Pressure Calibrator Overview



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	Vacuumusch	Operating Ran	16 15 15 15 15 15 15 15 15 15 15 15 15 15	ting Presi	sure sensors		Oata	oggind Differe	intial esolution properties	ie ped re	Imperature Read	Electrical 2AVO	Swet Supply	ntest Extern	assure Module	sically Safe
Vacuum to 15 000 psi	± 0.035% Rdg	± 0.05% FS	-20 to 50° C	IP65	1 or 2	CPF Female			✓	\checkmark	✓	\checkmark	✓	\checkmark	\checkmark		HPC40 Ser
Vacuum to 15 000 psi	± 0.1% Rdg	± 0.25% FS	-10 to 50° C	IP67	1	CPF Female		✓		\checkmark						✓	XP2i
Vacuum to 15 000 psi	± 0.025% Rdg	± 0.06% FS	-20 to 50° C	IP67	1 or 2	CPF Female		✓	✓	\checkmark	✓	✓		✓		✓	nVision
Vacuum to 10 000 psi	± 0.035% Rdg	± 0.05% FS	-20 to 50° C	IP65	1 or 2	CPF Female			✓	\checkmark	✓	\checkmark		\checkmark	✓	✓	HPC50 Ser
Vacuum to 10 000 psi	± 0.2% Rdg	± 0.25% FS	-10 to 50° C	IP65	1	CPF Female											<u>m1</u>
Vacuum to 5000 psi	± 0.05% Rdg + 0.005% FS	± 0.25% Rdg	0 to 50° C	_	1 or 2	1/8" NPT Female						✓				✓	30 Series
Vacuum to 3000 psi	± 0.25% Rdg	± 0.5% FS	-10 to 50° C	IP65	1	CPF Female											<u>m1M</u>
Vacuum to 100 psi	± 0.1% Rdg	± 0.1% Rdg	-10 to 50° C	IP67	1	1/8" NPT Female		✓	✓							✓	XP2i-DP
Pressure Range	Specifications							Funct	ions								Model
	From 18 to 28° C. Typica	al. Plus either	0.004 or 0.01 psi.	1/4'	' NPT M, 1/	/4" BSP M, or M20 M ad	lap	eter include	ed. 🔻 1	/4" NPT M	and 1/4" B	SP M adap	ters includ	ded.			

Deadweight Testers

	Standard stre nach	Optional sure recuped)	Maximum	e Mirinum	tre Minimur	enent pessure action	Dua Pi	ston le Calabara de la Calabara de l	Junin Calaba Lipod	ompatibility Sm. W	tenental hydro	Julic Pres	unatic Self	Ontained Self Re	dil Abe linde	d divind Case
10 psi to 15 000 psi	± 0.015% Rdg	± 0.025%, ± 0.1%	15 000 psi	10 psi	5 psi	1/4" and 1/2" NPT F	✓	✓		✓	✓		✓		✓	Type T Series
10 psi to 3000 psi	± 0.1% Rdg	± 0.05%	3000 psi	10 psi	0.1 psi	1/4" NPT F	✓		\checkmark		✓		\checkmark		✓	HL Series
10 psi to 1500 psi	± 0.025% Rdg	_	1500 psi	10 psi	1 psi	7/16-20 37° AN4 M						\checkmark		✓		HK Series
4 inH ₂ O to 301 psi	± 0.05% Rdg	± 0.025%, ± 0.015%	301 psi	4 inH ₂ O	1 inH ₂ O	1/8" NPT F			✓	✓		✓		✓	✓	RK Series
4 inH ₂ O to 30 psi	± 0.05% Rdg	± 0.025%, ± 0.015%	30 psi	4 inH ₂ O	1 inH ₂ O	1/4" NPT F			✓	✓		✓		✓	✓	PKII Series
Pressure Range	Specifications (See the Data Sheets for complete specifications.)							Functions								

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.



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 \pm 0.1 psi at that pressure. At 50 psi, the same gauge would have an accuracy of \pm 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

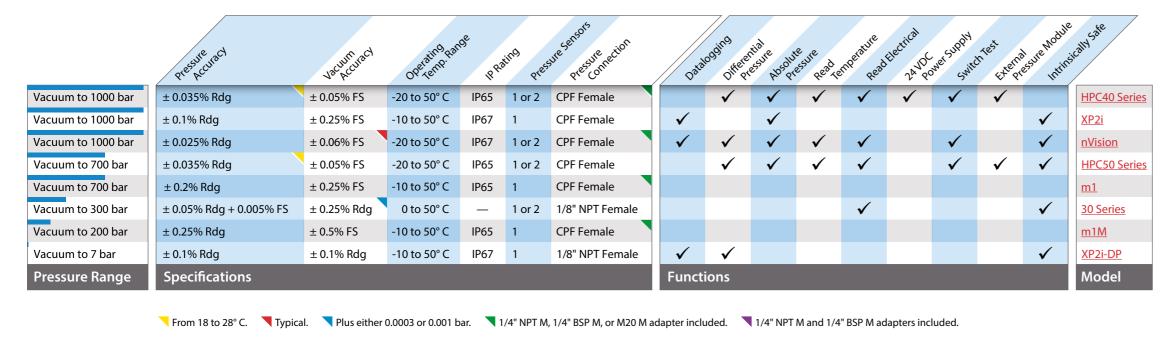
Our patented CPF fitting design maintains a leak-free seal up to 10 000 psi, with only finger-tightening. Improve safety with a self-venting weep hole, which alerts you, by leaking gas or test fluid, before you fully disconnect from a pressurized system. Each of our products either includes CPF fittings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

^{*} CPF connections are available for all deadweight tester models.

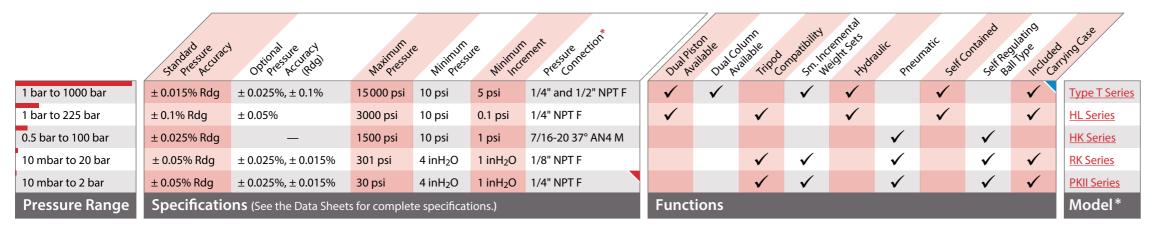
Advantages

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Handheld Pressure Calibrators



Deadweight Testers



🔻 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.



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 \pm 0.1 bar at that pressure. At 50 bar, the same gauge would have an accuracy of \pm 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

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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.

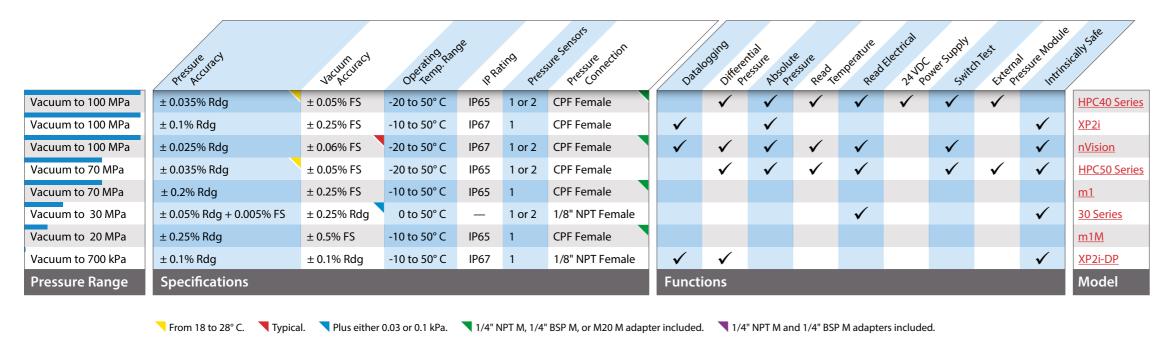
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Deadweight Testers

	Sandard sure racination	Optional sure reach	Matinum	e Minimum	ure Mininur	Pressure etion*		Dual Pré-	son Dual Co	Jum ripod	Jrnpatibility	general sets	Julic Pres	Inatic Self	ontained Self Re	dulating Include	d indicase
100 kPa to 100 MPa	± 0.015% Rdg	± 0.025%, ± 0.1%	15 000 psi	10 psi	5 psi	1/4" and 1/2" NPT F		✓	✓		✓	✓		✓		✓	Type T Series
100 kPa to 22.5 MPa	± 0.1% Rdg	± 0.05%	3000 psi	10 psi	0.1 psi	1/4" NPT F		✓		\checkmark		\checkmark		\checkmark		✓	HL Series
50 kPa to 10 000 kPa	± 0.025% Rdg	_	1500 psi	10 psi	1 psi	7/16-20 37° AN4 M							\checkmark		✓		HK Series
1 kPa to 2011 kPa	± 0.05% Rdg	± 0.025%, ± 0.015%	301 psi	4 inH ₂ O	1 inH ₂ O	1/8" NPT F				\checkmark	✓		\checkmark		✓	✓	RK Series
1 kPa to 200 kPa	± 0.05% Rdg	± 0.025%, ± 0.015%	30 psi	4 inH ₂ O	1 inH ₂ O	1/4" NPT F				✓	✓		\checkmark		✓	✓	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.



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 kPa would be accurate to \pm 0.1 kPa at that pressure. At 50 kPa, the same gauge would have an accuracy of \pm 0.05 kPa (twice as accurate). This versatility is why one of our gauges can replace 3 to 5 standard "of scale" rated gauges.

Temperature Compensation

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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 100 MPa

Our patented CPF fitting design maintains a leak-free seal up to 100 MPa, 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.

^{*} CPF connections are available for all deadweight tester models.