

VEVOR[®]

TOUGH TOOLS, HALF PRICE

Technical Support and E-Warranty Certificate www.vevor.com/support

DIVING RESPIRATOR

MODEL: C400

We continue to be committed to provide you tools with competitive price.

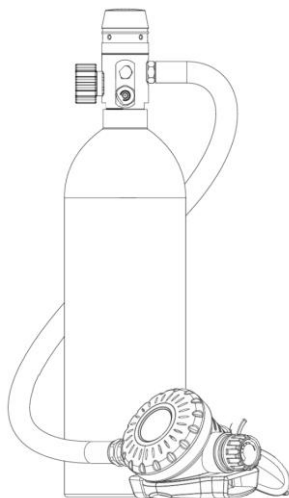
"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually Saving Half in comparison with the top major brands.

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NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.



Warning - To reduce the risk of injury, user must read instructions manual carefully.

PRODUCT INTRODUCTION

- This product is suitable for wading activities such as snorkeling, recreational diving and indoor diving teaching and the maximum applicable depth is no more than 10 meters underwater;
- When used as an underwater emergency rescue or backup air supply for professional diving equipment, the maximum applicable depth is within 30 meters underwater. In this case, it can only be used as an emergency air supply.

WARNING

- This product is suitable for waters within 10 meters deep;
- When used as underwater emergency rescue, the maximum depth can reach 30 meters. At this moment, it can only be used as an emergency backup air supply;
- Before use, you're strongly recommended to participate in and obtain the scuba diving technical training and related certificates by valid authentication institution. It is dangerous for those who have not been authenticated by professional institution to use this product and serious injury or death may occur;
- This product is suitable for waters above 10 degrees Celsius with the approval by the managers of the waters; please carefully observe the surrounding environment before use to ensure that the waters are safe without any dangers; beware of collisions with passing ships;
- Please inflate the product before use and check any possible damages or air leakage. Do not use when it's damaged, leaking or has other signs of malfunction;
- The maximum pressure of this product is 20MPa and it can only be filled with compressed air in accordance with the requirements of human breathing. Filling other undesirable gases may cause the

internal filtering device and channels to be blocked;

- Please store the product in a cool and dry place away from direct sunlight, do not store it in the car trunk or the place of high temperature, it is forbidden to throw this product into fire;
- It belongs to high-precision product, please do not disassemble the product without authorization. Non-professionals may cause damages to the product;
- Do not use this product in the water alone, more than two companions should be needed;
- In the case of danger, this product cannot provide personal safety protection, it can only provide a proper amount of compressed air to the human body as a source of breathing air;
- After use, make sure to clean the product with clean water and dry it before storage;
- When the pressure is less than 2MPa, please go to the water surface, then use it after refill air again;
- Please practice in shallow water when use this product for the first time;
- It is strictly forbidden to use this product after drinking alcohol or taking drugs, otherwise it will cause serious consequences;
- It is strictly forbidden for children under 14 years old and seniors over 60 years old to use this product. Juveniles over 14 years old should use it under adult supervision; pregnant women, patients and other people who are not suitable for diving/swimming are prohibited to use this product.

PRODUCT CONFIGURATION

Model	C400
Maximum Applicable Pressure	20MPa
Single Cylinder Volume	1 L

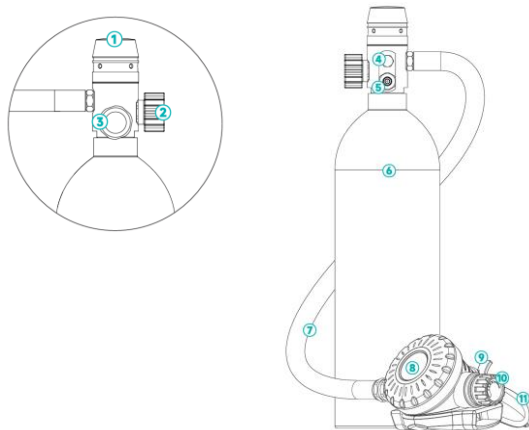
PRODUCT CONFIGURATION

Model	Item number	Gas cylinder (PCS)	2nd generation air pump	adapter	Back bag	Storage bag
C400	C400-B1-EU	1	1	-	1	-
	C400-C2-US	1	-	1	1	1

DIVING RESPIRATOR ACCESSORIES

ITEM	Name	Q'TY	ITEM	Name	Q'TY
1	Green O-ring	1PCS	3	One character batch	1PCS
2	Black O-ring	1PCS	4	manual	1PCS

PRODUCT STRUCTURE



1. Decompression Chamber

High-pressure air in the cylinder is decompressed and output through the decompression chamber.

2. Main Valve Switch

It can be switched off when not in use to avoid air leakage during storage. As the main flow switch of air outlet channel, it needs to be switched on when in use.

3. Pressure Gauge

Stainless steel luminescent pressure gauge, convenient for viewing the remaining air inside the tank in dim underwater conditions.

4. Explosion-Proof Valve: It provides overpressure protection.

5. 8mm Inflation Plug: Interface for air filling.

6. High-Pressure Cylinder: High-pressure cylinder.

7. Medium Pressure Tube: Connecting pipe to output air

8. Release Valve: Press to release the pressure and discharge the air out of the cylinder.

9. Airflow diversion switch: Adjust the airflow direction.

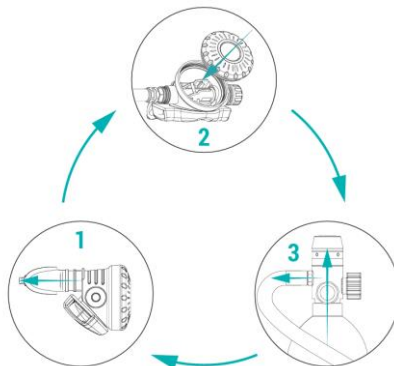
10. Inhalation resistance adjustment switch: Adjust the size of breathing resistance.

11. Mouthpiece

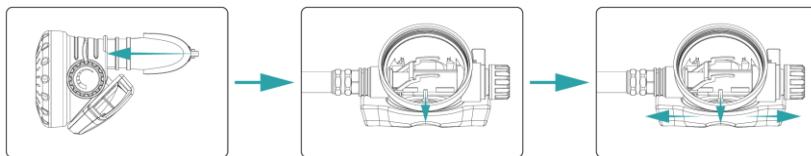
For diver to bite the mouthpiece for breathing, connect the inlet and outlet channels of breathing valve.

OPERATION PRINCIPLE

1. When the diver bites the mouthpiece and inhales, the pressure in the cavity decreases to prompt the release valve to open downward so that the air pressure is reduced in the primary pressure reducing valve and flows through the medium pressure tube into the secondary breathing valve cavity and then into the oral cavity through the mouthpiece;



2. When the diver bites the mouthpiece and exhales, the exhaled gas flows into the cavity to increase the pressure in the cavity, to prompt the opening of the one-way silicone gasket at the bottom of the secondary breathing valve, and the gas is discharged to the outside through the two exhaust holes.



OPERATION TUTORIAL

1. Assembly

C400 scuba consists of one primary pressure reducing valve, one high-pressure gas cylinder, one medium-pressure tube and one secondary breathing valve. When receiving the product, please check any possible missing parts. Remove the primary pressure reducing valve screw protection sleeve and check the thread connection. After carefully check, please tighten the cylinder valve and then install the medium-pressure tube and secondary breathing valve.

2. Inflation

- Please check any possible air leakage when inflating. In case of any leakage, stop the inflation immediately; the gas filled is compressed air (it's strictly forbidden to fill in pure oxygen or other gases harmful to human body). When the air pressure in the cylinder reaches 3000psi /200bar/20MPa, stop the inflation immediately to avoid any accidents;
- Common Inflation Methods: electric pump inflation, manual pump inflation and adapter inflation. When the aforesaid tools are used, please ensure that the pressure can reach 3000psi/200bar/20MPa, otherwise the cylinder will not be fully filled. When electric pump/manual pump is used for inflation, oil-water separator shall be equipped;
- The compressed air filled shall meet the requirements of human breathing to ensure the air is pure and harmless to human body. If the pure compressed air suitable for human body is not filled as required, the filter system or channel in the cylinder valve may be blocked to cause malfunction.

3. Pressure Release

Press the release valve on the top of the secondary breathing valve to release the pressure. If air leakage occurs after air filling, release the pressure in this way and check the malfunction.

4. How to Use

Before use, please check any possible air leakage or water seeping into the

breathing cavity of the secondary breathing valve. In case of air leakage, stop using it immediately. In case of water seepage, please drain the water before use. The specific operation is shown as follows:

- Keep all the mouthpiece in mouth and bite the silicon part with teeth, blow 2-3 times into the cylinder valve to ensure the water in the cavity of the secondary breathing valve has been fully discharged, and then have normal breathing with the mouth;
- Keep all the mouthpiece in mouth, bite the silicone part with teeth and shut the mouth tightly. Press the pressure release valve of the secondary breathing valve to discharge the water in the cavity of the secondary breathing valve by the released air, and then have normal breathing with the mouth;
- Check whether there are foreign objects (such as sand, etc.) in the cavity of the secondary breathing valve. If any, please clean up in time before use;
- Use only after safety hazards have been eliminated. When in use, you can breathe normally by biting the mouthpiece completely.

COMMON TROUBLESHOOTING

Trouble	Repair method
Air leakage at the connection between pressure gauge and cylinder valve / Air leakage at the connection between 8mm inflation plug and the primary pressure reducing valve?	Use a wrench to tighten the pressure gauge and the inflation plug to eliminate the malfunction.
Air leakage at the connection between the primary pressure reducing valve and the cylinder?	Replace the rubber ring at the bottom of the primary pressure reducing valve and tighten to the cylinder to eliminate the malfunction.
Air leakage at the port of inflation plug?	Remove the inflation plug, take off the O-shaped rubber ring at the bottom and clean/replace with clean water, wipe off the water and reinstall back to the original place. Make it tightened to eliminate the malfunction.

STORAGE AND MAINTENANCE

1. Storage Conditions:

- It should be stored in the place with ambient temperature of 5°C~30°C and relative humidity of 40%~70%;
- It should not be placed within one meter from the heat source and in the direct sunlight;
- The warehouse where scuba is stored should not have oils, acids, alkalis and other gaseous substances that can damage rubber material.

2. Transportation Conditions:

400 scuba is small and light in weight, so it's very convenient to carry. Violent shocks and vibrations during transportation should be avoided. It should be kept clean without contacting with oils, acids, alkalis and other substances that damage rubber and fabrics.

3. Product Maintenance:

- This product should be inspected or maintained once a year by an authorized dealer or a professional diving organization to ensure it can be used normally.
- Cylinders need to be hydrostatically tested every 5 years.
- An annual visual inspection is recommended and the cylinder should be inspected for corrosion, dents, cracks or other damage, both inside and outside.
- The O-ring is a vulnerable part. If it is damaged during use, please replace it immediately.

4. Deposited Conditions

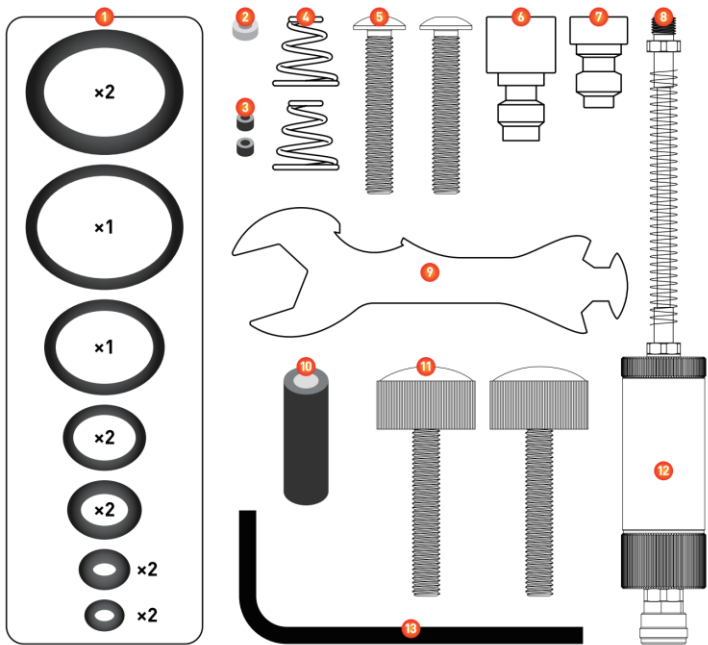
The product should be disposed if the following cases occur:

The product itself is damaged, that is, it meets the disposal requirement and cannot be used anymore; for example, the cylinder case is broken, the screw of cylinder valve is damaged or de-formed, the cylinder valve or cylinder is deformed.

INTRODUCTION TO 2ND GENERATION AIR PUMP



1. Accessories List



ITEM	Name	Q'TY	ITEM	Name	Q'TY
1	Spare O-rings	12PCS	8	High-pressure air pipe	1PCS
2	White washers	1PCS	9	Special wrench	1PCS
3	Black washers	2PCS	10	Oil-water separator carbon rod	1PCS
4	High-pressure piston springs	2PCS	11	Handle screw	2PCS
5	Screws	2PCS	12	Oil-water separator	1PCS
6	Inflatable adapters	1PCS	13	Hexagonal wrench	1PCS
7	Test plugs	1PCS	14		

2. Installation Notes

Assemble as shown in the figure below, use a special wrench to tighten the joints (pressure gauge, high pressure charging Air pipe and oil-water separator), (Note: Moderate force is enough, too tight will cause pressure.

The sealing rubber between the table and the hose and the base is deformed and caused leakage). The handle screw installation must be tightened. Do not loosen.



- A. Handle screw
- B. Rubber handle
- C. pump barrel
- D. pressure gauge
- E. High pressure inflatable tube
- F. base
- G. pressure relief valve
- H. Water separator
- I. 8mm quick connector

3. Test before Use

Test Methods:

1. Install the test plug;
2. Tighten the pressure relief valve and inflate to 10MPa; open the pressure relief valve to release the gas pressure;
3. Tighten the pressure relief valve again and inflate to 20MPa;
4. Observe for about two minutes to check whether the pressure gauge of the pump has dropped. If the pressure gauge does not drop, the performance of the pump is normal; if the pointer of the pressure gauge drops, it is recommended to put the entire pump base, high-pressure inflation tube and test plug into the water to check for air leakage.

4. Instructions

- 4.1 Please be familiar with the operation method before use. Improper operation may cause harm to the user, or damage the pump.
- 4.2 Connect the air cylinder to the container to be inflated first. (Please read the relevant manual to familiarize yourself with the content Inflatable connection port of the device).
- 4.3 Check whether the pressure relief valve is tightened, if it is loose. Tighten it.
- 4.4 When inflating, step on the bottom plate of the pump with both feet to ensure the stability of the pump.
- 4.5 Place the container to be inflated flat on a horizontal surface. And then start to inflate.
- 4.6 After the inflation is completed, twist the pressure relief valve of the air cylinder to discharge the oil-water mixture generated during the inflation process.



Danger Warning

After inflating, do not release the pressure until the pressure relief valve releases the pressure. Disassemble any connectors, if under pressure. Disassembly of connectors may result in serious injury.

Also, do not place your hands on Near the air outlet or point it at anyone! Otherwise, Serious injury may result in. Before inflating the container, please familiarize yourself with the container capabilities and their parameters.

8mm quick connector disassembly method (As shown in the picture)



5. Common problems and solutions

5.1 After the gas cylinder is connected to the container, after a period of inflation, the pressure is still displayed as zero or the pressure speed is increased very slow?

Problem Analysis: Leakage.

Solution: put the pump base, high-pressure inflation tube and test plug into the water to check for leaks.

5.2 During the pumping process, the air pump pumps up heavily, and it will automatically suck down when it is pulled to the end?

Problem analysis: There is a problem with the one-way valve needle of the three-stage piston group.

Solution:

- Open the air release valve, disassemble the outer tube and handle connecting screw (only one) and pour water or silicon After reassembly, dry air several times in quick succession to discharge the sundries stuck in the valve.
- Remove the three-stage piston group, find out the cause of air leakage, or replace the sealing piston.

5.3 The more you pump, the harder you pump and push down?

Problem Analysis: There is a serious shortage of oil in the pump.

Solution: Add 2~3 drops of special lubricating oil to the secondary tube and tertiary tube of the gas cylinder. (Notice: After refueling, it must be empty for 50 times, drain the excess oil, and then use it again.) (See the following figure) (The new pump does not need to be refueled, it has been refueled at the factory, and it is refueled every 1500 or so pumps.)

5.4 The pressure gauge does not return to zero?

Problem analysis: The excess oil is not drained cleanly, and the oil and gas expand at about 20MPa, and the oil and gas expand instantly If the pressure exceeds 40MPa, the pressure

gauge will be damaged due to overload, or the pressure of the gas cylinder will be damaged during carrying. The watch was severely shaken, causing the hands to shift.
Solution: replace the pressure gauge.



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