LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG

Ministère 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*0004*05

Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Sandweiler, le 13 mars 2009

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  ~~approval withdrawn~~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*0004*05

Marque d'homologation:
Approval mark: E13 67R-010004 CLASS 3

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

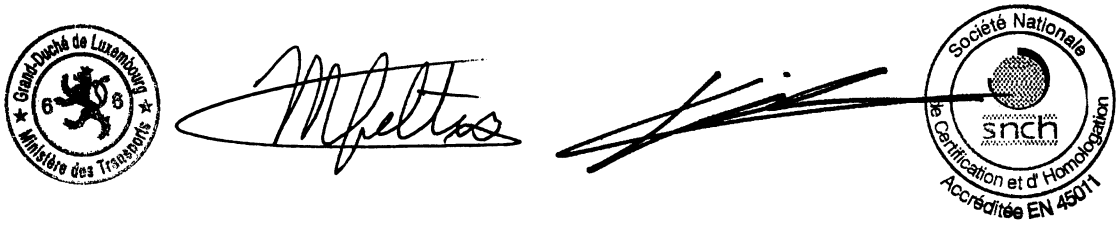
	Bloc multivannes, y compris les accessoires suivants: Multivalve, including the following accessories:	- ~~gas-tight housing~~ - ~~power supply bushing (pump/actuators)~~ - ~~fuel pump~~ - ~~vaporizer/pressure regulator~~ - shut-off valve - non-return valve - ~~gas-tube pressure relief valve~~ - ~~service 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~~
2.	**Marque de fabrique ou de commerce:** Trade name or mark:	BRC, BRC Gas Equipment, M.T.M., Roxer, Rohan, OMT Tartarini, Stargas, Nuova GGL, Mandini, Comit, Kit MTM, IMPCO, IMPCO Technologies, ZAVOLI
	Type: *Type:*	***Multivalve EUROPA***
	Versions: *Versions:*	*Version 1: see information folder* *Version 2: see information folder*
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:	29.10.2008
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:	11.03.2009
8.	**Numéro du procès-verbal:** Number of report issued by that service:	LCA 54 0280 017 08
9.	**L'homologation est:** Approval:	extended
10.	**Raisons de l'extension (éventuellement):** Reason(s) for extension (if applicable):	- Regulation updated; - Alternative coil configuration (with or without connectors) added; - Two alternative "low melting fuse" and relative material added; - Alternative safety valve pipe configuration with added spring inside (part number 155) added.

11. **Lieu:**
Place: Sandweiler

12. **Date:**
Date: 13 mars 2009

13. **Signature:**
Signature:

Pour le Ministre des Transports **Pour la SNCH**



Marco FELTES
Inspecteur Principal

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 **[cm²]**	**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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Sandweiler, le 13 mars 2009

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INDEX TO TYPE-APPROVAL REPORT

	Numéro d'homologation: Approval number:	E13*67R00*67R01*0004*05
	Révision: Revision:	00
	Marque de fabrique ou de commerce: *Trade name or mark:*	*BRC, BRC Gas Equipment, M.T.M., Roxer, Rohan, OMT Tartarini, Stargas, Nuova GGL, Mandini, Comit, Kit MTM, IMPCO, IMPCO Technologies, ZAVOLI*
	Type: *Type:*	***Multivalve EUROPA***
1.	**Procès-verbal d'essai:** Test report:	Nº LCA 54 0280 017 08
	- Technical report: - Index:	Page(s) 1 to 13; Annex A - Page(s) 1 to 3.
2.	**Dossier du constructeur:** Report of the manufacturer:	Nº ---
	- Manufacturer's information document: - Drawings and details of multivalve: - Installation of multivalve in container:	Page(s) 1 to 6, 16, 17, 21 to 27, 31, 33; Page(s) 7 to 12, 18 to 20, 28 to 30, 34; Page(s) 13 to 15, 32.
3.	**Autres documents annexés:** Other documents annexed:	not applicable
4.	**Date de délivrance de l'homologation initiale:** Date of issue of initial type approval:	24.05.2000
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:	13.03.2009

TECHNICAL REPORT

No.: LCA 54 0280 017 08

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: **Multivalve Europa**
Manufacturer: **MTM S.r.l.**
Via La Morra, 1
12062 Cherasco (CN); Italy

Extension 5 to ECE Type Approval no.: E13*67R00*67R01*0004*00

Index:

1. General Page 2
2. Inspections and their results Page 3
3. Evaluation of test results Page 11
4. Statement of compliance Page 13
5. Annex (beginning with an index)

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L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS EN 45011
… Accréditation N° 5/001 (Portée communiquée sur demande)

- **Luxcontrol SA**
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IBAN: LU56 0030 1612 0727 0000
BIC: BGLLLULL
Dexia-BIL
IBAN: LU48 0026 1824 1543 2600
BIC: BILLLULL

1. General

1.1. Test Provisions

The inspection was carried out according to the requirements of ECE-Regulation No. 67 including Supplement 8 to the 01 series of amendments, which entered into force on February 3, 2008.

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:

Multivalve: (type: **Multivalve EUROPA**)

Accessories fitted to the valve:

- **80% stop valve**
- **level indicator**
- **pressure relief valve (discharge valve)**
- **remotely controlled service valve with excess flow valve**
- **pressure relief device (fuse)**
- **non return valve**
- **manual shut off valve (optional)**
- **shut-off valve**

version 1 (see information document until extension 2)
version 2 (see information document of extension 3)

[2.] trade name or mark:

BRC Gas Equipment, M.T.M., Roxer, Rohan, OMT Tartarini, Stargas, Nuova GGL, Mandini, Comit, IMPCO, IMPCO Technologies, Zavoli, BRC, Kit MTM

[3.] Manufacturer's name and address:

MTM S.r.l.
Via La Morra, 1
12062 Cherasco (CN); Italy

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

not applicable

…

[5.] Submitted for approval on: 29/10/2008

[10.] Reason(s) of extension:

alternative coil configuration, two alternative low melting fuse material, alternative safety valve pipe configuration (added spring inside).

2. Inspections and their results

2.1. Version of the tested vehicle

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

Europa version 1 and Europa version 2 with all optional equipments

2.2. Inspection items

	Inspectors:	Location of test:	Date of receipt of test item:	Date of test:
Main	--	**I-CSI/Bollate (MI)**	**5.5.2000**	**5.5.2000**
Ext 1	--	**I-CSI/Bollate (MI)**	**5.11.2001**	**5.11.2001**
Ext 2	**D. Durazzi**	**I-CSI/Bollate (MI)**	**March 2003**	**March 2003**
Ext 3:	**D. Durazzi**	**I-CSI/Bollate (MI)**	**12.07.2005**	**12.7.05-7.10.05**
Ext.4:	**D. Durazzi**	**Esch/Alzette**	**Not applicable**	**08.02.2008**
Ext.5:	**D. Durazzi**	**I-CSI/Bollate (MI)**	**14.10.2008**	**29.10.2008**

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.

For conformity with the electromagnetic compatibility requirements of the LPG equipment, refer to:

Not applicable

2.2.2. Inspections

Device	Classification pressure
80% stop valve	3000 kPa
level indicator	3000 kPa
pressure relief valve (discharge valve)	3000 kPa
remotely controlled service valve with excess flow valve	3000 kPa
pressure relief device (fuse)	3000 kPa
non return valve	3000 kPa
manual shut off valve (optional)	3000 kPa

…

2.2.2.1. 80 % stop valve:

Tests	Test results
Overpressure test	no rupture or permanent distortion at a pressure of 6750 kPa
External leakage test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at room temperature, - 20ºC and + 65ºC
High temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at + 65ºC
Low temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at - 20ºC
Seat leakage test	version 1: no leakage occurred version 2: not applicable
Endurance test	requirements fulfilled
Operational test	version 1:proper operation with filling speeds of 20, 50 and 57 l/min; filling speed of 80 l/min test was not performed due to geometry of device; version 2:proper operation with filling speeds of 20, 38,9 l/min; filling speed of 50 and 80 l/min test were not performed due to geometry of device; both versions withstood 6000 cycles of complete filling up to the maximum degree of filling; underwent a vibration test as specified in par. 10.5., method B fulfilling all the requirements described in 10.5.7.
LPG compatibility	all the synthetic materials used satisfy the requirements
Corrosion resistance	requirements fulfilled
Resistance to dry heat	all the synthetic materials used satisfy the requirements
Ozone ageing	all the synthetic materials used satisfy the requirements
Creep	requirements fulfilled
Temperature cycle test	requirements fulfilled
Provisions regarding the device	the connection between the float and the closing unit are not deformed under normal conditions of use; the floats used withstand a pressure of 6750 kPa; at cut-off position, the filling rate at a differential pressure of 700 kPa is less than 500 cm^3/minute (see list of tested container in annex B – table 1)
Provisions regarding electrical insulation	not applicable
Provisions on valves activated by el. power	not applicable

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2.2.2.2. Level indicator:

Tests	Test results
Overpressure test	no rupture or permanent distortion at a pressure of 6750 kPa
External leakage test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at room temperature, - 20ºC and + 65ºC
High temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at + 65ºC
Low temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at - 20ºC
Seat leakage test	no leakage occurred
Endurance test	not applicable
Operational test	not applicable
LPG compatibility	all the synthetic materials used satisfy the requirements
Corrosion resistance	requirements fulfilled
Resistance to dry heat	all the synthetic materials used satisfy the requirements
Ozone ageing	all the synthetic materials used satisfy the requirements
Creep	requirements fulfilled
Temperature cycle test	requirements fulfilled
Provision regarding the device	the device to verify the level is of indirect type (permanent magnet), as per 6.14.11.1., and the floats used withstand a pressure of 6750 kPa
Provisions regarding electrical insulation	not applicable
Provisions on valves activated by el. power	not applicable

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2.2.2.3. Pressure relief valve (discharge valve):

Tests	Test results
Overpressure test	no rupture or permanent distortion at a pressure of 6750 kPa
External leakage test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at room temperature, - 20ºC and + 65ºC
High temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at + 65ºC
Low temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at - 20ºC
Seat leakage test	version 1: not applicable version 2: no leakage occurred up to a test pressure of 2600 kPa
Endurance test	not applicable
Operational test	version 1 / calibration set pressure: 2700 kPa; start to discharge pressure: 2640 kPa; resealing pressure: 2500 kPa; flow capacity: 20 nm^3/min; test pressure: 3240 kPa; blow down pressure: 2100 kPa; start to discharge pressure: 2640 kPa; resealing pressure: 2450 kPa version 2 / calibration set pressure: 2700 kPa; start to discharge pressure: between 2790 and 2860 kPa; resealing pressure: between 2501 and 2750 kPa; flow capacity: between 17.7 and 19.2 nm^3/min; test pressure: 3240 kPa; blow down pressure: between 2410 and 2480 kPa; start to discharge pressure: between 2470 and 2620 kPa; resealing pressure: between 2430 and 2500 kPa
LPG compatibility	all the synthetic materials used satisfy the requirements
Corrosion resistance	requirements fulfilled
Resistance to dry heat	all the synthetic materials used satisfy the requirements
Ozone ageing	all the synthetic materials used satisfy the requirements
Creep	not applicable
Temperature cycle test	not applicable
Provisions regarding the device	the pressure relief valve is mounted in the gaseous zone; it opens at 2700 ± 100 kPa, its flow rate is 20 nm3/min, meaning that it can be considered as a pressure relief device and it has no internal leakage up to 2600 kPa
Provisions regarding electrical insulation	not applicable
Provisions on valves activated by el. power	not applicable

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2.2.2.4. Remotely controlled service valve with excess flow rate valve:

Tests	Test results
Overpressure test	no rupture or permanent distortion at a pressure of 6750 kPa
External leakage test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at room temperature, - 20ºC and + 65ºC
High temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at + 65ºC
Low temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at - 20ºC
Seat leakage test	no leakage occurred
Endurance test	the device underwent 6000 cycles of opening and closing and showed no damage
Operational test	the excess flow valve operates in the specified tolerance bands and closes automatically at a pressure differential across the valve of not more than 90 kPa; these tests were conducted with liquid and gas.
LPG compatibility	all the synthetic materials used satisfy the requirements
Corrosion resistance	requirements fulfilled
Resistance to dry heat	all the synthetic materials used satisfy the requirements
Ozone ageing	all the synthetic materials used satisfy the requirements
Creep	requirements fulfilled
Temperature cycle test	requirements fulfilled
Provisions regarding the device	the requirements set out in paragraph 6.14.13.1. are fulfilled; the excess flow valve is mounted inside the container and it has a by pass to allow equalization of pressure; the excess flow valve cuts off at a pressure difference of 90 kPa and at this pressure, the flow does not exceed 100 cm^3/min; the flow through the bypass at a differential pressure of 700 kPa is 30 cm^3/min
Provisions regarding electrical insulation	requirements fulfilled
Provisions on valves activated by el. power	requirements fulfilled

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2.2.2.5. Pressure relief device:

Tests	Test results
Overpressure test	no rupture or permanent distortion at a pressure of 6750 kPa
External leakage test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at room temperature, - 20ºC and + 65ºC
High temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at + 65ºC
Low temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at - 20ºC
Seat leakage test	not applicable
Endurance test	not applicable
Operational test	not applicable
LPG compatibility	not applicable
Corrosion resistance	requirements fulfilled
Resistance to dry heat	not applicable
Ozone ageing	not applicable
Creep	not applicable
Temperature cycle test	not applicable
Provisions regarding the pressure relief device	the fuse opens at the prescribed temperature between the tolerance bands; it has been submitted to the tests prescribed in annex 3, par. 7.7 comma “a”, “b” and “c”, meeting all the requirements.
Provisions regarding electrical insulation	not applicable
Provisions on valves activated by el. power	not applicable

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2.2.2.6. Non return valve:

Tests	Test results
Overpressure test	no rupture or permanent distortion at a pressure of 6750 kPa
External leakage test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at room temperature, - 20ºC and + 65ºC
High temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at + 65ºC
Low temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at - 20ºC
Seat leakage test	no leakage occurred
Endurance test	the device underwent 6000 cycles of opening and closing and showed no damage
Operational test	not applicable
LPG compatibility	all the synthetic materials used satisfy the requirements
Corrosion resistance	requirements fulfilled
Resistance to dry heat	all the synthetic materials used satisfy the requirements
Ozone ageing	all the synthetic materials used satisfy the requirements
Creep	requirements fulfilled
Temperature cycle test	requirements fulfilled
Provisions regarding electrical insulation	requirements fulfilled
Provisions on valves activated by el. power	requirements fulfilled

…

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2.2.2.7. Manual shut-off valves (optional devices on inlet and/or outlet):

Tests	Test results
Overpressure test	no rupture or permanent distortion at a pressure of 6750 kPa
External leakage test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at room temperature, - 20ºC and + 65ºC
High temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at + 65ºC
Low temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 6750 kPa at - 20ºC
Seat leakage test	no leakage occurred
Endurance test	the devices underwent 6000 cycles of opening and closing and showed no damage
Operational test	not applicable
LPG compatibility	all the synthetic materials used satisfy the requirements
Corrosion resistance	requirements fulfilled
Resistance to dry heat	all the synthetic materials used satisfy the requirements
Ozone ageing	all the synthetic materials used satisfy the requirements
Creep	requirements fulfilled
Temperature cycle test	requirements fulfilled
Provisions regarding electrical insulation	requirements fulfilled
Provisions on valves activated by el. power	requirements fulfilled

…

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2.3. **Remarks**

Since the pressure relief valve is considered to be the pressure relief device, the fuse can be considered as an accessory. Nevertheless all the requirements concerning the fuse itself have been verified.

The fuse opens at the prescribed temperature between the tolerance bands; it has been submitted to the tests prescribed in Annex 3, paragraph 7.7., item "a", "b" and "c", meeting all the requirements. It is mounted in the gaseous zone of the container.

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 valve:

- Variants as described in annex B
- Versions as described in annex B
- Containers to be fitted as described in annex B

3.2. **Remarks**

3.2.1. Main report:

not applicable

3.2.2. Extension 1:

Tests have been made with the updated and optionally added equipment which showed compliance with the requirements of the regulation.

3.2.3. Extension 2:

Tests have been made with the optional and alternative equipments which showed compliance with the requirements of the regulation.

3.2.4. Extension 3:

New version 2 is added and was tested.

…

3.2.5. Extension 4:

The stated change did not required new test to be performed.

3.2.6. Extension 5:

The stated change required new test to be performed.

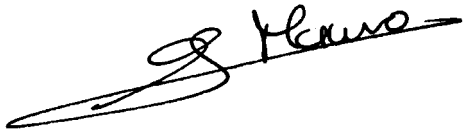
…

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 8 to the 01 series of amendments, which entered into force on February 3, 2008.

Esch/Alzette, 13 March 2009

Luxcontrol s.a.
Service Homologation-automobile



David Durazzi
Ingénieur-Inspecteur

Mauro Moscardelli
Ingénieur-Inspecteur

Annex

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

EEC type-approval No.: E13*67R00*67R01*0004*00

Main Report

Technical Report No.: LCA 54 280 002 0 Page 1 to 10

Composition of the Annex:
A: Index Page 1
B: Information folder Page 1 to 15

Extension 1

Technical Report No.: LCA 54 280 012 1 Page 1 to 10

Composition of the Annex:
A: Index Page 1
B: Information folder
to be replaced Page 7 to 11
to be added Page 16

<u>Contents of the extension:</u>

<u>to be modified:</u>
- 80% stop valve
- fuse cap

<u>to be added:</u>
- inlet deflector
- optional tap on solenoïd valve

<u>to be corrected:</u>
- the amendment of the regulation

Extension 2

Technical Report No.: LCA 54 280 008 3 Page 1 to 11

Composition of the Annex:
A: Index Page 1
B: Information folder
to be added Page 17 to 20

Contents of the extension:

to be added:
- optional shut-off valve on the inlet elbow
- optional shut-off valve on the outlet
- alternative excess flow device for vapour withdrawal
- new configuration for solenoid valve as option
- trade name M.T.M.

to be corrected:
- name of the multivalve EUROPA

Extension 3

Technical Report No.: LCA 54 280 011 5 Page 1 to 12

Composition of the Annex:
A: Index Page 1 to 2
B: Information folder
to be added Page 21 to 30

Contents of the extension:

to be added:
- version 2 and relative tests
- trade marks “Rohan”

to be updated:
- the supplement level of the regulation

Extension 4

Technical Report No.: LCA 54 0280 006 08 Page 1 to 13

Composition of the Annex:
A: Index Page 1 to 3
B: Information folder
to be added Page 31 to 32

Contents of the extension:

to be added:
- list of containers verified compatible with the multivalve (table 1) until extension 3
- trade marks “IMPCO”, “IMPCO Technologies”, “ZAVOLI”, “BRC”, “Kit MTM”

to be updated:
- the supplement level of the regulation

Extension 5

Technical Report No.: LCA 54 0280 017 08 Page 1 to 13

Composition of the Annex:

A:	Index	Page 1 to 3
B:	Information folder to be added	Page 33 to 34

Contents of the extension:

to be added:

- alternative coil configuration (with or without connectors)
- two alternative “low melting fuse” and relative material
- alternative safety valve pipe configuration with added spring inside (part number 155)

to be updated:

- the supplement level of the regulation

Index to the information folder:

- manufacturer's information document (pages 1 to 6, 16, 17, 21 to 27, 31, 33)
- drawings and details of Multivalve (page 7 to 12, 18 to 20, 28 to 30, 34)
- installation of multivalve in container (page 13 to 15, 32)

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Reg. Imp.Uff. Alba n. 1423
Capitale Sociale:
EURO 2.400.000 i.v.
(Lire 4.647.048.000)

Europa Multivalve

1. List of modifications.

As per the drawing 1111-8458 alternative configuration of the coil is added (part number 78); with connector & without connector

Spring (part number 155 in the DWG 1111-8458) should be added (not present in all the Multivalve types)

Part n° 102 “low melting fuse” shall be produced in two different type of alloy low melting temperature, the two materials shall be used as alternative each one.

2. Material

Alternative “low melting alloy” for part 102

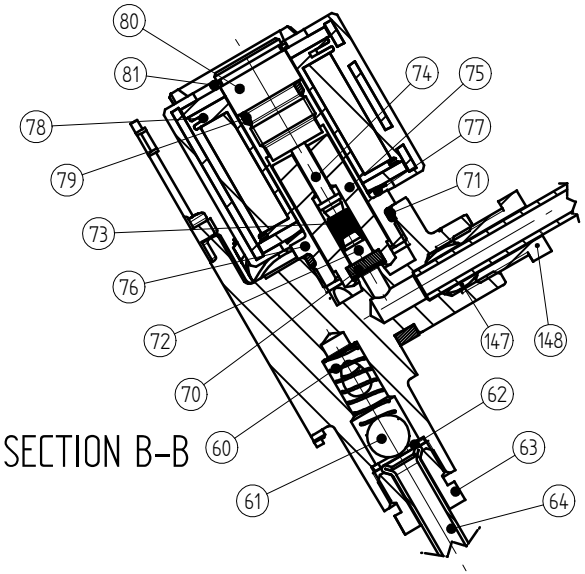
3. Trade Marks

4. Drawings

-

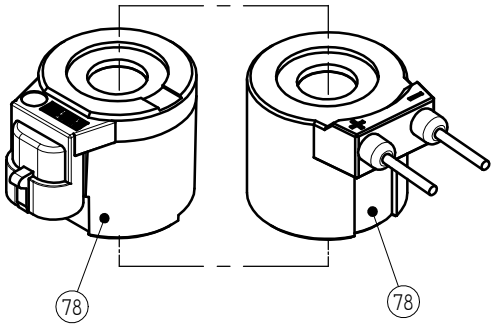
Enclosed drawing 1111-8458-1

REMOTELY CONTROLLED SERVICE VALVE
WITH EXCESS FLOW RATE VALVE

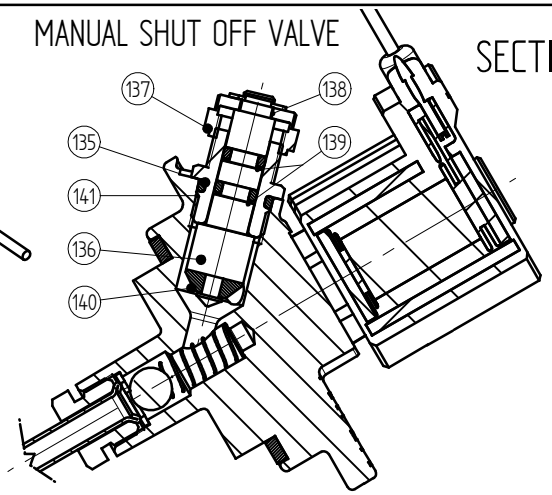


SECTION B-B

ALTERNATIVE COIL
CONFIGURATION

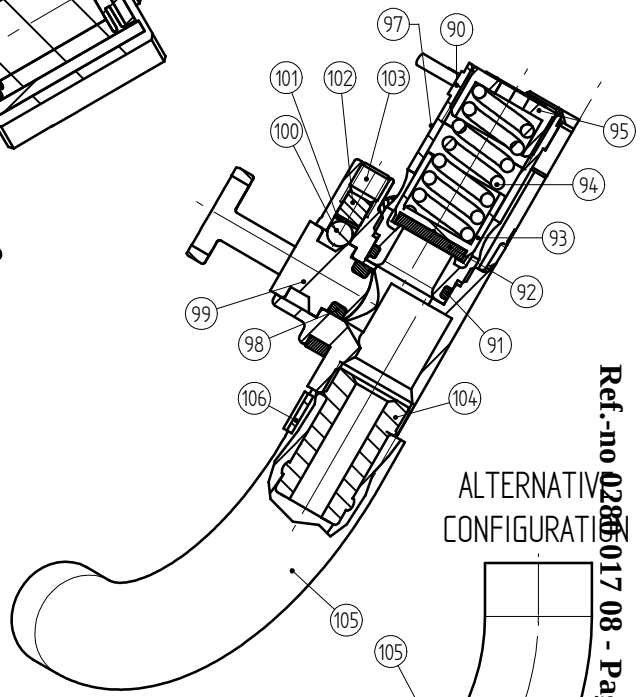


MANUAL SHUT OFF VALVE

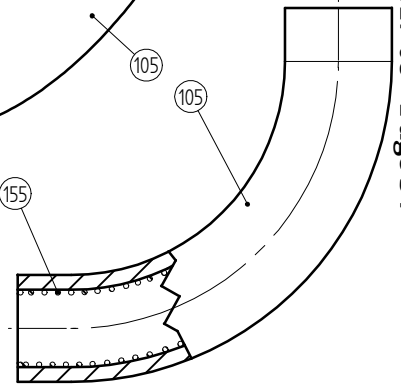


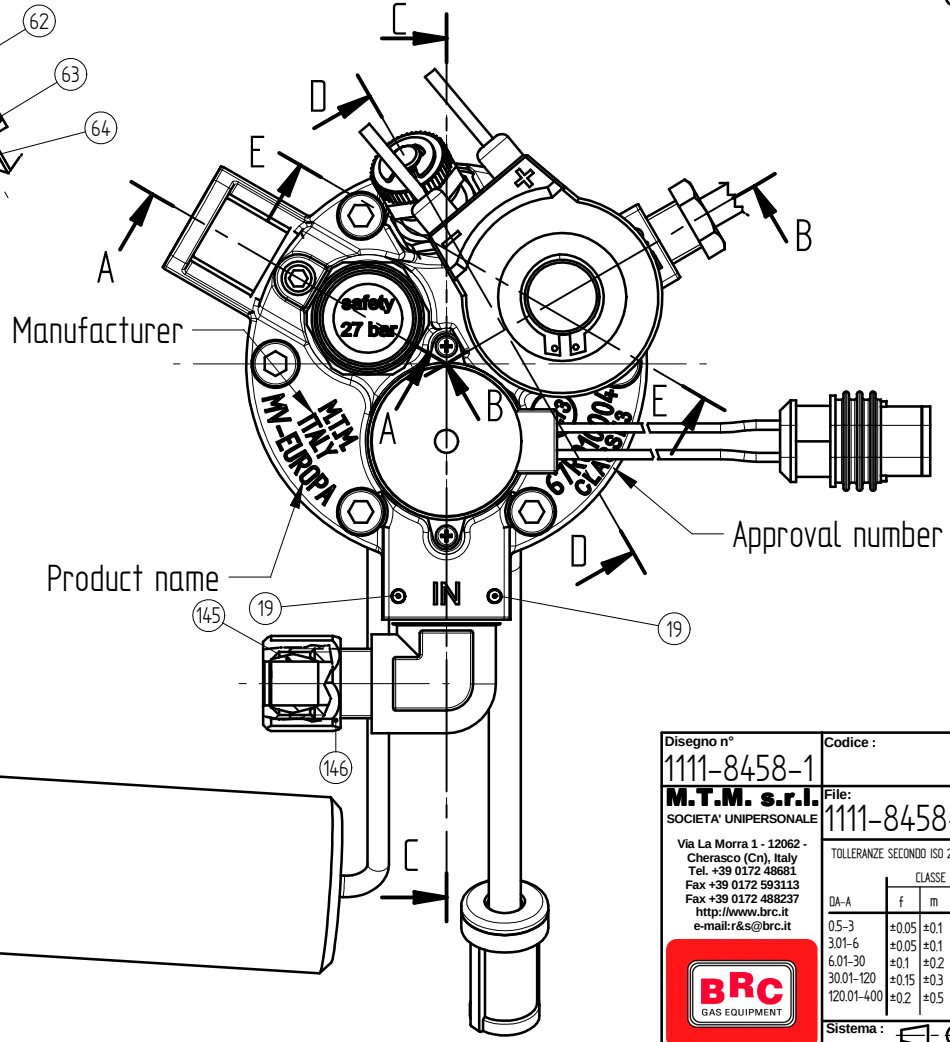
SECTION D-D

SECTION A-A
PRESSURE RELIEF VALVE
(DISCHARGE VALVE)

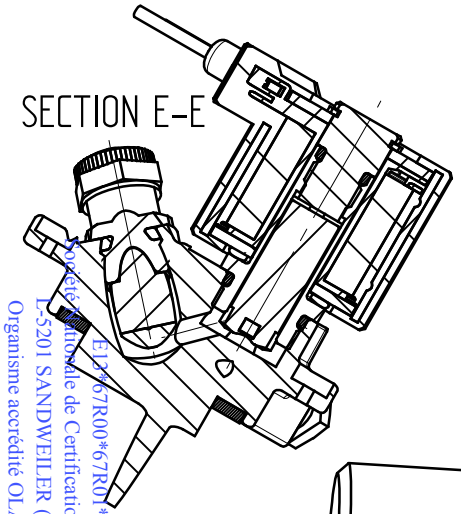


ALTERNATIVE
CONFIGURATION





SECTION E-E



Ref.-no 02867017 08 - Page 34

Tolleranze generali ISO 2768 - m

Disegno n° 1111-8458-1	Codice :	Descrizione : EUROPA MULTIVALVE	
M.T.M. s.r.l. SOCIETA' UNIPERSONALE Via La Morra 1 - 12062 - Cherasco (Cn), Italy Tel. +39 0172 48681 Fax +39 0172 593113 Fax +39 0172 488237 http://www.brc.it e-mail:r&s@brc.it	File: 1111-8458-1	1 08/10/08 Inserted detail n° 155	
BRC GAS EQUIPMENT	TOLLERANZE SECONDO ISO 2768	REV. DATA MODIFICHE	FIRMA
	Sistema :	Disegnatore : G.Chiarle — Data : 08/10/08 — Firma : — Materiale :	
	Scala : 1 : 1 — Formato : A3 — Foglio : 2/3 — Durezza :	Verificatore : A. Montà — Data : 08/10/08 — Firma : — Stato :	
		Approvatore : D. Ceratto — Data : 08/10/08 — Firma : — Tratt. sup. :	
		Tratt. term. :	

CLASSE	DA-A	f	m	c
	0.5-3	±0.05	±0.1	±0.2
	3.01-6	±0.05	±0.1	±0.3
	6.01-30	±0.1	±0.2	±0.5
	30.01-120	±0.15	±0.3	±0.8
	120.01-400	±0.2	±0.5	±1.2

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