

# Tyre Inflation Equipment

## Air Line Gauges (Open End)



### How we've improved the MK3

The already highly regarded predecessor to the AIRFORCE® MK4, the classic MK3 Tyre Inflator has been industry standard in many garages, petrol forecourts & tyre depots for over 25 years. Many thought the MK3 could not be improved... until now!

With over 75 years of expertise in designing and manufacturing tyre inflation equipment in Sheffield, UK, the engineers at PCL decided now was the time to enhance the mechanical features that have stood the test of time to make the new gauge faster, more accurate and reliable than its predecessor.

The new AIRFORCE® MK4 Tyre Inflator is as robust as ever and highly accurate, offering leading inflation and deflation rates and high performance for both indoor and outdoor applications. Meanwhile the redesigned piston and seal arrangement means increased accuracy - cycle tests now give over 400,000 inflation cycles at 100% accuracy - over 50% more than previously!

By increasing the size of the viewing window to give a 20% larger field of view, and altering the graphic print to give a clearer scale reading the new gauge is even more user friendly.

With a new, modern slim line body design the gauge is now lighter yet more ergonomic to give increased comfort in use.

The "Made in Sheffield" AIRFORCE® MK4 Tyre Inflator is still available with the same wide choice of tyre valve connectors and hose lengths to suit all tyre inflation applications.



#### Features & Benefits

FEATURE	AIRFORCE® MK4	USER BENEFITS
New Viewing Window	Larger window gives 20% greater field of viewing	Clear view of pressure readings, easier to use; Less mistakes
Lighter Weight	New gauge body weighs 923 g - lightest gauge tested	Less work strain and easier for repetitive use
New Body Shape	Biomorphic shape	Ergonomic, easier to use and less prone to damage when dropped
New Valve Mechanism	Simplified 2 stage mechanism	Design prevents user having to 'push' against full line pressure on deflate. Prevents fatigue when deflating
New Piston & Seal Design	New design	Less drag, reduced friction & less movement inertia means no internal corrosion, no sticking and no skewing of accuracy
Testing Procedure	Computer software procedure to measure accuracy and determine pass or fail	Highest reliability tested on all hose lengths vs other gauges
Accuracy Standards	Tested to over 400,000 cycles at 100% accuracy	Meets EC 86/217 Compliant with EN12645:2014
Indicator Reading	New clear lithographic design, not screen-printed	Fast and accurate reading of results

#### Testing Results vs other Linear Gauges

TESTING CATEGORY	CRITERIA	AIRFORCE® MK4	MK3	IMITATION GAUGE SAMPLE
Accuracy Retention	21" Hose 6' Hose	Excellent Good	Good Fair	Fair Poor
Ease of Use	Visibility	Excellent	Fair	Fair
Robustness	n/a	Good	Good	Good
Accuracy Life	Tested cycles	400k cycles	250k cycles	28k cycles
Valve Life	Tested cycles	Excellent 1 million +	Excellent 1 million +	Poor <100,000
Speed	To fill to 3 bar	59 seconds	62 seconds	64 seconds
Approvals/Testing	Does it meet current CE approval standard?	Meets EC 86/217. Compliant with EN12645:2014	Meets EC 86/217. Compliant with EN12645:2014	Often not compliant and accuracy measured will often not meet standard



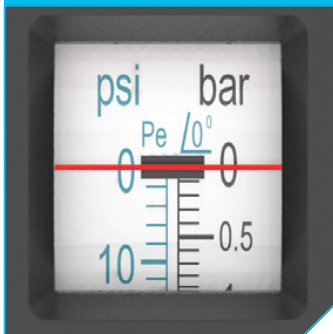
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# The anatomy of the MK4

NEW bigger viewing window gives 20% larger field of view. Scale reading now printed in clear lithographic print - not screen printed.



NEW piston & seal design can increase accuracy life by up to 150,000 cycles vs the MK3 gauge on tests.



NEW biomorphic body shape gives a lighter weight, ergonomic feel. The design is also less prone to damage when dropped.



New 2 stage valve arrangement prevents user having to 'push' against full line pressure on deflate.



## SPECIFICATION

Dimensions	H x W: 265 mm x 50 mm / 10.4 in x 1.9 in
Weight (AFG4H03)	923 g / 0.92 kg / 2.03 lbs
Operating Temperature Range	-10 °C to 60 °C
Storage Temperature Range	-30 °C to 80 °C
Accuracy Exceeds	EC Directive 86/217/EEC and BS EN 12645:2014
Reading Accuracy	0.1 bar / 2 psi / 10 kPa / 0.1 kg/cm <sup>2</sup>
Inflation Pressure	0 to 9.6 bar / 138 psi / 960 kPa / 9.8 kg/cm <sup>2</sup>
High Pressure Model	25 bar / 362.5 psi
Maximum Inlet Pressure	13.8 bar / 200 psi
Inflation Flow (@ 13 bar)	500 l/min / 18 cfm



## Product Options\*

PART NUMBER	DESCRIPTION	HOSE LENGTH	TYRE VALVE CONNECTION	CALIBRATION
AFG4H03	21" General Model	0.53 m / 21 in	Twin hold-on	0-138 psi & 0-9.6 bar
AFG4H04	21" Clip-on Model	0.53 m / 21 in	Single clip-on	0-138 psi & 0-9.6 bar
AFG4H031	14" Forecourt Model	0.36 m / 14 in	Short stem twin hold-on	0-138 psi & 0-9.6 bar
AFG4H05	6ft Tyreshop Model	1.8 m / 6 ft	Twin clip-on	0-138 psi & 0-9.6 bar
AFG4H06	9ft Tyreshop Model	2.7 m / 9 ft	Twin clip-on	0-138 psi & 0-9.6 bar
AFG4H061	9ft Tyreshop Model	2.7 m / 9 ft	Single clip-on	0-138 psi & 0-9.6 bar
AFG4H36	AFG4 Truck Tyre Inflator	3.6 m / 12 ft	Twin clip-on	0-174 psi & 0-12 bar

\*High pressure options also available for aircraft tyres with "Skydrol" hose

## New counter top POS displays available for PCL inflators and tools

