

# Multec™ 2 Injectors

### Description

Multec™ 2 is a new generation port fuel injector designed to meet the most stringent worldwide application requirements in passenger cars and trucks. It is suitable for any gasoline-alcohol mixture, on two- or four-valve engines. It is small, facilitating improved spray targeting, packaging, and crash protection. It is quiet, eliminating the need for supplemental sound deadeners. World-class durability, linear range, and tight flow tolerances minimize engine out emissions throughout the vehicle's life.

### Typical Applications

Multec 2 is suitable for any application requirement up to 6 grams per second static flow and below 2 milligrams per pulse. Internal and external air assist options are available to supplement an extensive variety of spray geometry options.

### Performance Advantages

The Multec 2 injector has lower mean tip leak rates than current injectors. It is optimized for saturated switch injector drivers, which lowers controller cost. The wide linear range enables a single injector to fit multiple applications.

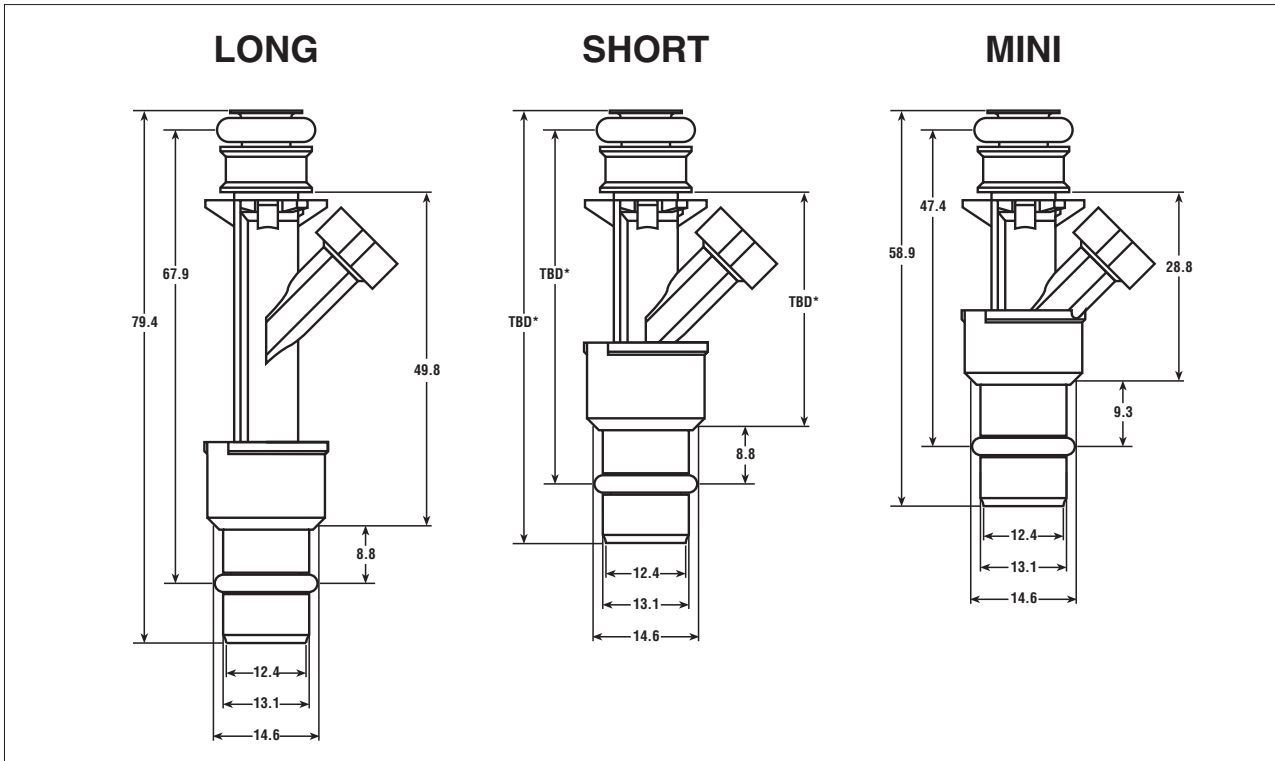


Features	Benefits
<ul style="list-style-type: none"> <li>• Superior low pulse width fuel control</li> </ul>	<ul style="list-style-type: none"> <li>• Enables "make up pulse" fuel control for LEV/ULEV applications</li> </ul>
<ul style="list-style-type: none"> <li>• Reduced spray variation</li> </ul>	<ul style="list-style-type: none"> <li>• Better cold start and transient emissions</li> </ul>
<ul style="list-style-type: none"> <li>• Increased spray velocity and smaller spray particle size</li> </ul>	<ul style="list-style-type: none"> <li>• Better cold start and transient emissions</li> </ul>
<ul style="list-style-type: none"> <li>• Multi-fuels capability</li> </ul>	<ul style="list-style-type: none"> <li>• Worldwide applications compatible</li> </ul>
<ul style="list-style-type: none"> <li>• Multiple available lengths</li> </ul>	<ul style="list-style-type: none"> <li>• Packaging flexibility</li> <li>• Improved crash protection</li> <li>• Lower engine profiles</li> </ul>
<ul style="list-style-type: none"> <li>• Cold sealing available to -50°C</li> </ul>	<ul style="list-style-type: none"> <li>• Cold weather operation</li> </ul>
<ul style="list-style-type: none"> <li>• Delphi Micro Pack OBD II connector</li> </ul>	<ul style="list-style-type: none"> <li>• Reduced size allows for tighter packaging (injector in head applications)</li> <li>• Smallest sealed injector connector</li> <li>• Connector position assurance feature to ensure proper mating connection</li> </ul>

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## Available Packaging Lengths

(shown with mating electrical connector)



## Performance Specifications

Capacity flows	Up to 6 grams per second
Fuel pressure	Up to 500 kPa differential
Spray angle	Dual spray separation angle up to 25 degrees Single spray cone angle range 3 to 20 degrees
Resistance	12.0 ohms
Linear flow range (LFR)	>16 typical at 300 kPa
Minimum operating voltage	<4.6 V typical at 300 kPa
Tip leak	<0.10 mean cc/minute typical at 420 kPa nitrogen

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# DELPHI

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