

# Delphi Electronic Variable Orifice (EVO)

### ► Description

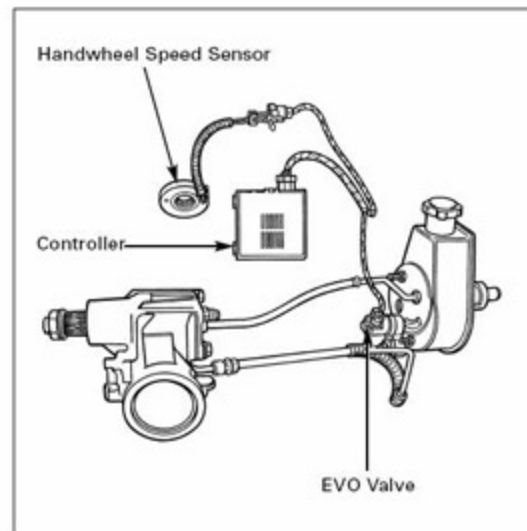
The Delphi Electronic Variable Orifice (EVO) enhances standard power steering systems by automatically adjusting the required steering effort in relation to engine rpm or vehicle speed. It changes steering effort required by regulating fluid flow output from the power steering pump:

- During parking maneuvers, the actuator provides high pump flow for lower steering effort.
- At highway speeds, the actuator reduces flow in proportion to engine rpm or vehicle speed to achieve higher steering effort. The higher effort enhances highway feel/stability.
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A variable discharge orifice actuator mounted at the pump discharge fitting serves as the regulating device. The EVO system is available for both the rack & pinion and integral gear systems.

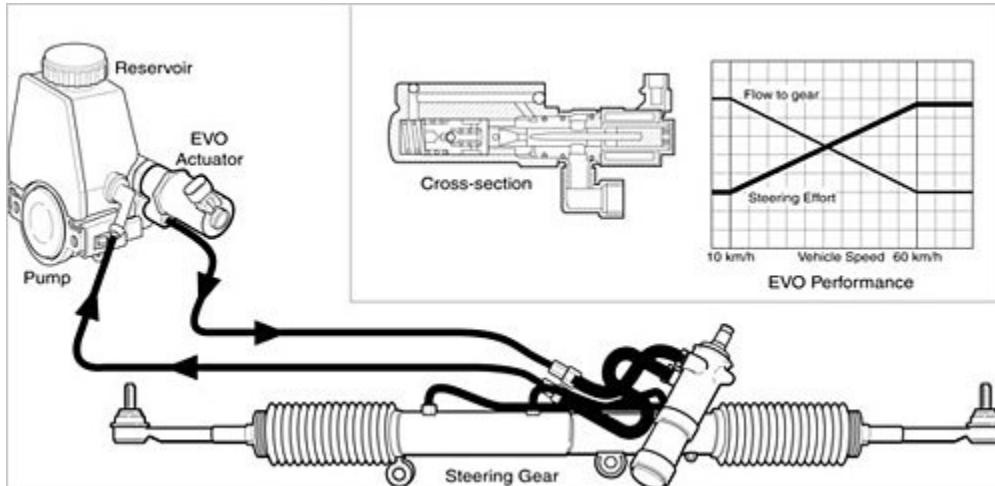
### ► Benefits

- Economical variable effort feature
- Helps improve fuel economy by reducing the pressure the pump has to work against during straight-ahead highway speed driving
- Reduced steering system operating temperature
- A standalone or integrated vehicle controller can be utilized to control the electrical current to the actuator
- Other control parameters such as handwheel speed may be added to the controller to provide even greater control over the steering system



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Delphi Electronic Variable Orifice (EVO) diagram