

기술 자료

# Fluke Calibration P3000 공압 분동식 압력계



## 주요 기능

- 판독값의 0.015% 정확도 표준(0.008% 옵션)
- 1~30 inHg 진공(0.03~1bar 진공)
- 3~500psi(0.2~35bar) 압력
- inH<sub>2</sub>O 및 mbar 범위 사용 가능
- 시리즈 3 비자성 스테인레스 스틸 중량
- 지역 중력 FOC로 장치를 트리밍할 수 있음

## 제품 개요: Fluke Calibration P3000 공압 분동식 압력계

다양한 기능을 갖춘 이 기기는 1~30 inHg 진공(0.03~1bar) 및 3~500psi(0.2~35bar)의 교정을 매우 정확하면서도 사용하기 쉬운 하나의 기본 표준으로 제공합니다. 선택 밸브를 통해 피스톤을 교체하지 않고도 장치를 압력 모드에서 진공 모드로 변환할 수 있습니다. 장치는 NIST(국립 표준 기술 연구소)와 같은 국제 표준 연구소에 소급 가능한 인증된 정확도에 따른 최고 수준으로 제조되었습니다. 이러한 피스톤/실린더 유형의 공압 표준은 뛰어난 안정성, 반복성 및 정확도를 제공합니다. 압력과 진공을 둘 다 생성하기 위해 내장형 핸드 펌프(옵션)를 추가할 수 있습니다.

## 제품 사양: Fluke Calibration P3000 공압 분동식 압력계

### 정확도

정확도 <sup>1</sup>	판독값의 ±0.015% 정확도(±0.008% 옵션)
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1. 교정 인증서에 있는 보정에 따라 사용할 경우 피스톤 범위의 10%~100%에서 판독값의 %를 기반으로 하는 정확도. 10% ± (정확도 등급) x 피스톤 범위의 10%

질량 및 PCU 구성 재질		
표준 중량 재질	시리즈 3 비자성 오스테나이트계 스테인레스 스틸	
중량 밀도	7.8g/cm <sup>3</sup>	
옵션 단편 중량	솔루션 열 처리 알루미늄	
중량 밀도	2.7 g/cm <sup>3</sup>	
모델 P3011, P3012, P3013, P3022, P3023, P3025(V)	피스톤 재질	세라믹
	실린더 재질	마텐자이트 강
	팽창 계수	11ppm/°C
모델 P3014, P3015, P3025(P) P3031, P3032(P 및 V)	피스톤 재질	텅스텐 카바이드
	실린더 재질	마텐자이트 강
	팽창 계수	16.5ppm/°C
모델 P3016	피스톤 재질	텅스텐 카바이드
	실린더 재질	텅스텐 카바이드
	팽창 계수	11ppm/°C
일반		
테스트 포트 어댑터	1/8, 1/4, 3/8 및 1/2 NPT 또는 BSP	
장비 중량	24lb	
장비 크기(W x D x H)	17.5 x 12 x 8.5	
질량 세트 중량(일반)	65lb	
최소 표준 중량 증분		
P3012, P3022 압력	1 inH <sub>2</sub> O, (5mbar)	
P3013, P3023 압력	2 inH <sub>2</sub> O, (10mbar)	
P3014, P3015, P3025 압력	1psi, (0.1bar)	
P3016, P3031, P3032	1psi, (0.1bar)	
P3011, P3022, P3023, P3025 진공	0.2 inHg(10mbar)	
옵션 단편 중량		
P3014, P3015, P3025 압력	0.1psi(0.01bar)	
내장형 핸드 펌프		
압력 모드	최대 압력 300psi(20bar)	
진공 모드	90%까지 진공	
액체 윤활 모델의 작동 유체		
55-655	광유(표준)	
Krytox	산소 안전 응용 분야용(옵션)	
옵션		

PressCal 소프트웨어	사용자가 분동식 압력계 성능을 개선하기 위해 필요한 모든 보정을 쉽게 적용할 수 있는 Windows 기반 소프트웨어 프로그램입니다. 교정 정보가 저장되며, 교정 인증서를 자동으로 생성하는 데 사용됩니다. PressCal은 모든 0.008% 장비에 표준으로 제공됩니다.
Krytox	액체 윤활 가스 작동 모델의 작동 유체용

## 모델



### **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

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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

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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

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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 inH<sub>2</sub>O

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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

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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

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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 inH<sub>2</sub>O

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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

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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/cm<sup>2</sup>

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Includes:

- P3000 Series Single Pressure Model
  - Air operated – single PCU
- 

### **Fluke P3014-3-P**

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

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Includes:

- P3000 Series Single Pressure Model
  - Air operated – single PCU
- 

### **Fluke P3014-4-P**

Fluke Calibration P3014-4-P Pneumatic Deadweight Testers

Pressure range 20 to 1,000 kPa

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Includes:

- P3000 Series Single Pressure Model
  - Air operated – single PCU
- 

### **Fluke P3014-5-P**

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

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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

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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/cm<sup>2</sup>

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Includes:

- P3000 Series Single Pressure Model
  - Air operated – single PCU
  - Built-in pump optional
- 

### **Fluke P3015-3-P**

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

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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

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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

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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

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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

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Includes:

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

### **Fluke P3022-7-P**

Fluke Calibration P3022-7-P Pneumatic Deadweight Testers

Pressure range 5 to 400 inH<sub>2</sub>O

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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

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Includes:

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

### **Fluke P3023-6-P**

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

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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 inH<sub>2</sub>O

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Includes:

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

### **Fluke P3025-1-P**

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

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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/cm<sup>2</sup>

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Includes:

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

### **Fluke P3025-3-P**

Fluke Calibration P3025-3-P Pneumatic Deadweight Testers  
Pressure range 0.2 to 35 kgf/cm<sup>2</sup>

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Includes:

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

### **Fluke P3025-4-P**

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

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Includes

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

### **Fluke P3025-5-P**

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

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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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