

P5513 Pneumatic Pressure Comparator

Highlights

A pressure comparator supplies the same precisely controlled pressure to both a reference gauge and device under test for calibration. The **Fluke P5513** is ideal for pneumatic calibration workload over 300 psi.

- High pressure pneumatic operation
- Screw press for fine pressure adjustments
- High quality needle valves for fine control
- Sturdy carrying case with lid
- Can be used with the 2700G Reference Pressure Gauge to provide a complete calibration solution

Make it a Pressure Calibrator (P5513-2700G)

The Fluke Calibration P5513 Pressure Comparator when combined with the 2700G Reference Pressure Gauges becomes an easy-to-use alternative to traditional deadweight testers that covers a wide range of workload. For convenience, the P5513 is bundled together with selected 2700G Reference Pressure Gauges for a complete bench top pressure calibration solution. These pressure calibrators provide the accuracy, reliability, and capability you need to calibrate dial gauges, digital test gauges and pressure transmitters.

For example, the P5513-2700G-3 is a P5513 Pressure Comparator, bundled together with 2700G-G20M, 2700G-BG7M, 2700G-BG700K. This calibrator has three pressure ranges corresponding to the three 2700G Reference Pressure Gauges in the bundle and covers a total pressure range of -12 psi to 3000 psi (-80 kPa to 20 MPa).

The accuracy of the calibrator is equal to the accuracy of the 2700G Reference Pressure Gauge being used: $\pm 0.02\%$ full scale of positive pressure or $\pm 0.05\%$ of full scale for vacuum.

Description

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

This pneumatic comparison pressure comparator is designed for testing pressure measuring instruments against master test instruments. This cost effective instrument provides precise control for important calibration requirements and include many features found in our popular line of pneumatic deadweight testers.

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

Specifications

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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

Models and Accessories

Model Name	Description
P5513-20M	Pneumatic Comparison Test Pump
P5513-2700G-1	P5513 Pneumatic Calibrator, 20 MPa (3000 psi), 1 Gauge (2700G-G20M)
P5513-2700G-1/C	P5513 Pneumatic Calibrator, 20 MPa (3000 psi), 1 Gauge Accredited
P5513-2700G-3	P5513 Pneumatic Calibrator, 20 MPa (3000 psi), 3 Gauges (2700G-G20M, 2700G-BG7M, 2700G-BG700K)
P5513-2700G-3/C	P5513 Pneumatic Calibrator, 20 MPa (3000 psi), 3 Gauges Accredited

Accessories common to all models:

Accessory	Description
P5540 Metric and P5541 BSP Adapter Sets	<p>P5540 Metric M14 x 1.5, M20 x 1.5, 1/8 and 1/4 BSP</p> <p>P5541 BSP 1/8, 1/4, 3/8 and 1/2 BSP</p> <p>P5542 NPT 1/8, 1/4, 3/8 and 1/2 NPT</p>
P5543 Angle Adapter	To calibrate gauges with the pressure connection on the rear (for example, 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).
P5544 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).
P5551 Pointer Remover / Punch	This tool is designed to quickly remove and consistently refit the pointer of a pressure gauge.

Product Images



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