KME autogas systems

ver. 13.01.2021

INJECTORS

# FENIX

CONTROL & SAFETY

DUST RESISTANCE

LOW TEMPERATURES

NEVO-SKY

FENIX injectors intended to work with **NEVO-SKY ECU's**.

APPROVAL

KME W3 FENIX: E8 67R-02 11415 E8 110R-03 11416

An unquestionable advantage of FENIX injectors is **speed**, and **short opening stable times**. These injectors are also characterised by **high stability of gas flow**, and very **presise fuel dosage** in dynamic conditions. This is especially important for **direct injection engines**, due to their dynamic character.

In order to provide a **high quality** injector, KME being a producer of complete autogas systems, implemented necessary **parameter control** system, and also secured **the right selection of components**.

The product contains **seals made of rubber-based mixtures** (FKM) and modern fluoropolymer sliding coatings (non-stick and anti-freeze) that make the injector extremelly **resistant to fuel pollution and low temperatures**. The injector is equipped with a standard Superseal 2-pin connector.

| | |
|---|---|
| MAX. POWER | **60 - 65** HP |
| MIN. STABLE OPENING TIME | 1,55 ms |
| MAX. NOZZLE DIAMETER | 3,0 mm |
| COIL RESISTANCE | 1,9 Ω ±5% |
| OPENING DELAY | 1,7 ms |
| CLOSING DELAY | 1,2 ms |
| MAX. OPENING CURRENT | 6 A |
| MAX. HOLDING CURRENT | 2 A |
| MAX. WORKING PRESSURE | 4,5 bar |

| | |
|---|---|
| WORKING TEMPERATURE | -20 ÷ +120 °C |
| POWER SUPPLY VOLTAGE | 12 ÷ 16 V |
| GUARATEE | 100 000 km |
| LIFETIME | > 500 mln cycles |
| CONNECTOR | Superseal |
| VARIANT | 1, 2, 3, 4 cyl |
| FLOW REGULATION | using calibration nozzles |
| COATING | fluoropolymer |

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MANIFOLD FENIX 4 CYL

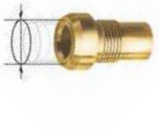
ELBOW

ALUMINIUM RAIL 4 CYL

TEE

| | PRODUCT CODE |
|---|---|
| FENIX INJECTOR 1 CYL | **871 000 010** |
| FENIX TEE (Ø 12) | **879 000 035** |
| FENIX ELBOW (Ø 12) | **879 000 034** |
| MANIFOLD FENIX 2 CYL | **879 000 036** |
| MANIFOLD FENIX 3 CYL | **879 000 037** |
| MANIFOLD FENIX 4 CYL | **879 000 038** |
| ALUMINIUM RAIL 2 CYL | - |
| ALUMINIUM RAIL 3 CYL | - |
| ALUMINIUM RAIL 4 CYL | - |

When mounting FENIX injectors, you can use either **manifolds**, or **dedicated elbows**, and **knees**. It is a **very helpful** tool for an installer, as they facillitate mounting the injector, even in difficult to access area.

## THE INJECTOR NOZZLES SELECTION

The table shows the values of the injector nozzle diameter depending on the power output for one cylinder. Nozzle diameter selection values are approximate and suggested. In some cases they must be adjusted to the specific engine and system settings.

We recommend using injectors with nozzles.

| Ø [mm] | 1,0 [bar] | 1,25 [bar] | 1,5 [bar] |
|---|---|---|---|
| 1,5 | 17÷23 HP \| KM | 19÷25 HP \| KM | 21÷28 HP \| KM |
| 1,6 | | | |
| 1,7 | | | |
| 1,8 | 24÷28 HP \| KM | 27÷32 HP \| KM | 31÷36 HP \| KM |
| 1,9 | | | |
| 2,0 | | | |
| 2,1 | 31÷35 HP \| KM | 35÷40 HP \| KM | 39÷45 HP \| KM |
| 2,2 | | | |
| 2,3 | | | |
| 2,4 | 37÷40 HP \| KM | 43÷46 HP \| KM | 48÷52 HP \| KM |
| 2,5 | | | |
| 2,6 | | | |
| 2,7 | 41÷45 HP \| KM | 47÷52 HP \| KM | 53÷59 HP \| KM |
| 2,8 | | | |
| 2,9 | | | |
| 3,0 | | | |

### The way of mounting the injectors


IDEAL


ACCEPTABLE

UNACCEPTABLE

### The way of reaming the injector nozzles


example of completations

| | | |
|---|---|---|
| 1 | · double manifold x 1<br>· FENIX injector x 2 | · tee x 1, elbow x 1<br>· FENIX injector x 2 |
| | · triple manifold x 1<br>· FENIX injector x 3 | · tee x 2, elbow x 1<br>· FENIX injector x 3 |
| | · quadruple manifold x 1<br>· FENIX injector x 4 | · tee x 3, elbow x 1<br>· FENIX injector x 4 |
| 2 | | |