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ONLY THOSE PERSONS WHO HAVE READ THESE TECHNICAL INSTRUCTIONS THOROUGHLY AND UNDERSTAND THEM COMPLETELY SHALL BE AUTHORIZED TO USE THIS PRODUCT.

IMPORTANT NOTICE

If this product is being purchased or used for incorporation into another product (for example, a compressed gas valve for incorporation into a compressed gas cylinder), then **CEODEUX LPG Valves Technology S.A.** reminds the end product manufacturer that any and all product user warning, instructions or product labels are the responsibility of the end product manufacturer.

C O N T E N T

1. DESCRIPTION

The solenoid service valve Type A150 and A151 is intended and approved to be installed on fuel containers of LP-Gas fueled automotive vehicles or LP-Gas fueled industrial trucks employing non-removable type containers. This PRODUCT is not intended for any other installation or purpose. If the product user has any question regarding this PRODUCT proper application or purpose, the product user should call *352-32 78 32-1. Any non-approved use or application and/or any non-approved modification of the PRODUCT or its use or application may result in a serious accident or personal injury for which **CEODEUX LPG Valves Technology S.A.** will not be responsible.


2. GENERAL SAFETY REQUIREMENTS

- All users must comply fully with all national or local laws, rules or regulations in force.
- Anyone using this product must be thoroughly familiar with these instructions and other applicable product instructions and manuals.



This PRODUCT is a component part designed for use with LPG cylinders only. The final manufacturer is responsible for preparing appropriate and adequate instructions and warnings for the ultimate product user.

- The maintenance instructions outlined below should be incorporated into any product manual or instruction label.
 - Failure to follow any instruction or warning within this instruction manual or on any product label may result in a serious accident involving either personal injury, property damage or both.
- 2.1 Before every use, check the condition of the valve (cleanness, condition of threads), inform yourself about standards and safety regulations for valves used with gases.
- 2.2 Respect given torques for assembling the valve on the tank

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- 2.3 This product is designed and approved for the use with LPG tanks. Every other use or application is not permitted without a written autorisation by our technical Department.
- 2.4 Never disassemble a valve.
- 2.5 Never grease a valve (especially the inlet thread).
- 2.6 Never disassemble a valve from a tank under pressure.
- 2.7 Use only materials with cleanness surfaces and compatible with the specified gaz, the specified pressures and the desired flow.
- 2.8 The manufacturer of the end product has to look after the cleanness of the tank, which has to be free of grease and metallic, plastic or other particles.
- 2.9 The valve has to be stored in a dry and well tempered environment in its original packaging without any influence of sun or ultraviolet radiation.
- 2.10 The devices should not be subjected to any clash or impact or deformation: It is not permitted to use a deformed or damaged valve.
- 2.11 Never use a direct flame near the installation.
- 2.12 Never modify or remove the markings on the Valve.
- 2.13 All users must strictly respect all national or local laws, rules or regulations in force.
- 2.14 The manufacturer of the end product is responsible for any personal injury, material or immaterial accident or dammaging caused by a non-approved fitting or failure of maintenance.
- 2.15 The customer has to assure an appropriate transportation and handling of this product. **CEODEUX LPG Valves Technology S.A.** is not responsible if the product has been transported or handled in an inappropriate way and especially when its specific original packaging looks dammaged. In this case the customer has to inform the manufacturer **CEODEUX LPG Valves Technology S.A.** immediately.

3. TECHNICAL DATA

Working pressure	30 bar max.
Working Temperature	-40°C to +70°C
For use with following gases	Propane, Butane or mixture of both (LPG)
Inlet connection	¾" -14NPT
Outlet connection	In reference to customer's order
Markings	Type, 3 Stars, Date of production, Listing No, Classe 3

Subject with modification without preliminary opinion

4. INSTALLATION AND HANDLING INSTRUCTIONS

The fitting of the Valve has to be done in the following order:

- 4.1 Select the proper valve according to the rated voltage (see valve and solenoid markings)
- 4.2 Use an appropriate sealing product for the threads, which does not interfere with the correct function of the valve (use Teflon tape or similar). Apply sealing on threads only. Avoid any sealing product with lubrication effect (e.g. products containing oil or lead)
- 4.3 Install the valve one turn by hand.
- 4.4 Use a special tool corresponding to the valve's wrench (30mm) to fit the valve into the cylinder coupling to avoid any deformation.

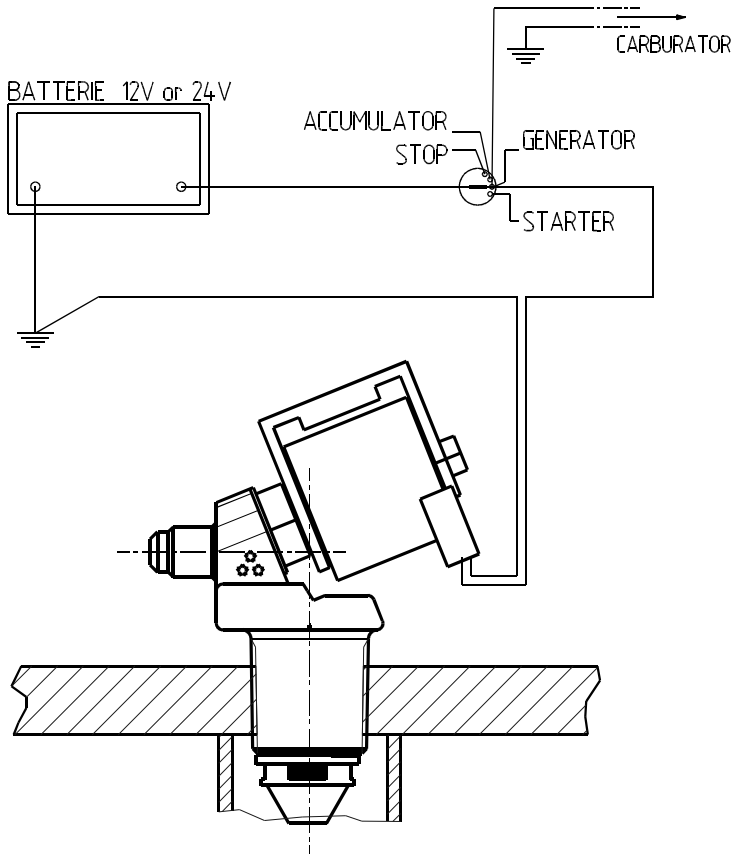
Fitting torque: maximum 100 NM for thread ¾" -14NPT or a maximum of 8 turns

This fitting torque must be respected; If a leakage occurs after correct assembling of the valve on the cylinder, check the thread of the cylinder coupling.

- 4.5 Take the plastic bag with the solenoid coil and assemble the coil to the valve as shown on the instruction sheet inside the coil's bag.



- 4.6 After fitting check the assembly for leaks (e.g. with a leak detecting spray). If you use a special leakage test make sure that the pressure is less than setting pressure of the valve.
Any fire or direct flame is prohibited during this operation.
- 4.7 To connect the coil wires (if the coil is not delivered with connector e.g. AMP or others) see picture below.



- 4.8 After fitting check the assembly for leaks (e.g. with a leak detecting spray). *Any fire or direct flame is prohibited during this operation.*

5. MAINTENANCE


The warranty foreseen in our general conditions of sale does not cover the following:

- Repair or replacement due to normal wear or damage during routine maintenance.
- Damage to components whose fragility is for technical reasons unavoidable and determined by product design.
- Damage from not following recommended maintenance and procedures, as outlined in this instruction manual.
- Damage arising from modifications not included in the procedures in this instruction manual.
- Damage resulting from the use of an unauthorised part, supplied, manufactured or modified by procedures not included in this instruction manual.



WARNING

Failure to follow the installation instructions and handling instructions may cause an accident or personal injury, for which **CEODEUX LPG Valves Technology S.A.** declines any responsibility.

 <p>CEODEUX LPG-TEC</p> <p>ROTAREX GROUP</p>	<p align="center">INSTRUCTION MANUAL Solenoid service valve Type A150 –A151 (071303-071317)</p>	<p>NT-A150-gb Rev.: 00 Date: 12/08/2003 Page: 4 / 4</p>
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Maintenance, repairs and reconditioning of the PRODUCT are under the responsibility of the user or the operator. Anyone attempting to maintain, repair or conditioning the PRODUCT must be thoroughly familiar with **ECE R67-01, Directive 97/23/EC, NPFA 58** and all other standards and regulations referenced therein.

According to this standards maintenance, repair and/or reconditioning shall be performed by properly trained personal.

In case of incident or complaint, the user has to send back the supposed defective product to the manufacturer **CEODEUX LPG Valves Technology S.A.** securely packed. In order to preserve the warranty, the user will not execute any intervention on the product (disassembling, repair, modification...) without our written agreement.

6. GENERAL CONDITIONS

- 6.1. Because of a policy of continuous product improvement, **CEODEUX LPG Valves Technology S.A.** reserves the right to change designs and materials as well as specifications and product informations without notice.
- 6.2. **CEODEUX LPG Valves Technology S.A.** preserves completely the intellectual property of their projects, studies and in general on all documents forwarded to their customers : it is not permitted to communicate, to execute or to use these documents in any way without their written authorisation.
- 6.3. This instruction manual is a part of the sales contract and is subject to the general terms of sale.