

## TECHNICAL DATA

# Fluke Calibration P3031 and P3032 Pneumatic Deadweight Testers



## Key features

- Pressure ranges to 2000 psi (140 bar)
- 0.015% of reading accuracy (0.008% optional)
- Screw press for fine pressure control
- Piston flotation indicator
- Mounted spirit level with adjustable feet
- Series 3 non-magnetic stainless steel weights

## Product overview: Fluke Calibration P3031 and P3032 Pneumatic Deadweight Testers

The Models P3031 and P3032 feature a gas driven oil lubricated piston/cylinder assembly which ensures that the instrument is less susceptible to performance issues due to contamination or the operating environment. These gas driven deadweight testers eliminate the maintenance issues associated with conventional high pressure pneumatic deadweight testers. The supply gas acts directly on the oil lubricated pistons so there is no effect on system accuracy.

# Specifications: Fluke Calibration P3031 and P3032 Pneumatic Deadweight Testers

## Accuracy

Accuracy*	±0.015% of reading (±0.008% optional)
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\*Accuracy based on % of reading from 10% to 100% of the piston range when used in accordance with the corrections found on the calibration certificate. Below 10% ± (accuracy class) x 10% of the piston range.

## Mass and PCU Materials of Construction

Standard weight material	Series 3 non-magnetic austenitic stainless steel
Weight density	7.8 g/cm <sup>3</sup>
Optional fractional weights	Solution heat treated aluminum
Weight density	2.7 g/cm <sup>3</sup>
Models (P) P3031, P3032 (P & V)	Piston Material: Tungsten carbide Cylinder Material: Martensitic steel Coefficient of Expansion: 16.5 ppm/°C

## General

Test port adaptors	1/8, 1/4, 3/8 and 1/2 NPT or BSP
Instrument weight	24 lbs
Instrument size	17.5 W x 12 D x 8.5 H
Mass set weight (typical)	65 lbs

## Minimum Standard Weight Increments

P3016, P3031, P3032	1 psi, (0.1bar)
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## Optional Fractional Weights

P3014, P3015, P3025 Pressure	0.1 psi (0.01 bar)
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## Built-in Hand Pumps

Pressure mode	Max pressure 300 psi (20 bar)
Vacuum mode	To 90% vacuum

## Operating Fluid for Liquid Lubricated Models

55-655	mineral oil (standard)
Krytox	for oxygen-safe applications (optional)

## Options

PressCal Software	Windows-based software program that allows users to easily apply all necessary corrections to enhance the deadweight tester performance. Calibration details are then stored and/or used to automatically create a calibration certificate. PressCal is provided as standard with all 0.008% instruments.
Krytox	As operating fluid for liquid lubricated gas operated models.

## Ordering information



### **P3031-KGCM2**

P3031-KGCM2 Liquid Lubricated Gas Operated Model

Pressure Range 1 to 70 kgf/cm

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### **P3031-KPA**

P3031-KPA Liquid Lubricated Gas Operated Model

Pressure Range 100 to 7,000 kPa

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### **P3031-MPA**

P3031-MPA Liquid Lubricated Gas Operated Model

Pressure Range 0.1 to 7 Mpa

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### **P3032-BAR**

P3032-BAR Liquid Lubricated Gas Operated Model

Pressure Range 1 to 140 bar

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### **P3032-KGCM2**

P3032-KGCM2 Liquid Lubricated Gas Operated Model

Pressure Range 1 to 140 kgf/cm

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### **P3032-PSI**

P3032-PSI Liquid Lubricated Gas Operated Model

Pressure Range 10 to 2,000 psi

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**P3032-KPA**

P3032-KPA Liquid Lubricated Gas Operated Model

Pressure Range 100 to 14,000 kPa

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**P3032-MPA**

P3032-MPA Liquid Lubricated Gas Operated Model

Pressure Range 0.1 to 14 Mpa

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**P3031-PSI**

P3031-PSI Liquid Lubricated Gas Operated Model

Pressure Range 10 to 1,000 psi

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**P3031-BAR**

P3031-BAR Liquid Lubricated Gas Operated Model

Pressure Range 1 to 70 bar

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