# **IWP189 Fuel injector**

# 12 hole - Cone spray shower injector



# **Description**

This IWP189 "Pico" top feed injector is a production component with a multi hole 'cone' spray pattern and very high flow for use as a 'shower' injector directly downwards into the air intake of high performance engines.

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 490 cc/min - 5.8g/s	
Cone – Inclusive 90%24°	Typ
Linearity range (Tj = 4 ms) ± 4	%
Max. fuel pressure500	kPa
Maximum duty cycle 90	%
Operating temperature range30110	°C
Vibration (peak)	g

Test conditions	
Fluid	N-Heptane
density (@ 20°C)0.684	kg/litre
Ambient and fluid temperature	°Č
Power supply 14	Vdc

#### Test conditions - cont'd

Injection frequencyFully open	
Pressure3	bar

#### **Mechanical Characteristics**

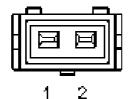
Height47.2	mm
Outside diameter (connector excluded) 15.3	
Weight35	g

### **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.	Connector	Description	Order Code
IWP189	2 way minitimer	High flow shower injector – multi hole	Use Part No.

For further details please contact

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