

UTILIZATION

Used self-rescuers, expired, as well as self-rescuers unfit for further use must be utilized.

Do not leave self-rescuers in public places.

Utilization process is following:

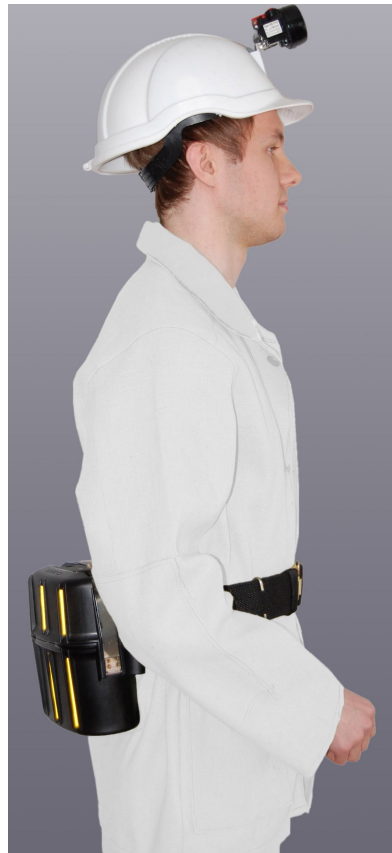
- open self-rescuer;
- disconnect hose and breathing bag;
- take out cartridge from the case;
- put cartridge in the clean water with tubes up and keep it there, shaking slightly until bubbles stop to appear;

– neutralize formed alkaline solution with 3 % acid, for example, hydrochloric acid (HCl);

– sort out all the details and components by type of material (metal, plastic, resin, etc.) and utilize in accordance with the regulations applicable in your territory. Use protective glasses and gloves during utilization process.

DEZEGA®**ROXY 40****Operation manual**

**DEZEGA SP GÜVENLİK ÜRÜNLERİ SANAYİ
VE TİCARET ANONİM ŞİRKETİ**
EGE SERBEST BÖLGESİ ZAFER SB MAH.
NİLÜFER SK.NO:30 GAZİEMİR, İZMİR
Tel. +90 232 251 0 394
Fax. +90 0 232 252 0 394
www.dezega.com



Self-rescuer ROXY 40 is a belt worn breathing apparatus to exit from the danger zone. It is intended for use only to escape in case of accidents (smoke, toxic gases, oxygen deficiency). Only trained persons can use self-rescuer.

Improper use of self-rescuer can cause serious consequences.

Self-rescuer is ready-to-use device and intended for constant wearing underground on the waist belt or storage at the switching points placed on routes out of danger zone.

Self-rescuer can be used at ambient temperature from -5 °C to +60 °C and relative humidity up to 100 %.

Self-rescuer designation for orders:
« Self-rescuer ROXY 40 ».

Self-rescuer ROXY 40 guarantees protection of human respiratory system when used in accordance with this manual.

TECHNICAL DATA

Parameter	Value of parameter at breathing volume per minute	
	35 l/minute	50 l/minute
1 Normalized time of protective action, minutes, not less	40	20
2 Breathing resistance, kPa, not more	1,0	1,5
3 The content of CO ₂ in the inhaled air, %, not more	3	
4 Temperature of the inhaled air, °C, not more	50	60
5 Temperature on the surface of the case, °C, not more	120	140
6 Temperature on the surface of the cartridge, °C, not more	145	165
7 Weight, kg	2,3±0,1	
8 Dimensions, mm		
– height	203±2	
– length	202±2	
– width	116±2	
Note. Depending on the intensity of breathing the effective time of protective action on exit from the danger zone can be increased to 50 minutes, and while breathing at rest – up to 120 minutes.		

Designated shelf life (from the date of manufacture to disposal, years)..... 10.

LEAVING THE DANGER ZONE

Leaving the danger zone should be fast with measured steps along the shortest route. Running is not recommended. Hasty breathing consumes more oxygen.

It is forbidden to compress or damage the breathing bag. It is forbidden to speak, to take off nose clip, take off mouthpiece from the mouth, In case of vomiting remove the mouthpiece from the mouth and close it with your thumb. Prevent vomit entering the self-rescuer.

Continue your walk along the route after returning mouthpiece to your mouth.

Case and inhaled air is gradually heated. The highest case temperature during operation time is acceptable for user wearing a cotton clothes. Take off self-rescuer after reaching fresh air.

Self-rescuers used in the mine, should be brought to the surface.

Self-rescuer is for single use only.

MAINTENANCE OF THE SELF-RESCUER

No special technical servicing is required for storage and operation of the self-rescuer. Everyday check is described in the section “RULES OF USE AND SAFETY PRECAUTIONS”

Inspection of self-rescuers deployed in the switching points should be made every six months.

Additional control of self-rescuers is carried made on the device UPG with external pneumatic pressure of 5 kPa, created in the camera of device.

The frequency of checking self-rescuer with UPG, which are used every day – once in three months, and for self-rescuers, which are placed in the switching points – once a year.

Self-rescuer is considered suitable for further operation, if a pressure drop in the chamber of device is less than 400 Pa during 1 minute. Self-rescuers, which did not pass the test, must be packed in sealed synthetic bag and sent to the service center.

Note. The order, content and timing of servicing of self-rescuers are to be agreed between supplier and customer.

Owner or user is completely responsible for self-rescuers used with violation of this manual or repaired are not specialists of the service center, accredited by the manufacturer.

TRANSPORTATION AND STORAGE







Self-rescuers in the package should be transported in closed clean and dry vehicles of all types of transport at temperatures from -40 °C to +50 °C and relative humidity to 100%.

Self-rescuers have to be transported according to the rules of transportation valid for this type of transport.

Packaged self-rescuers should be stored in the transport packaging at ambient temperature from -6 °C to +40 °C and relative humidity up to 70%.

DONNING THE SELF-RESCUER

Immediately don the self-rescuer in case of emergency. Please follow the next steps:

<p>1.</p> 	<ul style="list-style-type: none"> • Put the self-rescuer in front of you • Kneel down 	<p>2.</p> 	<ul style="list-style-type: none"> • Hook and pull up the lock lever of the coupling straps with right hand tearing the sealing line • Take the lock lever and lid with right hand. With hand movement to the right tear off the lid • Remove the hook of the coupling straps from the case • Tear off the cap and throw it away
<p>3.</p> 	<ul style="list-style-type: none"> • Remove hard hat • Put the neck strap over the head around the neck • Slightly raising the case with both hands, disconnect the casing from the belt loops with your thumbs • Unfold the heat shield between the unit and the body 	<p>4.</p> 	<ul style="list-style-type: none"> • Pull up mouthpiece and breathing hose (while doing this, plug releases the mouthpiece) • Straighten the breathing bag • Place the mouthpiece to your lips and blow into the unit 4-5 times inhaling from atmosphere (reaction of oxygen emission starts in the unit) • Place mouthpiece into your mouth and insert it between your lips and gums. Firmly grasp the lugs of mouthpiece with your teeth
<p>5.</p> 	<ul style="list-style-type: none"> • Pinch and pull the pads of nose clip apart with two hands and put the nose clip pads on the nose in order to close both nostrils tight • Continue to breathe calmly. <p><i>You are already isolated from the surrounding atmosphere</i></p>	<p>6.</p> 	<ul style="list-style-type: none"> • Adjust the length of the neck strap by pulling on the pull tab with right hand and lifting the unit with your left hand. Corrugated tube should not be tight. • Circle around the body the left (long) end of the chest strap, fasten it and adjust the length by pulling on the tab with the right hand. • Put on protective goggles. • Put on hard hat. • Stand up. • Calmly follow the escape route to a place of safety

DELIVERY SET

Delivery set includes:

- self-rescuer, pcs. 1
- user's manual, copy 1
- memo on the treatment of the self-rescuer, copy 1
- label, copy 1

MARKING AND SEALING

Self-rescuer is marked on the cap, case coupling strap, breathing bag with the following information:

- Cap: inscription «ROXY 40», trade mark of producer, inscription «Made in Turkey», light reflecting stickers;
- Case: inscription «Antistatik», pictogram, light reflecting stickers, certification sticker;
- Coupling strap:
 - serial number in the format of SSSSPMMYY where:
 - SSSSS – sequential serial number;
 - P – letter of producer: T – Turkey, U – Ukraine, R – Russia;
 - MM YY – production date in the format of month-year.
 - product index «ROXY 40»;
 - inscription «Made in Turkey»;
 - trade mark;
 - rated working duration «40 min»;
- Breathing bag: number of self-rescuer, month and year of production.

Self-rescuer is sealed by the producer. Seal is located under the lid. The seal can be torn off only while donning the self-rescuer.

TRAINING TO USE SELF-RESCUER

User's training program should include studying of this manual, visual aids and practical exercises for donning apparatus, belts adjustment and walking with apparatus.

Training self-rescuer ROXY 40 T is used for regular trainings.

DESIGN AND OPERATION

Self-rescuer is a single use self-contained breathing apparatus with chemically contained oxygen and pendulum scheme of airflow. At breathing air comes through heat exchanger, hose and cartridge to the breathing bag and backwards. Chemical product (KO₂) in the cartridge absorbs carbon dioxide (CO₂) and moisture from the air and emits oxygen. Redundant breathing gas is removed via excess valve.

The process of cleaning the air in the cartridge creates heat so at breathing self-rescuer and exhaled air is gradually heated. Warming is a sign of normal operation of the self-rescuer. Some peculiar taste is normal and not dangerous.

Indicator is installed on the cap of the self-rescuer. Indicator changes color from blue to pink in case of self-rescuer leak-tightness fails.



Structure of self-rescuer ROXY 40

**RULES OF USE AND SAFETY
PRECAUTIONS**

Self-rescuers should be checked visually every day. Self-rescuer is not suitable for use if:

- seal is broken;
- case and cap have cracks or holes;
- clasps has been deformed, which prevents their removing from the grooves of the case;
- more than 50 % of indicator has changed color from blue to pink.

In these cases, the self-rescuer must be packed in sealed synthetic bag and sent to a service center.

Self-rescuer is constantly worn on a belt of user. Self-rescuer should not be left near the heat-radiating devices. This may lead to its premature failure. Self-rescuer can be wiped with dry or wet cloth. Self-rescuer should be protected from combustibles (petrol, solvents, grease etc.), as this may lead to fire. Please be aware that in case of destruction or opening of the cartridge of self-rescuer, chemical product may cause inflammation of coal, wood, cloth and other combustible materials.

Extinguishing means are: powder fire extinguishers, dry sand, talcum powder, baking soda. Never use water, foam and carbon dioxide fire extinguishers.

Contact with the chemical product on the skin, eyes and respiratory tract can cause chemical burns.

After contact with the product on the skin or eyes you should quickly wash it out with plenty of water and seek medical advice.

Damaged self-rescuers, in which the chemical product has direct contact with air, should be taken immediately to the surface of the mine and utilized.

Open self-rescuer only before use!