




**CNG REDUCERS**

DESIGNED    IN ITALY  
& MANUFACTURED

> PRESSURE REDUCERS FOR CNG AUTOMOTIVE SYSTEMS

# CNG REDUCERS

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

Model **AT12** REDUCER FOR SEQUENTIAL INJECTION SYSTEMS

STANDARD

SUPER

SPECIAL

LNG

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

Model **AT04**

ELECTRONIC REDUCER FOR TRADITIONAL CNG SYSTEMS





> CNG REDUCERS

Model **AT12**

FOR CNG SEQUENTIAL INJECTION SYSTEMS

MAIN FEATURES

- 2 stages pressure reducer
- adjustable outlet pressure
- compact design
- also available for LNG systems

**AT12 STANDARD**

EQUIPPED WITH LOW PRESSURE SOLENOID VALVE



**AT12 SUPER**

EQUIPPED WITH INTEGRATED HIGH PRESSURE SOLENOID VALVE AT THE INLET, ALLOWS HIGHER PERFORMANCES





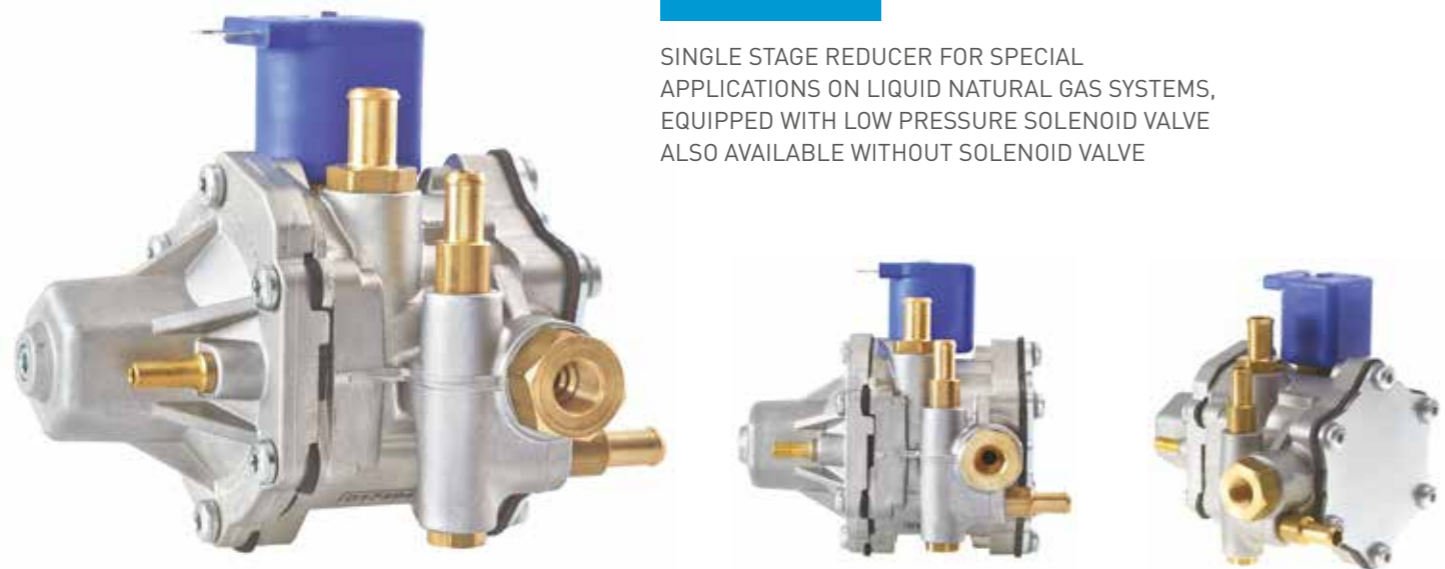
## AT12 SPECIAL

LIKE STANDARD VERSION BUT WITHOUT SOLENOID VALVE  
(TO BE USED WITH IN-LINE CUT-OFF VALVE)



## AT12 LNG

SINGLE STAGE REDUCER FOR SPECIAL APPLICATIONS ON LIQUID NATURAL GAS SYSTEMS, EQUIPPED WITH LOW PRESSURE SOLENOID VALVE ALSO AVAILABLE WITHOUT SOLENOID VALVE



## TECHNICAL DATA

	STANDARD	SUPER	SPECIAL	LNG
Type of product	CNG sequential reducer	CNG sequential reducer	CNG sequential reducer	LNG sequential reducer
Material	Die cast aluminium body	Die cast aluminium body	Die cast aluminium body	Die cast aluminium body
Weight	1.45 kg	1.65 kg	1.30 kg	1.10 kg
Dimensions (mm)	120x145x155 mm	110x155x150 mm	110x155x145 mm	110x135x130 mm
Max inlet pressure	26 MPa (260 bar)	26 MPa (260 bar)	26 MPa (260 bar)	0,80 MPa (8 bar)
1st stage pressure	0.60 Mpa (6 bar)	0,60 Mpa (6 bar)	0,60 Mpa (6 bar)	
Outlet pressure *	adjustable from 120 to 250 kPa	adjustable from 120 to 250 kPa	adjustable from 120 to 250 kPa	adjustable from 120 to 250 kPa
Coil voltage	12 V DC**	12 V DC	--	12 V DC
Coil power	17 W	15 W	--	17 W
Coil connection	Fast-on (amp upon request)	Amp Minitimer	--	Fast-on (amp upon request)
Inlet Connection	M12x1 pipe ø 6 mm	M12x1 pipe ø 6 mm	M12x1 pipe ø 6 mm	M12x1 pipe ø 8 mm or 1/4NPT (upon request)
Outlet connection	Fixed fitting Ø 13,5 mm ***	Fixed fitting Ø 13,5 mm ***	Fixed fitting Ø 13,5 mm ***	Fixed fitting Ø 13,5 mm ***
Engine power ****	up to 125 kW	up to 250 kW	up to 250 kW	up to 125 kW w/solen.valve (up to 250 without)
CNG Flow rate (CH4)*****	35 kg/h	70 kg/h	70 kg/h	35 kg/h with solenoid valve (70 kg/h without)
Working temperature	-40° C/+120° C	-40° C/+120° C	-40° C/+120° C	-40° C/+120° C

\* referred to the MAP  
 \*\* upon request 24 V DC  
 \*\*\* upon request ø10.5 mm or ø12.5 mm  
 \*\*\*\* 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

110R-015200   
 10R-036564   
 ISO15500  
 10R-030582 (Super version)



## > CNG REDUCERS

### Model **AT04**

FOR TRADITIONAL CNG SYSTEMS

#### MAIN FEATURES

- 3 stages pressure reducer
- double regulation system (idle & sensitivity)
- adjustable inlet fitting provided with connection for pressure manometer
- 3 versions available

#### TECHNICAL DATA

	100 HP	140 HP	SUPER
Type of product	CNG traditional reducer	CNG traditional reducer	CNG traditional reducer
Material	Die cast aluminium body	Die cast aluminium body	Die cast aluminium body
Weight	1.85 kg	1.85 kg	1.85 kg
Dimensions (mm)	155x190x110 mm	155x190x110 mm	155x190x110 mm
Max inlet pressure	26 MPa (260 bar)	26 MPa (260 bar)	26 MPa (260 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	17 W	17 W	17 W
Coil connection	Fast-on (AMP on request)	Fast-on (AMP on request)	Fast-on (AMP on request)
Inlet Connection	M12x1 pipe ø 6 mm	M12x1 pipe ø 6 mm	M12x1 pipe ø 6 mm
Outlet connection	Swivel fitting ø 19 mm	Swivel fitting ø 19 mm	Swivel fitting ø 19 mm
Engine power *	up to 75 kW	up to 105 kW	up to 140 kW
CNG flow rate	22 kg/h	30 kg/h	up to 40 kg/h
Working temperature	-40° C/+120° C	-40° C/+120° C	-40° 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

Ⓔ 110R-013480 Ⓔ 10R-036564





DESIGNED & MANUFACTURED IN ITALY

# CNG ACCESSORIES

**TOMASETTO ACHILLE**  
components for LPG & CNG systems

Others

Maintenance kit for CNG reducers



**RMAT2160**

Maintenance kit for reducer AT04



**RMAT2170**

Maintenance kit for reducer AT12



**RMAT2190**

Maintenance kit for reducer AT12 LNG



**RMAT2173**

CNG reducer filter kit



**RM4072-C**

AT04 (v.2014) solenoid valve maintenance kit



**RMAT2171**

AT12 Standard solenoid valve maintenance kit



**RMAT2172**

AT12 Super cut-off valve maintenance kit



**EM14010**

Zinc-plated fitting v.M12x1



**RMAT3012**

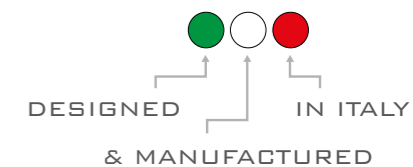
Zinc-plated double conical joint 06



# CNG ACCESSORIES

Others

Others



**MVAT3752**

Coil 12V 17W blue FASTON



**MVAT3755**

Coil 12V 17W blue AMP



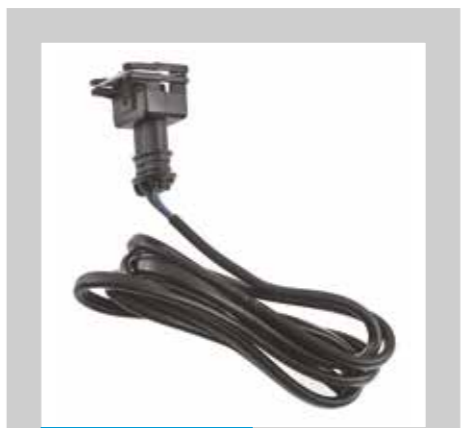
**VM4521**

Coil 12V 15W black AMP Minitimer (AT12 super)



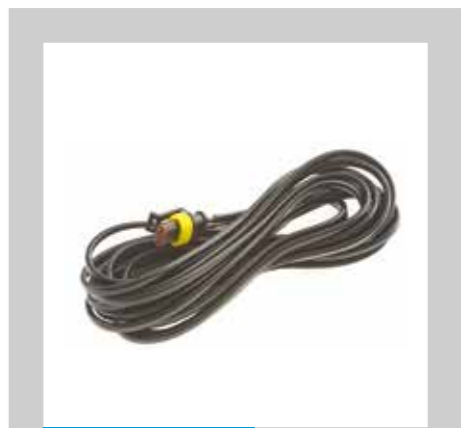
**AEB806**

CNG automotive pressure gauge  
Mod. AEB 0-400 bar



**VM4553**

AMP Minitimer wire mt. 1



**MVAT3283**

AMP Superseal wire mt. 1



**VM4520**

Coil 12V 15W black AMP Superseal (AT12 super)



**VM4543**

Coil 24V 15W AMP Minitimer (AT12 super)



**VM4537**

Coil 24V 15W blue AMP Superseal (AT12 super)

> SOLENOID VALVES

# VM05 cut-off

CNG HIGH PRESSURE CUT-OFF VALVE

## MAIN FEATURES

- high pressure solenoid valve
- brass body
- comply with the ISO15500 standards



## TECHNICAL DATA

	STANDARD	EXTRA
Material	Hot forged brass	Hot forged brass
Weight	0.5 kg	0.5 kg
Max inlet pressure	26 MPa	26 MPa
Working temperature	-40°C/+120°C	-40°C/+120°C
Solenoid voltage	12 V DC *	12 V DC *
Power dissipation	15 W	15 W
Coil connection	Amp Minitimer	Amp Minitimer
Internal connection	M12x1 pipe Ø 6 mm	M14x1 pipe Ø 8 mm
External connection	1/2 G	1/2 G

\* 24 V DC upon request

Filter Kit code **VM1035**  
Maintenance kit code **RMAT2172**



> 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

E24 110R-000030

E24 10R-030582

ISO15500





**TOMASETTO ACHILLE SPA**

Via del Progresso, 47/53  
Castegnero (Vicenza) Italy  
Ph +39 0444 638326  
Fax +39 0444 639367  
info@tomasetto.com

**Tomasetto Achille India Pvt Ltd.**

B-11, Gala No. 5 & 6, Pritesh Complex,  
Anjur Phata Dapoda Road, 421302 Val Village,  
Bhiwandi, Thane - Maharashtra - India  
Ph. 0091 9272222501  
info@tomasettoindia.com  
www.tomasettoindia.com

**Tecnofabrica S.r.l**

Rutherford 4749 Grand Bourg  
1615 Tortuguitas  
Malvinas Argentinas  
Ph. 0054 11 21502540  
info@tecnofabrica.com  
www.tecnofabrica.com