

IWP069 Fuel injector

This IWP069 "Pico" top feed injector is a production component with a single hole 'cone' spray pattern and a wide range of applications for engines typically up to 85bhp per cylinder (depending on injection pressure)

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

Flow.....	Fully open
At 3 bar	491 cc/min – 5.60g/s
At 4 bar	563 cc/min – 6.42g/s
At 5 bar	629 cc/min – 7.17g/s
Cone – Inclusive 80%	15° Typ
Linearity range (at = 4 ms pulse)	± 4 %
Max. fuel pressure	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

Mechanical Characteristics

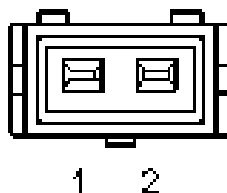
Height.....	47.2 mm
Outside diameter (connector excluded).....	15.3 mm
Weight.....	35 g
Connector angle from body.....	60 °

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.	Connector	Description
IWP069	2 way minitimer	Single hole fuel injector – Yellow band