

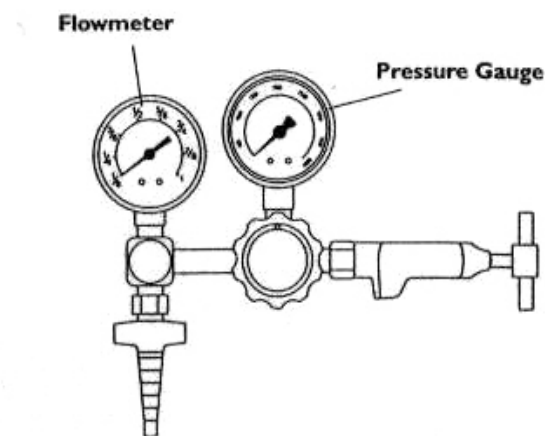
STATIONARY OXYGEN AND PORTABLE OXYGEN CYLINDER

OXYGEN CYLINDERS

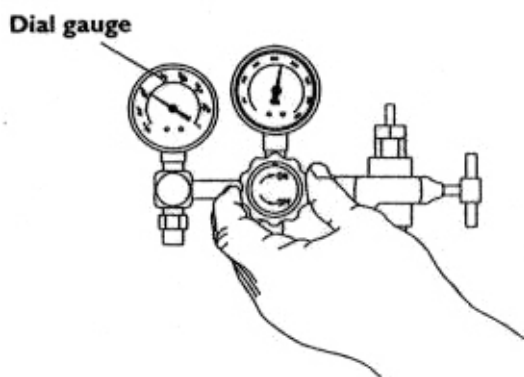
The oxygen cylinder ("tank") is for use as a backup for your concentrator or a portable oxygen supply.

National Fire Protection Association ruling 4.3.1.1 "Fuel gas cylinders in storage shall be separated from oxygen cylinders or combustible materials by a minimum distance of 20ft or by a barrier of noncombustible material at least 5ft high and having a fire-resistance rating of at least 1/2 hour. The barrier shall interrupt the line of site between the combustible material and oxygen cylinders."

The regulator reduces the outlet pressure of the oxygen in the tank to a safe pressure for you to use it. One gauge displays the amount of oxygen remaining in the cylinder (expressed in pounds per square inch- psi). This pressure gauge will show pressure gradually dropping as the oxygen is used. A full cylinder may have between 1800-2200 psi when first turned on.



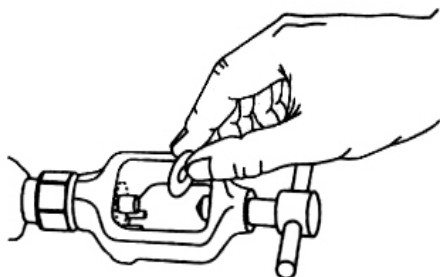
The other gauge (flowmeter) shows how fast the oxygen is being delivered in liters per minute: your prescribed liter flow. When you turn the dial, the Dial Gauge shows how many liters per minute are flowing from the tank.



Be sure the cylinder is secured in a pouch, on a cart or stand, away from heat, open flames, smoking or combustible materials. If you have extra portable cylinders, they should be stored lying down out of the way. We suggest you store extra cylinders under your bed.

TO ATTACH REGULATOR TO SMALL, PORTABLE OXYGEN CYLINDER

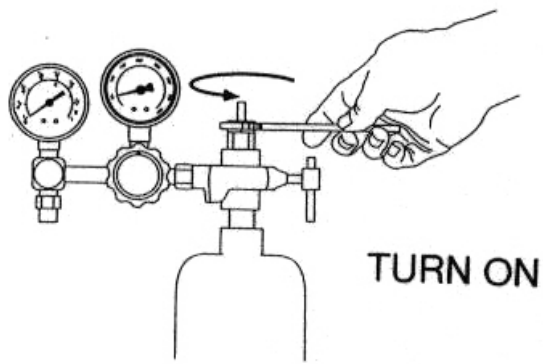
- Remove the seal from the post valve of the full cylinder. Save the washer inside the seal.
- If the old washer is faulty replace it with the new washer by placing the washer over the largest peg located inside the yoke of the regulator.
- Attach the regulator to the cylinder by slipping the regulator yoke down over the post valve and aligning the 3 pegs inside the yoke with the 3 holes in the post valve.



- Tighten the “T” bolt handle firmly. If the “T” bolt isn’t secure or if the washer is faulty there will be a loud hissing sound when the valve is turned on as the oxygen escapes. **There is no danger.** Turn the cylinder valve off and tighten “T” bolt or replace washer as necessary.

TO TURN ON OXYGEN

1. Turn flow adjustment knob OFF.
2. Using the cylinder wrench or round handle directly on top of some cylinders, slowly turn the valve counter-clockwise (left) all the way. This will open the cylinder valve allowing gas into the regulator



- and the pressure gauge will now indicate the amount of oxygen in the tank.
3. Observe the pressure in the tank to ensure oxygen is in the cylinder.
4. Adjust the flow control knob (flowmeter) until the flow indicator is at the prescribed flow rate.
5. When not in use, close the cylinder by turning the cylinder hand wheel or wrench clockwise all the way.
6. The flow of gas will cease when all the oxygen pressure is released from the regulator. When both gauge indicators read 0, turn the flowmeter knob OFF.

TROUBLESHOOTING OXYGEN TANKS

- Check that the main valve is open and that pressure is observed on the pressure gauge.
- Check that the flowmeter is ON & adjusted to the prescribed liter flow.
- Check that tubing is securely attached to the oxygen outlet and is not crimped, pinched, or obstructed by heavy furniture, chairs, etc.

Remember: It is your responsibility to monitor the oxygen supply to insure that you do not run out of oxygen. A chart has been provided to assist you in determining when to order more oxygen. _____

Call Healthcare Services of Americato reorder a new cylinder 1 to 2 days before you run out *and* contents gauge reads 500 psi.

Oxygen Cylinder Use Time in Hours

Always keep enough oxygen on hand to last overnight and during weekends and holidays.

Review the table on the back page of this brochure to calculate the approximate time your tank will last. If you need help in deciding how long your cylinder will last, please call our office.

For example: At 3 LPM with an E tank that has 1500 PSI remaining, you would have approximately 2 ½ hours of oxygen available (remaining) in the tank.

E Cylinder – 682 Liters

Pressure in tank→	2000	1500	1000	500
Flow ↓				
1 LPM	10 HOURS	7.5 HOURS	5 HOURS	2.5 HOURS
2 LPM	5 HOURS	3.5 HOURS	2.5 HOURS	1.2 HOURS
3 LPM	3 HOURS	2.5 HOURS	1.5 HOURS	0.7 HOURS
4 LPM	2.5 HOURS	1.7 HOURS	1.2 HOURS	0.6 HOURS
5 LPM	2 HOURS	1.5 HOURS	1 HOURS	0.5 HOURS
6 LPM	1.5 HOURS	1 HOURS	0.7 HOURS	0.3 HOURS

D Cylinder – 415 Liters

Pressure in tank→	2000	1500	1000	500
Flow ↓				
1 LPM	6 HOURS	4.5 HOURS	3 HOURS	1.5 HOURS
2 LPM	3 HOURS	2.25 HOURS	1.5 HOURS	3/4 HOUR
3 LPM	2 HOURS	1.5 HOURS	1 HOUR	1/2 HOUR

H Cylinder – 7,986 Liters

Pressure in tank→	2000	1500	1000	500
Flow ↓				
1 LPM	100 HOURS	75 HOURS	50 HOURS	25 HOURS
2 LPM	50 HOURS	37 HOURS	25 HOURS	12 HOURS
3 LPM	33 HOURS	25 HOURS	16 HOURS	8 HOURS
4 LPM	25 HOURS	18 HOURS	12 HOURS	6 HOURS

Regulator Flow Duration Continuous Flow Rate

Flow Rate LPM	Mini M6 Cylinder	M9 Cylinder	D Cylinder	E Cylinder	H Cylinder
0.5	5.5 hours	8.2 hours	13.8 hours	22.7 hours	198.9 hours
0.75	3.6 hours	5.5 hours	9.2 hours	15.2 hours	132.6 hours
1	2.7 hours	4.1 hours	6.9 hours	11.4 hours	99.4 hours
1.5	1.8 hours	2.8 hours	4.6 hours	7.6 hours	66.29 hours
2	1.4 hours	2.1 hours	3.5 hours	5.7 hours	49.72 hours
2.5	1.1 hours	1.7 hours	2.8 hours	4.5 hours	
3	0.9 hours	1.4 hours	2.3 hours	3.8 hours	
3.5	0.8 hours	1.2 hours	2 hours	3.2 hours	
4	0.7 hours	1 hours	1.7 hours	2.8 hours	
5	0.6 hours	0.8 hours	1.4 hours	2.3 hours	

Note: Usage times vary depending upon cylinder size and flow rate. This chart is meant to be a general guide only; you actual usage time may vary.

Key: 1= wash in soapy water, rinse.

2= soak in 1/2 white vinegar, 1/2 water for 30 minutes, rinse well.

**CLEANING INSTRUCTIONS
& FREQUENCY**

**MINIMUM REPLACEMENT
FREQUENCY**

CANNULA	Minimum weekly: 1 Dry thoroughly	Change when excessive kinking or coiling.
OXYGEN HUMIDIFIER (BUBBLER)	empty & refill every day	every 9 to 12 weeks
	every 3rd day: 1,2	
CONCENTRATOR FILTER	Minimum weekly: 1 Dry thoroughly	None
OXYGEN EXTENSION TUBING	none	Change when excessive kinking or coiling. Maximum of 50 feet.
TRACHE MASK	every 3rd day: 1,2	Replace Monthly
VENTURI MASK	wipe with damp cloth daily	Replace Monthly
AEROSOL MASK	Every 3rd day: 1,2	Replace Monthly
HEAVY DUTY COMPRESSOR FILTER	Weekly: 1. Dry thoroughly	None
HEAVY DUTY COMPRESSOR LARGE VOLUME NEBULIZER	Empty & replace w/ sterile water daily. Every third day:1,2	None
HEAVY DUTY COMPRESSOR CORRUGATED TUBING	Every third day: 1,2	Monthly
SUCTION MACHINE BOTTLE	Empty as needed or at least daily. Every 3rd day: 1,2	None
SUCTION MACHINE CATHETER	Aspirate vinegar & water thru catheter if re-used.	Replace after each use or as directed
SUCTION MACHINE TUBING	Every 3rd day	Dissolve denture cleaner tablet in 2 cups water & aspirate through. Empty. Disassemble, clean w/ bottle 1,2