



# 1,000 BAR

## High Pressure Fuel Injector

### BENEFITS

**Fits in current engine architecture**

**Scalable for 30 to 1,000-bar fuel systems**



**Wide Application  
Range**



**Efficient  
Performance**



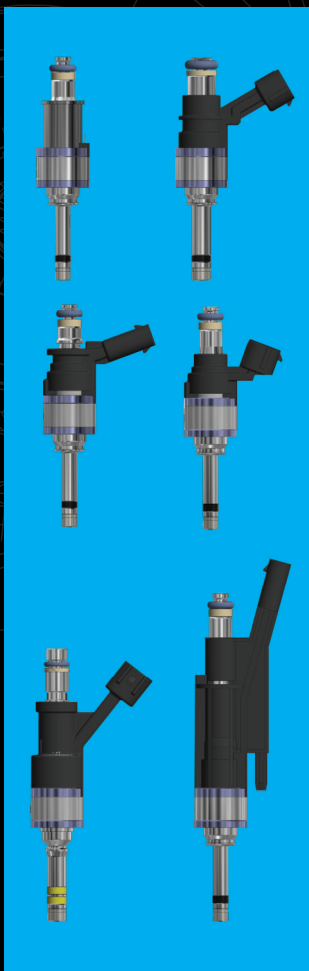
**Flexible  
Design**

*The injector's efficient magnetic design provides excellent feedback for unprecedented fuel control. It significantly reduces over-fueling during the injection-opening event by employing a unique armature solution. In addition, its variable valve body diameter allows for tighter packaging and the power group's modular construction enables fast and efficient changeovers between various connector designs.*

**ENABLING CLEAN PROPULSION THROUGH  
ENGINE INNOVATION**

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# TECHNICAL SPECS



## GENERAL

Pmax	up to 1,000 Bar
Operating Pressure	30 to 1,000 Bar
Static Flow @100 Bar	Up to 20 g/s
Static flow tolerance	+/- 4%
Dynamic flow tolerance	+/- 6% at $T_i = 1.5$ ms
Leakage @ 100 Bar	< 1.5 mm <sup>3</sup> /min
Min. time between injections	350 $\mu$ sec
Multiple Injections	4
MFM Minimum Fuel Mass @ 100 Bar w/n-Heptane	1.5 mg +/- 15%
Spray angle single stream	8 to 20°
Spray type	Multi hole
Overall spray angle	80 to 130°
Operating Temperature	-40 to 130 ° C
Body Diameter	21 mm
Length	87 shown, customer driven
Tip Diameter	6 mm
Inlet Cup Diameter	9.4 mm, customer driven

## ELECTRICAL

Boost Voltage	65 V
Boost time	480 $\mu$ s
Hold Current	3.5 A
Resistance	1.5 ohms
Supply Voltage	12-14 V

## REQUIREMENTS

# UNIQUE FEATURES

## HPDI INJECTOR

- Efficient magnetic design allows for excellent ballistic control and magnetic feedback
- Armature-stop design reduces over-fueling during the injection opening event
- Valve body diameter meets tighter engine packaging requirements
- The power group's modular construction enables fast and efficient changeovers between various connector designs

PATENT PENDING

