



BMEP Engine Cylinder Balancer

Revised September 03



- *Senses entire power curve & identifies under-performing cylinders*
- *Allows exact fuel adjustment*
- *Reduces fuel cost*
- *Reduces maintenance costs*
- *Extends engine life*
- *No electronics*
- *No maintenance*
- *No calibration*
- *Strong*
- *Dependable*
- *Accurate*
- *Easy to use*
- *Stainless steel construction*
- *Fits standard indicator valve*

Application

The BMEP Balancer is used to balance the cylinder loading of any multi-cylinder internal combustion engine equipped with individual cylinder fuel adjustment. It fits the standard indicator valve and is quickly connected and sealed with slightly more than hand-tight torque. When the indicator valve is opened, the pressure gauge will come to a steady reading which will not change unless the load changes. To balance the engine, keep the engine load constant, take readings from each cylinder, and make fuel adjustments as required until all cylinders yield the same pressure reading. All cylinders are now delivering equal power, and the engine is balanced.

Operation

The BMEP Balancer uses a pneumatic damping system to yield the mean value of the pressure within a cylinder over its entire power cycle. The unit consists of a series of orifices, each followed by an expansion chamber. Each stage smooths the pressure pulses until, in the last chamber, pressure is essentially constant. Although peak firing pressures may exceed 1,000 pounds per square inch, mean effective pressure for the cycle will usually fall between 50 and 150 pounds per square inch, depending on engine design and load.

Construction

The BMEP Balancer is made from stainless steel. All gaskets have been eliminated in favor of metal-to-metal seals for a maintenance-free operation. There are no moving parts to be oiled or cleaned. The unit is light, yet strong enough to withstand many times the peak firing pressure of any internal combustion engine.

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