

Diesel System Components



Injector CRI 2



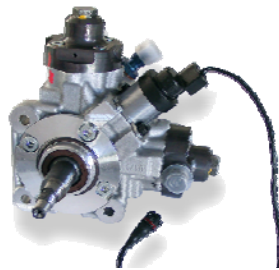
HP fuel pump CP3



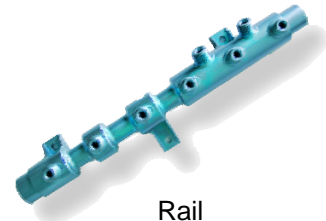
Rail



Injector CRI 3



HP fuel pump CP4



Rail



Pressure sensor RDS



Pressure control valve DRV

Component	Specification
Injector CRI 2	Solenoid, 6 - 8 holes, up to 1,500 ccm/min at 100 bar, up to 1,800 bar
Injector CRI 3	Piezo, 6 - 14 holes, up to 1,400 ccm/min at 100 bar, up to 2,200 bar
High pressure fuel pump CP3 / CP4	Pump with control valve and optional gear pump, up to 1,400 ccm/rev
Pressure control valve DRV	Pressure range up to 2,400 bar
Pressure limiting valve DBV	Pressure range up to 2,200 bar
Pressure sensor RDS	Pressure range up to 2,400 bar
Rails	Common rail for up to 6 cylinders per bank

The geometry and characteristics of diesel engine components are more dependent upon the application than for gasoline engines. A single injector design will not fit all Diesel engines due to varying mechanical and nozzle geometry requirements. In addition, the injection system can vary from year to year even within the same make of car.

Bosch Motorsport uses the same technology for racing that was developed by Bosch for production vehicle applications. This includes both solenoid (magnetic) technology used in earlier systems, and the latest cutting-edge piezo technology.

Bosch Motorsport can offer a wide variety of modifications to fit the system to your specifications. These modifications include:

- Definition of suitable base components from other (or larger) engine applications.
- Adaptation of components for mating, fit and orientation to suit the selected application.
- Flow enhancement of injectors and rails.
- Injector nozzle adaptation (flow rate, number of holes, spray cone angle etc.).

Our goal is to offer the best balance of cost and performance for your application. This is why we offer different levels of modifications to choose from. Below is an example of the different levels for a 4-cylinder engine with 4 injectors, 1 high pressure pump, and a single fuel rail:

	1st Level	2nd Level	3rd Level
Description	series components with some minor modifications (e.g. series components from a bigger engine (e.g. pump) plus series injector with sample nozzle)	series components with modification (e.g. modified injector body with sample nozzle)	components manufactured completely to your specification (e.g. heavily modified series components or new products)
Functioning	Solenoid	Piezo	Piezo or Solenoid
Injectors	4 x 650.00 €	4 x 2,100.00 €	On request
High Pressure Pump	1,250.00 €	3,000.00 €	On request
Fuel Rail	500.00 €	1,000.00 €	On request
System Price	4,350.00 €	12,400.00 €	On request
(Prices will be finalized in your personal offer once part numbers are defined)			

Additional remark:

Bosch Motorsport does not manufacture high pressure fuel lines, but we can assist you in finding a company that can build high pressure lines for your application.

When contacting us for more information on our Diesel components, please have the following information ready so that we may best determine components required for your application:

- The base engine / the car where this engine originally is installed
- Model year and type of car / engine
- The base output level and the desired output level for the engine

- If it is a Bosch application, the part numbers of the components
- Alternatively the car / engine manufacturer part number of the original injection system.

Please note:

If your engine is originally equipped with Bosch components, modifications will be easier than replacing third party components.

We reserve the right to assess a fee for applications where the component specification requires an extraordinary amount of time.