

2024

railgroup.it

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ABOUT US

RAIL was established in 2006 with the core business of designing, manufacturing and marketing injectors for LPG/CNG systems in the automotive industry.

The founders, Luigi Stevani and Rocco Grossi, had already acquired experience and specific technical skills in designing such components.

Today, the company employs a dynamic and specialized workforce able to provide customers with an all-round service, from pre-sale consulting support to the proposal of customized solutions.

Professionalism and on-going commitment are the distinctive features of RAIL, together with high-level technical assistance, always tailored to the customers' requirements.

RAIL uses leading-edge equipment to manufacture its components, in full compliance with the quality and safety standards in force in the industry.

Over the years, RAIL has constantly broadened its range by adding new injector models, becoming established in over 30 countries throughout the world.

Thanks to on-going investments in research and development, RAIL now aims to increase the quality of its products still further, thereby confirming its standing with customers as a dependable and innovative partner.

MISSION & VISION

* OUR MISSION

RAIL undertakes to design, manufacture and market top-quality, highly reliable components for LPG and CNG systems, thereby offering leading-edge solutions thanks to on-going innovation, research and development. Anticipate the needs of an evolving market and provide all-round customer support are our goals.

* OUR VISION

To become leader and international point of reference for the supply of components for LPG and CNG systems thanks to our on-going commitment to technological innovation, process optimization and customer satisfaction. To be recognized for the high quality of our products, result of time-tested skills and a constant drive for new solutions.



RESEARCH & DEVELOPMENT

Our technical workshop and quality department are outfitted with the most modern equipment and are staffed with technicians constantly committed to improving the production processes. We focus on advanced automation at every stage, from design to creation of the finished product.

Thanks to investments in innovative solutions, our product engineering department has achieved remarkable increases in efficiency during the injector calibration and final inspection stages.

Pursuing excellence by implementing state-of-the-art technologies to guarantee the top-most quality standards is our goal. Our search for technical perfection drives us towards ongoing development targeted on providing our customers with top-quality products.

OUR TECHNICAL OFFICE

Our technical office is the beating heart of RAIL innovation.

Our goal is always to anticipate the requirements of our customers and the market by proposing leading edge products.



CONSULTANCY

Our experts are on hand to assist our customers at every stage, from choice of the most suitable solution, through to installation and after-sale care.



CUSTOMIZING

We design solutions tailored to suit the customers' needs. Our technical office can customize our products as required.

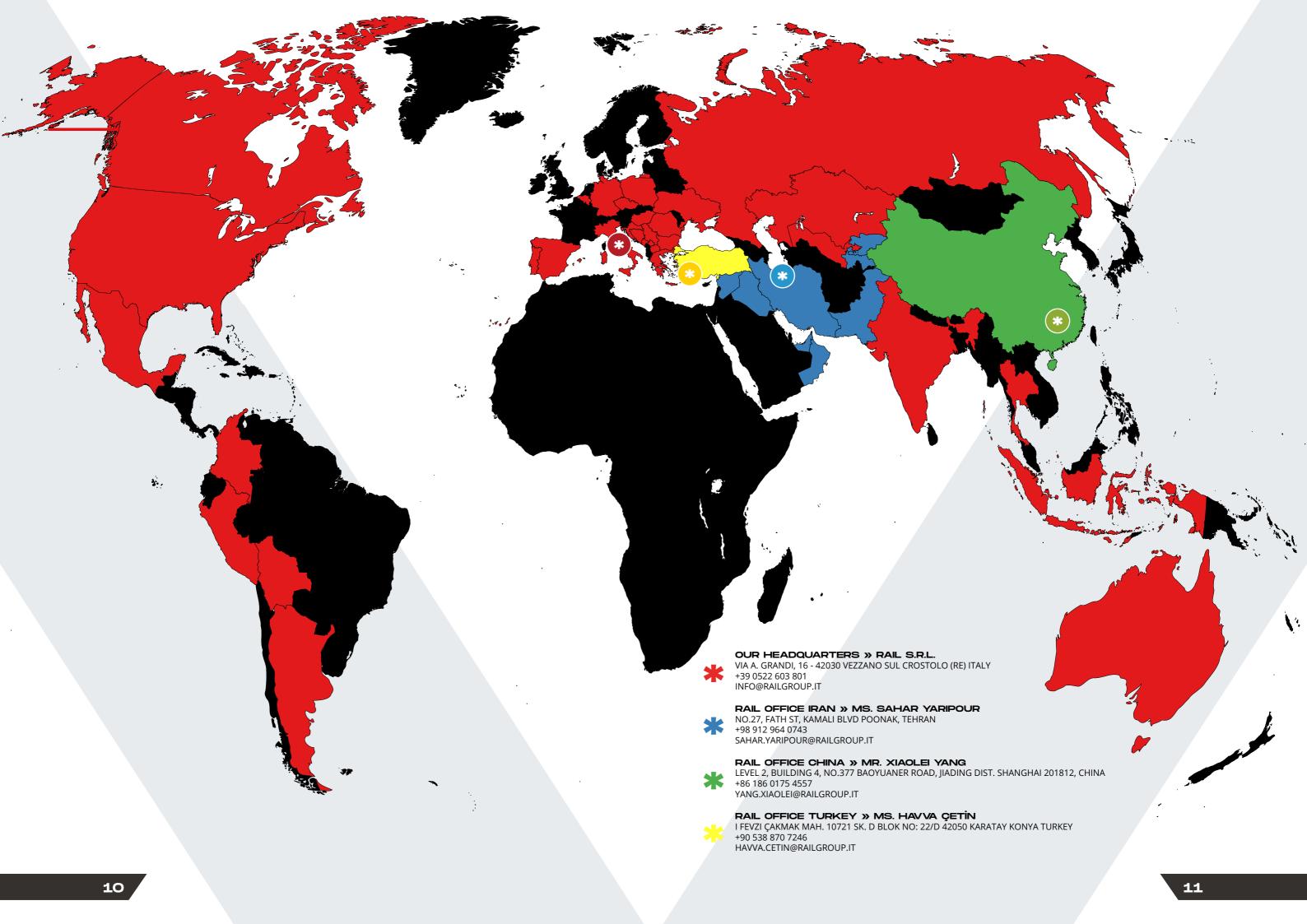


AFTER-SALES ASSISTANCE

A prompt and qualified assistance service for full customer satisfaction. Our technicians are ready to act quickly in every situation.







OUR ACHIEVEMENTS

RAIL has now been in the business for over 17 years and throughout that time has always displayed a constant capacity for growth and innovation, as testified by the goals attained year by year.

From supplying international markets in 2014 to improving the performance of products like the IGI Apache HD injector, through to the development of new lines such as the Tyrion reducer and revolutionary IG4 Dakota OEM injector.

Ongoing investments in research and development have led to an expansion of our product range and enabled us to penetrate new segments of the market, as evidenced by our entrance into the CNG and LNG reducer sector.

Our strive towards innovation and to improve our production processes is what drives the irrepressible development of RAIL in its endeavour to become a leading player in its particular sector.

We supply IG1, IG1 Apache injectors to Chinese OEMs

IG1 Apache HD/ IG1 2014: increased product lifespan and reliability, with a consequently longer warranty period

IG1 Apache HD injectors last over 150,000 km in a group of taxis in Thailand, without requiring any maintenance

2016 IG1 Apache HD/ IG1 2014: no complaints about performance or lifespan since 2014

2016 RAIL celebrates its tenth anniversary2017 IG7 Dakota reaches 1 billion cycles in laboratory endurance tests

3,620,000 of 4- ,3- and 2-cylinder injectors sold between 2006 and December 2019

2019 IG7 Dakota: All-time minimum number of complaints from the field

Production of the Tyrion CNG reducer begins

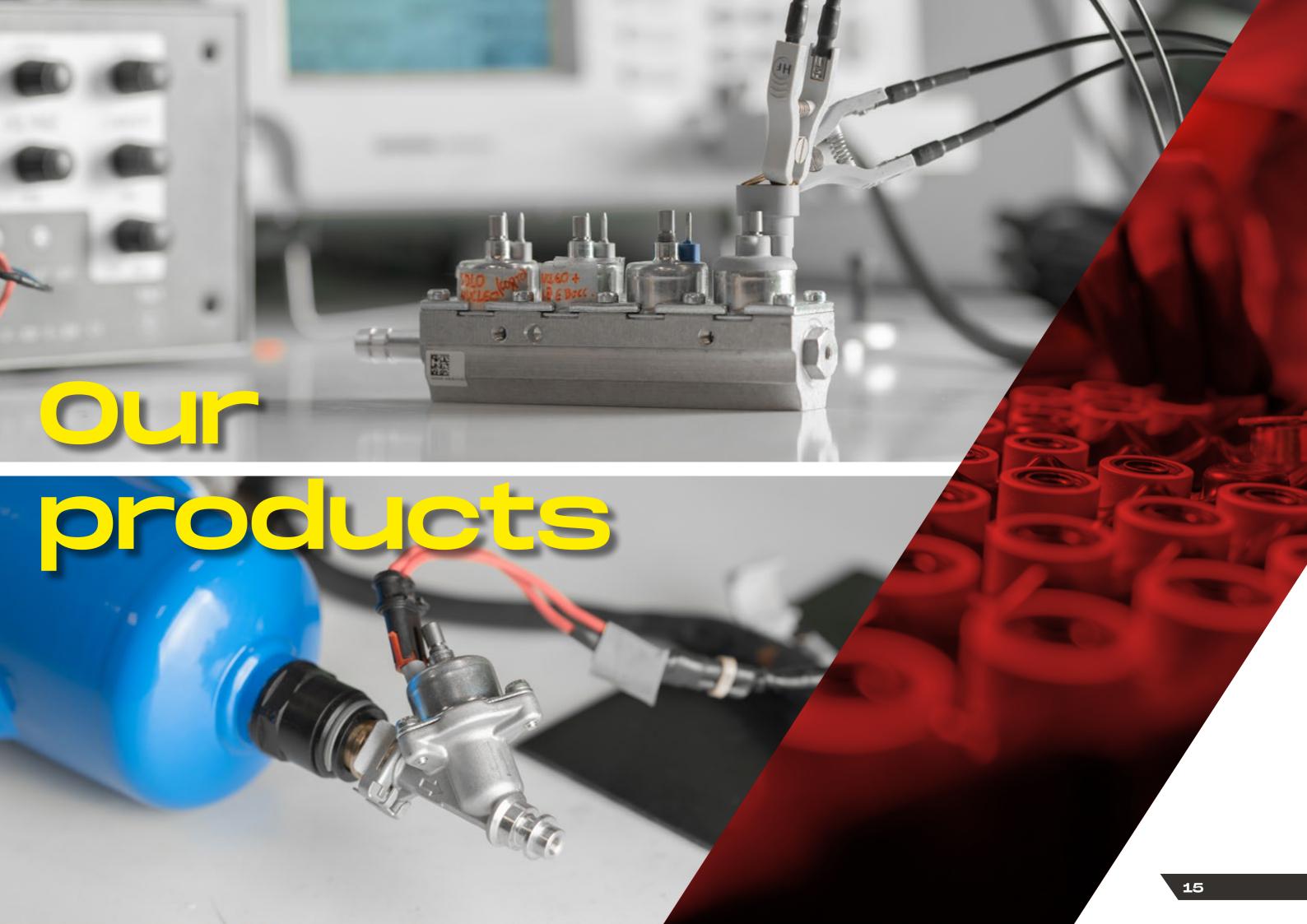
Beginning of production of the IG4 Dakota AM and OEM injector and development of the LNG Greener reducer

2023 ISO 15500 cert

ISO 15500 certification in India for IG4, IG7 and LNG Greener

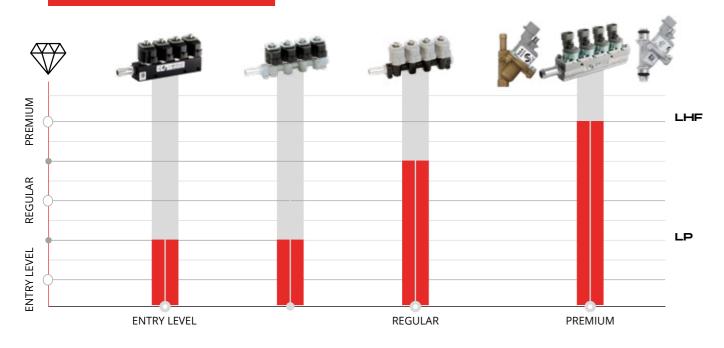
Work in progress, new products and new solutions



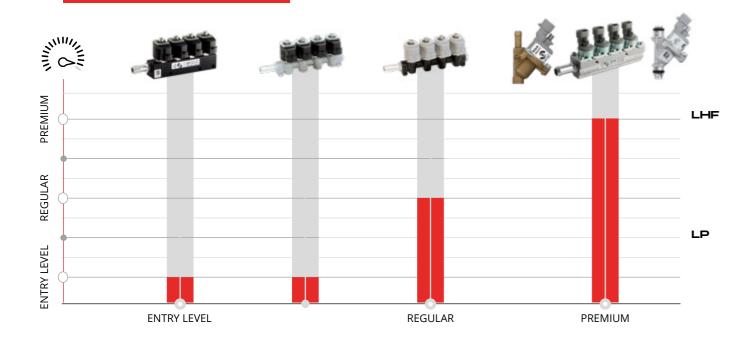


PRODUCT SPECIFICATIONS

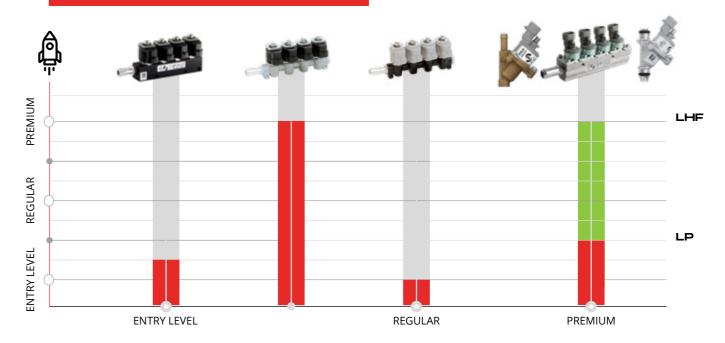
LIFESPAN



SPEED



POWER HANDLING CAPABILITY



TECHNICAL INFORMATION

| | IG7 DAKOTA | | | IG4 DAKOTA OEM | | | |
|---------------------------------|------------|---------|-------------|----------------|---------|-------------|--|
| OEM | LP | | LHF | LP | | LHF | |
| | 1 Ohm | / 2 Ohm | 2 Ohm | 1 Ohm | / 2 Ohm | 2 Ohm | |
| FUEL TYPE ON APPLICATION | LPG - CNG | | | LPG - CNG | | | |
| OPENING TIME (ms) | 1.4 | 1.7 | 1.8 | 1.4 1.7 | | 1.8 | |
| MAX POWER FOR LPG 1 BAR (kW) | 28/Cyl. | 33/Cyl. | 43/Cyl. | 28/Cyl. | 33/Cyl. | 43/Cyl. | |
| MAX POWER FOR CNG 2 BAR (kW) | 25/Cyl. | 29/Cyl. | 38/Cyl. | 25/Cyl. | 29/Cyl. | 38/Cyl. | |
| DURABILITY | 1 Billion | | 700 Million | 1 Billion | | 700 Million | |

Technical features of injectors for the application: oem, 0 km, passenger vehicles, bi-fuel or monofuel, light commercial vehicles, direct injection engine

| | IG6 POTOMAC | | IG6 TAURUS II | | IG7 DAKOTA HP | IG4 DAKOTA "8L" | |
|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------|-----------------------|------------------------------|
| HEAVY DUTY | Coil Resistance 1,5 Ohm | Coil Resistance 4,7 Ohm | Coil Resistance 1,5 Ohm | Coil Resistance 4,7 Ohm | 2 Ohm | Coil Resistance 1 Ohm | Coil Resist- ance 4,7 Ohm |
| FUEL TYPE ON APPLICATION | CI | NG | CI | NG . | CNG | CN | IG |
| OPENING TIME (ms) | 2.15 | 2.1 | 2.4 | 2.4 | 1.9 | 2.7 | |
| MAX FLOW RATE | 15.2 Kg/h | 15.2 Kg/h | 18 Kg/h x Cyl. | 18 Kg/h x Cyl. | 17 Kg/h x Cyl. | 31.1 Kg/h x Cyl. | |
| N° OF CYLINDER | 1 SINGLE | | 3, 4, 5 AND 6 | | 2, 3 AND 4 | 1 SINGLE | |
| DURABILITY | 500 N | Million | 500 N | fillion | 500 Million | 500 N | lillion |
| MAX PRESSURE RANGE | 5/9 | 5/9 | 5/9 | 5/9 | 7 | 8 | |

Technical features of injectors for the application: heavy duty multi point&single point inj.; bus, truck, industrial engine, generators (stationary engine)

| | 10 | i1 | IG1 A | PACHE | IG1 APACHE HD | IG7 D | АКОТА | IG4 AFTER MA | RKET VERSION |
|-----------------------------------|-----------------|-----------------|---------------|-----------------|-------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| AFTER MARKET | | | | | | LP Version | LHF Version | LP Version | LHF Version |
| WARKET | For 2 Ohm | For 3 Ohm | For 2 Ohm | For 3 Ohm | Only 2 Ohm Available | Only 2 Oh | m Available | Only 2 Oh | m Available |
| FUEL TYPE ON APPLICATION | LPG / | CNG | LPG | / CNG | LPG / CNG | LPG | / CNG | LPG. | / CNG |
| OPENING TIME (ms) | 2.8 | 3.2 | 2.8 | 3.2 | 2.5 | 1.7 | 1.8 | 2 | 2.1 |
| POWER RANGE FOR LPG 1 BAR (kW) | From 11 to 33 l | kW/per cylinder | From 11 to 37 | kW/per cylinder | From 11 to 30 kW/per cylinder | From 12 to 33 kW/per cylinder | From 11 to 43 kW/per cylinder | From 12 to 33 kW/per cylinder | From 11 to 43 kW/per cylinder |
| POWER RANGE FOR CNG 2 BAR (kW) | From 11 to 29 l | kW/per cylinder | From 11 to 33 | kW/per cylinder | From 11 to 25 kW/per cylinder | From 10 to 29 kW/per cylinder | From 10 to 38 kW/per cylinder | From 10 to 29 kW/per cylinder | From 10 to 38 kW/per cylinder |
| DURABILITY | 250 milli | on cycles | 250 milli | on cycles | 500 million cycles | 1 billion cycles | 700 million cycles | 1 billion cycles | 700 million cycles |
| SEGMENT | ENTRY | LEVEL | ENTRY-ME | DIUM LEVEL | MEDIUM LEVEL | HIGH | LEVEL | HIGH | LEVEL |

Basic technical features of injectors for the application: bi-fuel, passenger vehicles & light commercial vehicles - multipoint injection - direct injection engine

CUSTOMIZED PRODUCTS

We tailor our injectors to the customers' specific requirements. Backed by the know-how acquired by our technical staff members and the ongoing progress of our production processes, we are able to provide products customized down to the smallest detail.

We can customize the logo by laser engraving to make the product unique and distinctive.

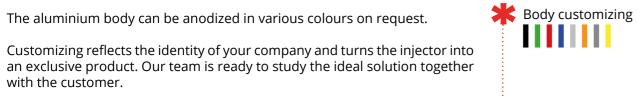
The customer can also have the coil customized with a chosen colour and trademark.

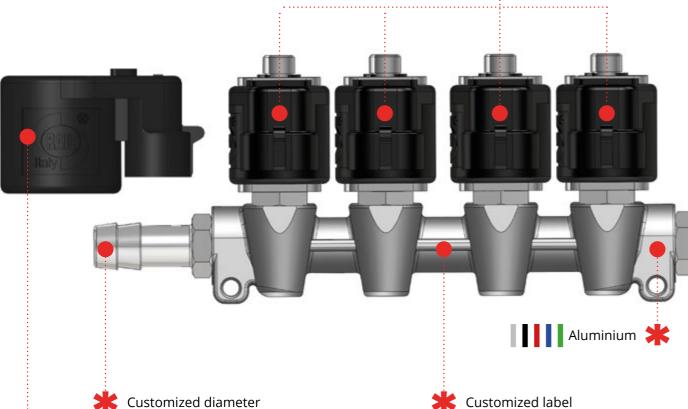
The inlet diameter of the injector can be modified on request.

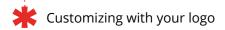
The customer can choose the trademark and colour on the label to create a signature product.

The aluminium body can be anodized in various colours on request.

an exclusive product. Our team is ready to study the ideal solution together







KEY TO SYMBOLS

| | High performance | ij | Description |
|-------------|------------------------|--------------|--------------------|
| | Average performance | - | Accessories |
| , jiř | Technological injector | Al | Aluminium |
| <u>\$</u> | Basic cost | Pm | Polymeric material |
| <u>\$69</u> | Normal cost | CuZn | Brass |
| | High cost | FeC | Steel |



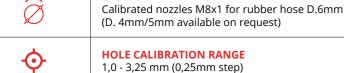
IG1 OLD







| о₩ю | COIL RESISTANCE ± 5% A2 2,0 Ohm A3 3,0 Ohm |
|-------------------------|-----------------------------------------------------------------------------------------|
| ŏ | GAS INLET FITTING DIAMETER Rubber hose D. 10mm/12mm (D. 14mm/16mm available on request) |
| $\stackrel{\sim}{\sim}$ | GAS OUTLET FITTING DIAMETER |



| - | 1, |
|---|------------------------------------------------------------------------|
| | POWER HANDLING CAPABILITY LPG 1 bar 45HP/Cyl CNG 2 bars 40HP/Cyl |
| | TEMPERATURE RANGE LPG -20° / +120°C CNG -40° / +120°C |

| 67R-01 / 110R-00 / ISO 15500 |
|-------------------------------------------|
| MAIN FEATURE TRIED-AND-TESTED INJECTOR |

| £0; | MAIN FEATURE AVAILABLE IN THE 0.45 MM STROKE VERSION |
|-----|---------------------------------------------------------|
| | |

......



M5 temperature sensor



Sensata pressure and temperature sensor



Fastening bracket



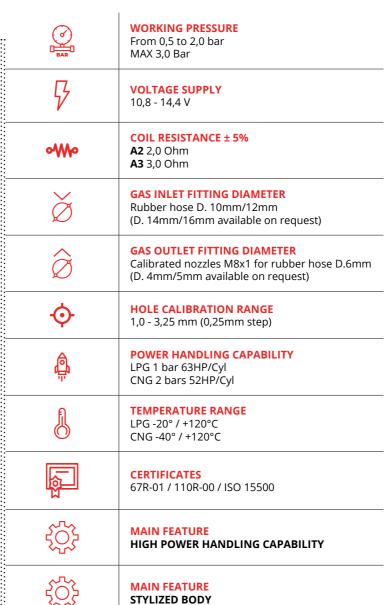
DATA SHEET

IG1 **APACHE**













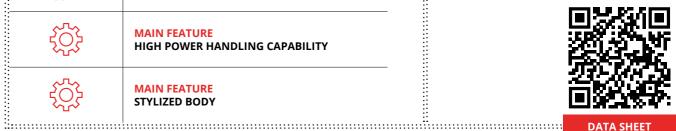
M5 temperature sensor



Sensata pressure and temperature sensor



Fastening bracket



DATA SHEET

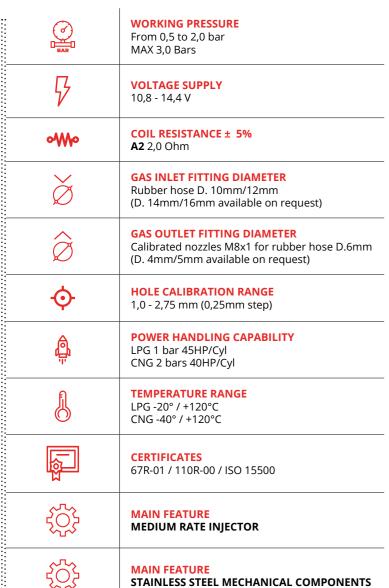
IG1















M5 temperature sensor



Sensata pressure and temperature sensor



Fastening bracket



DATA SHEET

IG2





ALSO AVAILABLE IN THE "HD" VERSION

WORKING PRESSURE

From 0,5 to 2,0 bar MAX 3,0 Bars

VOLTAGE SUPPLY 10,8 - 14,4 V

A2 2,0 Ohm

A3 3,0 Ohm

On Manifold

COIL RESISTANCE ± 5%

Rubber hose D. 12mm

Rubber hose D.7mm

GAS INLET FITTING DIAMETER From Manifold to injector inlet

GAS OUTLET FITTING DIAMETER

HOLE CALIBRATION RANGE

1,0 - 3,25 mm (0,25mm step)

LPG 1 bar 50HP/Cyl

CNG 2 bars 45HP/Cyl

LPG -20° / +120°C

CNG -20° / +120°C

CERTIFICATES 67R-01 / 110R-00

MAIN FEATURE

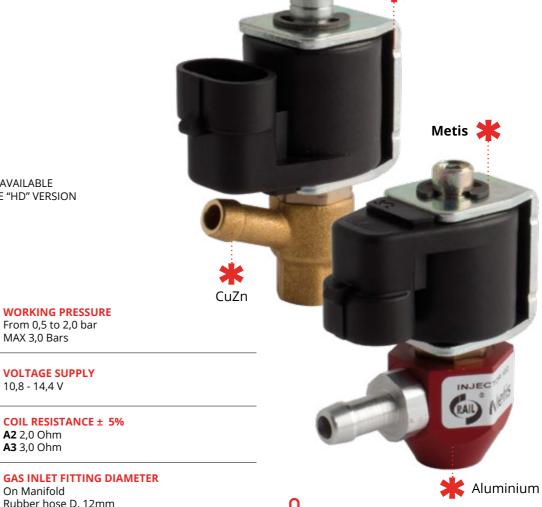
SINGLE INJECTOR

TEMPERATURE RANGE

POWER HANDLING CAPABILITY

(D. 4mm/5mm available on request)

Calibrated nozzles M8x1 for rubber hose D.6mm



K Namur II



Manifold



Sensata pressure and temperature sensor



DATA SHEET

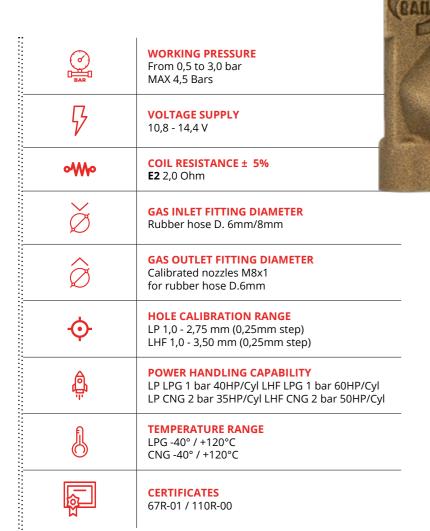
IG4 DAKOTA AFTER MARKET















DATA SHEET

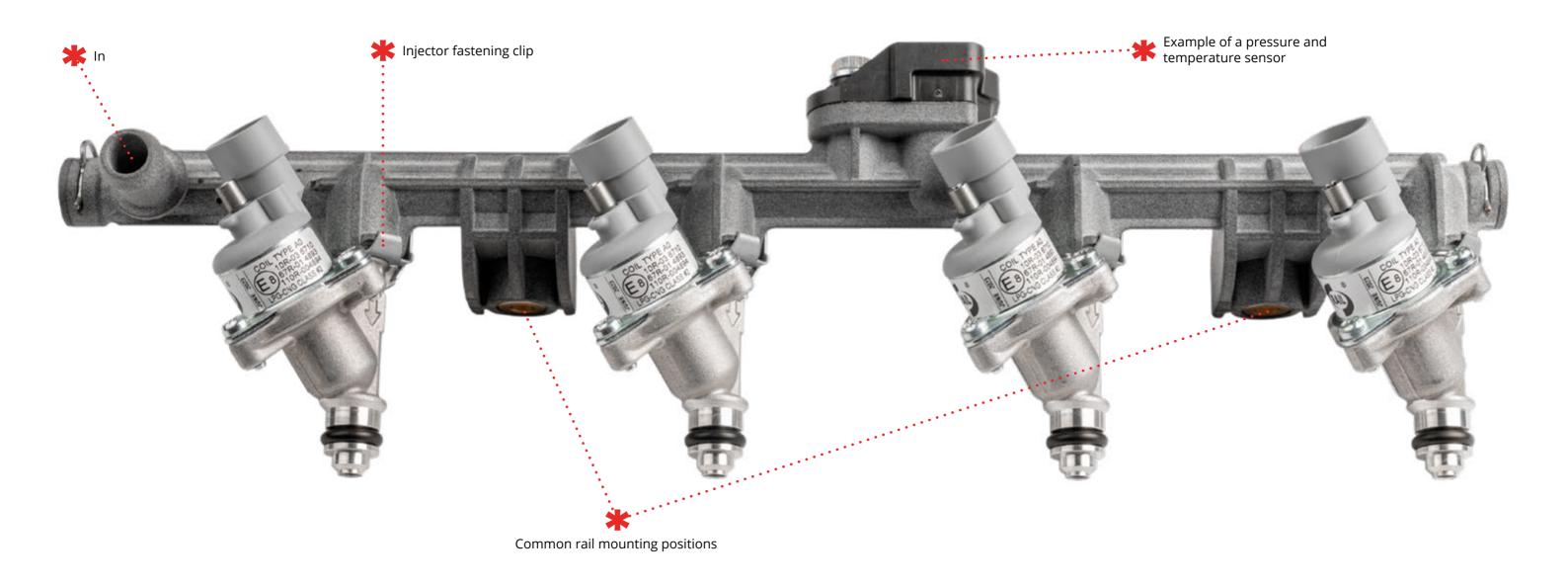
IG4 DAKOTA OEM





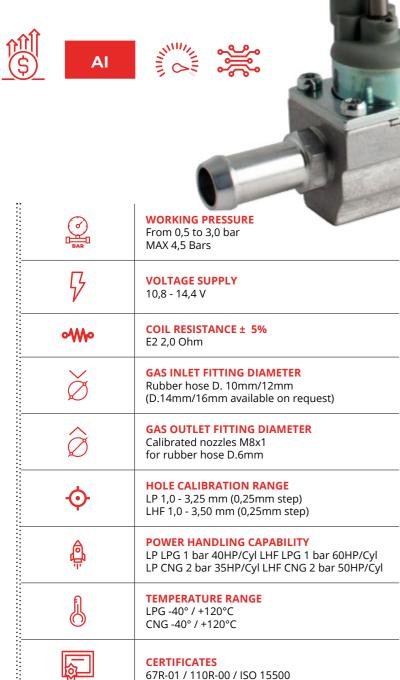


IG4 OEM COMMON RAIL



IF REQUESTED BY THE CUSTOMER, RAIL CAN DEVELOP SPECIFIC SOLUTIONS FOR COMPLETE INJECTOR + COMMON RAIL + SENSOR UNITS

IG7 DAKOTA LP & LHF







Fastening bracket



Sensata pressure and temperature sensor





DATA SHEET



IG6 TAURUS II

Al

IN IG6 Made in Italy IG6 TAURUS I TAURUS I TAURUS I TAURUS II TAURUS

| BAR | WORKING PRESSURE Version at 5,0 and 9,0 Bars |
|-------------|----------------------------------------------------------------------------------------|
| 7 | VOLTAGE SUPPLY 12V e 24V |
| ∘ ₩• | COIL RESISTANCE ± 5% E2 2,0 Ohm / 4,7 Ohm |
| ŏ | GAS INLET FITTING DIAMETER Rubber hose D. 10mm/12mm (D.14mm/16mm available on request) |
| J | TEMPERATURE RANGE LPG -40° / +120°C CNG -40° / +120°C |





Sensata pressure and temperature sensor

12V HP 2Ohm

12V LP 201111

DATA SHEET

Specific injector for converting from Diesel to LPG/CNG in heavy-duty vehicles

IG6 POTOMAC

FeC GALVANIZED STEEL BODY



WORKING PRESSURE
Version at 5,0 and 9,0 Bars

VOLTAGE SUPPLY
12V e 24V

COIL RESISTANCE ± 5%
E5 1,5 Ohm / 4,7 Ohm

TEMPERATURE RANGE
LPG -40° / +120°C
CNG -40° / +120°C



CERTIFICATES 110R-00



MAIN FEATURE
CARTRIDGE INJECTOR FOR USE IN
CONJUNCTION WITH A MIXER



Example of a mixer

Sensata pressure and temperature sensor





DATA SHEET

Specific injector for converting from Diesel to LPG/CNG in heavy-duty vehicles

IG7 DAKOTA HP









| BAR! | WORKING PRESSURE From 0,5 to 7,0 bars MAX 9,0 Bars |
|-------------|----------------------------------------------------------------------------------------|
| 7 | VOLTAGE SUPPLY 12V e 24V |
| ∘ ₩• | COIL RESISTANCE ± 5% E2 2,0 Ohm / 4,7 Ohm |
| ŏ | GAS INLET FITTING DIAMETER Rubber hose D. 10mm/12mm (D.14mm/16mm available on request) |
| ô | GAS OUTLET FITTING DIAMETER Calibrated nozzles M8x1 for rubber hose D.6mm |
| | HOLE CALIBRATION RANGE 1,0 - 2,0 mm (0,25mm step) |
| Å | POWER HANDLING CAPABILITY CNG 7 bar 64HP/Cyl |
| 8 | TEMPERATURE RANGE CNG -40° / +120°C |
| | CERTIFICATES 110R-00 |





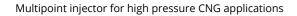
Sensata pressure and temperature sensor



Fastening bracket



DATA SHEET





GREENER LNG

SINGLE STAGE REDUCER FOR LNG APPLICATIONS SEQUENTIAL INJECTION







TEMPERATURE RANGE LNG -40° / +120°C



CERTIFICATES ISO 15500



LNG

Standard version





TYRION CNG

SINGLE STAGE REDUCER FOR LNG APPLICATIONS SEQUENTIAL INJECTION

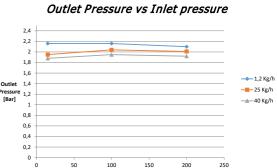


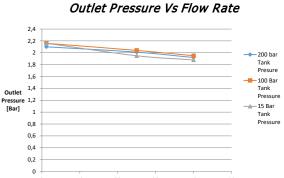


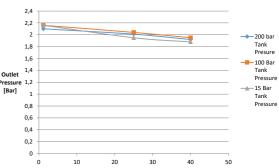




| BAR | WORKING PRESSURE INLET PRESSURE - From 15 to 200 Bars NOMINAL OUTLET PRESSURE - From 2 to 8 Bars |
|----------|--------------------------------------------------------------------------------------------------|
| 9 | VOLTAGE SUPPLY 12 V and 24 V |
| ŏ | GAS INLET FITTING DIAMETER INLET FITTING - M12X1 / 1/4" NPT UPON REQUEST |
| ô | GAS OUTLET FITTING DIAMETER OUTLET FITTING - 14MM |
| A | POWER HANDLING CAPABILITY CNG up to 250 Kw |
| 8 | TEMPERATURE RANGE CNG -40° / +120°C |
| | CERTIFICATES 110R-00 & ISO 15500 |









DATA SHEET

DATA SHEET

FILTER FG3

LPG - CNG FILTER I **GASEOUS PHASE** LOW PRESSURE



| BAR | WORKING PRESSURE Max 4,5 Bars | _ |
|-----|---------------------------------------------------------------|---|
| ŏ | GAS INLET FITTING DIAMETER Rubber hose D. 10mm/12mm/14mm/16mm | |
| Å | TEMPERATURE RANGE LPG -20° / +120°C CNG -20° / +120°C | |



FILTER FG4

LPG - CNG FILTER **GASEOUS PHASE** LOW PRESSURE

| BAR | WORKING PRESSURE Max 4,5 Bars | |
|------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| ŏ | GAS INLET FITTING DIAMETER Rubber hose D. 12mm | - - |
| Å | TEMPERATURE RANGE LPG -40° / +120°C CNG -40° / +120°C | * |
| £Ç; | MAIN FEATURE ACCESSIBLE FOR INSPECTION | |
| £Ç; | MAIN FEATURE VORTEX SYSTEM FOR SEPARATING OIL FROM THE GAS | - 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| ₹ <u>`</u> | MAIN FEATURE HOUSING FOR BOSCH OR CONTINENTAL / SIEMENS SENSORS | - :: :::::::::::::::::::::::::::::::::: |





Spare filter cartridge with O-rings



DATA SHEET

AUS32 APPLICATIONS

FILTERS FOR AUS32 APPLICATIONS



Filter for AUS32 applications

New filter - developed in response to the new, emerging technology for reducing emissions - that uses AUS32, an aqueous solution containing 30% urea which converts the nitrogen oxides into water and harmless nitrogen.

- Flexible installation
- Connections compliant with SAE J2044 regulations
- EPDM seal material

VU1 VALVE

Valve for AUS32 applications

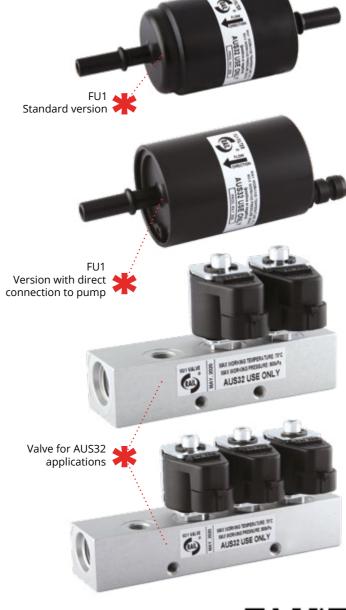
2-Way VU1 solenoid valve block for AUS32 applications, with outputs for sensors. 12 and 24 Volt ratings available

FU4

Filter for AUS32 applications

New filter - developed in response to the new, emerging technology for reducing emissions - that uses AUS32, an aqueous solution containing 30% urea which converts the nitrogen oxides into water and harmless nitrogen.

- Compact size
- Flexible installation
- Connections compliant with SAE J2044 regulations
- EPDM seal material









DATA SHEET

/G6

SOLENOID VALVE FOR LPG APPLICATIONS



Max 3 MPa **VOLTAGE SUPPLY** 12V DC **COIL RESISTANCE ± 5%** 12,3 Ohm **GAS INLET FITTING DIAMETER** M10x1 Female **GAS OUTLET FITTING DIAMETER** M10x1 Female **TEMPERATURE RANGE** LPG -20° / +120°C **CERTIFICATES**

ECE 67R-01

WORKING PRESSURE



Wired cable L=500mm with male connector, AMP Superseal blade receptacle for connecting coils



Fastening bracket



LPG THERMOPLASTIC HOSE

EXTRA ACCESSORIES



POLYAMIDE INNER CORE REINFORCED WITH

SINGLE BRAID IN TEXTILE YARN AND

POLYURETHANE OUTER SHEATHING



Also available in the "KIT" version comprising the following components.

- THERMOPLASTIC HOSE KIT D.6 mm and D.8 mm "straight fitting"

6 meters of D.6 mm or D.8 mm thermoplastic hose 2x D.6 mm or D.8 mm straight fitting 2x D.6 mm or D.8 mm conical ring 2x D.6 mm or D.8 mm nut

- THERMOPLASTIC HOSE KIT D.6 mm and D.8 mm "90° Elbow fitting"

6 meters of D.6 mm or D.8 mm thermoplastic hose 1x D.6 mm or D.8 mm straight fitting 1x D.6 mm or D.8 mm 90° elbow fitting 2x D.6 mm or D.8 mm conical ring 2x D.6 mm or D.8 mm nut



DATA SHEET

ACCESSORIES





Brass calibrated nozzle for IG1, IG1 Apache, IG1 Apache HD, IG2 Metis, IG2 Namur II, IG7 Dakota, IG4 injectors



90° intake manifold nozzle for all types of sequential applications. Improves air and gas mixing efficiency and quality.



Long intake manifold nozzle. Suitable for large intake manifolds and for MAP tapping points





Fitting for D.5 mm/6 mm rubber hoses, for M12x1 MAP tapping point. For IG1, IG1 Apache, IG1 Apache HD and IG7 Dakota injectors



Y branch in thermoplastic resin for D.5 mm/10 mm/12 mm hoses



Wired cable L=500 mm with male connector, AMP Superseal blade receptacle for connecting injector coils



M12x1 gas inlet connector for D.10 mm hose; for IG1, IG1 Apache, IG1 Apache HD and IG7 Dakota injectors



M12x1 adapter for Sensata pressure and temperature sensor; for IG1, IG1 Apache, IG1 Apache HD and IG7 Dakota injectors



M12x1 gas inlet connector for D.12 mm hose; for IG1, IG1 Apache, IG1 Apache HD and IG7 Dakota injectors



M12x1 gas inlet fitting for D.14 mm hoses; for IG1, IG1 Apache, IG1 Apache HD and IG7 Dakota injectors





Fitting for rubber hoses with D.5 mm or D.6 mm internal diameter for injector outlet pressure tapping point. With integrated NTC 4.7 kOhm temperature sensor for IG1, IG1 Apache, IG1 Apache HD and IG7 Dakota injectors



Fitting for rubber hoses with D.5 mm or D.6 mm internal diameter for injector outlet pressure tapping point. With integrated NTC 4.7 kOhm temperature sensor and AMP connector for IG1, IG1 Apache, IG1 Apache HD and IG7 Dakota injectors



Fitting for rubber hoses with D.5 or D.6 mm internal diameter for injector outlet pressure signal tapping point. With integrated NTC 4.7 kOhm temperature sensor and SICMA II connector for IG1, IG1- IG1 Apache HD and IG7 Dakota injectors



M5 NTC 4.7 kOhm temperature sensor with stripped wires for IG1, IG1 Apache, IG1 Apache HD and IG7 Dakota injectors



M5 NTC 4.7 kOhm temperature sensor with AMP connector for IG1, IG1 Apache, IG1 Apache HD and IG7 Dakota injectors



M5 NTC 4.7 kOhm temperature sensor with SICMA II connector for IG1, IG1 Apache, IG1 Apache HD and IG7 Dakota connectors



Sensata AMP Micro temperature and pressure sensor



AMP wired cable L=230 mm for Sensata sensor

ACCESSORIES





Fixing bracket

REPAIR KIT



Replacement kit for IG1 Old, IG1 Apache, IG1 Apache HD, IG2 Namur II and IG2 Metis 4 cylinder injectors comprising 4x complete mobile plungers, 4x springs and 4x O-ring sleeves.



Replacement kit for IG4, IG6, IG7 Dakota 1-cylinder injectors comprising 1x complete mobile plunger, 1x spring, 1x coil disk and 1x plastic bushing



Spare filter cartridge with O-rings for FG4 filters





Manifolds to use with IG2 Metis, IG2 Namur II and IG4 Dakota A.M. single injectors 12 mm diameter available.

ON SEAT CALIBRATOR



Hand tool for measuring injector stroke; for IG1, IG1 Apache, IG1 Apache HD, IG2 Namur II, IG2 Metis and IG7 Dakota injectors.











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