

## SUMMARY

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### IMPORTANT NOTICE

Only those persons who have read these technical instructions thoroughly and understand them completely shall be authorized to use this product.

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 S.A. Meditec** reminds the end product manufacturer that any and all product user warnings, instructions or product labels are the responsibility of the end product manufacturer.

Address of the manufacturer:

**CEODEUX S.A. Meditec**  
24, route de Diekirch  
B.P.19  
Tel. \* 352 32 78 32 1  
Fax . \* 352 32 78 32 317

## 1. DESCRIPTION

This product is intended and approved for installation on *a gas cylinder*.  
Cylinder valve with integrated regulator for oxygen therapy. The regulator valve supplies oxygen at a pressure of 50 psi .

The valve is available in version **active pressure gauge**.

The user can check the cylinder contents at any time without any handling required.

The valve comprises the following functions (see Appendix A):

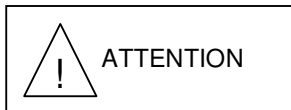
- Filling valve.
- Residual pressure valve.
- Filling connection.
- Active pressure gage.
- Regulator with safety relief valve.
- Flow selector 12 positions.
- Burst disc.

This product is not intended for any other installation or purpose. If the product user has any question regarding this product's 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 serious accident or personal injury for which *CEODEUX S.A. Meditec* will not be responsible.

## 2. SAFETY

### 2.1. 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 is a component part designed for use on *a gas cylinder*. 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.

## **2.2. SPECIAL SAFETY REQUIREMENTS**

- Before using the first time, check the condition of the valve (cleanliness, condition of the threads), and familiarize yourself with the standards and safety regulations governing the valve and gas.
- Most malfunctions are caused by the intrusion of particles, dust or other contamination.
- Comply with the tightening torques when connecting the valve to the cylinder (EN ISO 13341).
- Without a written agreement of our technical department, any other use is not allowed.
- Never disassemble a valve.
- Never grease a valve.
- Never disassemble the valve from the cylinder when the latter is under pressure.
- Use only materials in perfect condition and compatible with the type of gas used and in accordance to the specified operating pressures and the desired flow rates.
- This product is supplied with a CE marking, signifying:
  - Conformance with this Technical Information
  - The customer must ensure the tractability of the products after assembly
  - The customer must inform us about any incidents and supply us any defective valve for checking and analysis.
- The valves must be stored in a dry place at room temperature, in their original packaging.
- The valves must not be exposed to any violent shocks: a deformed or damaged valve must not be used.
- Never heat a valve on a naked flame.
- Do not alter the markings.
- CEODEUX S.A. Meditec accepts no responsibility when the product is used in any other applications for which it has been ordered.
- The user must strictly and fully comply with the laws, regulations and prescriptions, pertaining to his home market.
- The customer is responsible for any accidents and bodily injury, material or immaterial, direct or indirect, resulting from improper assembly or inadequate maintenance.
- If the valve is provided with a pressure gauge, the latter may not be used for indicating the filling level of the cylinder.
- The customer must ensure an appropriate transport and handling of the product. CEODEUX S.A. Meditec accepts no responsibility when the product is transported or handled in inappropriate conditions and especially when its original packaging has been damaged or destroyed. In that case the customer must inform CEODEUX S.A. Meditec
- Do not expose the valve under bad weather conditions during transport and use.
- The connection of the downstream device must be compatible with oxygen.
- The valve must not be exposed to sparks (electrical equipment, etc.).
- Do not smoke near the pressurised valve.
- Gas company personnel will attend to the cleanliness of the cylinder. The cylinder must be kept free of grease and plastic or metallic particles.
- Only use this instrument in conformance with your physician's directions.
- Keep this equipment out of the reach of children

### 3. TECHNICAL DATA

Working pressure (P1)	2200psi/150bar
Operating temperature	- 18° C + 49° C
Residual pressure	14.5 à 58 psi
Output pressure (P2)	50.76 psi / 56.56 psi
Standard discharge Q1acc.EN738-3	0 – 15 l/mn
Maximum flow on DISS	40 l/mn
Flow settings	0-1/2-1-1 ½-2-3-4-6-8-10-15-25 l/mn
Pressure gauge	0 – 3000 psi
Materials:	
Body	Brass, nickel plated
Internal parts	Brass
Regulator seat disc	PA 6.6
Filling valve seat disc	PA 6.6
O-ring	EPDM
Hand wheel	PA 6.6 + 30 % glass fiber
Use with the following gas	O2
Conformance with standard	EN 738-3
Filling connection	CGA 540
Output connection	Sélecteur de débit et raccord DISS
Guard	PA6.6; the guard must be use with aluminum cylinder type E and D

### 4. INSTALLATION AND HANDLING INSTRUCTIONS

#### 4.1. FILLING (CONCERNS GAS COMPANY PERSONNEL ONLY)

- Examine all connections to detect the presence of possible escapes.
- Screw the valve onto the cylinder according to EN ISO 13341.
- Screw the filling device onto the filling connection.
- Open the filling valve **by hand** with the special key .
- Fill the cylinder according to ISO/CD 11622.  
**Important: the flow selector must be at the zero position.**
- Close the filling valve **by hand** with the special key.
- Disconnect the filling system.
- Check the cylinder valve for leaks.

#### 4.2. USE (CONCERNS THE END-USER)

- Connect the tubing from the inhalation apparatus as prescribed by your physician and/or supplied by your distributor or chemist to the outflow nozzle (connect by hand without using any tools)
- Regulate the flow of the flow selector as directed by your physician

- Check that oxygen is flowing from the inhalation apparatus
- Place and adjust the inhalation apparatus on your face/nose
- After use, **close the flow selector**.

#### 4.3. MALFUNCTIONS

**For Canadian market :**

**The customer will have to hold account of the provisions of the CMDR (Canadian Medical Devices Regulations), § 52-56 and 57-58 and will have to inform as soon as possible CEODEUX SA Meditec on nature of the encountered problem and the batches concerned.**

- **Gas company**

Type of malfunction	Cause	Remedy
Flow of oxygen inadequate or non-existent	Filling valve closed or insufficiently opened.	Open the filling valve.
	Cylinder not full or insufficiently filled.	Check the filling level of the cylinder as well as the filling procedure.
	Valve does not function.	Remove the valve from the cylinder and return the valve for analysis.
	Presence of particles in the valve-cylinder assembly.	Do not use the valve. Clean the valve.
Connection not possible	Connection incompatible with the filling station. Connection damaged.	Remove the valve from the cylinder and return the valve for analysis.
Filling of the cylinder not possible or insufficient output.	Filling valve closed or insufficiently opened.	Open the valve.
	Valve does not function.	Remove the valve from the cylinder and return the valve for analysis.
	Valve obstructed.	Remove the valve from the cylinder. Clean the valve.
	Filling station does not function.	Check filling station.

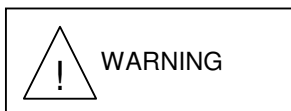
• **End-user**

Type of malfunction	Cause	Remedy
Oxygen output insufficient or non-existent	Flow meter closed .	Open the flow meter. Check pressure in cylinder.
	Valve does not function	Return the cylinder to the gas company.
	Presence of particles in the valve-cylinder assembly.	Return the cylinder to the gas company. <b>DO NOT USE THE CYLINDER.</b>
	Empty cylinder, pressure is zero when the flow meter is open	Change the cylinder
	Regulator switch on flow selector poorly positioned	Turn the flow selector to a proper position.
	Inhalation apparatus obstructed or defective	Disconnect the inhalation apparatus. If the flow is restored, clean or replace it
5.2.2 Opening the valve is not possible	The flow meter is defective	Return the cylinder to the gas company
	The flow meter was closed too much when last closed	Use pliers with caution and in conformance with section 3

**5. MAINTENANCE**

This warranty foreseen in our general conditions of sales 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 unauthorized part, supplied, manufactured or modified by procedures no included in this instruction manual.



Failure to follow the installation instructions and handling instructions may result in accident or personal injury, for which CEODEUX S.A. Meditec declines any responsibility.

Maintenance, repairs and reconditioning of these industrial cylinder valves are the responsibility of the user or the operator. Anyone attempting to maintain, repair or conditioning the cylinder valves must be thoroughly familiar with **COMPRESSED GAS ASSOCIATION Standard V-9** and all other standards and regulations referred to therein.

According to **CGA V-9** maintenance, properly trained personnel shall perform repairs and/or reconditioning.

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

Note:

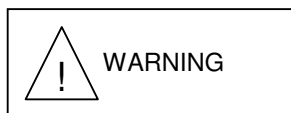
- Maintenance must be performed at regular intervals (at each filling or every month): visual inspection, operational check, checks for leaks and check of cleanness
- Any repairs must be carried out by **CEODEUX S.A. Meditec** in order to ensure safety and performance.
- Maintenance every 5 years is required and will be realized by **CEODEUX S.A. Meditec**

## 6. GENERAL CONDITIONS

6.1. Because of a policy of continuous product improvement, CEODEUX S.A. Meditec reserves the right to change designs and materials as well as specifications and product informations without notice.

6.2. CEODEUX S.A. Meditec preserves completely the intellectual property of 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 s



Note:

- Maintenance must be performed at regular intervals (at each filling or every month): visual inspection, operational check, checks for leaks and check of cleanness
- Any repairs must be carried out by **CEODEUX S.A. Meditec** in order to ensure safety and performance.
- Maintenance every 5 years is required and will be realized by **CEODEUX S.A. Meditec**

## Appendix A

