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|  <p>CEODEUX LPG-TEC</p> <p>ROTAREX GROUP</p> | <p>SPECIFICATION SHEET</p> <p>Service Valve</p> <p>Type A165</p> | <p>NT-A165-gb</p> <p>Rev.:02</p> <p>Date: 04/02/2004</p> <p>Page : 1 / 3</p> |
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S U M M A R Y

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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 Service valves type A165 (071341 / 071342 / 071344) are intended and approved for installation in Propane/Butane cylinders. 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 Propane/Butane cylinders. 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.

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- 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 to the cylinder
- 2.3 This product is designed and approved for the use with LPG tanks. Any other use or application is not permitted without a written autorisation by our technical Department.
- 2.4 Never disassemble a cylinder valve.
- 2.5 Never grease a cylinder valve (especially the inlet thread).
- 2.6 Never disassemble a valve from a cylinder under pressure.
- 2.7 Use only materials with clean 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 cylinder valves have 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

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| Working pressure | 30 bar max. |
| Working temperature | - 25° C + 70° C |
| Inlet connection | ¾" – 14NGT or ¾" – 14NPTF-2 |
| Outlet connection | In reference to customers order |
| Valve markings | Type, 3 stars, Manufacturing date, Listing mark (PI29) |
| Application | Propane, Butane or mixture of both |

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 Check if the valve thread corresponds to the tread of the cylinder.
- 4.2 Check the property and the surface condition of the cylinder.
- 4.3 Use an appropriate sealing product for the threads (if the valve is not delivered with Everseal), which does not interfere with the correct function of the valve (Use Teflon tape or similar).
Apply sealing on threads only.
- 4.4 Check if the coupling is free of any products (grease, painting color...).
- 4.5 If the valve is delivered with dip tube, pay attention, that the tube is not damaged during installation.
- 4.6 Install the valve one turn by hand. The valve has to turn freely inside the cylinder coupling.
- 4.7 Use a special tool corresponding to the valve's wrench to fit the valve to the cylinder to avoid any deformation.

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Fitting torques

| Inlet thread | Fitting torque with Teflon tape or Everseal |
|-----------------|---|
| 3/4" – 14NGT | 100Nm + orientation (max.130Nm after orientation) |
| 3/4" – 14NPTF-2 | 100Nm + orientation (max.130Nm after orientation) |

This fitting torques have to be respected without exception; If there is still a leakage after assembling of the valve to the cylinder, check the thread of the cylinder coupling.

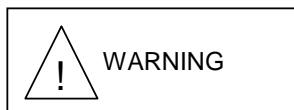
Moreover, after assembly of the valve, the fitter will have to check that there remains at least one complete thread usable at the outside of the cylinder (according to local law e.g. Ministerial order - France)

4.8 After fitting check the assembly for leaks (e.g. with a leak detecting spray). *Any fire 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.



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.

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 **Directive 99/36/EC** and all other standards and regulations referenced therein.

According to this norm 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.