrument Weight

7.5 lb (3.5kg)

Test Port Adapters

2 sets 1/8, 1/4, 3/8, and 1/2 NPT or BSP



Model P5513

Pressure range 0 to 3,000 psi (210 bar)

Features

- High pressure pneumatic operation
- Screw press for fine pressure adjustments
- High quality needle valves for fine control
- Test port adapters which require no PTFE tape or wrenches
- Sturdy carrying case with lid

**Note --- Unit requires pressure source (i.e. nitrogen bottle) for operation.*

Specifications

Pressure Range

0 to 3,000 psi (210 bar)

Instrument Size (W x D x H)

17.5 x 12 x 8.5 in (440 x 300 x 215 mm)

Instrument Weight

17 lbs (8 kg)

Test Port Adapters

2 sets, 1/8, 1/4, 3/8 and 1/2 NPT or BSP

Gas Supply Connection

1/4 NPT female

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Media Separators

Liquid/Liquid and Liquid/Gas media separators are provided as a barrier between the deadweight tester operating fluid and that of the device under test.

Liquid to Liquid

Model 5521

Pressure range 0 to 10,000 psi (700 bar)

Model 5522

Pressure range 0 to 7,000 psi (480 bar)
for Skydrol and other aggressive fluids

These liquid-to-liquid separators connect directly to the test port of a hydraulic deadweight tester or comparison test pump. A flexible diaphragm separates the fluids, protecting the calibrator from contamination and allows calibration of the device in its specific working fluid.

Specifications

Instrument Size (W x H)

4 x 6 in (100 x 150 mm)

Instrument Weight

7.5 lb (3.5 kg)

Test Port Adapter

Uses adapters supplied with calibrator

Calibrator Connection

3/8 BSP male (mating adapter supplied)

Body Material

Aluminum bronze

Diaphragm

5521- Viton® 5522-Ethylene Propylene

Reservoir Material

Hard-anodized aluminum



Liquid to Gas

Model 5523

Pressure range 0 to 3,000 psi (210 bar)

For high pressure pneumatic calibrations this unit interfaces with hydraulic deadweight testers providing a rateless liquid-to-gas separation. Driven by a pneumatic pressure source (nitrogen bottle) and controlled by needle valves, high pressure gas is balanced against the liquid in a hydraulic deadweight tester through a series of fluid traps.

** Note---since fluid mist may be transferred during operation we do not recommend this device for oxygen-safe instruments using an oil operated deadweight tester.*

Specifications

Instrument Size (W x D x H)

17.5 x 12 x 8.5 in (440 x 300 x 215 mm)

Instrument Weight

24 lb (11 kg)

Test Port Adapters

2 sets, 1/8, 1/4, 3/8 and 1/2 NPT or BSP

Gas Supply Connection

1/4 NPT female



Dirt/Moisture Traps

Dirt/Moisture Traps provide an effective barrier against the transfer of moisture and dirt from an instrument under test to the sensitive piston/cylinder assembly of a pneumatic deadweight tester. Unexpected particle contamination or fluid inside the device under test will be prevented from entering the deadweight system, avoiding downtime for maintenance or repair. Designed for operation in the vertical position these traps are simple to dismantle and easy to clean.

Model 5531

Pressure range 0 to 500 psi (35 bar)

Designed to mount directly on the deadweight tester and featuring an acrylic chamber for visibility of contaminants this unit utilizes the standard test port adapters for easy instrument connections.

Specifications

Pressure Range

0 to 500 psi (35 bar)

Body Material

Stainless steel

Chamber Material

Acrylic

O-Rings

Nitrile

Test Port Connection

As supplied with calibrator

Deadweight Connection

3/8 BSP male (mating adapter supplied)



Model 5532

Pressure range 0 to 3,000 psi (210 bar)

This high pressure version is provided with an aluminum central chamber for safety and utilizes the standard test port adapters.

Specifications

Body Material

Stainless steel

Chamber Material

Aluminum

O-Rings

Nitrile

Test Port Connection

As supplied with calibrator

Deadweight Connection

3/8 BSP male (mating adapter supplied)



Model 5544 Two Gauge Stand

This adapter mounts directly to the test port of the calibrator and allows for the calibration of two instruments at the same time or the connection of a reference test instrument. Maximum working pressure is 10,000 psi (700 bar).

Specifications

Body Material

Brass and Stainless steel

O-Rings

Nitrile

Test Port Adapters

1 set, 1/8, 1/4, 3/8 and 1/2 NPT or BSP and adapters supplied with calibrator

Calibrator Test Connection

1/2 BSP male (mating adapter supplied)



Model 5551 Pointer Remover/Punch

This tool is designed to quickly remove and consistently refit the pointer of a pressure gauge.



Model 5543 Angle Adapter

To calibrate gauges with the pressure connection on the rear (e.g. panel mount gauges) In their correct operating position, an angle adaptor should be used. The angle adapter uses the standard gauge adapters and positions the gauges at 90°. The maximum working pressure of this Unit is 10,000 psi (700 bar)

Specifications

Body materials

Stainless steel

O-Rings

Nitrile

Test Port Adapters

as supplied with calibrator

Calibrator Connection

3/8 BSP male (mating adapter supplied)



Adapter Sets

5540 Metric

M14 x 1.5, M20 x 1.5, 1/8 and 1/4 BSP

5541 BSP

1/8, 1/4, 3/8 and 1/2 BSP

NPT

1/8, 1/4, 3/8 and 1/2 NPT



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