




RAIL INJECTORS

DESIGNED    IN ITALY
& MANUFACTURED

> INJECTOR RAIL FOR LPG AND CNG SEQUENTIAL SYSTEMS

> LPG/CNG

RAIL INJECTORS Model IT01 Plus

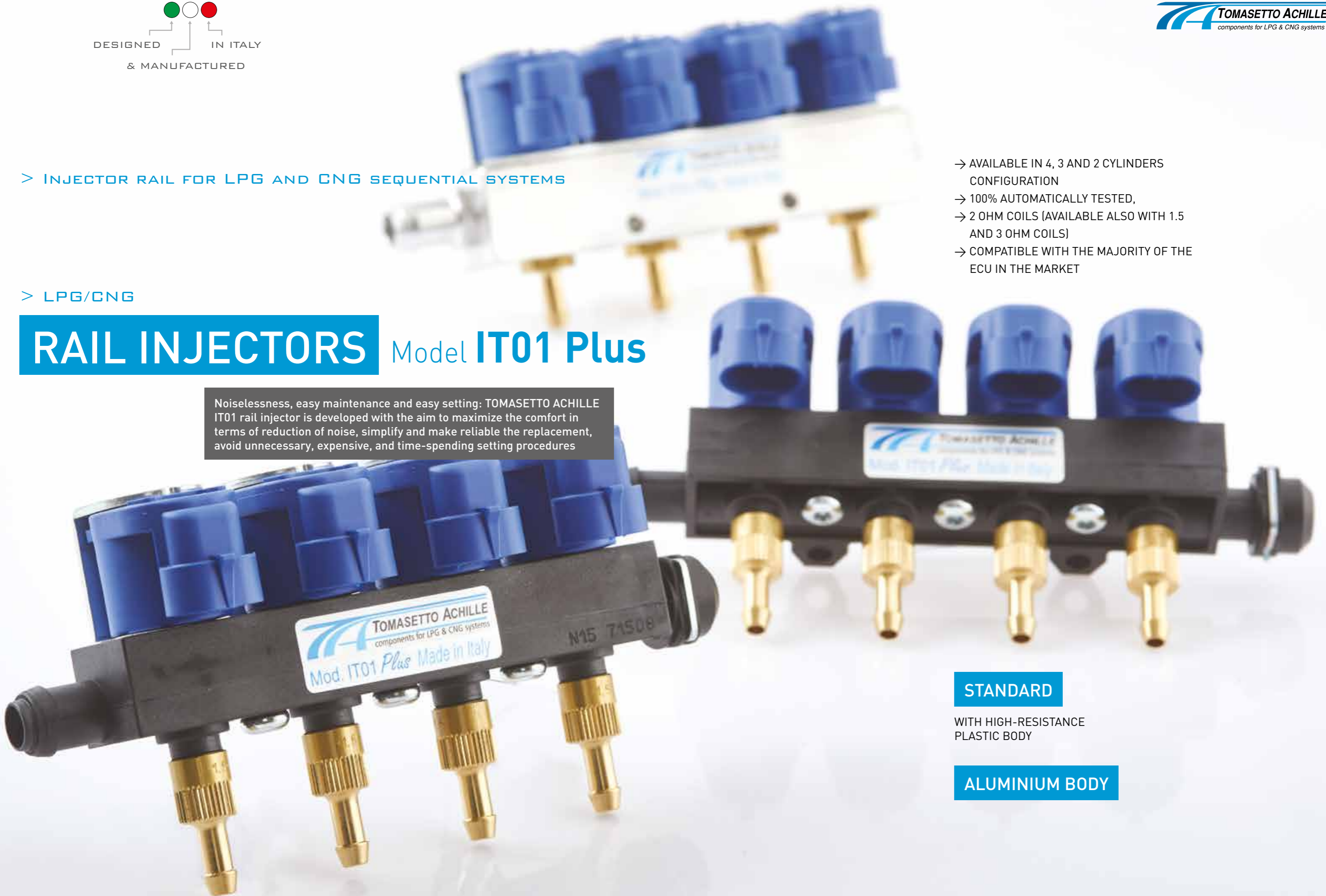
Noiselessness, easy maintenance and easy setting: TOMASETTO ACHILLE IT01 rail injector is developed with the aim to maximize the comfort in terms of reduction of noise, simplify and make reliable the replacement, avoid unnecessary, expensive, and time-spending setting procedures

- AVAILABLE IN 4, 3 AND 2 CYLINDERS CONFIGURATION
- 100% AUTOMATICALLY TESTED,
- 2 OHM COILS (AVAILABLE ALSO WITH 1.5 AND 3 OHM COILS)
- COMPATIBLE WITH THE MAJORITY OF THE ECU IN THE MARKET

STANDARD

WITH HIGH-RESISTANCE PLASTIC BODY

ALUMINIUM BODY





> LPG/CNG RAIL INJECTOR

Model **IT01 Plus** Standard

MAIN FEATURES

- With high-resistance plastic body
- Noiseless
- Easy installation
- Easy maintenance (no setting)

→ LPG/CNG RAIL INJECTOR FOR 4 CYLINDER VEHICLES



→ LPG/CNG RAIL INJECTOR FOR 3 CYLINDER VEHICLES



→ LPG/CNG RAIL INJECTOR FOR 2 CYLINDER VEHICLES

> LPG/CNG RAIL INJECTOR

Model **IT01 Plus** Aluminium Body

MAIN FEATURES

- Noiseless
- Easy installation
- Easy maintenance (no setting)



→ LPG/CNG RAIL INJECTOR FOR 4 CYLINDER VEHICLES



CALIBRATED NOZZLES AS A FUNCTION OF THE ENGINE SIZE

Suggested nozzle size [mm]	Specific power LPG [kW/cylinder]	Specific power CNG [kW/cylinder]
1,25 ÷ 1,75	12	8,5
1,75 ÷ 2	15	10,5
2 ÷ 2,25	17	12
2,25 ÷ 2,5	25	17,5
2,5 ÷ 2,75	32	22
2,75 ÷ 3	41	29
3	48	33

→ the power of the single cylinder is obtained as a function of the engine power and the number of cylinders;
 → the injection times depend on the electronic system (ECU) and on the injection pressure;
 → the indicated values are only a general indication

2 OHM



1,5 OHM



3 OHM



TECHNICAL DATA

	2 OHM	1.5 OHM	3 OHM
Working pressure	From 0.5 to 2.5 bar gauge	From 0.5 to 2.5 bar gauge	From 0.5 to 2.5 bar gauge
Max pressure	7 bar gauge	7 bar gauge	7 bar gauge
Power supply	12÷14 V	12÷14 V	12÷14 V
Coil resistance	2 ± 5% Ω@20°C	1,5 ± 5% Ω@20°C	3 ± 5% Ω@20°C
Driver	Peak and hold [PWM]	Peak and hold [PWM]	Peak e Hold [PWM]
Peak current	6A	6A	4A
Hold current*	1.1 A (PWM 10 kHz@DC20%)	1.1 A (PWM 10 kHz@DC20%)	1.1 A (PWM 10 kHz@DC20%)
Complete opening time*	2.8 ms@12V	2.4 ms@12V	3.1 ms@12V
Closing time*	2.4 ms [PWM 10kHz@DC20%]	2.4 ms [PWM 10kHz@DC20%]	2.4 ms [PWM 10kHz@DC20%]
Peak current time*	3.5 ms@12V	3.1 ms@12V	3.8 ms@12V
Minimum injection pulse*	3.2 ms@12V	2.7 ms@12V	3.3 ms@12V
Suggested min. injection time at idle condition	3.5 ms@12 V	3.1 ms@12 V	3.6 ms@12 V
Static flow rate @ 1 bar (for each injector)	115 NI/min in air	115 NI/min in air	115 NI/min in air
Static flow rate @ 2 bar (for each injector)	170 NI/min in air	170 NI/min in air	170 NI/min in air
Body material	PPS + 40% GF	PPS + 40% GF	PPS + 40% GF
Calibrated nozzle material	Brass	Brass	Brass
Electrical connector type	AMP superseal 150	AMP superseal 150	AMP superseal 150
Operating Temperature range	-20/+120 °C	-20/+120 °C	-20/+120 °C
Inlet gas fitting	Rubber hose d.12 mm	Rubber hose d.12 mm	Rubber hose d.12 mm
Outlet gas fitting	Rubber hose d.6 mm	Rubber hose d.6 mm	Rubber hose d.6 mm

* values depending on the electric response time of the ECU driver

HOMOLOGATIONS

110R-006539 10R-036413
 67R-016538



ACCESSORIES



IR2018

IT01 rail injector maintenance kit (4 cyl.)



- IR2021** 1.25 mm
- IR2022** 1.50 mm
- IR2023** 1.75 mm
- IR2024** 2.00 mm
- IR2025** 2.25 mm
- IR2026** 2.50 mm
- IR2027** 2.75 mm
- IR2028** 3.00 mm

IT01 calibrated nozzles kit (4pcs)



IR2006

IT01 NTC 4,7 kOhm-MAP inlet cap Kit



IR2008

IT01 standard inlet cap Kit



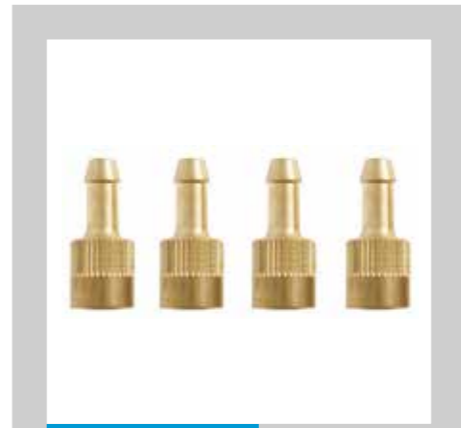
IR2009

IT01 MAP inlet cap Kit



IR2056

IT01 Plus rail inj. maintenance kit - light (4 cyl.)



IR2059

IT01 1.50 mm integral nozzles kit (4pcs)
Other ø upon request



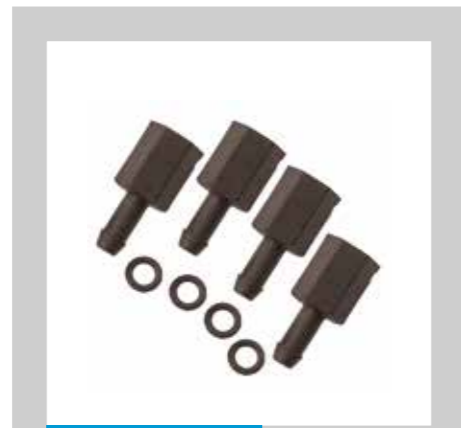
IR3040

Plastic "Y" fitting d.12



IR2012

IT01 manifold nozzles kit (4pcs)



IR2014

IT01 plastic outlet nozzles kit (4pcs)



IR2015

IT01 rail injector fixing kit



IR3045

Coil 12V 2 Ohm AMP blue



IR3087

Coil 12V 1,5 Ohm AMP green



IR3020

Coil 12V 3 Ohm AMP black

DESIGNED & MANUFACTURED IN ITALY





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