

# PICO

## Top Feed Injector



### Description

The "Pico" top feed injector is a standard production component built to the same automotive standard and specification.

The characteristics of the injector are a fast pulse response, high precision, high dynamic range and optimum fuel atomisation. These are achieved by a high performance ON-OFF actuating electromagnet with opposing expansion poles that moves an internal injector valve on high-precision ground cylindrical slides, and a high precision nozzle.

The injector has a stainless steel body, a fuel-resistant plastic connector, martensitic stainless steel internal valve and an electromagnet with a low carbon content stainless steel armature.

The electrical connection to the control unit is via a Mini-Timer plastic plug.



### Technical Data

#### Performance - Typical

Linearity range (Tj = 4 ms) .....± 2.5 %  
Max. fuel pressure allowed.....500 kPa  
Maximum duty cycle.....90 %  
Operating temperature range .....-30...110 °C  
Vibration (peak).....30 g

#### Test conditions

Fluid..... N-Heptane  
density (@ 20°C) .....0.684 kg/litre  
Ambient and fluid temperature .....23 °C  
Power supply .....14 Vdc  
Injection frequency ..... Fully open  
Pulse duration .....n/a  
Pressure ..... 3 bar

#### Mechanical Characteristics

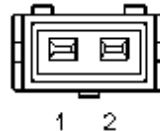
Height.....47.2 mm  
Outside diameter (connector excluded) .. 15.3 mm  
Weight.....35 g

#### Electrical Characteristics

Connector ..... Mini-Timer 2 way  
Power supply ..... 8 ÷ 16 Vdc  
Resistance..... 14.5 Ω  
Driver type ..... ON-OFF

### Electrical connections

PIN	Description
1	GND
2	+12 V



### Ordering information

Part No	Description	Colour band	Order code
IWP 001	Pico injector – 200 cc/min static flow		214310000110
IWP 006	Pico injector – 226 cc/min static flow	Blue	214310000610
IWP023	Pico injector – 158 cc/min static flow	Green	214310002310
IWP043	Pico injector – 329 cc/min static flow	Brown	214310004310
IWP045	Pico injector – 200 cc/min static flow		214310004510
IWP049	Pico injector – 184 cc/min static flow		214310004910
IWP064	Pico injector – 186 cc/min static flow		214310006400
IWP069	Pico injector – 491 cc/min static flow	Yellow	214310006900

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