# Multi-Port Fuel Injection (MFI) System

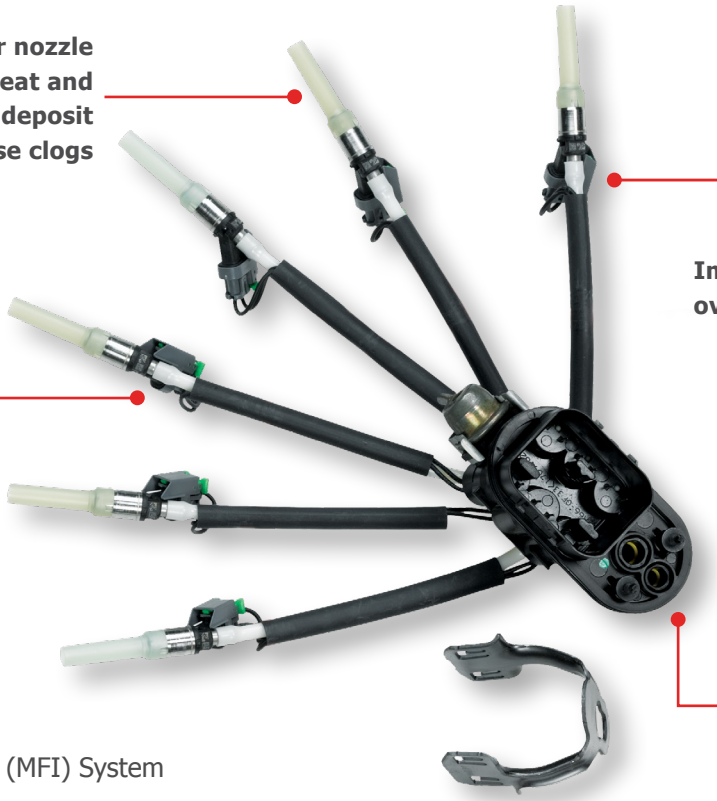
GM's Vortec engines come with a Sequential Port Injection System (SCPI). Standard's Multi-Port Fuel Injection (MFI) system has several advantages over the original Sequential Central Port Injection (SCPI) system, including port fuel delivery and high reliability, better hot starts and reduced vapor emissions, and faster prime on hot restarts.

OE SCPI Injection System

**Improved spray injector nozzle design with longer seat and no valvet ball reduces deposit buildup that can cause clogs**

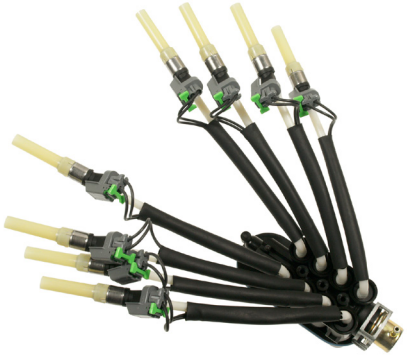
**Improved hot fuel handling over SCPI system**

**Lack of poppet valve eliminates problem of deposit build-up**



**Enhanced pressure control at low recirculation rates**

**FJ503**
Multi-Port Fuel Injection (MFI) System
GM V6 4.3L



The above Multi-Port Fuel Injector is also available for the GM V8.

**FJ504**
Multi-Port Fuel Injection (MFI) System
GM V8 4.3L

**Tech Tip:** For successful installation, lubricate injector tips and O-ring seals with transmission assembly gel, petroleum jelly, or even clean engine oil. Do not use silicone.

# « JUST THE FACTS »

## Standard's MFI Advantages

- Built to last up to 10 yrs/100,000 miles – an improvement over the SCPI system
- Improved sealing over SCPI system
- Better transient response over SCPI system
- Low vacuum sensitivity
- Advanced pulse-to-pulse precision, low voltage performance at open throttle
- Low heat transfer to fuel
- Faster temperature stabilization over SCPI system
- Low heat transfer to fuel tank

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## Manufacturing and Testing

### Designed and Built in the USA

Standard® injectors are designed and built at SMP's vertically integrated TS16949-certified manufacturing plant in Greenville, SC. As a result, we're able to yield fuel injectors that meet our strict quality control standards. In addition to designing and engineering, we subject our injectors to extensive end-of-line and life cycle testing.

### Passing the Test

To make sure every fuel injector meets our strict standards for precision quality, enhanced performance, and extra durability, Standard® perform initial life-cycle validation and 100% end-of-line testing. What's more, we subject our fuel injectors to more than 35 different tests and inspections. Here are just a few of the elements and components that we test and inspect:

- Body Color
- Body Style
- Coil Resistance
- Connector Shape
- Dynamic Flow Rate
- Endurance
- Humidity
- Linearity
- Shock Load
- Spray Pattern
- Static Flow Rate
- Thermal Cycles
- Vibration
- and more!

## What Our Manufacturing and Testing Means for You

Precision quality, enhanced performance, extra durability, and 100% consistent product reliability.