



GRAND-DUCHÉ DE LUXEMBOURG

Ministère du Développement durable
et des Infrastructures
Département des Transports

L-2938 Luxembourg

SOCIÉTÉ NATIONALE DE
CERTIFICATION ET D'HOMOLOGATION

s.à r.l.

Registre de Commerce: B 27180



L-5201 Sandweiler

Référence: E13*67R00*67R01*0223*04

Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Sandweiler, le 04 avril 2014

Communication concernant ¹⁾:

Communication concerning ¹⁾:



- **la délivrance d'une homologation**
approval granted
- **l'extension d'homologation**
approval extended
- **le refus d'homologation**
approval refused
- **le retrait d'homologation**
approval withdrawn
- **l'arrêt définitif de la production**
production definitely discontinued

d'un type d'équipement GPL en application du Règlement N° 67
of a type of LPG equipment pursuant to regulation N° 67


Numéro d'homologation:

Approval number:

E13*67R00*67R01*0223*04

Marque d'homologation:

Approval mark:

 67R-010223 CLASS 2

1. Equipement GPL ¹⁾:
LPG equipment considered ¹⁾:

Réservoir:

Container:

not applicable

Accessoires fixés au réservoir:

Accessories fitted to the container:

- 80 % stop valve
- level indicator
- pressure relief valve (discharge valve)
- pressure relief device
- remotely controlled service valve with excess flow valve

Bloc multivannes, y compris les accessoires suivants:

Multivalve, including the following accessories:

- ~~gas tight housing~~
- ~~power supply bushing (pump/actuators)~~
- ~~fuel pump~~
- ~~vaporizer/pressure regulator~~
- ~~shut-off valve~~
- ~~non return valve~~
- ~~gas tube pressure relief valve~~
- ~~service coupling~~
- ~~flexible hose~~
- ~~remote filling unit~~
- **gas injection device or injector**
- ~~fuel rail~~
- ~~gas dosage unit~~
- ~~gas mixing piece~~
- ~~electronic control unit~~
- ~~pressure/temperature sensor~~
- ~~LPG filter unit~~
- ~~multi component~~

2. Marque de fabrique ou de commerce:

Trade name or mark:

BRC, BRC Gas Equipment, MTM, TA, KitMTM, IMPCO AUTOMOTIVE, IMPCO Technologies, IMPCO, ZAVOLI, GFI, FSS

Type:

Type:

Type: **IN03**

Versions:

Versions:

Versions: *IN 03, MY 07, MY 09, MY 09 R, MY 11, GP 13*

3. Nom et adresse du fabricant:

Manufacturer's name and address:

M.T.M. s.r.l.
Via La Morra, 1
I-12062 Cherasco (CN)

4. Le cas échéant, nom et adresse du mandataire du fabricant:

If applicable, name and address of manufacturer's representative:

not applicable

5. Equipement présenté à l'homologation le:

Submitted for approval on:

13.12.2013 – 14.03.2014

6. Autorité déléguée:

Assigned authority:

*Société Nationale de Certification et d'Homologation
L-5201 Sandweiler*

Service technique chargé des essais d'homologation:

Technical service responsible for conducting approval tests:

Luxcontrol SA
B.P. 349
L-4004 Esch-sur-Alzette

7. Date du procès-verbal délivré par ce service:

Date of report issued by that service:

28.03.2014

8. Numéro du procès-verbal:

Number of report issued by that service:

LCA 54 0280 003 14

9. L'homologation est:

Approval:

extended

10. Raisons de l'extension (éventuellement):

Reason(s) for extension (if applicable):

see: Annex A of technical report N° LCA 54 0280 003 14

11. **Lieu:**
Place: Sandweiler
12. **Date:**
Date: 04 avril 2014
13. **Signature:**
Signature:

Pour le Département des Transports



Marco FELTES
Inspecteur Principal 1^{er} en rang

Pour la SNCH



Claude LIESCH
Directeur



14. **Des copies soumis dans le dossier d'homologation ou d'extension de l'homologation peuvent être obtenues sur demande.**
The documents filed with the application or extension of approval can be obtained upon request.

see: INDEX to TYPE-APPROVAL REPORT

APPENDICE 1 (réservoirs uniquement)
APPENDIX 1 (containers only)

1. Caractéristiques du réservoir de base (config. 00)
Container characteristics from the parent container (configuration 00)

- a) Marque de fabrique ou de commerce:**
a) Trade name or mark: not applicable
- b) Forme:**
b) Shape: not applicable
- c) Matériau:**
c) Material: not applicable
- d) Ouvertures:**
d) Openings: not applicable
- e) Epaisseur de la paroi:**
e) Wall thickness: not applicable
- f) Diamètre (réservoir cylindrique):**
f) Diameter (cylindrical container): not applicable
- g) Hauteur (forme de réservoir spéciale):**
g) Height (special container shape): not applicable
- h) Surface externe:**
h) External surface: not applicable
- i) Configuration des accessoires fixés au réservoir (voir tableau 1):**
i) Configuration of accessories fitted to container (see table 1):

Tableau 1:
Table 1:

N° N°	Accessoires Item	Type Type	N° d'homologation Approval N°	N° d'extension Extension N°
a)	Limiteur de remplissage à 80%: 80% stop valve:	-	-	-
b)	Jauge: Level indicator:	-	-	-
c)	Soupape de surpression: Pressure relieve valve:	-	-	-
d)	Vanne d'isolement avec limiteur de débit: Remotely controlled service valve with excess valve:	-	-	-
e)	Pompe à GPL: Fuel pump:	-	-	-
f)	Bloc multivannes: Multi-valve:	-	-	-
g)	Enceinte étanche: Gas-tight housing:	-	-	-
h)	Raccord électrique d'alimentation: Power supply bushing:	-	-	-
i)	Soupape antiretour: Non return valve:	-	-	-
j)	Dispositif de surpression: Pressure relief device:	-	-	-

2. Liste des réservoirs de la même famille (les listes des réservoirs de la même famille indiquent le diamètre, la capacité, la surface externe et la (les) configuration(s) possible(s) des accessoires fixés au réservoir):

List of container family (The lists of the container family indicate the diameter, capacity, external surface and the possible configuration(s) of the accessories fitted to the container):

Tableau 2:

Table 2:

N° N°	Type Type	Diamètre/hauteur Diameter/height [mm]	Capacité Capacity [l]	Surface externe External surface [cm ²]	Configuration des accessoires Configuration of accessories [codes] ¹
-	-	-	-	-	-
-	-	-	-	-	-

3. Listes des configurations possibles des accessoires fixés au réservoir (indiquer la liste des accessoires possibles, qui diffèrent de la configuration essayée (code 00) et qui peuvent être fixés au type de réservoir en question. Pour tous les accessoires, préciser le type, le numéro d'homologation et le numéro d'extension, en indiquant pour chacun son propre code de configuration):

Lists of the possible configurations of accessories fitted to the container (Specify a list of the possible accessories, which differ from the tested configuration of accessories (code 00) and which may be fitted to the type of container. Specify for all accessories, type, approval number and extension number, indicating its own configuration code):

Tableau 3:

Table 3:

N° N°	Accessoires Accessories	Type Type	N° d'homologation Approval N°	N° d'extension Extension N°	Configuration des accessoires [code] Configuration of accessories [code]
a)	-	-	-	-	-

¹⁾ **Biffer les mentions inutiles.**
Strike out what does not apply.



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Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Sandweiler, le 04 avril 2014

INDEX DU DOSSIER D'HOMOLOGATION INDEX TO TYPE-APPROVAL REPORT

Numéro d'homologation:

Approval number:

E13*67R00*67R01*0223*04

Révision:

Revision:

00

Marque de fabrication ou de commerce:

Trade name or mark:

*BRC, BRC Gas Equipment, MTM, TA, KitMTM,
IMPCO AUTOMOTIVE, IMPCO Technologies, IMPCO,
ZAVOLI, GFI, FSS*

Type:

Type:

IN03

1. Procès-verbal d'essai:

Test report:

N° LCA 54 0280 003 14

- Technical report:

Page(s) 1 to 6;

- Index:

Annex(s) A - Page(s) 1 & 2.

2. Dossier du constructeur:

Report of the manufacturer:

N° 0280 003 14

- Manufacturer's information document:

Page(s) 1 to 10, 13, 17, 24, 26 to 29;

- Drawings of the device:

Page(s) 11, 12, 14 to 16, 18 to 23, 25, 30, 31.

3. Autres documents annexés:

Other documents annexed:

not applicable

4. Date de délivrance de l'homologation initiale:

Date of issue of initial type approval:

31.03.2003

5. Date de la dernière délivrance de pages révisées:

Date of last issue of revised pages:

not applicable

6. Date de la dernière délivrance d'une homologation révisée:

Date of last extension:

04.04.2014

TECHNICAL REPORT

No.: LCA 54 0280 003 14

Inspection concerning the

Specific equipment of motor vehicles using liquefied petroleum gases in their propulsion system

performed according to

ECE – Regulation No. 67 - Part I

Type: **IN03**
Manufacturer: **M.T.M. s.r.l.**
Via la Morra, 1
I – 12062 Cherasco (CN)

Extension 04 to ECE Type Approval no.: E13*67R00*67R01*0223*00

Index:

1. General	Page 2
2. Inspections and their results	Page 3
3. Evaluation of test results	Page 5
4. Statement of compliance	Page 6
Annex (beginning with an index)	

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1. **General**

1.1. **Test Provisions**

The inspection was carried out according to the requirements of ECE-Regulation No. 67 including Supplement 12 of the 01 series of amendments, entered into force on November 3, 2013.

1.2. **Information concerning the vehicle type and the requested approval**

The statements below apply to the previous ECE type-approval as referred to on page 1.

1.2.1. **[] Numbering according to the communication concerning the approval of ECE-R67**

[1.] LPG equipment considered:

Gas injection device

- **Type: IN03**

- **Versions: IN 03, MY 07, MY 09, MY 09 R, MY 11, GP 13**

[2.] Trade name or mark:

BRC Gas Equipment, MTM, IMPCO, IMPCO AUTOMOTIVE, IMPCO Technologies, ZAVOLI, BRC, KitMTM, GFI, TA, FSS

[3.] Manufacturer's name and address:

**M.T.M. s.r.l.
Via la Morra, 1
I – 12062 Cherasco (CN)**

[4.] If applicable, name and address of manufacturer's representative:

Not applicable

[5.] Submitted for approval on: **13.12.2013 – 14.3.2014**

[10.] Reason(s) of extension:

Added version “GP 13” and relative characteristics, updated list of trade marks

...



2. Inspections and their results

2.1. Version of the tested equipment

The following variants have been used for testing (if not stated in part 1.2.1. of this report):

versions IN 03 (main), MY 07 (ext.1), MY 09 (ext.2), MY 11 (ext.3), GP 13 (ext.4)

2.2. Inspection items

	Inspector:	Location of test:	Date of receipt of test item:	Date of test:
Main	P. Vinciarelli	CSI S.p.A. I-20021 Bollate (MI)	December 2002	10.03.2003
Ext.1:	M. Moscardelli	CSI S.p.A. I-20021 Bollate (MI)	December 2007	7/01/2008 to 31/01/2008
Ext.2:	D. Durazzi	CSI S.p.A. I-20021 Bollate (MI)	November 2008	December 2008
Ext.3:	D. Durazzi	See item [3.]	5.7.2011	5.7.11 – 12.09.11
Ext.4:	D. Durazzi	See item [3.]	13.12.2013	13.12.2013 – 14.3.2014

2.2.1. General

The marking requirements according to item 4.1. and 4.2. of Part I of the Regulation are fulfilled.

Every material of the equipment in contact with LPG is compatible with it.

The installation of the component of the LPG-equipment complies with the relevant electromagnetic compatibility requirements according to the Regulation 10.02 series of amendments, or equivalent.

The LPG gas injection device has parts of class 2.



2.2.2. Inspections: (according to Annex 11; Class 2 device)

Tests	Test results	Line item
Overpressure test	no rupture or permanent distortion at a pressure of 1015 kPa	Annex 15, par. 4
External leakage test	leakage from stem or body seals or other joints less than 15 cm ³ / hour under a pressure of 675 kPa at room temperature, - 20°C and + 120°C	Annex 15, par. 5
High temperature test	leakage from stem or body seals or other joints less than 15 cm ³ / hour under a pressure of 675 kPa at + 120°C after 8 hours of conditioning at + 120°C	Annex 15, par. 6
Low temperature test	leakage from stem or body seals or other joints less than 15 cm ³ / hour under a pressure of 675 kPa at - 20°C after 8 hours of conditioning at -20°C	Annex 15, par. 7
LPG compatibility	all the synthetic materials used satisfy the requirements	Annex 15, par. 11
Corrosion resistance	Requirements fulfilled	Annex 15, par. 12
General provisions	Requirements fulfilled	Part I, 6.1.
Provisions regarding electrical insulation	Requirements fulfilled	Part I, 6.15.2.
Provisions regarding the insulation class.	Requirements fulfilled	Part I, 6.15.2.1.
Provisions on valves activated by electrical power.	Requirements fulfilled	Part I, 6.15.3.1.
Heat exchange medium (compatibility and pressure requirements)	Not applicable, as no exchange medium in contact with the apparatus.	Part I, 6.15.4.1.

...



2.3. Remarks

Inspection results are only applicable to items which have been tested.

2.4. Test facilities

Calibration of measuring and test equipment used to carry out the inspections is in accordance with the EEC-Directive and/or ECE-Regulation stated in 1.1. of this report and with ISO 17025.

Inspectors stated under 2.2. of this report were in charge of performing and/or evaluating the tests.

3. Evaluation of test results

3.1. Variants and equipment covered

The tests carried out cover the following variations as far as these are relevant for the gas injection unit:

- versions stated in Annex B
- trade marks as stated in annex B

3.2. Remarks

3.2.1. Main report:

Not applicable

3.2.2. Extension 1:

New tests have been performed to cover the added version "MY 07".

3.2.3. Extension 2:

New tests have been performed to cover the added versions "MY 09" and "MY 09 R".

3.2.4. Extension 3:

New tests have been performed to cover the added version "MY 11".

3.2.5. Extension 4:

New tests have been performed to cover the added version "GP 13".

...



4. Statement of compliance

The inspections items and measurements carried out have shown the compliance of the vehicle type described in this report and the attached Annex with the requirements of ECE-Regulation No. 67 including Supplement 12 to the 01 series of amendments, entered into force on November 3, 2013.

Esch/Alzette, 28 March 2014

Luxcontrol s.a.
Service Homologation-automobile

David Durazzi
Ingénieur-Inspecteur

Paul Wax
Ingénieur-Inspecteur

Annex



Index to the information package, including a summary in chronological order, concerning extensions and/or amendments

ECE type-approval No.: E13*67R00*67R01*0223*00

Main Report

Technical Report No.: LCA 54 280 001 3	Pages 1 to 6
Composition of the Annex:	
A: Index	Page 1
B: Information folder	Pages 1 to 12

Extension 1

Technical Report No.: LCA 54 0280 004 08	Pages 1 to 6
Composition of the Annex:	
A: Index	Page 1
B: Information folder	
- to be added	Pages 13 to 16

Contents of the extension:

To be added:

- alternative version “MY 07” with all its characteristics
- trade mark “ZAVOLI”, “IMPCO”, “IMPCO Technologies”

To be modified:

- the stated amendment of the regulation
 - the editorial arrangement
-

Extension 2

Technical Report No.: LCA 54 0280 021 08	Pages 1 to 6
Composition of the Annex:	
A: Index	Pages 1 to 2
B: Information folder	
- to be added	Pages 17 to 23

Contents of the extension:

To be added:

- alternative versions “MY 09” and “MY 09 R” with all their characteristics
- trade marks “BRC” and “Kit MTM”

To be updated:

- the supplement level of the regulation



Extension 3

Technical Report No.: LCA 54 0280 006 11 Pages 1 to 6

Composition of the Annex:

A: Index Pages 1 to 2

B: Information folder
- to be added Pages 24, 25

Contents of the extension:

To be added:

- alternative versions "MY 11" with all its characteristics
- trade marks "GFI" and "TA"

To be updated:

- the supplement level of the regulation
-

Extension 4

Technical Report No.: LCA 54 0280 003 14 Pages 1 to 6

Composition of the Annex:

A: Index Pages 1 to 2

B: Information folder
- to be added Pages 26 to 31

Contents of the extension:

To be added:

- alternative versions "GP 13" with all its characteristics
- trade marks "FSS", "IMPCO AUTOMOTIVE"

To be updated:

- the supplement level of the regulation

Index to the information folder:

- manufacturer's information document (pages 1 to 10, 13, 17, 24, 26 to 29)
 - drawings of the device (pages 11 to 12, 14 to 16, 18 to 23, 25, 30, 31)
-



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P. IVA 00525960043
C.F. 00525960043
N. Reg. Imprese 00525960043
R.E.A. n. 107283
Capitale Sociale EURO 2.400.000 i.v.
(Lire 4.647.048.000)



Num. identificativo IT00525960043
Num. posizione CCIAA Cuneo CN006578

TECHNICAL REPORT

on

“IN 03”

Gas injector

new version added : GP 13

TABLE OF CONTENTS

1. Introduction
2. Structure and applications
3. Materials
4. Markings
5. Trademarks
6. Drawing



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Num. identificativo IT00525960043
 Num. posizione CCIAA Cuneo CN0066578

1. Introduction

The introduction of version GP 13 in the IN 03 gas injector extend the potential range of application of injector, This version is added to the present configuration of the injector and it is not replacing previous versions.

2. Structure and application

The gas flows in the main body (1) through the pipe holder (2) with O-ring (10), see detail B in the drawing; the fork (8) lock the pipe holder to the main body (1); on the opposite side of the main body (1) we can have a sensor fitting (3) that is fixed on the main body (1) with fork (8) or a cap (14) the close the main body as alternative configuration. The gas flows in the main body (1) and it feed all plungers ambient. On the plunger housing (5.7) there is a shutter (5.6) that is fixed in the magnetic core (5.5) ; the magnetic core (5.5) with shutter (5.6) move in the plunger housing (5.7) its translation depend from the magnetic force of the coil (6) that is able to win the force of the spring (5.4) and open the stroke from shutter (5.6) and plunger housing (5.7) allowing the gas to flow out in the engine manifold through the pipe holder (9) ; the Oring (5.3) has cushioning and magnetic air gap functions . The Polar (5.1) allow the proper path of the magnetic field generated from the coil (6) on magnetic core (5.5); the polar (5.1) is mounted on the plunger housing (5.7) and crown lock washer (7) avoid any unexpected disassembling of the parts. All parts are fixed together and al the seals are granted with the presence of rubber Orings that avoid external and internal leakages.

Particularly :

Orings (5.2) maintain leak proof between the Polar (5.1) and the plunger housing (5.7) ; Oring (5.8) and Oring (5.9) maintain leak proof between main body (1) and plunger housing (5.7) ; Oring (11) maintain leak proof between main body (1) and pipe holder (9). The Oring (12) has cushioning purposes.



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Num. identificativo IT00525960043
 Num. posizione CCIAA Cuneo CN006578

3. Materials

ITEM	DESCRIPTION	MATERIAL
1	MAIN BODY L4 INJ GP13	PA66 GF30
2	PIPE-HOLDER GAS IN GP13 INJECTOR RAIL	ALUMINUM UNI EN 573-3 Alloy EN AW-2011
3	SENSATA SENSOR FITTING FOR TA INJECTOR RAIL	ALUMINUM UNI EN 573-3 Alloy EN AW-2011
4	SENSATA SENSOR 0-4,5 BAR	-
5.1	POLAR GP13 INJECTOR	STAINLESS STEEL EN 10088-3 X6CrMoS17
5.2	O-RING ISO3601-1_B_6X1_N	FKM LT
5.3	O-RING ISO3601-1_B_3,5X1,5_N	FKM LT
5.4	SPRING GP13 INJECTOR	STAINLESS SPRING STEEL EN 10270-3 X10CrNi18-8
5.5	MAGNETIC CORE GP13 INJECTOR	STAINLESS STEEL EN 10088-3 X6CrMoS17
5.6	SHUTTER GP13 INJECTOR RAIL	FKM LT
5.7	PLUNGER HOUSING GP13 INJECTOR Ø3.4	BRASS UNI EN 12164 ALLOY CW614N
5.8	O-RING ISO3601-1_B_10X1_N	FKM LT
5.9	O-RING ISO3601-1_B_9X1_N	FKM LT
6	COIL AND BRACKET	-
7	CROWN LOCK WASHER ØE=18 ØI=9	SPRING STEEL
8	FORK FOR GP13 INJECTOR RAIL	SPRING STEEL
9	PIPE-HOLDER GAS OUT GP13 INJECTOR	BRASS UNI EN 12164 ALLOY CW614N
10	O-RING ISO3601-1_111B_10,77X2,62_N	FKM LT
11	O-RING ISO3601-1_B_5X1,5_N	FKM LT
12	O-RING ISO3601-1_B_10X1_N	FKM LT
14	CAP	ALUMINUM UNI EN 573-3 Alloy EN AW-2011



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Num. identificativo IT00525960043
Num. posizione CCIAA Cuneo CN006578

4 Markings

On the main body is reported : manufacturer name, class (if required), type .
Version and trade mark should be present as optional

5 Trademarks

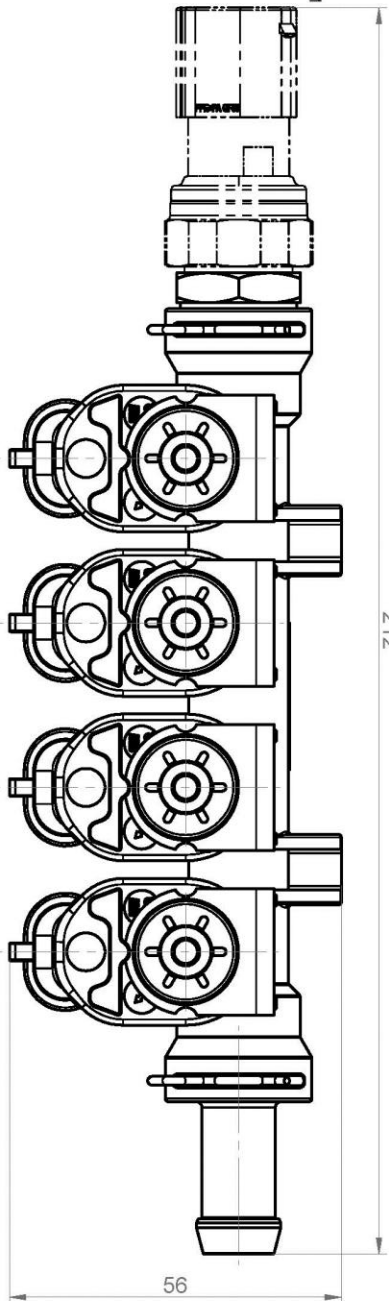
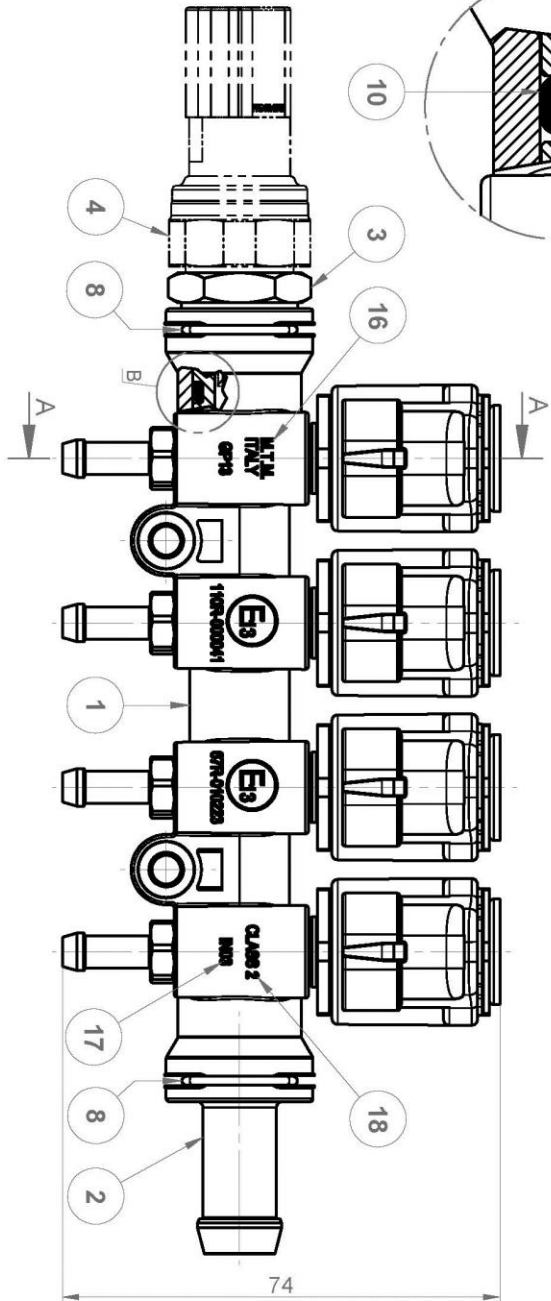
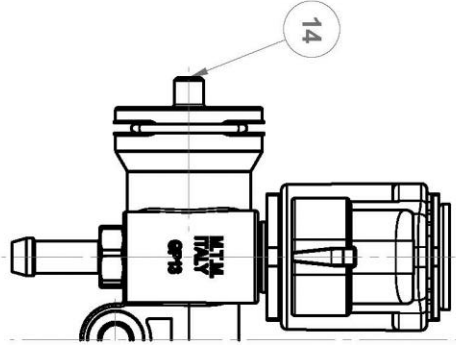
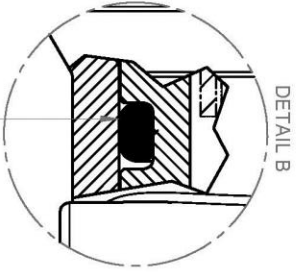
BRC
BRC Gas Equipment
MTM
IMPCO Technologies
TA
KitMTM
ZAVOLI
FSS
GFI
IMPCO AUTOMOTIVE
IMPCO

6 Drawing

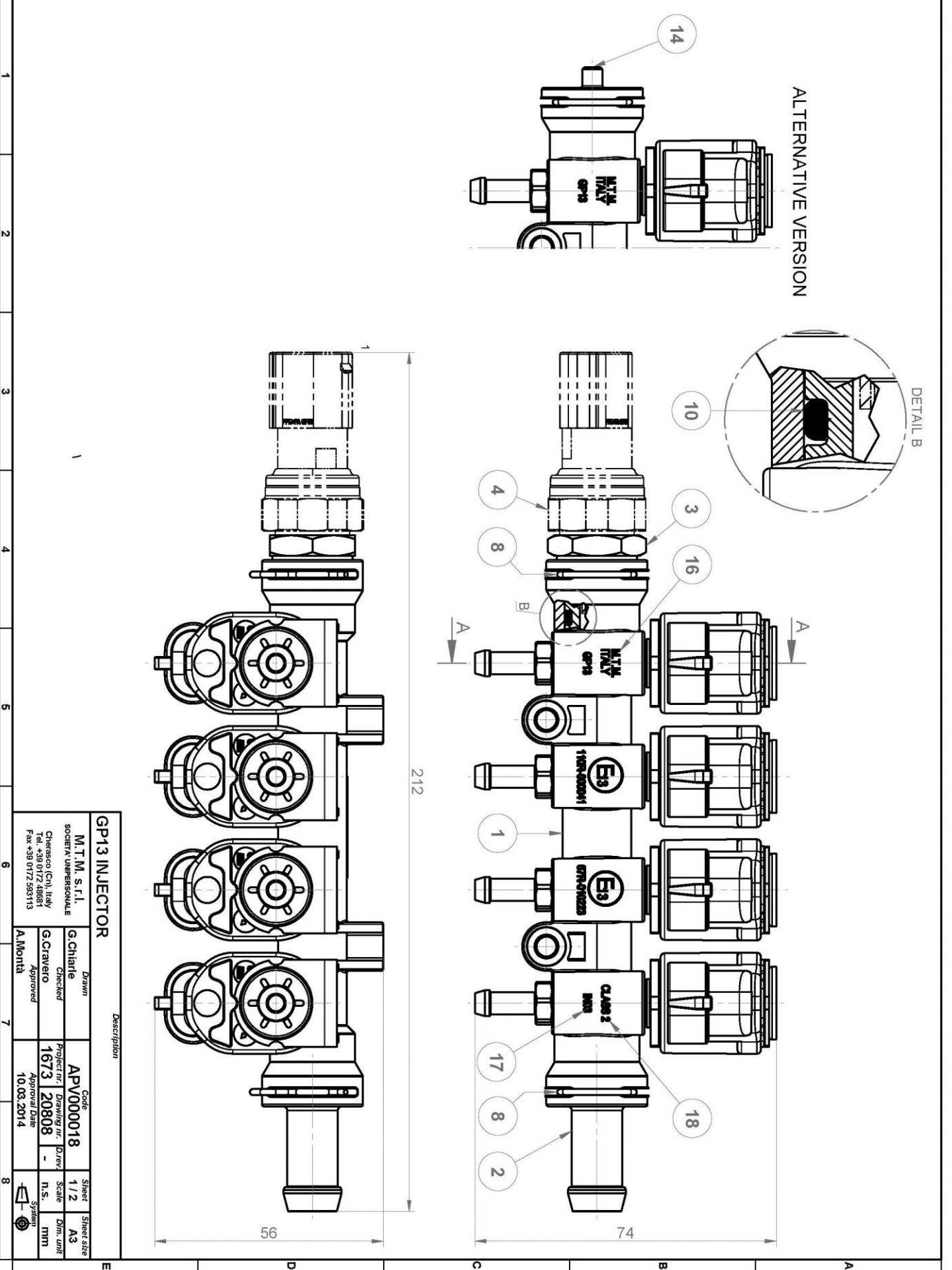
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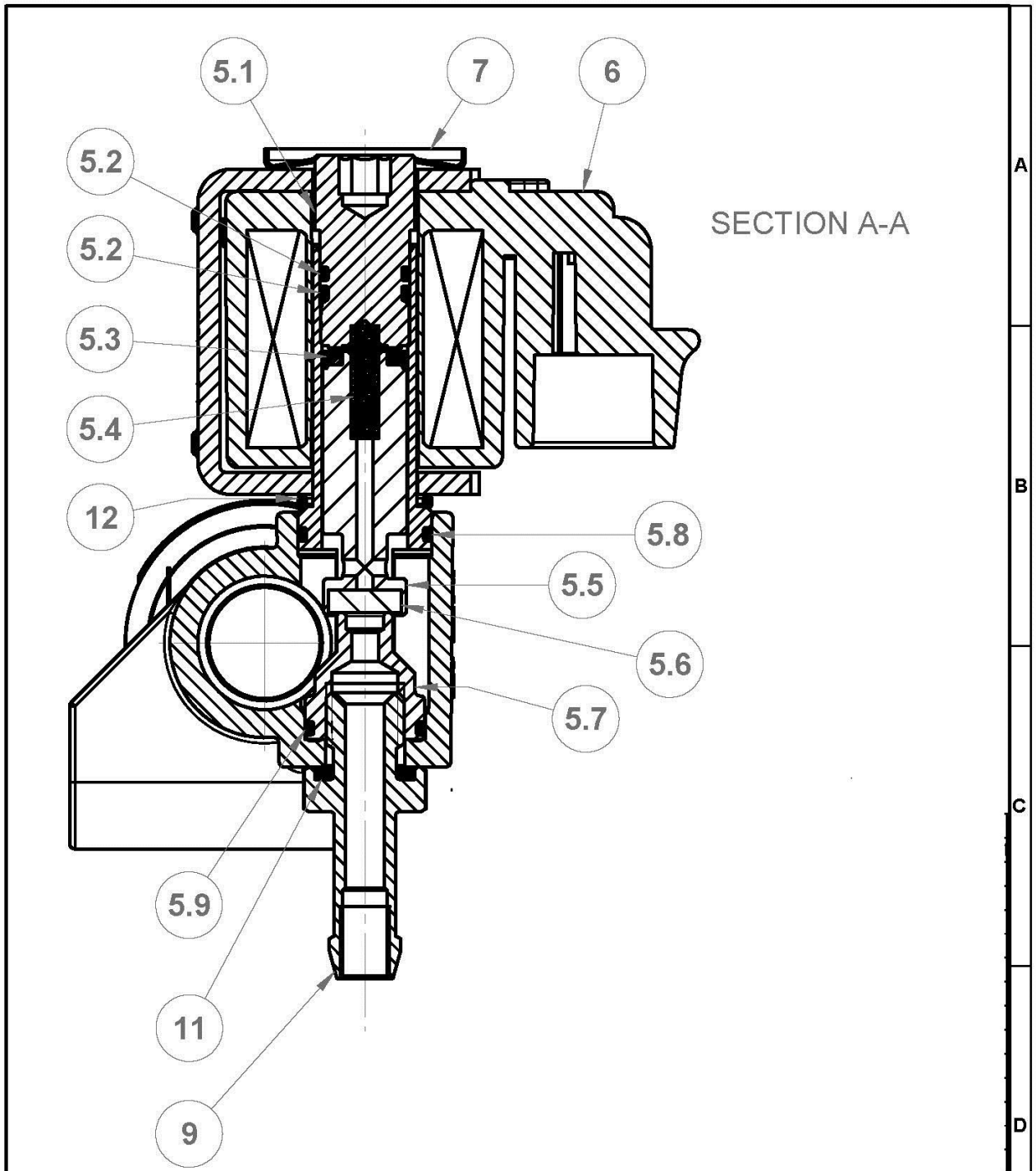
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ALTERNATIVE VERSION



GP13 INJECTOR		Description	
M.T.M. S.r.l. SOCIETA' UNIPERSONALE Chivasso (Cn), Italy Tel. +39 0172 583113 Fax +39 0172 583113	Drawn G.Chiarle	Code APV000018	Sheet 1 / 2
	Checked G.Craverio	Project nr. 1673	Sheet size A3
	Approved A.Montà	Drawing nr. 20808	Dim. unit mm
		Scale n.s.	
		Approval Date 10.03.2014	





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Rev. 2

539282

Description						
GP13 INJECTOR						
M.T.M. s.r.l. SOCIETA' UNIPERSONALE Cherasco (Cn), Italy Tel. +39 0172 48681 Fax +39 0172 593113	Drawn	Code			Sheet	Sheet size
	G.Chiarle	APV000018			2 / 2	A4
	Checked	Project nr.	Drawing nr.	D.rev.	Scale	Dim. unit
	G.Cravero	1673	20808	-	2:1	mm
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A.Montà	10.03.2014					

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