

Comprobadores neumáticos de peso muerto Fluke Calibration P3000



Características principales

- 0.015 % del estándar de precisión de lectura (0.008 % opcional)
- vacío 1-30 in Hg (vacío 0.03-1 bar)
- Presión de 3-500 psi (0.2-35 bar)
- in H₂O y rangos mbar disponibles
- Pesas de acero inoxidable diamagnético serie 3
- Las unidades se pueden ajustar a la gravedad local FOC

Descripción general del producto: Comprobadores neumáticos de peso muerto Fluke Calibration P3000

Con estos instrumentos tan versátiles pueden realizarse calibraciones desde un vacío de 1 a 30 in Hg (0.03-1 bar) y 3 a 500 psi (0.2-35 bar) en un patrón primario extremadamente preciso y fácil de usar. Una válvula selectora convierte la unidad de modo de presión a modo de vacío sin necesidad de intercambiar los pistones. Las unidades se fabrican conforme a los estándares más altos con precisión certificada trazable según los laboratorios de estándares internacionales como el Instituto Nacional de Normas y Tecnología (NIST). Estos estándares neumáticos de tipo pistón/cilindro ofrecen una estabilidad, repetibilidad y precisión excelentes. Existe la opción de agregar una bomba integrada para generar tanto presión como vacío.

Especificaciones: Comprobadores neumáticos de peso muerto Fluke Calibration P3000

Precisión		
Precisión ¹	±0.015 % de la lectura (±0.008 % opcional)	
1. Precisión basada en el % de lectura de 10 % a 100 % del rango del pistón cuando se usa de acuerdo con las correcciones indicadas en el certificado de calibración. Por debajo del 10 % ± (clase de precisión) x 10 % del rango del pistón.		
Masa y materiales de construcción de PCU		
Material de peso estándar	Acero inoxidable austenítico y diamagnético serie 3	
Densidad de peso	7.8 g/cm ³	
Pesos fraccionarios opcionales	Aluminio tratado con calor de solución	
Densidad de peso	2.7 g/cm ³	
Modelos P3011, P3012, P3013, P3022, P3023, P3025 (V)	Material del pistón	Cerámica
	Material del cilindro	Acero martensítico
	Coefficiente de expansión	11 ppm/°C
Modelos P3014, P3015, P3025 (P) P3031, P3032 (P y V)	Material del pistón	Carburo de tungsteno
	Material del cilindro	Acero martensítico
	Coefficiente de expansión	16,5 ppm/°C
Modelo P3016	Material del pistón	Carburo de tungsteno
	Material del cilindro	Carburo de tungsteno
	Coefficiente de expansión	11 ppm/°C
General		
Adaptadores de puerto de prueba	1/8, 1/4, 3/8 y 1/2 NPT o BSP	
Peso del instrumento	24 lb.	
Tamaño del instrumento (anch. x prof. x alt.)	17.5 x 12 x 8.5	
Peso del conjunto de masas (típico)	65 lb.	
Incrementos mínimos del peso estándar		
Presión de P3012 y P3022	1 in H ₂ O, (5 mbar)	
Presión de P3013 y P3023	2 in H ₂ O, (10 mbar)	
Presión de P3014, P3015 y P3025	1 psi, (0.1 bar)	
P3016, P3031, P3032	1 psi, (0.1 bar)	
Vacío de P3011, P3022, P3023 y P3025	0.2 in Hg (10 mbar)	
Pesos fraccionarios opcionales		
Presión de P3014, P3015 y P3025	0.1 psi (0.01 bar)	
Bombas manuales integradas		

Modo de presión	Presión máxima 300 psi (20 bar)
Modo de vacío	Vacío máximo del 90 %
Fluido de trabajo para modelos lubricados con líquido	
55-655	Aceite mineral (estándar)
Krytox	Para usos con protección contra el oxígeno (opcional)
Opciones:	
Software PressCal	Programa de software de Windows que permite a los usuarios aplicar fácilmente todas las correcciones necesarias para mejorar el rendimiento del comprobador de peso muerto. Posteriormente, los detalles de calibración se almacenan o se usan para crear automáticamente un certificado de calibración. PressCal se proporciona como estándar con todos los instrumentos de 0.008 %.
Krytox	Como fluido de trabajo para modelos lubricados con líquido que funcionan con gas.

Modelos



Fluke P3011-4-P

Fluke Calibration P3011-4-P Pneumatic Deadweight Testers
Vacuum range 3 to 100 kPa

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
- Vacuum operated – single PCU
- Built-in pump optional

Fluke P3011-6-P

Fluke Calibration P3011-6-P Pneumatic Deadweight Testers
Vacuum range 30 to 1,000 mbar

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
- Vacuum operated – single PCU
- Built-in pump optional

Fluke P3011-8-P

Fluke Calibration P3011-8-P Pneumatic Deadweight Testers
Vacuum range 1 to 30 inHg

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
- Vacuum operated – single PCU
- Built-in pump optional

Fluke P3011-9-P

Fluke Calibration P3011-9-P Pneumatic Deadweight Testers
Vacuum range 30 to 760 mmHg

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
 - Vacuum operated – single PCU
 - Built-in pump optional
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Fluke P3012-4-P

Fluke Calibration P3012-4-P Pneumatic Deadweight Testers
Pressure range 1.5 to 1000 kPa

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
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Fluke P3012-6-P

Fluke Calibration P3012-6-P Pneumatic Deadweight Testers
Pressure range 15 to 1,000 mbar

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
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Fluke P3012-7-P

Fluke Calibration P3012-7-P Pneumatic Deadweight Testers
Pressure range 400 inH₂O

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
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Fluke P3013-4-P

Fluke Calibration P3013-4-P Pneumatic Deadweight Testers
Pressure range 3 to 200 kPa

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
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Fluke P3013-6-P

Fluke Calibration P3013-6-P Pneumatic Deadweight Testers
Pressure range 30 to 2,000 mbar

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
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Fluke P3013-7-P

Fluke Calibration P3013-7-P Pneumatic Deadweight Testers
Pressure range 12 to 800 inH₂O

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
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Fluke P3014-1-P

Fluke Calibration P3014-1-P Pneumatic Deadweight Testers
Pressure range 0.2 to 10 bar

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
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Fluke P3014-2-P

Fluke Calibration P3014-2-P Pneumatic Deadweight Testers
Pressure range 0.2 to 10 kgf/cm²

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
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Fluke P3014-3-P

Fluke Calibration P3014-3-P Pneumatic Deadweight Testers
Pressure range 3 to 150 psi

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
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Fluke P3014-4-P

Fluke Calibration P3014-4-P Pneumatic Deadweight Testers

Pressure range 20 to 1,000 kPa

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
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Fluke P3014-5-P

Fluke Calibration P3014-5-P Pneumatic Deadweight Testers
Pressure range 0.02 to 1 MPa

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
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Fluke P3015-1-P

Fluke Calibration P3015-1-P Pneumatic Deadweight Testers
Pressure range 0.2 to 35 bar

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
 - Built-in pump optional
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Fluke P3015-2-P

Fluke Calibration P3015-2-P Pneumatic Deadweight Testers
Pressure range 0.2 to 35 kgf/cm²

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
 - Built-in pump optional
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Fluke P3015-3-P

Fluke Calibration P3015-3-P Pneumatic Deadweight Testers
Pressure range 3 to 500 psi

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
 - Built-in pump optional
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Fluke P3015-4-P

Fluke Calibration P3015-4-P Pneumatic Deadweight Testers

Pressure range 20 to 3,500 kPa

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
 - Built-in pump optional
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Fluke P3015-5-P

Pressure range 0.02 to 3.5 MPa

Includes:

- P3000 Series Single Pressure Model
 - Air operated – single PCU
 - Built-in pump optional
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Fluke P3022-4-P

Fluke Calibration P3022-4-P Pneumatic Deadweight Testers

Pressure range 1.5 to 100 kPa

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
 - Air operated - dual PCU
 - Vacuum Range 3 to 100 kPa
 - Built-in pump optional
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Fluke P3022-6-P

Fluke Calibration P3022-6-P Pneumatic Deadweight Testers

Pressure range 15 to 1,000 mbar

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
 - Air operated - dual PCU
 - Vacuum Range 30 to 1,000 mbar
 - Built-in pump optional
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Fluke P3022-7-P

Fluke Calibration P3022-7-P Pneumatic Deadweight Testers

Pressure range 5 to 400 inH₂O

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
- Air operated - dual PCU

- Vacuum Range 1 to 30 inHg
 - Built-in pump optional
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Fluke P3023-4-P

Fluke Calibration P3023-4-P Pneumatic Deadweight Testers
Pressure range 3 to 200 kPa

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
 - Air operated - dual PCU
 - Vacuum Range 3 to 100 kPa
 - Built-in pump optional
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Fluke P3023-6-P

Fluke Calibration P3023-6-P Pneumatic Deadweight Testers
Pressure range 30 to 2,000 mbar

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
 - Air operated - dual PCU
 - Vacuum Range 30 to 1,000 mbar
 - Built-in pump optional
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Fluke P3023-7-P

Fluke Calibration P3023-7-P Pneumatic Deadweight Testers
Pressure range 12 to 800 inH₂O

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
 - Air operated - dual PCU
 - Vacuum Range 1 to 30 inHg
 - Built-in pump optional
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Fluke P3025-1-P

Fluke Calibration P3025-1-P Pneumatic Deadweight Testers
Pressure range 0.2 to 35 bar

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
 - Air operated - dual PCU
 - Vacuum Range 30 to 1,000 mbar
 - Built-in pump optional
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Fluke P3025-2-P

Fluke Calibration P3025-2-P Pneumatic Deadweight Testers
Pressure range 0.2 to 35 kgf/cm²

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
 - Air operated - dual PCU
 - Vacuum Range 30 to 760 mmHg
 - Built-in pump optional
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Fluke P3025-3-P

Fluke Calibration P3025-3-P Pneumatic Deadweight Testers
Pressure range 0.2 to 35 kgf/cm²

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
 - Air operated - dual PCU
 - Vacuum Range 30 to 760 mmHg
 - Built-in pump optional
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Fluke P3025-4-P

Fluke Calibration P3025-4-P Pneumatic Deadweight Testers
Pressure range 20 to 3,500 kPa

Includes

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
 - Air operated - dual PCU
 - Vacuum Range 3 to 100 kPa
 - Built-in pump optional
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Fluke P3025-5-P

Fluke Calibration P3025-5-P Pneumatic Deadweight Testers
Pressure range 0.02 to 3.5 MPa

Includes:

- P3000 Series Vacuum and Dual Vacuum/Pressure Model
 - Air operated - dual PCU
 - Vacuum Range 3 to 100 kPa
 - Built-in pump optional
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