

### Advantages

- Easy to Use
- Rugged Field Use Design
- Temperature Compensated
- 1-3 Year Recommended Calibration Intervals
- Record and Store Tests
- Free Calibration & Configuration Software
- Innovative Patented Technology
- ISO17025 Accredited Calibration Certificates
- Intrinsically Safe

### Handheld Pressure Calibrators

|                     | Pressure Accuracy       | Vacuum Accuracy | Operating Temp. Range | IP Rating | Pressure Sensors | Pressure Connection | Datalogging | Differential Pressure | Absolute Pressure | Read Temperature | Read Electrical | 24VDC Power Supply | Switch Test | External Pressure Module | Intrinsically Safe |                              |
|---------------------|-------------------------|-----------------|-----------------------|-----------|------------------|---------------------|-------------|-----------------------|-------------------|------------------|-----------------|--------------------|-------------|--------------------------|--------------------|------------------------------|
| Vacuum to 15000 psi | ± 0.035% Rdg            | ± 0.05% FS      | -20 to 50° C          | IP65      | 1 or 2           | CPF Female          |             |                       |                   |                  |                 |                    |             |                          |                    | <a href="#">HPC40 Series</a> |
| Vacuum to 15000 psi | ± 0.1% Rdg              | ± 0.25% FS      | -10 to 50° C          | IP67      | 1                | CPF Female          | ✓           | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | <a href="#">XP2i</a>         |
| Vacuum to 15000 psi | ± 0.025% Rdg            | ± 0.06% FS      | -20 to 50° C          | IP67      | 1 or 2           | CPF Female          | ✓           | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | <a href="#">nVision</a>      |
| Vacuum to 10000 psi | ± 0.035% Rdg            | ± 0.05% FS      | -20 to 50° C          | IP65      | 1 or 2           | CPF Female          |             | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | <a href="#">HPC50 Series</a> |
| Vacuum to 10000 psi | ± 0.2% Rdg              | ± 0.25% FS      | -10 to 50° C          | IP65      | 1                | CPF Female          |             |                       |                   |                  |                 |                    |             |                          |                    | <a href="#">m1</a>           |
| Vacuum to 5000 psi  | ± 0.05% Rdg + 0.005% FS | ± 0.25% Rdg     | 0 to 50° C            | —         | 1 or 2           | 1/8" NPT Female     |             |                       |                   | ✓                |                 |                    |             |                          | ✓                  | <a href="#">30 Series</a>    |
| Vacuum to 3000 psi  | ± 0.25% Rdg             | ± 0.5% FS       | -10 to 50° C          | IP65      | 1                | CPF Female          |             |                       |                   |                  |                 |                    |             |                          |                    | <a href="#">m1M</a>          |
| Vacuum to 100 psi   | ± 0.1% Rdg              | ± 0.1% Rdg      | -10 to 50° C          | IP67      | 1                | 1/8" NPT Female     | ✓           | ✓                     |                   |                  |                 |                    |             |                          | ✓                  | <a href="#">XP2i-DP</a>      |
| Pressure Range      | Specifications          |                 |                       |           |                  |                     | Functions   |                       |                   |                  |                 |                    |             |                          |                    | Model                        |

■ From 18 to 28° C. 
 ■ Typical. 
 ■ Plus either 0.004 or 0.01 psi. 
 ■ 1/4" NPT M, 1/4" BSP M, or M20 M adapter included. 
 ■ 1/4" NPT M and 1/4" BSP M adapters included.

### Deadweight Testers

|                                 | Standard Pressure Accuracy                                        | Optional Pressure Accuracy (Rdg) | Maximum Pressure | Minimum Pressure     | Minimum Increment    | Pressure Connection* | Dual Piston Available | Dual Column Available | Tripped Compatibility | 5m Incremental Weight Sets | Hydraulic | Pneumatic | Self Contained | Self-Regulating Ball Type | Included Carrying Case |                               |
|---------------------------------|-------------------------------------------------------------------|----------------------------------|------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------------|-----------|-----------|----------------|---------------------------|------------------------|-------------------------------|
| 10 psi to 15000 psi             | ± 0.015% Rdg                                                      | ± 0.025%, ± 0.1%                 | 15000 psi        | 10 psi               | 5 psi                | 1/4" and 1/2" NPT F  | ✓                     | ✓                     |                       | ✓                          | ✓         |           | ✓              |                           | ✓                      | <a href="#">Type T Series</a> |
| 10 psi to 3000 psi              | ± 0.1% Rdg                                                        | ± 0.05%                          | 3000 psi         | 10 psi               | 0.1 psi              | 1/4" NPT F           | ✓                     |                       | ✓                     | ✓                          | ✓         |           | ✓              |                           | ✓                      | <a href="#">HL Series</a>     |
| 10 psi to 1500 psi              | ± 0.025% Rdg                                                      | —                                | 1500 psi         | 10 psi               | 1 psi                | 7/16-20 37° AN4 M    |                       |                       |                       |                            |           | ✓         |                | ✓                         |                        | <a href="#">HK Series</a>     |
| 4 inH <sub>2</sub> O to 301 psi | ± 0.05% Rdg                                                       | ± 0.025%, ± 0.015%               | 301 psi          | 4 inH <sub>2</sub> O | 1 inH <sub>2</sub> O | 1/8" NPT F           |                       |                       | ✓                     | ✓                          |           | ✓         |                | ✓                         | ✓                      | <a href="#">RK Series</a>     |
| 4 inH <sub>2</sub> O to 30 psi  | ± 0.05% Rdg                                                       | ± 0.025%, ± 0.015%               | 30 psi           | 4 inH <sub>2</sub> O | 1 inH <sub>2</sub> O | 1/4" NPT F           |                       |                       | ✓                     | ✓                          |           | ✓         |                | ✓                         | ✓                      | <a href="#">PKII Series</a>   |
| Pressure Range                  | Specifications (See the Data Sheets for complete specifications.) |                                  |                  |                      |                      |                      | Functions             |                       |                       |                            |           |           |                |                           |                        | Model*                        |

■ With installed adapter to 1/4 tube fitting. 
 ■ Not included with dual column or 0.015% accuracy. These units are supplied with bench top column mounting plate and tubing.

\* CPF connections are available for all deadweight tester models.



### Of Reading Accuracy

Our gauge accuracy is defined as "percent of reading". For example, a gauge with 0.1 percent of reading accuracy that displays 100 psi would be accurate to ± 0.1 psi at that pressure. At 50 psi, the same gauge would have an accuracy of ± 0.05 psi (twice as accurate). This versatility is why one of our gauges can replace 3 to 5 standard "of scale" rated gauges.

### Temperature Compensation

Our active temperature compensation corrects sensors for changes in temperature within our specified ranges (up to -20 to 50°C). Without temperature compensation, the additional errors can quickly overwhelm the basic specification at common working temperatures.

### Floating Ball Testers

While in operation, our pneumatic tester's ball and weights float freely, which is virtually frictionless, supported only by a thin film of air. This eliminates the necessity to rotate the weights during testing and allows the user to concentrate on the instrument calibration.

### Self-Regulating Design

The instrument's built-in flow regulator automatically adjusts the input air flow to maintain the ball and weights in a float position. The regulator also compensates for variations in pressure from the air supply. Simply add or remove weights to generate your target pressure.

### Leak-free Seal up to 10 000 psi

Our patented CPF fitting design maintains a leak-free seal up to 10 000 psi, with only finger-tightening. Improve safety with a self-venting weep hole, which alerts you, by leaking gas or test fluid, before you fully disconnect from a pressurized system. Each of our products either includes CPF fittings as standard, or can be adapted to our CPF line.

### Advantages

- Easy to Use
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- Temperature Compensated
- 1-3 Year Recommended Calibration Intervals
- Record and Store Tests
- Free Calibration & Configuration Software
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### Handheld Pressure Calibrators

|                    | Pressure Accuracy       | Vacuum Accuracy | Operating Temp. Range | IP Rating | Pressure Sensors | Pressure Connection | Datalogging | Differential Pressure | Absolute Pressure | Read Temperature | Read Electrical | 24VDC Power Supply | Switch Test | External Pressure Module | Intrinsically Safe |             |
|--------------------|-------------------------|-----------------|-----------------------|-----------|------------------|---------------------|-------------|-----------------------|-------------------|------------------|-----------------|--------------------|-------------|--------------------------|--------------------|-------------|
| Vacuum to 1000 bar | ± 0.035% Rdg            | ± 0.05% FS      | -20 to 50° C          | IP65      | 1 or 2           | CPF Female          | ✓           | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | HP40 Series |
| Vacuum to 1000 bar | ± 0.1% Rdg              | ± 0.25% FS      | -10 to 50° C          | IP67      | 1                | CPF Female          | ✓           | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | XP2i        |
| Vacuum to 1000 bar | ± 0.025% Rdg            | ± 0.06% FS      | -20 to 50° C          | IP67      | 1 or 2           | CPF Female          | ✓           | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | nVision     |
| Vacuum to 700 bar  | ± 0.035% Rdg            | ± 0.05% FS      | -20 to 50° C          | IP65      | 1 or 2           | CPF Female          | ✓           | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | HP50 Series |
| Vacuum to 700 bar  | ± 0.2% Rdg              | ± 0.25% FS      | -10 to 50° C          | IP65      | 1                | CPF Female          | ✓           | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | m1          |
| Vacuum to 300 bar  | ± 0.05% Rdg + 0.005% FS | ± 0.25% Rdg     | 0 to 50° C            | —         | 1 or 2           | 1/8" NPT Female     | ✓           | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | 30 Series   |
| Vacuum to 200 bar  | ± 0.25% Rdg             | ± 0.5% FS       | -10 to 50° C          | IP65      | 1                | CPF Female          | ✓           | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | m1M         |
| Vacuum to 7 bar    | ± 0.1% Rdg              | ± 0.1% Rdg      | -10 to 50° C          | IP67      | 1                | 1/8" NPT Female     | ✓           | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | XP2i-DP     |
| Pressure Range     | Specifications          |                 |                       |           |                  |                     | Functions   |                       |                   |                  |                 |                    |             |                          |                    | Model       |

■ From 18 to 28° C. 
 ■ Typical. 
 ■ Plus either 0.0003 or 0.001 bar. 
 ■ 1/4" NPT M, 1/4" BSP M, or M20 M adapter included. 
 ■ 1/4" NPT M and 1/4" BSP M adapters included.

### Deadweight Testers

|                    | Standard Pressure Accuracy                                        | Optional Pressure Accuracy (Rdg) | Maximum Pressure | Minimum Pressure     | Minimum Increment    | Pressure Connection* | Dual Piston Available | Dual Column Available | Tripped Compatibility | 5m Incremental Weight Sets | Hydraulic | Pneumatic | Self Contained | Self-Regulating Ball Type | Included Carrying Case |               |
|--------------------|-------------------------------------------------------------------|----------------------------------|------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------------|-----------|-----------|----------------|---------------------------|------------------------|---------------|
| 1 bar to 1000 bar  | ± 0.015% Rdg                                                      | ± 0.025%, ± 0.1%                 | 15000 psi        | 10 psi               | 5 psi                | 1/4" and 1/2" NPT F  | ✓                     | ✓                     | ✓                     | ✓                          | ✓         | ✓         | ✓              | ✓                         | ✓                      | Type T Series |
| 1 bar to 225 bar   | ± 0.1% Rdg                                                        | ± 0.05%                          | 3000 psi         | 10 psi               | 0.1 psi              | 1/4" NPT F           | ✓                     | ✓                     | ✓                     | ✓                          | ✓         | ✓         | ✓              | ✓                         | ✓                      | HL Series     |
| 0.5 bar to 100 bar | ± 0.025% Rdg                                                      | —                                | 1500 psi         | 10 psi               | 1 psi                | 7/16-20 37" AN4 M    | ✓                     | ✓                     | ✓                     | ✓                          | ✓         | ✓         | ✓              | ✓                         | ✓                      | HK Series     |
| 10 mbar to 20 bar  | ± 0.05% Rdg                                                       | ± 0.025%, ± 0.015%               | 301 psi          | 4 inH <sub>2</sub> O | 1 inH <sub>2</sub> O | 1/8" NPT F           | ✓                     | ✓                     | ✓                     | ✓                          | ✓         | ✓         | ✓              | ✓                         | ✓                      | RK Series     |
| 10 mbar to 2 bar   | ± 0.05% Rdg                                                       | ± 0.025%, ± 0.015%               | 30 psi           | 4 inH <sub>2</sub> O | 1 inH <sub>2</sub> O | 1/4" NPT F           | ✓                     | ✓                     | ✓                     | ✓                          | ✓         | ✓         | ✓              | ✓                         | ✓                      | PKII Series   |
| Pressure Range     | Specifications (See the Data Sheets for complete specifications.) |                                  |                  |                      |                      |                      | Functions             |                       |                       |                            |           |           |                |                           |                        | Model*        |

■ With installed adapter to 1/4 tube fitting. 
 ■ Not included with dual column or 0.015% accuracy. These units are supplied with bench top column mounting plate and tubing.

\* CPF connections are available for all deadweight tester models.



### Of Reading Accuracy

Our gauge accuracy is defined as "percent of reading". For example, a gauge with 0.1 percent of reading accuracy that displays 100 bar would be accurate to ± 0.1 bar at that pressure. At 50 bar, the same gauge would have an accuracy of ± 0.05 bar (twice as accurate). This versatility is why one of our gauges can replace 3 to 5 standard "of scale" rated gauges.

### Temperature Compensation

Our active temperature compensation corrects sensors for changes in temperature within our specified ranges (up to -20 to 50°C). Without temperature compensation, the additional errors can quickly overwhelm the basic specification at common working temperatures.

### Floating Ball Testers

While in operation, our pneumatic tester's ball and weights float freely, which is virtually frictionless, supported only by a thin film of air. This eliminates the necessity to rotate the weights during testing and allows the user to concentrate on the instrument calibration.

### Self-Regulating Design

The instrument's built-in flow regulator automatically adjusts the input air flow to maintain the ball and weights in a float position. The regulator also compensates for variations in pressure from the air supply. Simply add or remove weights to generate your target pressure.

### Leak-free Seal up to 700 bar

Our patented CPF fitting design maintains a leak-free seal up to 700 bar, with only finger-tightening. Improve safety with a self-venting weep hole, which alerts you, by leaking gas or test fluid, before you fully disconnect from a pressurized system. Each of our products either includes CPF fittings as standard, or can be adapted to our CPF line.

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|-------------------|-------------------------|-----------------|-----------------------|-----------|------------------|---------------------|-------------|-----------------------|-------------------|------------------|-----------------|--------------------|-------------|--------------------------|--------------------|------------------------------|
| Vacuum to 100 MPa | ± 0.035% Rdg            | ± 0.05% FS      | -20 to 50° C          | IP65      | 1 or 2           | CPF Female          |             |                       |                   |                  |                 |                    |             |                          |                    | <a href="#">HPC40 Series</a> |
| Vacuum to 100 MPa | ± 0.1% Rdg              | ± 0.25% FS      | -10 to 50° C          | IP67      | 1                | CPF Female          | ✓           | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | <a href="#">XP2i</a>         |
| Vacuum to 100 MPa | ± 0.025% Rdg            | ± 0.06% FS      | -20 to 50° C          | IP67      | 1 or 2           | CPF Female          | ✓           | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | <a href="#">nVision</a>      |
| Vacuum to 70 MPa  | ± 0.035% Rdg            | ± 0.05% FS      | -20 to 50° C          | IP65      | 1 or 2           | CPF Female          |             | ✓                     | ✓                 | ✓                | ✓               | ✓                  | ✓           | ✓                        | ✓                  | <a href="#">HPC50 Series</a> |
| Vacuum to 70 MPa  | ± 0.2% Rdg              | ± 0.25% FS      | -10 to 50° C          | IP65      | 1                | CPF Female          |             |                       |                   |                  |                 |                    |             |                          |                    | <a href="#">m1</a>           |
| Vacuum to 30 MPa  | ± 0.05% Rdg + 0.005% FS | ± 0.25% Rdg     | 0 to 50° C            | —         | 1 or 2           | 1/8" NPT Female     |             |                       |                   | ✓                |                 |                    |             |                          | ✓                  | <a href="#">30 Series</a>    |
| Vacuum to 20 MPa  | ± 0.25% Rdg             | ± 0.5% FS       | -10 to 50° C          | IP65      | 1                | CPF Female          |             |                       |                   |                  |                 |                    |             |                          |                    | <a href="#">m1M</a>          |
| Vacuum to 700 kPa | ± 0.1% Rdg              | ± 0.1% Rdg      | -10 to 50° C          | IP67      | 1                | 1/8" NPT Female     | ✓           | ✓                     |                   |                  |                 |                    |             |                          | ✓                  | <a href="#">XP2i-DP</a>      |
| Pressure Range    | Specifications          |                 |                       |           |                  |                     | Functions   |                       |                   |                  |                 |                    |             |                          |                    | Model                        |

■ From 18 to 28° C. 
 ■ Typical. 
 ■ Plus either 0.03 or 0.1 kPa. 
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### Deadweight Testers

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|----------------------|-------------------------------------------------------------------|----------------------------------|------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------------|-----------|-----------|----------------|---------------------------|------------------------|-------------------------------|
| 100 kPa to 100 MPa   | ± 0.015% Rdg                                                      | ± 0.025%, ± 0.1%                 | 15000 psi        | 10 psi               | 5 psi                | 1/4" and 1/2" NPT F  | ✓                     | ✓                     |                       | ✓                          | ✓         | ✓         | ✓              | ✓                         | ✓                      | <a href="#">Type T Series</a> |
| 100 kPa to 22.5 MPa  | ± 0.1% Rdg                                                        | ± 0.05%                          | 3000 psi         | 10 psi               | 0.1 psi              | 1/4" NPT F           | ✓                     |                       | ✓                     | ✓                          | ✓         | ✓         | ✓              | ✓                         | ✓                      | <a href="#">HL Series</a>     |
| 50 kPa to 10 000 kPa | ± 0.025% Rdg                                                      | —                                | 1500 psi         | 10 psi               | 1 psi                | 7/16-20 37" AN4 M    |                       |                       |                       |                            | ✓         | ✓         | ✓              | ✓                         | ✓                      | <a href="#">HK Series</a>     |
| 1 kPa to 2011 kPa    | ± 0.05% Rdg                                                       | ± 0.025%, ± 0.015%               | 301 psi          | 4 inH <sub>2</sub> O | 1 inH <sub>2</sub> O | 1/8" NPT F           |                       |                       | ✓                     | ✓                          | ✓         | ✓         | ✓              | ✓                         | ✓                      | <a href="#">RK Series</a>     |
| 1 kPa to 200 kPa     | ± 0.05% Rdg                                                       | ± 0.025%, ± 0.015%               | 30 psi           | 4 inH <sub>2</sub> O | 1 inH <sub>2</sub> O | 1/4" NPT F           |                       |                       | ✓                     | ✓                          | ✓         | ✓         | ✓              | ✓                         | ✓                      | <a href="#">PKII Series</a>   |
| Pressure Range       | Specifications (See the Data Sheets for complete specifications.) |                                  |                  |                      |                      |                      | Functions             |                       |                       |                            |           |           |                |                           |                        | Model*                        |

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