

## 4.3L V-6, LV1

# THE MARK OF MASTERMINDS

GM engineers spent over 10 million hours creating the technology found within the 4.3L LV1. Every millimeter of the combustion system was carefully designed to support the most ideal combination of Direct Injection and Variable Valve Timing, making the most of power, torque, and efficiency.

## STATE-OF-THE-ART TECHNOLOGIES

### Direct Injection Technology

- Moves the point where fuel feeds into an engine closer to the point where it ignites, enabling greater combustion efficiency.
- Fosters a more complete burn of the fuel in the air-fuel mixture.
- Operates at a lower temperature than conventional port injection.
- Allows the mixture to be leaner, so less fuel is required to produce the equivalent horsepower of a conventional port injection fuel system.

### Variable Valve Timing

- The dual-equal cam phasing system adjusts camshaft timing at the same rate for both intake and exhaust valves.
- Allows linear delivery of torque, with near-peak levels over a broad rpm range, and high specific output without sacrificing overall engine response.



4.3L LV1

## ADDITIONAL FEATURES

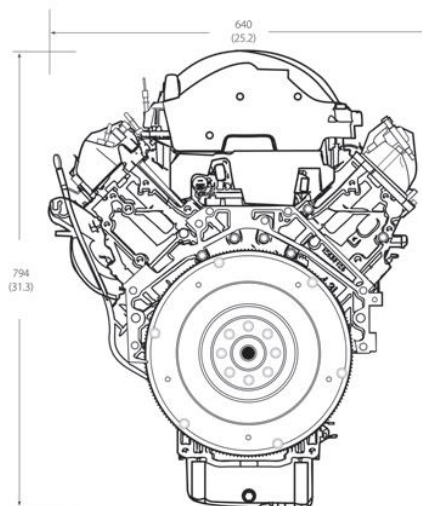
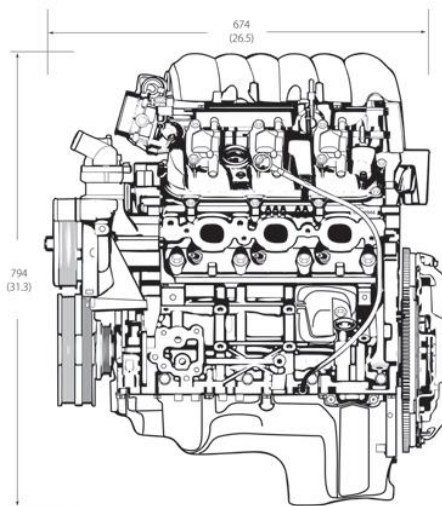
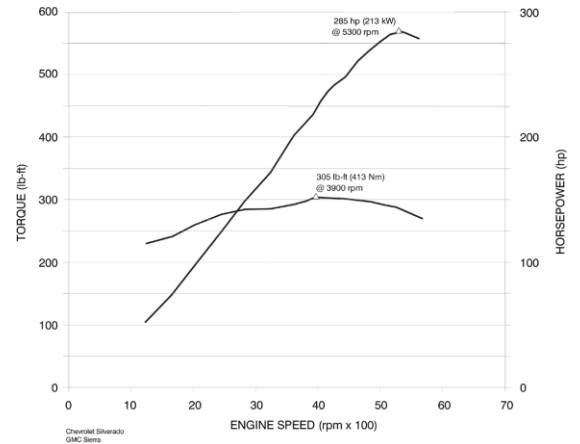
- Weight-saving aluminum cylinder block casting
- Increased compression ratios
- Advanced oiling system with variable displacement pump
- High-strength aluminum alloy pistons
- Oil-jet piston cooling
- Stronger, larger-diameter push rods
- High-flow intake manifold and electronic throttle
- Iridium-tipped, extended-life spark plugs
- 58x crank timing

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## SPECIFICATIONS

Type:	4.3L V-6 Small Block
Displacement:	4301 CC
Engine orientation:	Longitudinal
Compression ratio:	11.0:1
Valve configuration:	Overhead valves
Vales per cylinder:	Two
Assembly site:	Tonawanda, NY and Ramos, México
Valve lifters:	Hydraulic roller
Firing order:	1 - 6 - 5 - 4 - 3 - 2
Bore x stroke:	99.6 x 92.0mm
Fuel System:	Direct Injection
Fuel type:	Regular unleaded and E85
Horsepower:	285 hp (213 kW) @ 5300 rpm*
Torque:	305 lb-ft (413 Nm) @ 3900 rpm*
	*As tested in Chevrolet Silverado
Maximum engine speed:	5800 RPM
Emissions control:	Evaporative emissions, bin-4 emissions, return less fuel system
Block:	Cast aluminum
Cylinder head:	Cast aluminum
Intake manifold:	Composite
Exhaust manifold:	Nodular iron
Main bearing caps material:	Powered metal
Crankshaft:	Forged steel
Camshaft:	Billet steel
Connecting rod:	Powdered metal

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