

LPG REDUCERS

- ACCURATE CNC MACHINING
- HI-TECH ASSEMBLY PROCESSES
- 100% TESTED & CALIBRATED

LPG REDUCERS

Tomasetto Achille designs and manufactures pressure reducers for LPG automotive systems, both sequential and traditional, calibrated for different engines and suitable for different climatic conditions

Model **AT09**

FOR SEQUENTIAL INJECTION SYSTEMS WITH INTEGRATED INLET FILTER

STANDARD

ALASKA

ALASKA SUPER

ARTIC

Model **AT13**

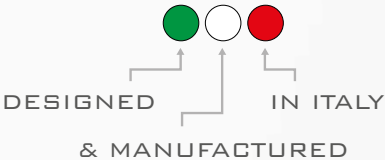
FOR SEQUENTIAL INJECTION SYSTEMS WITH HIGH PERFORMANCES

Model **AT07**

FOR TRADITIONAL SYSTEMS WITH INTEGRATED INLET FILTER

Model **AT10**

FOR 2-WHEELERS AND LITTLE VEHICLES (TRADITIONAL APPLICATIONS)





> LPG REDUCERS

Model **AT09**

FOR SEQUENTIAL INJECTION SYSTEMS
WITH INTEGRATED INLET FILTER

MAIN FEATURES

- single stage pressure reduction
- integrated solenoid valve and filter at the inlet
- adjustable outlet pressure
- compact design
- 4 different versions

AUTOMATICALLY ASSEMBLED AND 100% CALIBRATED AND TESTED,
ON PALLET-TRANSFER SYSTEMS



AT09 STANDARD

Basic version without additional heating stage;
suitable for small engines (up to about 60 KW)
and hot climatic conditions.



Most popular version of AT09 family;
equipped with additional post-heating
stage suitable for medium-sized
engines (up to about 90 KW).

AT09 ALASKA





AT09 ALASKA SUPER

new version with bigger internal passages and piloted solenoid valve; higher flow and power range up to about 100 kW.



equipped with additional pre-heating stage at the inlet; suitable for cold weather conditions, and for medium sized engines (up to about 110 KW).

AT09 ARTIC



TECHNICAL DATA

	STANDARD	ALASKA	SUPER	ARTIC
Type of product	LPG sequential reducer	LPG sequential reducer	LPG sequential reducer	LPG sequential reducer
Material	Die cast aluminium body	Die cast aluminium body	Die cast aluminium body	Die cast aluminium body
Weight	1.25 kg	1.55 kg	1.55 kg	1.30 kg
Dimensions (mm)	120x125x90 mm	120x125x105 mm	120x125x105 mm	120x125x105 mm
Max inlet pressure	3 MPa (30 bar)	3 MPa (30 bar)	3 MPa (30 bar)	3 MPa (30 bar)
Outlet pressure *	adjustable from 90 to 180 kPa	adjustable from 90 to 180 kPa	adjustable from 90 to 180 kPa	adjustable from 90 to 180 kPa
Coil voltage	12 V DC	12 V DC	12 V DC	12 V DC
Coil power	11 W	17 W	17 W	17 W
Coil connection	Fast-on (amp on request)	Fast-on (amp on request)	Fast-on (amp on request)	Fast-on (amp on request)
Inlet Connection	M10x1 pipe ø 6 mm	M10x1 pipe ø 6 mm	M10x1 pipe ø 6 mm	M12x1 pipe ø 8 mm
Outlet connection	Fixed fitting ø 12 mm	Fixed fitting ø 12 mm	Fixed fitting ø 12 mm	Fixed fitting ø 12,5 mm
Engine power **	up to 60 kW	up to 90 kW	up to 100 kW	up to 110 kW
LPG Flow rate ***	up to 15 kg/h	up to 25 kg/h	up to 28 kg/h	up to 35 kg/h
Working temperature	-20° C/+120° C	-20° C/+120° C	-20° C/+120° C	-20° C/+120° C
* referred to the MAP				
** with T→-10 °C; lower temperatures decrease reducer's efficiency; in case of permanently higher temperatures, the reducer can be used also on more powerful engines				
*** variable according to the features of the sequential injection system				

HOMOLOGATIONS

Ⓔ 67R-014066

Ⓔ 10R-036564



> LPG REDUCERS

Model **AT13**

FOR SEQUENTIAL INJECTION SYSTEMS
WITH HIGH PERFORMANCES

MAIN FEATURES

- single stage pressure reduction
- big flow rate with very stable outlet pressure
- integrated solenoid valve and filter at the inlet
- adjustable outlet pressure
- compact design
- Super version with additional heating stage

TECHNICAL DATA

AT13 ANTARTIC SUPER	
Type of product	LPG sequential reducer
Material	Die-cast aluminium body
Weight	1.50 kg
Dimensions (mm)	120x160x115 mm
Max inlet pressure	3 MPa (30 bar)
Outlet pressure *	from 100 to 250 kPa
Coil voltage	12 V DC
Coil power	17 W
Coil connection	Fast-on (amp on request)
Inlet connection	M12x1 pipe Ø 8 mm
Outlet connection	Fixed fitting Ø 13.5 mm
Engine power **	up to 250 kW
LPG flow rate ***	up to 62 kg/h
Working temperature	-20° C/+120° C
* referred to the MAP	
** with T→ -10 °C; lower temperatures could decrease reducer's efficiency in case of permanently higher temperatures, reducer can be used also on more powerful engines	
*** variable according to the features of the sequential injection system	



HOMOLOGATIONS

Ⓔ 67R-016031 Ⓔ 10R-036564



> LPG REDUCERS

Model AT07

FOR TRADITIONAL SYSTEMS WITH
INTEGRATED INLET FILTER

MAIN FEATURES

- two stages electronic reducer for traditional carbureted systems
- integrated solenoid valve and filter at the inlet
- double regulation system (idle & sensitivity)
- configuration with pressure compensation upon request



TECHNICAL DATA

	100 HP	140 HP	SUPER
Type of product	LPG traditional reducer	LPG traditional reducer	LPG traditional reducer
Material	Die cast aluminium body	Die cast aluminium body	Die cast aluminium body
Weight	1.50 kg	1.50 kg	1.50 kg
Dimensions (mm)	150x160x110 mm	150x160x110 mm	150x160x110 mm
Max inlet pressure	3 Mpa (30 bar)	3 Mpa (30 bar)	3 Mpa (30 bar)
Outlet pressure	depending on the mixer	depending on the mixer	depending on the mixer
Coil voltage	12 V DC	12 V DC	12 V DC
Coil power	11 W	11 W	11 W
Coil connection	Fast-on	Fast-on	Fast-on
Inlet connection	M10x1 pipe Ø 6 mm	M10x1 pipe Ø 6 mm	M10x1 pipe Ø 6 mm
Outlet connection	fixed fitting Ø 20 mm	fixed fitting Ø 20 mm	fixed fitting Ø 20 mm
Engine power *	up to 75 kW	up to 105 kW	up to 140 kW
LPG flow rate	22 kg/h	30 kg/h	up to 40 kg/h
Working temperature	-20° C/+120° C	-20° C/+120° C	-20° C/+120° C

* with temperature T→-10 °C; lower T decrease reducer's efficiency; in case of permanently higher T, the reducer can be used also on more powerful engines

HOMOLOGATIONS

Ⓔ 67R-013824 Ⓔ 10R-036564



> LPG REDUCERS

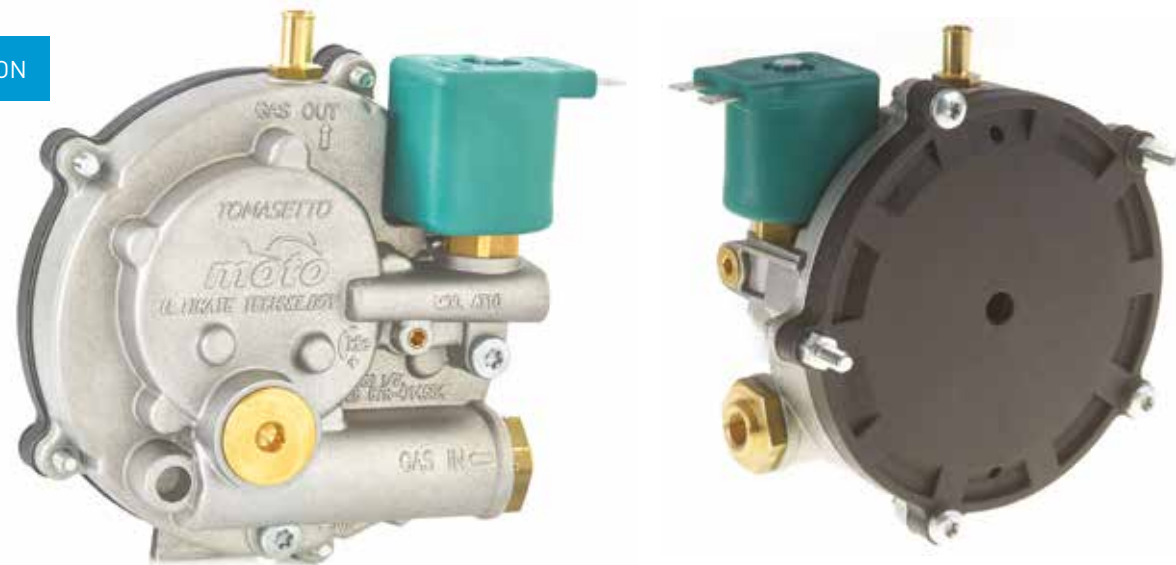
Model AT10

FOR 2-WHEELERS AND LITTLE VEHICLES (TRADITIONAL APPLICATIONS)

MAIN FEATURES

- 2 stages reducer for carbureted systems
- suitable only for systems with vapour LPG withdrawal
- integrated solenoid valve at the inlet
- version with pressure switch (no solenoid), available upon request

ELECTRONIC VERSION



VERSION WITH PRESSURE SWITCH



TECHNICAL DATA

	AT10 ELECTRONIC	AT10 WITH PRESSURE SWITCH
Type of product	LPG reducer for small motorbikes and 3-wheelers in vapour phase	LPG reducer for small engines
Material	Die-cast aluminium body	Die-cast aluminium body
Weight	0.65 kg	0.65 kg
Dimensions	130x120x60 mm	130x120x60 mm
Max inlet pressure	3 MPa (30 bar)	3 MPa (30 bar)
Outlet pressure	depending on the mixer	depending on the mixer
Coil voltage	12 V DC	no coil
Coil power	3 W	/
Coil connection	Fast-on (amp upon request)	Fast-on (amp upon request)
Inlet connection	M10x1 pipe Ø 6 mm	M10x1 pipe Ø 6 mm
Outlet connection	Fixed fitting d.8 mm	Fixed fitting d.8 mm
Engine power *	up to 15 kW	up to 15 kW
LPG flow rate	4 kg/h	4 kg/h
Working temperature	-20 °C / +120 °C	-20 °C / +120 °C
* with T→-10 °C; lower temperatures decrease reducer's efficiency; in case of permanently higher temperatures, the reducer can be used also on more powerful engines		

HOMOLOGATIONS

Ⓔ8 67R-014684 Ⓔ8 10R-036564

Maintenance kits



RGAT2060

Maintenance kit for red. AT07



RGAT2060A

Maintenance kit for red. AT07 with water gasket



RGAT2060.1

Maintenance kit for red. AT07 without filter & cover



RGAT2080

Maintenance kit for red. AT09 Standard



RGAT2090

Maintenance kit for red. AT09 Alaska & Alaska Super



RGAT2090.1

Maintenance kit for red. AT09 Alaska & Alaska Super without filter and cover



RGAT2091

Maintenance kit for red. AT09 ARTIC



RGAT2095

Maintenance kit for red. AT10



RGAT2099

Maintenance kit for red. AT13 ANTARTIC (Standard & Super)

LPG ACCESSORIES

DESIGNED & MANUFACTURED IN ITALY

Others

TOMASETTO ACHILLE
components for LPG & CNG systems



RGAT2070

LPG reducer filter kit



RGAT2098

AT07-AT09 Standard-Alaska solenoid valve maintenance kit



RGAT1550-C

Alaska Super-Artic-Antartic solenoid valve maintenance kit



RGAT1502

LPG reducer swivel water union with O-ring



MVAT3578

Coil 12V 11W black FASTON






MVAT3579

Coil 12V 11W black AMP



LPG ACCESSORIES

DESIGNED    IN ITALY
& MANUFACTURED

Others

Others



MVAT3751

Coil 24V 11W grey FASTON



MVAT3752

Coil 12V 17W blue FASTON



MVAT3755

Coil 12V 17W blue AMP



MV3216

Zinc-plated fitting d.6



MVAT3705

Zinc-plated fitting M12x1 d.8



MVAT2056

MV adapter Kit for 8mm tube



MV3215

Double conical joint d.8



MV3217

Double conical joint d.6

> SOLENOID VALVES

Model **EVG01**

LPG CUT-OFF VALVE

MAIN FEATURES

- brass body
- high-efficiency internal filter
- inlet and outlet connections M10x1 for 6 mm pipes

TECHNICAL DATA

Material	Hot forged brass
Weight	0.5 kg
Working temperature	-20 °C / +120 °C
Coil voltage	12 V DC
Coil power	11 W
Coil connection	Faston *

* AMP superseal upon request

Maintenance kit code **EGAT2050**



> SOLENOID VALVES

Model **EB01**

GASOLINE CUT-OFF VALVE

MAIN FEATURES

- cut-off solenoid valve for gasoline line
- brass body
- connection both for 6 mm and 8 mm pipes
- provided with manual valve

TECHNICAL DATA

Material	Hot forged brass
Weight	0.2 kg
Working temperature	-20 °C / +120 °C
Coil voltage	12 V DC
Coil power	11 W
Coil connection	Faston
Manual tap	yes
Petrol pipe connection (inlet/outlet)	with 6mm and 8mm pipe



HOMOLOGATIONS

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TOMASETTO ACHILLE
components for LPG & CNG systems



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