Fuel Injector Specs

IWP048 Fuel injector
5 hole – Cone spray, fuel injector

Description

This IWP048 "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 30bhp 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 electromagnetic 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 ........................................215 cc/min – 2.45g/s Cone
   – Inclusive 85% .................................... 24° Linearly
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) ..................................... 0.884 kg/litre
Ambient and fluid temperature............... 23 °C

Spray Data

Spray cone angle: 24°

Electrical connections

<table>
<thead>
<tr>
<th>PIN</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tr>
<tr>
<td>2</td>
<td>+12 V</td>
</tr>
</tbody>
</table>

Ordering information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Connector</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IWP048</td>
<td>2 way mini timer</td>
<td>5 hole cone spray fuel injector – Red band</td>
</tr>
</tbody>
</table>

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IWP043 Fuel injector
4 hole – Cone spray, fuel injector

Description

This IWP043 “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 50bhp 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

<table>
<thead>
<tr>
<th>Flow</th>
<th>Fully open</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 3 bar</td>
<td>329 cc/min ~ 3.75g/s</td>
</tr>
<tr>
<td>At 4 bar</td>
<td>377 cc/min ~ 4.30g/s</td>
</tr>
<tr>
<td>At 5 bar</td>
<td>421 cc/min ~ 4.80g/s</td>
</tr>
</tbody>
</table>

Cone – Inclusive 80% ........................................ 20° Typ

Linearity range (at 4 ms pulse) ............ ± 3 %

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 ............................................... 3.5 g

Electrical Characteristics

Connector ........................................ Mini-Timer 2 way

Power supply ...................................... 8 ± 16 Vdc

Resistance ......................................... 14.5 Ω

Driver type ........................................ ON-OFF

<table>
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<tr>
<th>PIN</th>
<th>Description</th>
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<tr>
<td>IWP043</td>
<td>2 way mini timer</td>
<td>4 hole fuel injector – Brown band</td>
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</table>

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IWP043_Weber PICO fuel injector_v02.doc  Specification subject to change without notice
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 ........................................... 510 cc/min - 5.8g/s +/- 4%
Cone – Inclusive 80% .......................... 50° Typ
Linearity range (Tj = 4 ms) .................. ± 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

Test conditions – cont’d

Injection frequency ............................. Fully open
Pressure ........................................... 3 bar

Mechanical Characteristics

Height .............................................. 47.2 mm
Outside diameter (connector excluded) ...... 15.3 mm
Weight ........................................... 1.35 g

Electrical Characteristics

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

Electrical connections

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<td>2 way minitimer</td>
<td>High flow shower injector – multi hole</td>
<td>Use Part No.</td>
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Iwp189_pico injector_v02.doc 09/06/2010   Specification subject to change without notice
IWP162 Fuel injector
5 hole – Cone spray, fuel injector

Description

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 round 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

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

Electrical connections

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Spray Data

Ordering information

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<td>2 way minitimer</td>
<td>5 hole cone spray fuel injector – White band</td>
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</tbody>
</table>

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IWP023 Fuel injector
Single hole – Cone spray, fuel injector

Description

This IWP023 “Pico” top feed injector is a production component with a single hole ‘cone’ spray pattern and a wide range of applications for engines typically for small engines up to 25bhp 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.................................. 158 cc/min – 1.8g/s
Cone – Inclusive 90%.......................... 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.......................................... 1.35 g

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

Electrical connections

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<tr>
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<th>Description</th>
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<td>+12 V</td>
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Spray Data

Ordering information

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<tr>
<td>IWP023</td>
<td>2 way minitimer</td>
<td>Single hole fuel injector – Red band</td>
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</tbody>
</table>

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IWP023_Weber  PICO fuel injector_v02.doc  Specification subject to change without notice
IWP069 Fuel injector
Single hole – Cone spray, fuel injector

Description

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

<table>
<thead>
<tr>
<th>Flow</th>
<th>Fully open</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 3 bar</td>
<td>491 cc/min – 5.60g/s</td>
</tr>
<tr>
<td>At 4 bar</td>
<td>563 cc/min – 6.42g/s</td>
</tr>
<tr>
<td>At 5 bar</td>
<td>629 cc/min – 7.17g/s</td>
</tr>
</tbody>
</table>

Cone – Inclusive 80% Typ 15°
Linear range (at = 4 ms pulse) ± 4 %
Max. fuel pressure 500 kPa
Maximum duty cycle 90 %
Operating temperature range 30° to 110 °C
Vibration (peak) 30 g

Test conditions

Fluid N-Heptane density (at 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 0.35 g

Electrical Characteristics

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

Electrical connections

<table>
<thead>
<tr>
<th>PIN</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>GND</td>
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<tr>
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<td>+12 V</td>
</tr>
</tbody>
</table>

Ordering information

Part No. IWP069
Connector 2 way minitimer
Description Single hole fuel injector – Yellow band

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IWP069_Weber PICO fuel injector_v02.doc Specification subject to change without notice
IWP006 Fuel injector
4 hole - Twin spray, fuel injector

Description

This IWP006 “Pico” top feed injector is a production component with a multi hole ‘twin stream’ spray pattern and a wide range of applications for engines typically up to 35bhp per cylinder (depending on injection pressure), on engines with a 4 valve head and the injector positioned close to the valve.

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

<table>
<thead>
<tr>
<th>Flow</th>
<th>At 3 bar</th>
<th>226 cc/min – 2.58g/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cone</td>
<td>Inclusive 80%</td>
<td>See Drawing</td>
</tr>
<tr>
<td>Linearity range (at 4 ms pulse)</td>
<td>± 4 %</td>
<td></td>
</tr>
<tr>
<td>Max. fuel pressure</td>
<td>500 kPa</td>
<td></td>
</tr>
<tr>
<td>Maximum duty cycle</td>
<td>90 %</td>
<td></td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-30…110 °C</td>
<td></td>
</tr>
<tr>
<td>Vibration (peak)</td>
<td>30 g</td>
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</tbody>
</table>

Test conditions

<table>
<thead>
<tr>
<th>Fluid</th>
<th>N-Heptane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density (@ 20°C)</td>
<td>0.684 kg/litre</td>
</tr>
<tr>
<td>Ambient and fluid temperature</td>
<td>23 °C</td>
</tr>
</tbody>
</table>

Power supply: 14 Vdc

Mechanical Characteristics

<table>
<thead>
<tr>
<th>Height</th>
<th>47.2 mm</th>
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<tbody>
<tr>
<td>Outside diameter (connector excluded)</td>
<td>15.3 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>35 g</td>
</tr>
</tbody>
</table>

Electrical Characteristics

Connector: Mini-Timer 2 way

<table>
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<tr>
<th>Power supply</th>
<th>8 ± 16 Vdc</th>
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<tbody>
<tr>
<td>Resistance</td>
<td>14.5 Ω</td>
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<tr>
<td>Driver type</td>
<td>ON-OFF</td>
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</table>

Electrical connections

<table>
<thead>
<tr>
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<tr>
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Spray data

Ordering information

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<tbody>
<tr>
<td>IWP006</td>
<td>2 way minitimer</td>
<td>4 hole fuel injector / Split stream – Blue band</td>
</tr>
</tbody>
</table>

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IWP006_Weber  PICO fuel injector_v02.doc  Specification subject to change without notice
Pico fuel injectors
Spray patterns

The following spray pattern information is applicable to all of the ‘Pico’ style fuel injectors.

All data is nominal and cannot be guaranteed – For users with very specific requirements we suggest that you make selective testing.

<table>
<thead>
<tr>
<th>CODE</th>
<th>STATIC FLOW (cc/min)</th>
<th>CONNECTOR ANGLE</th>
<th>SPRAY CONFIGURATION</th>
<th>a</th>
<th>b</th>
<th>g</th>
<th>d</th>
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<tbody>
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<td>IWP 001</td>
<td>200</td>
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<td>BENT STREAM</td>
<td>16°</td>
<td>10°</td>
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<td>90°</td>
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<td>0°</td>
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<td>IWP 189</td>
<td>490</td>
<td>60°</td>
<td>SINGLE STREAM</td>
<td>---</td>
<td>24°</td>
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</table>

Fluid.................. n.Heptane
Pressure .......... 3bar
R ...................... 14.5 Ω

For further details please contact
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Weber PICO_injection spray data_02 Specification subject to change without notice