

IWP162 Fuel injector

This IWP162 "Pico" top feed injector is a production component with a multi hole 'cone' spray pattern and a wide range of applications for engines typically up to 55bhp 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..... 377 cc/min – 4.30g/s
 Cone – Inclusive 70%..... 24 °
 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

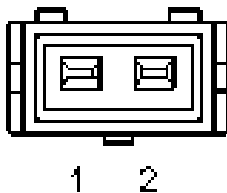
Height 47.2 mm
 Outside diameter (connector excluded)..... 15.3 mm
 Weight 35 g
 Connector angle from body 45 °

Electrical Characteristics

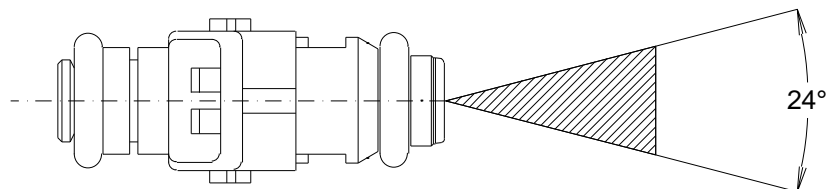
Connector Mini-Timer 2 way
 Power supply 8 ÷ 16 Vdc
 Resistance..... 14.5 Ω
 Driver type ON-OFF

Electrical connections

PIN	Description
1	GND
2	+12 V



Spray Data



Ordering information

Part No.	Connector	Description
IWP162	2 way minitimer	4 hole cone spray fuel injector – White band