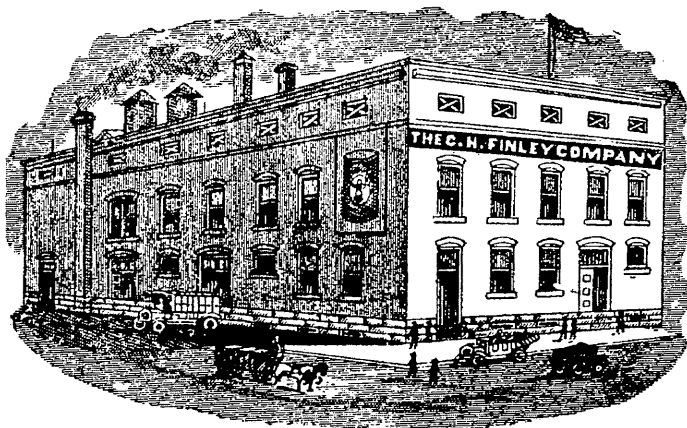


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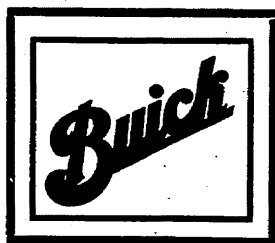
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The trademark of the pioneer builders
of Valve-in-Head motors

The Buick Valve-in-Head Motor and Why it has more Power.

ALL gasoline motors are heat engines. A gallon of gasoline represents so many heat units and the greater the percentage of these heat units that can be converted into actual working power, the greater the efficiency—or economy—of the motor will be.

Unfortunately, it is impracticable to use all of the heat generated in such a motor for power, because unless some means of cooling the motor is used the heat soon becomes so great as to be destructive.

So, in making the cylinder castings, water passages are cast around the cylinders in such a manner as to allow excess heat to escape through the cylinder walls into the water, which in turn is cooled by the radiator on the front of the car.

It is quite evident, therefore, that the less water-jacketed space there is in a motor, the greater will be its efficiency.

In the L-head motor there is a pocket on the side of each cylinder in which the valves are located. This pocket is water-jacketed.

In the T-head motor there is a pocket on each side of the cylinder, one containing the inlet valve and the other the exhaust valve. These pockets are also water-jacketed.

In the Valve-in-Head motor there is just a plain, unbroken cylinder, with the valves located in the head of the cylinder. And as this space is already water-jacketed, it follows that the Buick Valve-in-Head type affords the minimum of water-jacketed space that is possible to be secured for any given size of cylinder.

Now, if we regard our gasoline as so many heat units, it is quite apparent that the less of these heat units that are wasted through the water-jacketed surfaces, the more of them will be left in the form of actual, usable power directed against the pistons.

The net result of this main characteristic of design is to give the Buick Valve-in-Head motor a smaller loss of heat through the water jackets, which means more power with less gasoline consumption.

Buick Motor Company, Flint, Michigan

Pioneer Builders of Valve-in-Head Motor Cars

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