GRAND-DUCHE DE LUXEMBOURG

MINISTERE DES TRANSPORTS

Luxembourg, le 12 juillet 2005
19-21, Boulevard Royal
L-2910 Luxembourg
Tél 478-1 – Télécopieur 241 817 – Télex 1465 CIVAIR LU

REFERENCE: E13*110R00*110R00*0095*00

ANNEXES: Documentation technique

Communication concernant:

Communication concerning:
- **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  ~~approval withdrawn~~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'organe GNC en application du Règlement N° 110
of a type of CNG component pursuant to Regulation N° 110

Homologation N°:
Approval number: E13*110R00*110R00*0095*00

Marque d'homologation:
Approval mark: 

110 R-000095

1. Organe GNC [(2)]:
CNG component considered [(2)]: not applicable

Réservoir(s) ou bouteille(s):
Container(s) or cylinder(s): not applicable

Témoin de pression:
Pressure indicator: not applicable

Soupape de surpression:
Pressure relief valve: not applicable

Vanne(s) automatique(s):
Automatic valve(s): applicable

Limiteur de débit:
Excess flow valve: not applicable

Capot étanche:
Gas-tight housing: not applicable

Détendeur(s) de pression:
Pressure regulator(s): not applicable

Soupape(s) de contrôle:
Check valve(s): not applicable

Dispositif de surpression:
Pressure relief device: not applicable

Vanne manuelle:
Manual valve: not applicable

Flexibles:
Flexible fuel lines: not applicable

Embout ou réceptacle de remplissage:
Filling or receptacle: not applicable

Mélangeur gaz / air (injecteur(s)):
Gas / air mixer (injector(s)): not applicable

Régulateur de débit:
Gas flow adjuster: not applicable

Mélangeur gas / air (carburateur):
Gas / air mixer (carburettor): not applicable

Module de commande électronique:
Electronic control unit: not applicable

Capteur(s) de pression et de température:
Pressure and temperature sensor(s): not applicable

Filtre(s) à GNC:
CNG filter(s): not applicable

2. Marque de fabrique ou de commerce:
Trade name or mark:

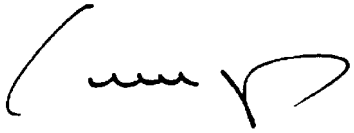
type: A3
trade name or mark: OMB
variants: 1) 12 V coil
2) 24 V coil
Any variant can be supplied with 2 voltage configurations:
versions: 1) for tube fittings M12x1
2) for tube fittings M14x1
3) for tube fittings ¼" NPT
4) for tube fittings G ¼"

3. Nom et adresse du constructeur:
Manufacturer's name and address:

OMB Saleri S.p.A.
Via Rose di Sotto 38/c
I-25126 Brescia (BS)

4. Le cas échéant, nom et adresse du représentant du constructeur:
If applicable, name and address of manufacturer's representative: not applicable

5. Présenté à l'homologation le:
Submitted for approval on: from February to May 2005

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 type-approval tests:	Luxcontrol SA B.P. 349 L-4004 Esch-sur-Alzette
7.	**Date du procès-verbal délivré par ce service :** Date of test report issued by that service :	07.07.2005
8.	**Numéro du procès-verbal:** Number of test report:	LCA 54 351 015 4
9.	**L'homologation est:** Approval:	granted
10.	**Raison(s) de l'extension (le cas échéant):** Reason(s) of extension (if applicable):	not applicable
11.	**Lieu:** Place:	Luxembourg
12.	**Date:** Date:	12 juillet 2005
13.	**Signature:** Signature:	**Pour le Ministre des Transports**  **Paul Schmit** **Commissaire du Gouvernement**
14	**Des copies des documents soumis dans le dossier d'homologation ou d'extension d'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

Additif
Addendum

1.	**Renseignements complémentaires concernant l'homologation d'un type d'organe GNC en application du Règlement N° 110 [(1)]:** Additional information concerning the type-approval of a type of CNG components pursuant to regulation N° 110 [(1)]:	
1.1.	**Réservoir(s) ou bouteille(s):** Container(s) or cylinder(s):	not applicable
1.1.1.	**Dimensions:** Dimensions:	not applicable
1.1.2.	**Matériau:** Material:	not applicable
1.2.	**Témoin de pression:** Pressure indicator:	not applicable
1.2.1.	**Pression(s) de fonctionnement:** Working pressure(s):	not applicable
1.2.2.	**Matériau:** Material:	not applicable
1.3.	**Soupape de surpression (soupape de décompression):** Pressure relief valve (discharge valve):	
1.3.1.	**Pression(s) de fonctionnement:** Working pressure(s):	not applicable
1.3.2.	**Matériau:** Material:	not applicable
1.4.	**Vanne(s) automatique(s):** Automatic valve(s):	
1.4.1.	**Pression(s) de fonctionnement:** Working pressure(s):	max. 26000 kPa
1.4.2.	**Matériau:** Material:	refer to page 4 & 5 of information document
1.5.	**Limiteur de débit:** Excess flow valve:	
1.5.1.	**Pression(s) de fonctionnement:** Working pressure(s):	not applicable
1.5.2.	**Matériau:** Material:	not applicable
1.6.	**Capot étanche:** Gas-tight housing:	not applicable
1.6.1.	**Pression(s) de fonctionnement:** Working pressure(s):	not applicable
1.6.2.	**Matériau:** Material:	not applicable
1.7.	**Régulateur(s) de pression:** Pressure regulator(s):	not applicable
1.7.1.	**Pression(s) de fonctionnement:** Working pressure(s):	not applicable
1.7.2.	**Matériau:** Material:	not applicable

1.8. **Soupape(s) de contrôle ou de antiretour:**
Check valve(s) or non-return valve(s): not applicable

1.8.1. **Pression(s) de fonctionnement:**
Working pressure(s): not applicable

1.8.2. **Matériau:**
Material: not applicable

1.9. **Dispositif de surpression (à déclenchement thermique):**
Pressure relief device temperature triggered):

1.9.1. **Pression(s) de fonctionnement:**
Working pressure(s): not applicable

1.9.2. **Matériau:**
Material: not applicable

1.10. **Vanne manuelle:**
Manual valve:

1.10.1. **Pression(s) de fonctionnement:**
Working pressure(s): not applicable

1.10.2. **Matériau:**
Material: not applicable

1.11. **Flexibles:**
Flexible fuel lines: not applicable

1.11.1. **Pression(s) de fonctionnement:**
Working pressure(s): not applicable

1.11.2. **Matériau:**
Material: not applicable

1.12. **Embout ou réceptacle de remplissage:**
Filling unit or receptacle: not applicable

1.12.1. **Pression(s) de fonctionnement:**
Working pressure(s): not applicable

1.12.2. **Matériau:**
Material: not applicable

1.13. **Mélangeur gaz / air (injecteur(s)):**
Gas / air mixer (injector(s)): not applicable

1.13.1. **Pression(s) de fonctionnement:**
Working pressure(s): not applicable

1.13.2. **Matériau:**
Material: not applicable

1.14. **Régulateur de débit:**
Gas flow adjuster: not applicable

1.14.1. **Pression(s) de fonctionnement:**
Working pressure(s): not applicable

1.14.2. **Matériau:**
Material: not applicable

1.15. **Mélangeur gas / air (carburateur):**
Gas / air mixer (carburettor): not applicable

1.15.1. **Pression(s) de fonctionnement:**
Working pressure(s): not applicable

1.15.2. **Matériau:**
Material: not applicable

1.16.	**Module de commande électronique (pour l'alimentation au GNC):** Electronic control unit (CNG-fuelling):	not applicable
1.16.1.	**Pression(s) de fonctionnement:** Working pressure(s):	not applicable
1.16.2.	**Matériau:** Material:	not applicable
1.17.	**Capteur(s) de pression et de température:** Pressure and temperature sensor(s):	
1.17.1.	**Pression(s) de fonctionnement:** Working pressure(s):	not applicable
1.17.2.	**Matériau:** Material:	not applicable
1.18.	**Filtre(s) à GNC:** CNG filter(s):	not applicable
1.18.1.	**Pression(s) de fonctionnement:** Working pressure(s):	not applicable
1.18.2.	**Matériau:** Material:	not applicable

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(1) **Indiquer les tolérences.**
Indicate the tolances.

(2) **Biffer la mention inutile.**
Strike out what does not apply.

GRAND-DUCHE DE LUXEMBOURG

MINISTERE DES TRANSPORTS

Luxembourg, le 12 juillet 2005
19-21, Boulevard Royal
L-2910 Luxembourg
Tél 478-1 – Télécopieur 241 817 – Télex 1465 CIVAIR LU

REFERENCE: E13*110R00*110R00*0095*00

ANNEXES: Documentation technique

Index du dossier d'homologation
Index to type-approval

Numéro d'homologation:
Approval number: E13*110R00*110R00*0095*00

Révision:
Revision: 00

Marque de fabrique ou de commerce:
Trade name or mark: OMB

Type:
Type: A3

1. Procès-verbal d'essai:
Test report: LCA 54 351 015 4

- Technical report: Page 1 to 6
- Index: Annex A – Page 1

2. Dossier du constructeur:
Report of the manufacturer:

- index of information document: refer to Annex 1 - Page 1 of technical report

3. Autres documents annexés:
Other documents annexed: not applicable

4. Date de délivrance de l'homologation initiale:
Date of issue of initial type approval: 12.07.2005

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: not applicable

TECHNICAL REPORT

No.: LCA 54 351 015 4

Inspection concerning the

Specific components of motor vehicles using compressed natural gas (CNG) in their propulsion system

performed according to

ECE – Regulation No. 110

Type: **A3**
Manufacturer: **OMB Saleri S.p.A.**
Via Rose di Sotto 38/c
I-25126 Brescia (BS)

Extension -- to ECE Type Approval no.: not applicable

Index:

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

E13*110R00*110R00*0095*00
Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS EN 45011
Accréditation N° 5/001 (Portée communiquée sur demande)

…

Luxcontrol SA
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BP 349
L-4004 Esch-sur-Alzette
Tél:++352-54.77.11-222
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E-Mail:homologation@luxcontrol.com
Int.:www.luxcontrol.com
CCPL: LU80 1111 0581 9794 0000
BGLL: LU56 0030 1612 0727 0000
BCEE: LU95 0019 1100 7069 5000
TVA: LU 113 536 61
RC Lux.: n° B15664

1. General

1.1. Test Provisions

The inspection was carried out according to the requirements of ECE-Regulation No. 110 including Supplement 3 to the 00 series of amendments, which entered into force on August 12, 2004.

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-R110

[1.] CNG equipment considered:

automatic valve: type: **A3** (cut-off solenoid valve)

Any variant can be supplied with 2 voltage configurations:
1: 12V coil
2: 24V coil
versions: 1: for tube fittings M12x1
2: for tube fittings M14x1
3: for tube fittings 1/4" NPT
4: for tube fittings G 1/4"

[2.] trade name or mark:

OMB Saleri S.p.A.

[3.] Manufacturer's name and address:

OMB Saleri S.p.A.
Via Rose di Sotto 38/c
I-25126 Brescia (BS)

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

not applicable

[5.] Submitted for approval on: **February to May 2004**

[10.] Reason(s) of extension:

not applicable

1.2.2. [] Numbering according to the communication concerning the approval of ECE-R110, Annex 2B –Addendum

[1.] Additional information concerning the type approval of a type of CNG components pursuant to Regulation No 110:

[1.1.] - [1.3.] **not applicable**

[1.4.] **Automatic valve**

[1.4.1.] Working pressure(s): **26000 kPa**
[1.4.2.] Material:
- O'rings, flat seal: **FPM 80, FPM 90, viton 70**
- body / cap **CW 617N / CW 614N**
- other parts (see information document): **metallic parts**

[1.5.] - [1.18.] **not applicable**

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):

- not applicable

2.2. Inspection items

	Inspectors	Location of test:	Date of receipt of test item:	Date of test:
Main	**D. Durazzi**	**CSI vle Lombardia, 20 I-2021 Bollate (MI)**	**February 2004**	**February to May 2004**

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 CNG is compatible with it.

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

2.2.2. Inspections

Device	Classification pressure
automatic valve	26000 kPa

2.2.2.1. Automatic valve (according to Annex 4A; class 0 devices):

Tests	Test results	Line item
Overpressure test	no rupture or permanent distortion at pressure test of 1,5 time the mamimum working pressure maintained for a period of 60 seconds	Annex 5A
External leakage test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under a pressure of 1,5 time the maximum working pressure at room temperature, - 40ºC and + 85ºC	Annex 5B
High temperature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under the maximum working pressure at temperature + 85ºC, after 8 hours conditiong	Annex 5B
Low temterature test	Leakage from stem or body seals or other joints less than 15 cm^3 / hour under1,5 time the maximum working pressure at temperature - 40ºC, after 8 hours conditiong	Annex 5B
Internal leakage test	requirements fulfilled	Annex 5C
Durability test	requirements fulfilled	Annex 5L
CNG compatibility	all plastic parts fulfill the requirements	Annex 5D
Corrosion resistance	requirements fulfilled	Annex 5E
Resistance to dry heat	all plastic parts fulfill the requirements	Annex 5F
Ozone aging	all plastic parts fulfill the requirements	Annex 5G
Temperature cycle	requirements fulfilled	Annex 5H
Vibration resistance	requirements fulfilled	Annex 5N
Operating temperatures	Components designed to operate at temperatures between –40°C and +85°C	Annex 5O
General provisions	requirements fulfilled	Par. 6.1.
Provisions regarding the approval of the automatic valve, check valve, pressure relief valve, pressure relief device and excess flow valve	requirements fulfilled	Annex 4A

…

2.3. **Remarks**

The thermal fuse and the burst disk are considered to be a pressure relief device, and can be considered as accessories. Nevertheless all the requirements concerning the fuse itself and the disk membrane have been verified.

- The fuse and the disk respectively open at the prescribed temperature and pressure between the tolerance bands; they have both been submitted to the tests prescribed in Annex 4A, paragraph 4.2., meeting all the requirements for "class 0". It is mounted in the gaseous zone of the container.
- All synthetic materials have been tested according to Annexes 5D, 5F and 5G of the Regulation; they fulfil all the requirements.
- 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.

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 and versions as described in annex B
- the functions as described in annex B

3.2. **Remarks**

3.2.1. Main report:

not applicable

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. 110 including Supplement 3 to the 00 series of amendments, which entered into force on August 12, 2004.

Esch/Alzette, 07 July 2005

Luxcontrol s.a.
Service Homologation-automobile

David Durazzi
Ingénieur-Inspecteur

Patrizio Vinciarelli
Ingénieur-Inspecteur

Annex

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

EEC type-approval No.: not applicable

Main Report

Technical Report No.: LCA 54 351 015 4 Pages 1 to 6

Composition of the Annex:

A: Index Page 1
B: Information folder Page 1 to 13

Index to the information folder:

- manufacturer's information document (page 1 to 3)
- drawing of the automatic valve (page 4 to 13)

OMB SALERI S.p.A
Via Rose di Sotto 38/C
25126 BRESCIA – ITALY
P.C. e C.F. 01538780170

AUTOMATIC VALVE
Cut-off Solenoid valve
A3 Type

E13*110R00*110R00*0095*00
Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS EN 45011
Accréditation N° 5/001 (Portée communiquée sur demande)

OMB SALERI SpA Via Rose di Sotto 38/C
25126 Brescia (BS) Italy
TEL.: 030-3195801 FAX: 030-3732872
E-MAIL: info@omb-saleri.it
VAT/P.IVA: IT01538780170,
Reg. soc. Trib. BS 17913, CCIAA 243222
Capitale Sociale 1.100.000. € i.v.

Our Reference: OM05E087
Brescia 26/01/05

TECHNICAL DATA SHEET

AUTOM,ATIC VALVE
CUT OFF SOLENOID VALVE
TYPE A3
FOR CNG AUTOMOTIVE USE

SUMMARY

1. INTRODUCTION _____ 2

2. VARIANTS _____ 2

3. CLASSIFICATION OF COMPONENTS _____ 2

4. SOLENOID VALVE _____ 2

OMB SALERI SpA Via Rose di Sotto 38/C
25126 Brescia (BS) Italy
TEL.: 030-3195801 FAX: 030-3732872
E-MAIL: info@omb-saleri.it
VAT/P.IVA: IT01538780170,
Reg. soc. Trib. BS 17913, CCIAA 243222
Capitale Sociale 1.100.000. € i.v.

1. INTRODUCTION

The cut off solenoid valve **OMB Saleri** A3 type, described here in, is intended to be used for CNG automotive use. The component is pursuant to R110 Regulation and it combines the following components:

Solenoid valve electronically controlled

A brief description of components is illustrated below.

2. VARIANTS

The **OMB Saleri** A3 type cut off valve will be supplied as:

1. 12V coil
2. 24V coil

Fon any different kind of versions and variants, the product should be provided with different female tube fittings.

Tube fittings :

1. M12x1
2. M14x1
3. ¼" NPT
4. G ¼"

3. CLASSIFICATION OF COMPONENTS

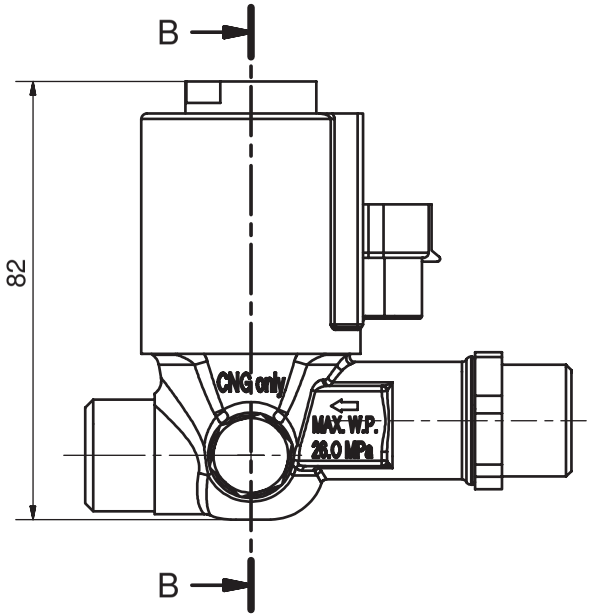
- **AUTOMATIC VALVE**

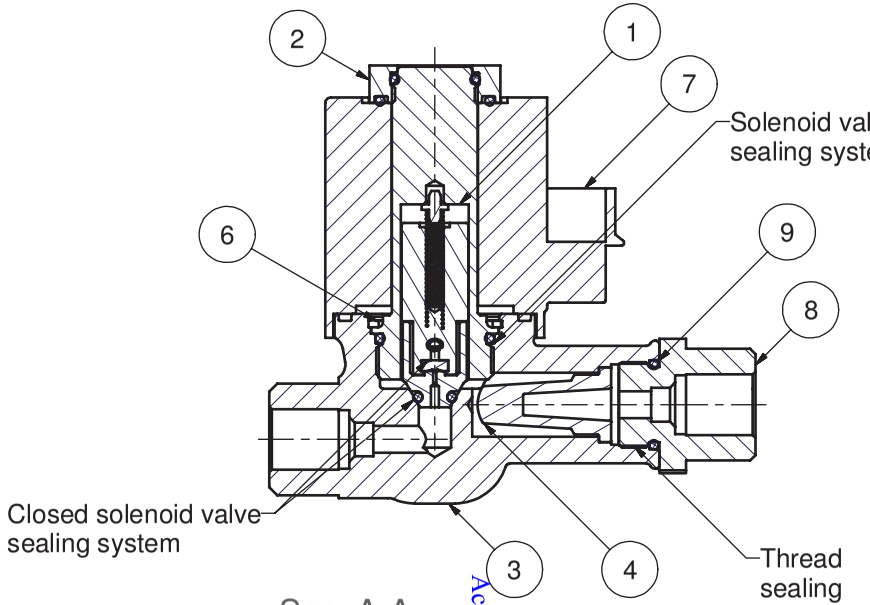
Functional Characteristics

Component Classification:	Class 0
Working Pressure:	26000 kPa
Working Temperature:	-40°C ÷ +85°C

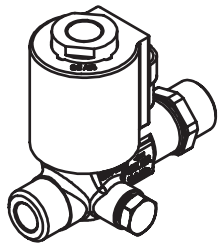
4. SOLENOID VALVE

The solenoid valve (Drawing SK-693.00.750 and its components) electronically controlled, allows the gas flow through the valve. The solenoid valve is normally closed, when the coil is switched on the pilot (3-4-5-8) moves opening a hole. The gas flows through the hole and reaches the out-pipe connections. Switching off the coil, the pilot closes automatically cutting-off the gas flow. The solenoid valve allows also the tank filling. With the coil switched off during the filling phase, the gas flow (due to pressure difference between the In-pipe and the reservoir) pulls up the pilot pressing a spring (9) and opening the gas flowing area through the valve to the tank.

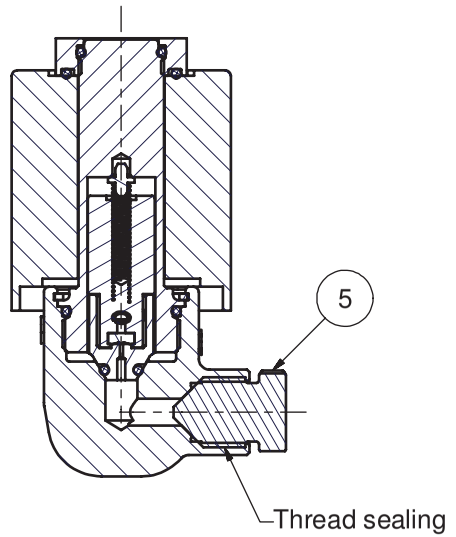




Sec. A-A



Iso view (1 : 2)



Sec. B-B

Elenco parti				
POS	DESCRIZIONE	QTÀ	MATERIALE	CODICE
1	ASSIEME ELETTROVALVOLA	1		SK-69300750
2	ASSIEME DADO CHIUSURA BOBINA	1		SK-69300760
3	CORPO LAVORATO	1	CW617N	SK-69901101
4	FILTRO CF 880-25	1	FILO AISI 304L	SK-69906004
5	TAPPO MANOMETRO	1	CW614N	SK-69902005
6	BENZING SPRENGRING SP I 24	1	ACCIAIO INOX	SK-69306002
7	BOBINA 12V - 24V	1	-	SK-69306770-71
8	RACCORDO DI INGRESSO	1	AVP	SK-69902006
9	OR 13.29X1.78	1	FPM 80	69306763

E13*110R00*110R00*0095*00
Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS EN 45011
Accréditation N° 5/001 (Portée communiquée sur demande)

MODIFICA	N°	DESCRIZIONE MODIFICA	DATA	FIRMA	VISTO
	1				

TOLLERANZE GENERALI UNI EN 22768 cl. C
RICAVATO DA:

NON INTERPRETATE I DISEGNI SE AVETE DUBBI CHIEDETE	FORMATO FOGLIO	A3	SCALA 1:1	DATA 07/03/2005	DISEGN. AC	CONTR.	TRATTAMENTO	MASSA 0,758 kg

RIPRODUZIONE E/O DIFFUSIONE VIETATA A TERMINI DI LEGGE

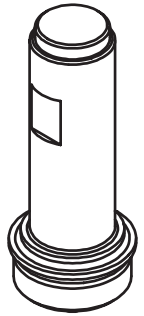
OMB S.p.A. BRESCIA ITALY

DENOMINAZIONE: ASSIEME EV CUT OFF 12V - 24V

MATERIALE:

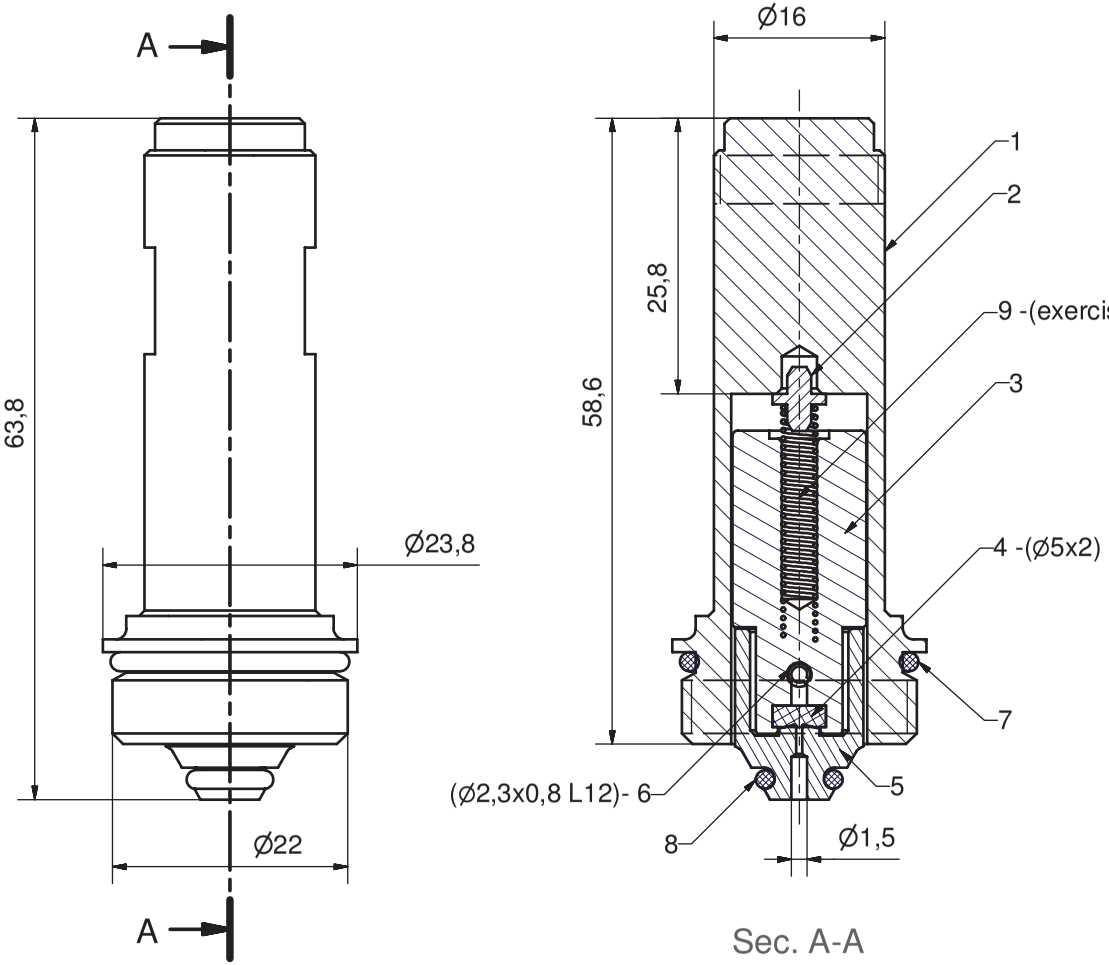
GRUPPO: MTV CNG - ELETTROVALVOLA CUT OFF

CODICE DISEGNO: SK-69900100



Iso view
(1 : 1)

E13*110R00*110R00*0095*00
Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS EN 45011
Accréditation N° 5/001 (Portée communiquée sur demande)



Sec. A-A

Elenco parti

POS	DESCRIZIONE	QTÀ	MATERIALE	CODICE
7	OR 18.77X1.78	1	FPM 80	69306209
1	TUBO DI SCORRIMENTO	1	AISI 430F	69306751
2	PIOLO DISTANZIALE	1	AISI 316	69302752
3	NUCLEO MOBILE ITALM.	1	AISI 430F	69302756
4	GUARNIZIONE PIANA	1	FPM 90	69306759
5	PUNTALE	1	AISI 316	69302758
6	SPINA 2X12 UNI 6873	1	AISI 302	69306755
8	OR 4.47X1.78	1	FPM 90	69306754
9	MOLLA ELETTROVALVOLA	1	AISI 302	69306753

MODIFICA

N°	DESCRIZIONE MODIFICA	DATA	FIRMA	VISTO
3				
2				
1				

TOLLERANZE GENERALI UNI EN 22768 cl. C

RICAVATO DA:

NON INTERPRETATE I DISEGNI SE AVETE DUBBI CHIEDETE	FORMATO FOGLIO	SCALA	DATA	DISEGN.	CONTR.	TRATTAMENTO	MASSA
	A3	2:1	28/02/2005	AC			0,102 kg

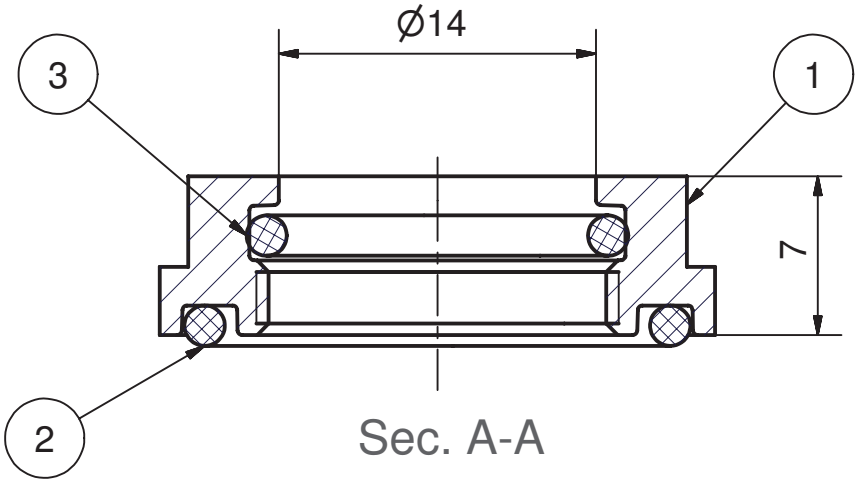
OMB S.p.A. BRESCIA ITALY

DENOMINAZIONE
ASSIEME ELETTROVALVOLA

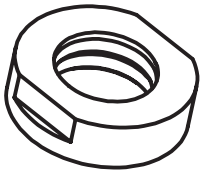
MATERIALE

GRUPPO
C00012-GRUPPO ELETTROVALVOLA

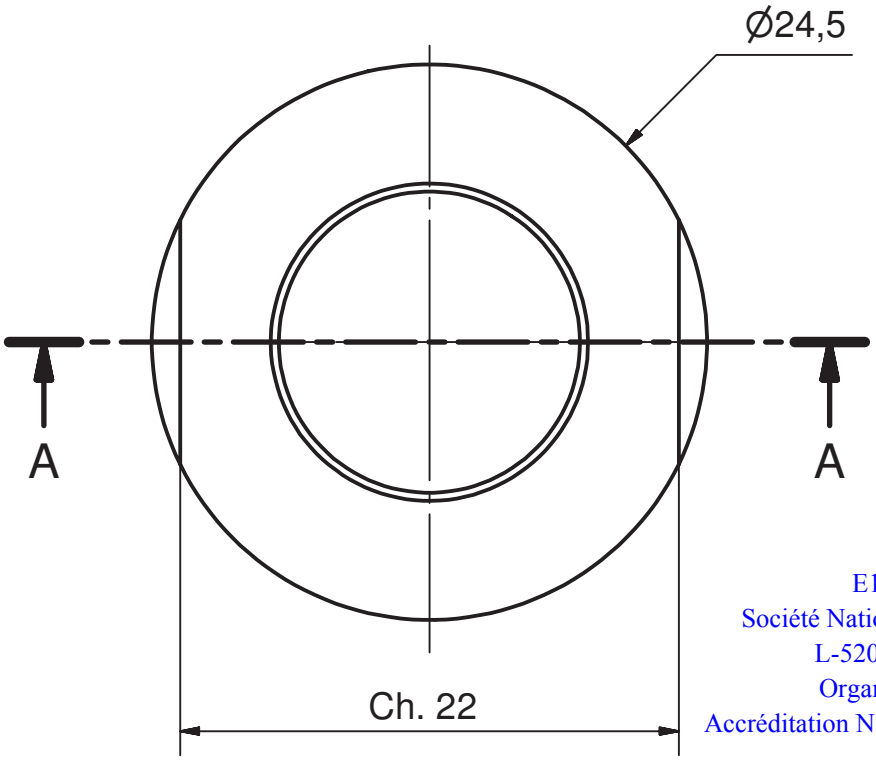
CODICE DISEGNO
SK-69300750



Sec. A-A



Iso view
(1 : 1)



E13*110R00*110R00*0095*00
Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS EN 45011
Accréditation N° 5/001 (Portée communiquée sur demande)

Elenco parti

POS	DESCRIZIONE	QTÀ	MATERIALE	CODICE
1	DADO CHIUSURA BOBINA	1	AVP - 9SMnPb36	69302761
2	OR 18.77 X 1.78	1	VITON 70	69306762
3	OR 13.29X1.78	1	FPM 80	69306763

MODIFICA N°	DESCRIZIONE MODIFICA	DATA	FIRMA	VISTO
3				
2				
1				

TOLLERANZE GENERALI UNI EN 22768 cl.
RICAVATO DA:

NON INTERPRETATE I DISEGNI SE AVETE DUBBI CHIEDETE	FORMATO FOGLIO	A4	SCALA	DATA	DISEGN.	CONTR.	TRATTAMENTO	MASSA
			3:1	07/03/2005	AC			

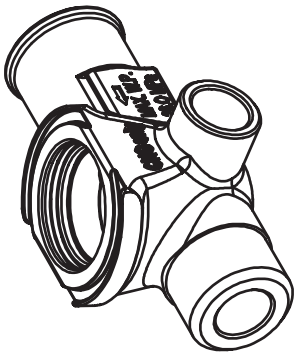
OMB S.p.A. BRESCIA ITALY

DENOMINAZIONE: ASSIEME DADO CHIUSURA BOBINA

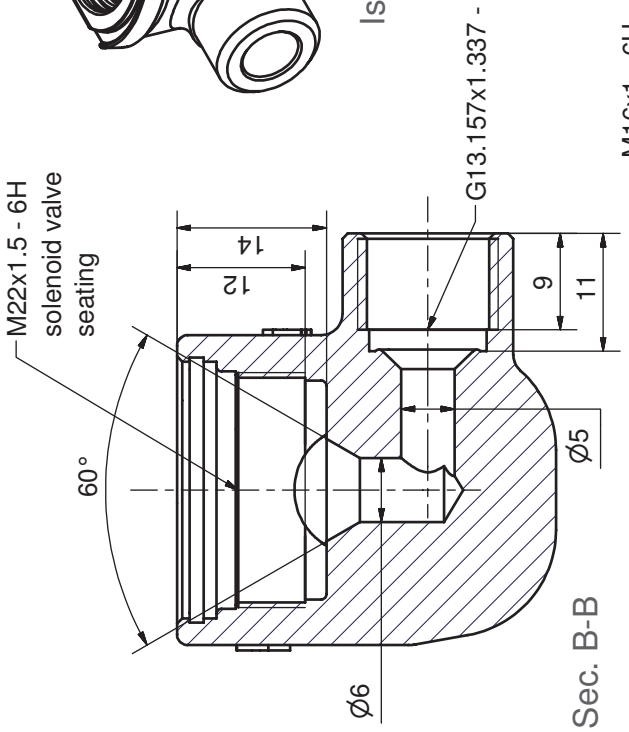
MATERIALE:

GRUPPO: GRUPPO ELETTROVALVOLA

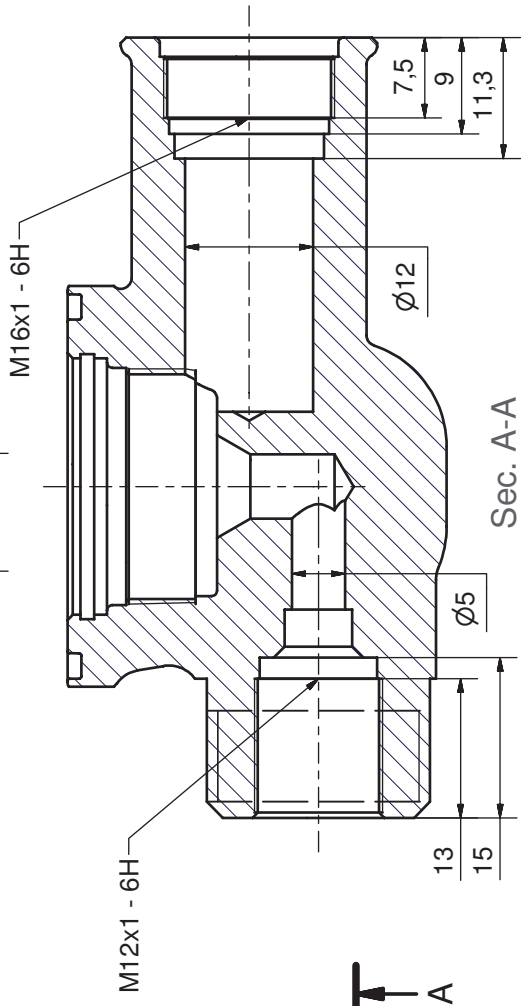
CODICE DISEGNO: SK-69300760



Iso view (1 : 1)



Sec. B-B



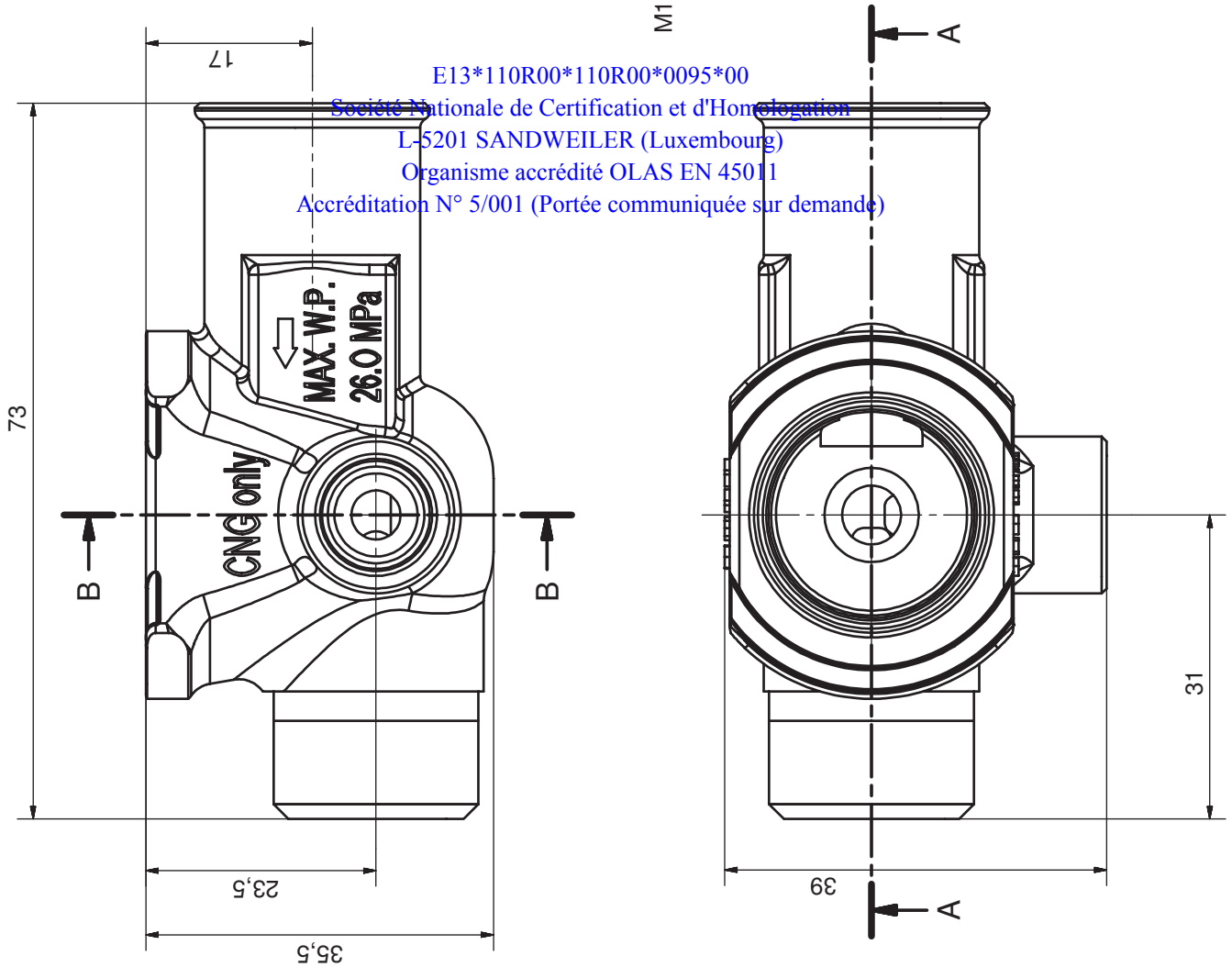
Sec. A-A

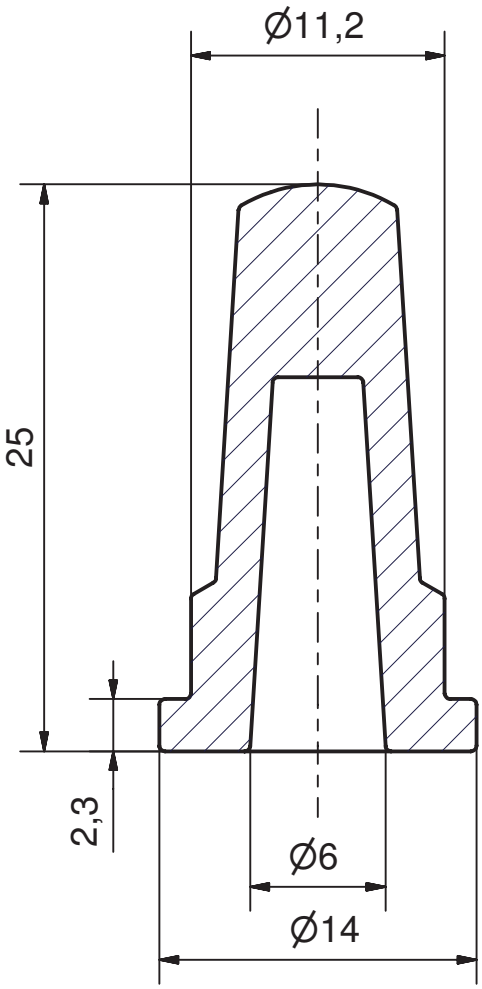
TOLLERANZE GENERALI UNI EN 22768 cl. C									
RICAVATO DA:								TRATTAMENTO	MASSA 0,259 kg
								MATERIALE CW617N	
									CODICE DISEGNO SK-69901101
							VISTO CONTR.		
						FIRMA DISEGN.	AC		
					DATA	DATA	28/02/2005		
				DESCRIZIONE MODIFICA	SCALA	2:1	DENOMINAZIONE CORPO LAVORATO		GRUPPO MTV CNG - EV CUT-OFF
					FORMATO FOGLIO	A3			
3									
2									
1									
N°									
MODIFICA									

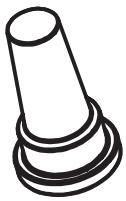
NON INTERPRETATE I DISEGNI SE AVETE DUBBI CHIEDETE

RIPRODUZIONE E/O DIFFUSIONE VIETATA A TERMINI DI LEGGE

OMB S.p.A. BRESCIA ITALY

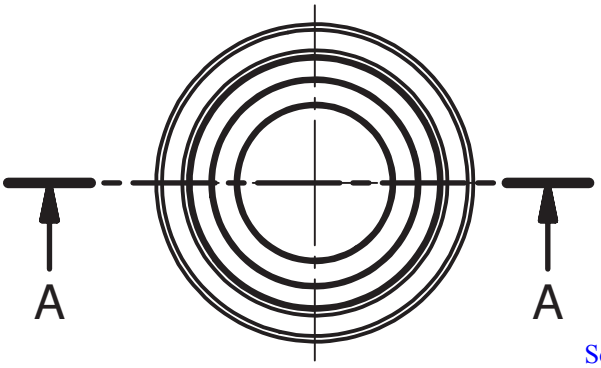






Iso view (1 : 1)

Sec. A-A



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

MODIFICA	N°	DESCRIZIONE MODIFICA	DATA	FIRMA	VISTO
	3				
	2				
	1				

TOLLERANZE GENERALI UNI EN 22768 cl.

RICAVATO DA:

NON INTERPRETATE I DISEGNI SE AVETE DUBBI CHIEDETE

FORMATO FOGLIO	SCALA	DATA	DISEGN.	CONTR.	TRATTAMENTO	MASSA
A4	3:1	07/03/2005	AC			1,378 g

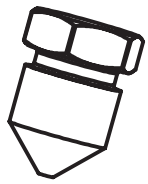
OMB S.p.A. BRESCIA ITALY

DENOMINAZIONE: FILTRO CF 880-25

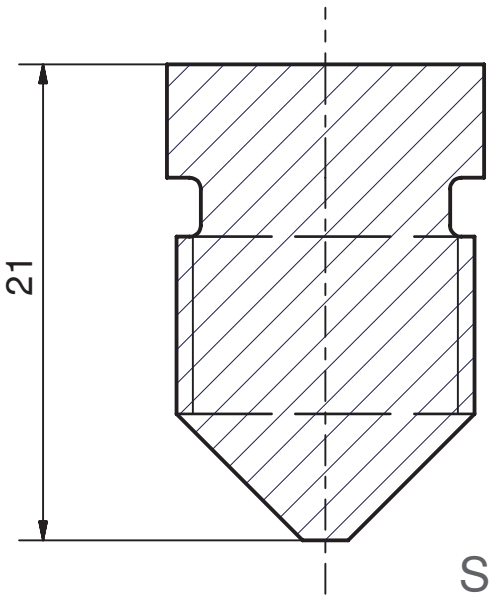
MATERIALE: FILO AISI 304L

GRUPPO: MTV CNG - EV CUT-OFF

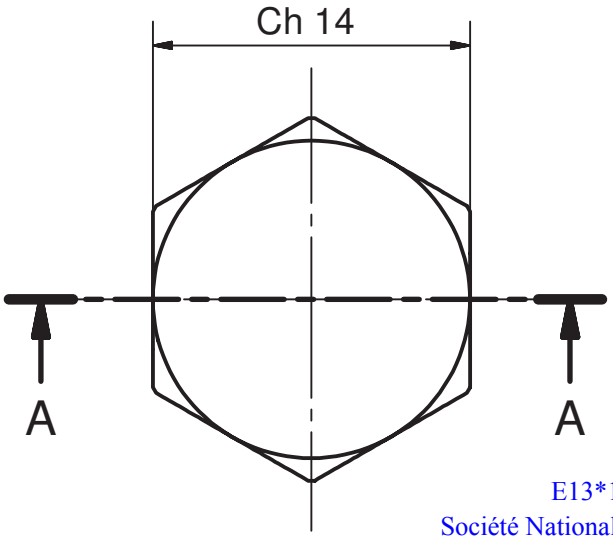
CODICE DISEGNO: SK-69906004



Iso view
(1 : 1)



Sec. A-A



E13*110R00*110R00*0095*00
Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS EN 45011
Accréditation N° 5/001 (Portée communiquée sur demande)

MODIFICA	N°	DESCRIZIONE MODIFICA	DATA	FIRMA	VISTO
	3				
	2				
	1				

TOLLERANZE GENERALI UNI EN 22768 cl.
RICAVATO DA:

RIPRODUZIONE E/O DIFFUSIONE VIETATA A TERMINI DI LEGGE

NON INTERPRETATE I DISEGNI SE AVETE DUBBI CHIEDETE

FORMATO FOGLIO	SCALA	DATA	DISEGN.	CONTR.	TRATTAMENTO	MASSA
A4	3:1	07/03/2005	AC			20,612 g

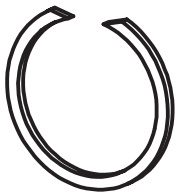
OMB S.p.A. BRESCIA ITALY

DENOMINAZIONE
TAPPO MANOMETRO

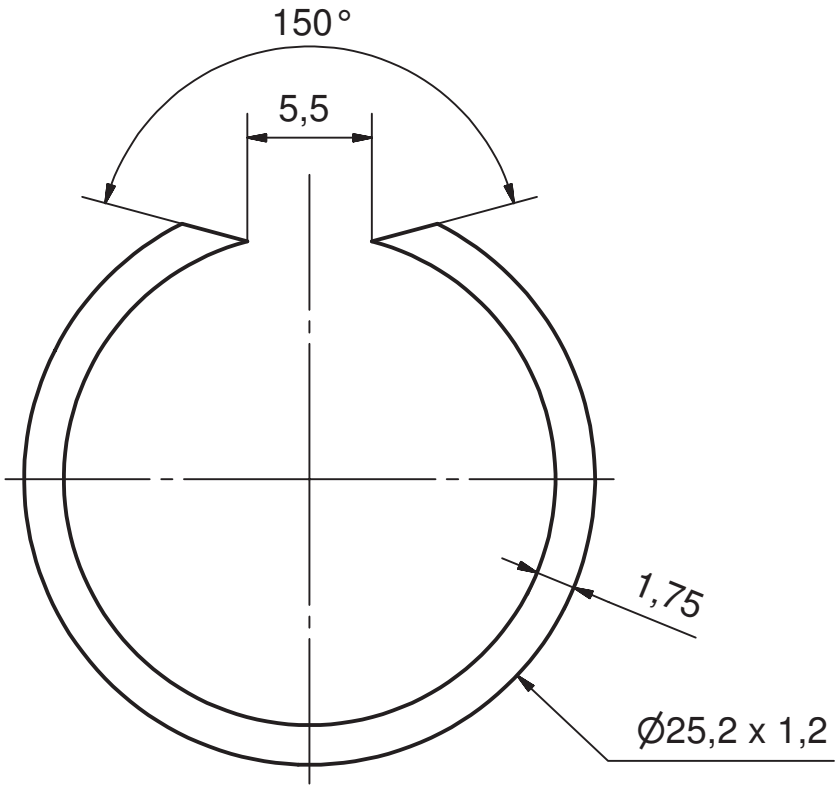
MATERIALE
CW614N
UNI-EN 12164

GRUPPO
MTV CNG - EV CUT-OFF

CODICE DISEGNO
SK-69902005



Iso view
(1 : 1)



E13*110R00*110R00*0095*00
Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS EN 45011
Accréditation N° 5/001 (Portée communiquée sur demande)

MODIFICA	N°	DESCRIZIONE MODIFICA	DATA	FIRMA	VISTO
	3				
	2				
	1				

TOLLERANZE GENERALI UNI EN 22768 cl.
RICAVATO DA:

RIPRODUZIONE E/O DIFFUSIONE VIETATA A TERMINI DI LEGGE

NON INTERPRETATE I DISEGNI SE AVETE DUBBI CHIEDETE

FORMATO FOGLIO	SCALA	DATA	DISEGN.	CONTR.	TRATTAMENTO	MASSA
A4	3:1	07/03/2005	AC			0,001 kg

OMB S.p.A. BRESCIA ITALY

DENOMINAZIONE: BENZING SPRENGRING SP I 24

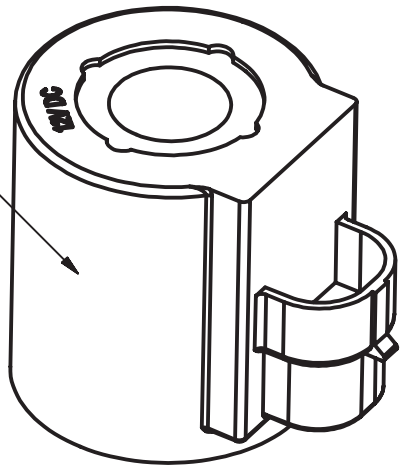
MATERIALE: ACCIAIO INOX

GRUPPO: MTV CNG

CODICE DISEGNO: SK-69306002

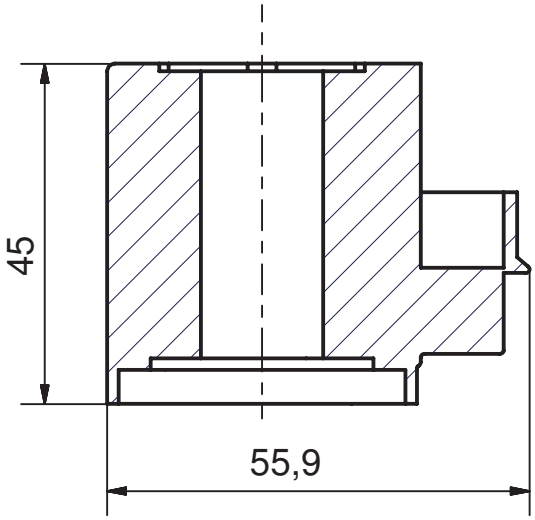
MARKING AREA FOR

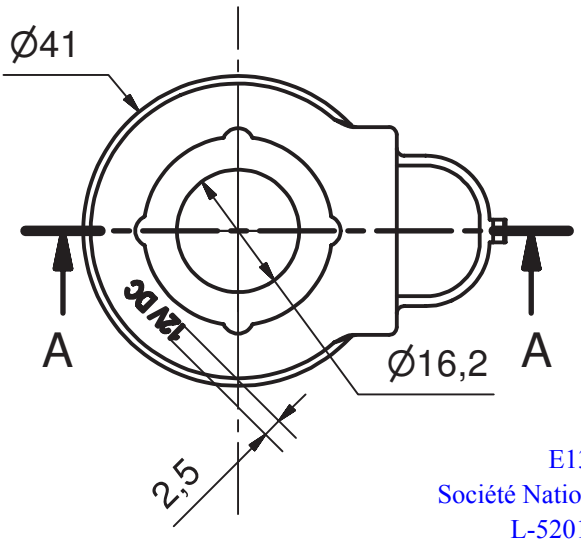
Bar code laber
Identification for voltage
and characteristics of coil



Iso view

Sec. A-A





E13*110R00*110R00*0095*00
Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS EN 45011
Accréditation N° 5/001 (Portée communiquée sur demande)

MODIFICA	N°	DESCRIZIONE MODIFICA	DATA	FIRMA	VISTO
	3				
	2				
	1				

TOLLERANZE GENERALI UNI EN 22768 cl.
RICAVATO DA:

NON INTERPRETATE I DISEGNI SE AVETE DUBBI CHIEDETE

FORMATO FOGLIO	SCALA	DATA	DISEGN.	CONTR.	TRATTAMENTO	MASSA
A4	1:1	07/03/2005	AC			0,199 kg

OMB S.p.A. BRESCIA ITALY

DENOMINAZIONE
BOBINA 12V

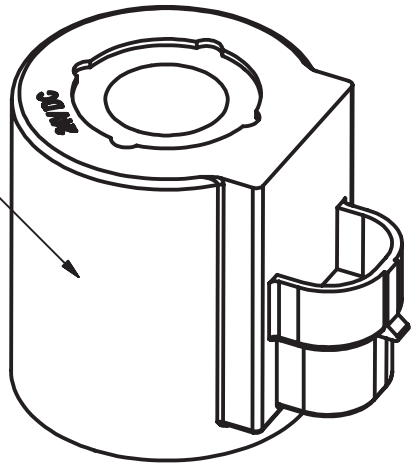
MATERIALE
-

GRUPPO
GRUPPO ELETTROVALVOLA

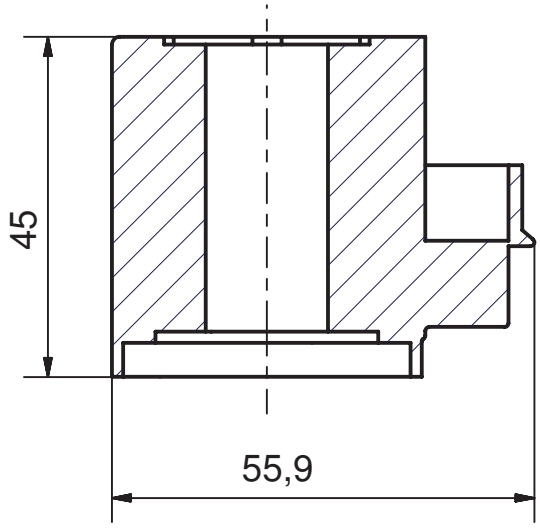
CODICE DISEGNO
SK-69306770

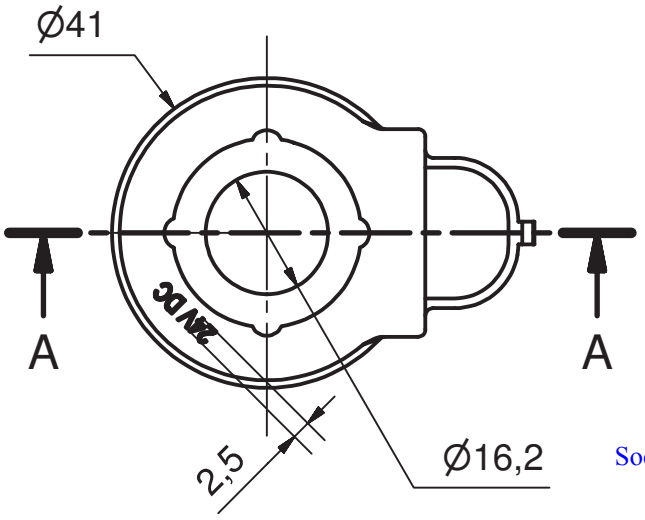
MARKING AREA FOR

Bar code label
Identification for voltage
and characteristics of coil



Sec. A-A





E13*110R00*110R00*0095*00
Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS EN 45011
Accréditation N° 5/001 (Portée communiquée sur demande)

MODIFICA	N°	DESCRIZIONE MODIFICA	DATA	FIRMA	VISTO
	3				
	2				
	1				

TOLLERANZE GENERALI UNI EN 22768 cl.
RICAVATO DA:

NON INTERPRETATE I DISEGNI SE AVETE DUBBI CHIEDETE

FORMATO FOGLIO	SCALA	DATA	DISEGN.	CONTR.	TRATTAMENTO	MASSA
A4	1:1	07/03/2005	AC			0,199 kg

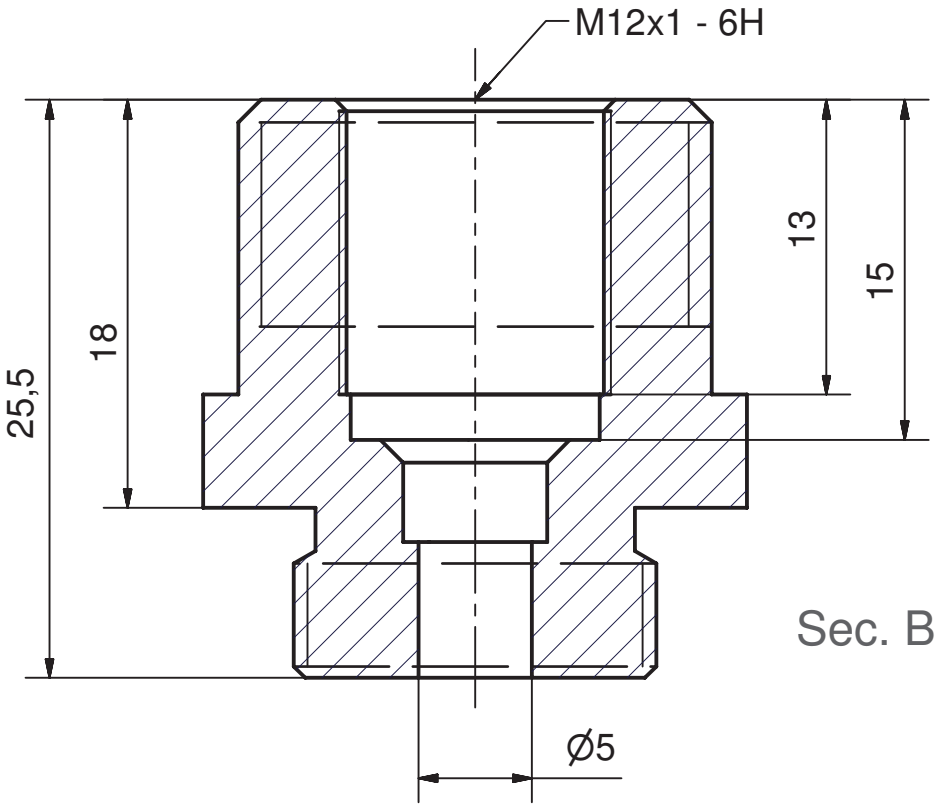
OMB S.p.A. BRESCIA ITALY

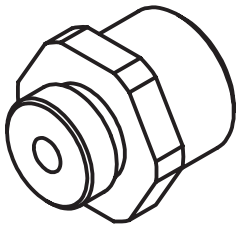
DENOMINAZIONE
BOBINA 24V

MATERIALE
-

GRUPPO
GRUPPO ELETTROVALVOLA

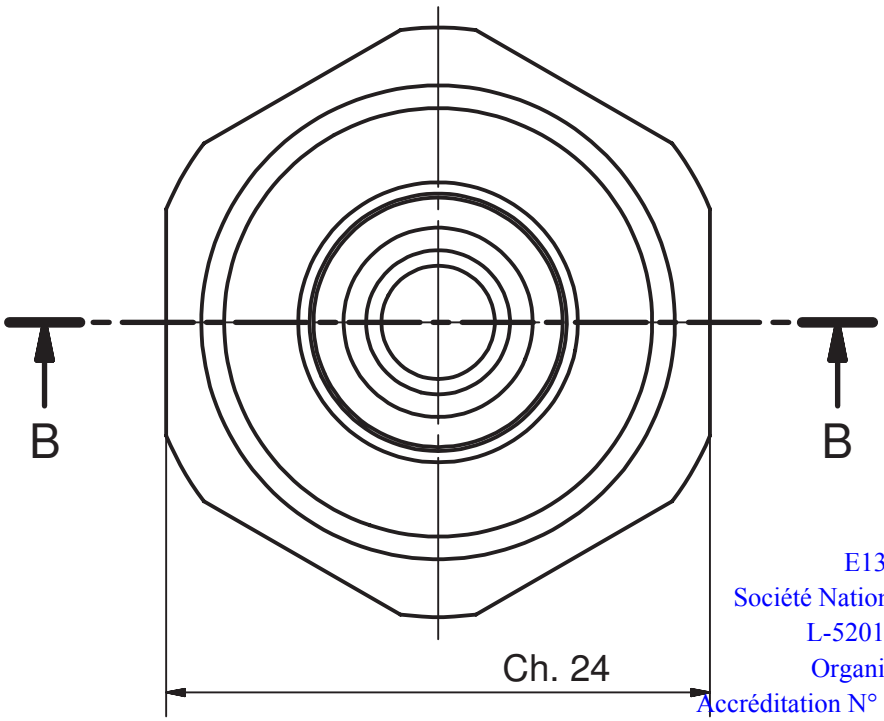
CODICE DISEGNO
SK-69306771





Iso view
(1 : 1)

Sec. B-B



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Société Nationale de Certification et d'Homologation
L-5201 SANDWEILER (Luxembourg)
Organisme accrédité OLAS EN 45011
Accréditation N° 5/001 (Portée communiquée sur demande)

MODIFICA	N°	DESCRIZIONE MODIFICA	DATA	FIRMA	VISTO
	3				
	2				
	1				

TOLLERANZE GENERALI UNI EN 22768 cl.

RICAVATO DA:

RIPRODUZIONE E/O DIFFUSIONE VIETATA A TERMINI DI LEGGE

NON INTERPRETATE I DISEGNI SE AVETE DUBBI CHIEDETE

FORMATO FOGLIO	SCALA	DATA	DISEGN.	CONTR.	TRATTAMENTO	MASSA
A4	3:1	07/03/2005	AC			0,051 kg

OMB S.p.A. BRESCIA ITALY

DENOMINAZIONE
RACCORDO DI INGRESSO

MATERIALE
AVP

GRUPPO
MTV CNG - EV CUT OFF

CODICE DISEGNO
SK-69902006