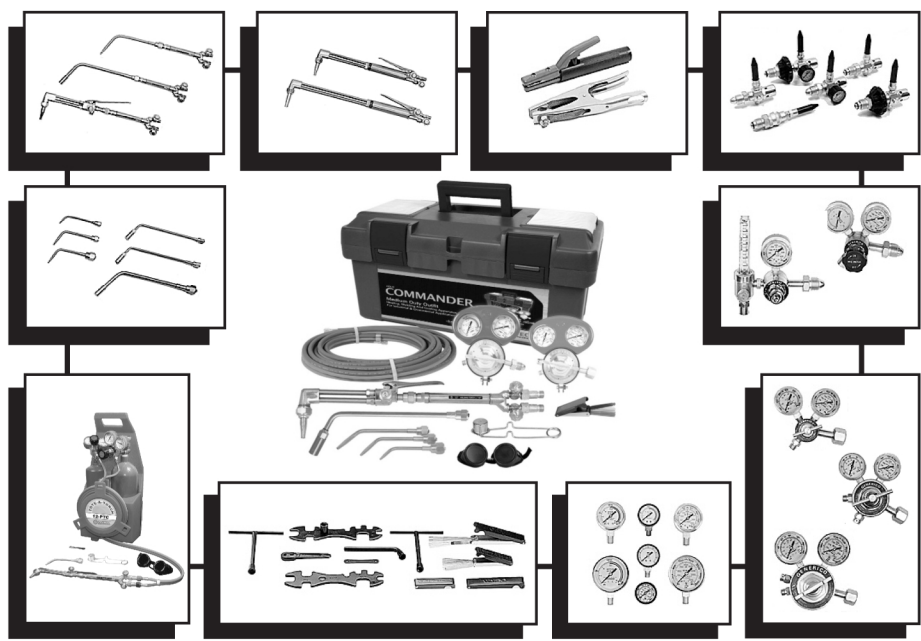


**WELDING AND CUTTING APPARATUS FOR THE PROFESSIONAL**

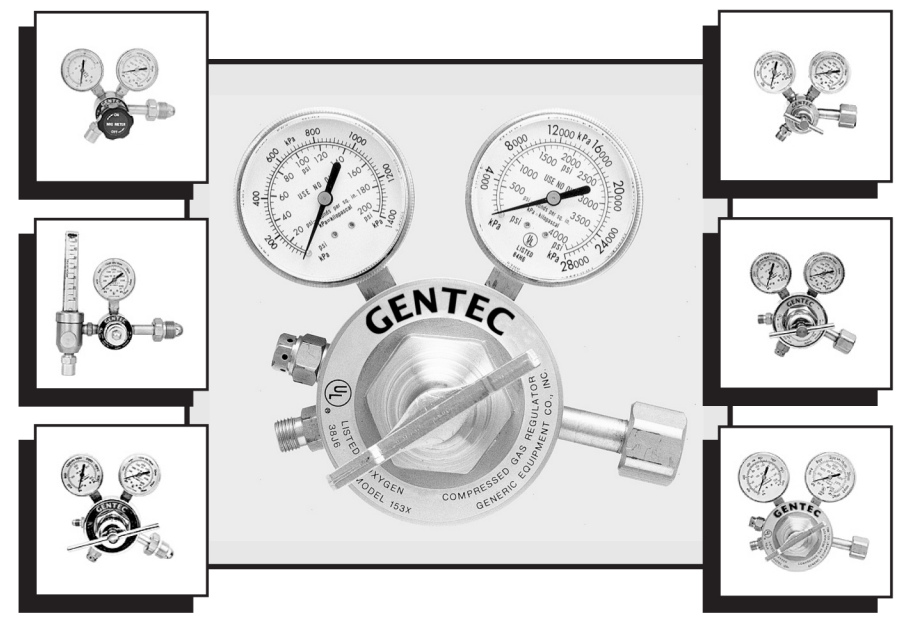


**ASK YOUR GENSTAR TECHNOLOGIES DISTRIBUTOR FOR A WELDING, CUTTING APPARATUS AND EQUIPMENT CATALOG**

**GENSTAR TECHNOLOGIES**, founded in 1969, is a California, U.S.A. corporation and a world class manufacturer of high quality welding and pneumatic products. In over 40 countries, **GENSTAR TECHNOLOGIES** serves industry through service oriented, safety, quality, and cost conscious distributors. They take pride in supplying the **GENSTAR TECHNOLOGIES** product line because it offers the user significant value and is backed up with the best warranty program in the industry.

**GENSTAR TECHNOLOGIES** Welding Apparatus and Equipment is manufactured using the latest state-of-the-art equipment. Our apparatus and equipment is produced, assembled and tested by an experienced, proud and dedicated work force that is committed to the standards of product integrity and excellence. Our main emphasis is on value . . . the best quality at the best prices.

The ever growing number of professionals who use **GENSTAR TECHNOLOGIES** products are prudent buyers. They appreciate the value received from a product, without being influenced by prejudice, distorted tradition, the name, or the place of manufacture. They examine the product and compare the safety, quality, and performance characteristics with their "big name brands." They find them all equal. Then they compare the cost and discover a significant difference. They find that **GENSTAR TECHNOLOGIES** products offer substantial savings.



- Important Information!! Please Read First.**
- Please read these instructions before using the regulator.
  - Please carefully make the connections at the Cylinder Valve and outlet connections. Forcing the connection will strip the threads.
  - **If there is an Adjustment Screw (Knob) which needs to be installed into the bonnet, do not push hard on the screw when turning it into the bonnet or the threads in the bonnet will be damaged (stripped).**
  - For CO<sub>2</sub> regulators that come with a CGA320 Inlet Connection, a washer is included on the Inlet Stem (Nipple). The Washer must be used when the regulator is connected to the Cylinder Valve or the connection will not be properly seated and may cause leaks.
  - **Damage caused by not following instructions may void the warranty of the regulator.**

**OPERATING INSTRUCTIONS FOR COMPRESSED GAS REGULATORS**

GENSTAR TECHNOLOGIES CO., INC.  
4525 EDISON AVENUE • CHINO, CALIFORNIA, 91710  
TEL (909) 606-2726 • FAX (909) 606-6485

# GENSTAR TECHNOLOGIES

## OPERATING INSTRUCTIONS FOR COMPRESSED GAS REGULATORS

**DO NOT OPERATE THIS APPARATUS UNLESS YOU ARE TRAINED IN ITS PROPER USE OR ARE UNDER COMPETENT SUPERVISION**

### IMPORTANT SAFETY PRECAUTIONS TO REMEMBER

- Always have a fire extinguisher handy.
- Secure cylinders to cart, wall or post to prevent them from falling.
- All cylinders should be used and stored in an upright position.
- Never drop or strike a cylinder or use a damaged cylinder.
- Never use oil or grease on any inlet or outlet connections or cylinder valves.
- Examine hoses for cuts, burns or worn areas before each use. Also inspect fittings and replace any found damaged.
- Do not repair hose with friction tape.
- Always wear gloves made of leather or a suitable substitute.
- Always wear welding goggles with proper filter lenses.
- Do not wear torn or ragged clothes. Sparks can ignite ragged ends.
- Never use oxygen or fuel gas to blow soot or dirt off of clothing.
- Never test for gas leaks with a flame. Use approved leak-detector product.
- Upon completion of work, inspect area for any possible fire or smoldering material.
- Working pressure on an acetylene regulator should never be set above 15 PSIG.

### SET UP AND OPERATION GUIDE

1. Secure cylinder in upright position. (As noted in safety precautions.)
2. Inspect the cylinder valve for grease, oil, or damaged threads.
  - ★ **CAUTION: If oil or grease is found in cylinder valve, discontinue use of cylinder immediately and contact your gas supplier.**
3. While standing to one side, rapidly open and close (“crack”) each cylinder valve. This clears the valve of any foreign material.
  - ★ **CAUTION: Do not open the cylinder valve any more than is necessary to clear the valve port. Opening the valve to much may cause the cylinder to tip over due to the force of the escaping gas. Do not stand in front of valve port.**
4. Confirm that the regulator has the correct pressure rating and gas service connection for the cylinder being used.
5. Inspect the regulator inlet connection for grease, oil, or damaged parts.
  - ★ **CAUTION: If oil or grease is found in the regulator inlet connection, discontinue use of regulator immediately and take it to a qualified repair station for cleaning.**
6. Attach regulators to proper cylinders. Use a wrench to ensure tight connections.
  - ★ **NOTE: When using a flowmeter regulator, regulator must be positioned vertically in order to obtain accurate flow readings.**
7. Turn regulator adjusting screw or knob counterclockwise to release any pressure on the adjusting spring. Close shut-off valve on flowmeter regulator.
  - ★ **CAUTION: Failure to release pressure on the adjusting spring before opening cylinder valve can damage diaphragm and render the regulator inoperable.**
8. While standing with the cylinder valve between you and the regulator, open cylinder valve slowly and check for leaks. Use only an approved leak detector solution.
  - ★ **CAUTION: Do not stand in front of or behind a regulator when opening cylinder valve. Acetylene cylinder valves should be opened a maximum**
9. Attach hose as required, and tighten nuts with wrench.

# GENSTAR TECHNOLOGIES

## OPERATING INSTRUCTIONS FOR COMPRESSED GAS REGULATORS

10. Purge Hose in a well ventilated area.
  - a. Turn regulator adjusting screw clockwise (flowmeter shut-off valve counter-clockwise) to allow 5 PSIG to pass through hose.
  - b. Allow the gas to flow approximately 10 seconds to purge the hose.
  - c. Turn regulator adjusting screw counter-clockwise (or flowmeter shut-off valve clockwise) to stop gas flow.
11. Attach required equipment to hose and tighten with a wrench.
12. Using adjusting screw (shut-off valve on flowmeter regulator) adjust regulator delivery pressure or flow as required for your application.

### WHEN YOU FINISH USING THE REGULATOR

1. Close the cylinder valve.
2. Open the valve on the downstream equipment to release all pressure from the system.
3. Close the valve on the downstream equipment after system pressure has been released.
4. Turn adjusting screw counterclockwise to release tension on adjusting spring.
5. After a few minutes, check the gauges on the regulator to ensure that the cylinder valve has been closed completely.
6. Remove regulator from cylinder if necessary.

### STATEMENT OF USER RESPONSIBILITIES

The service life of **GENSTAR TECHNOLOGIES** cutting and welding apparatus can be indefinite when properly installed, operated and maintained. The working conditions and servicing each individual gives this equipment will also effect the service life. This equipment should be checked periodically and repaired, reset, or replaced as necessary for continued safe and reliable performance. Property damage and/or personal injury may result if defective or improperly adjusted equipment is used.

### “THE BEST WARRANTY IN THE BUSINESS”

#### TWO YEAR WARRANTY

All **GENSTAR TECHNOLOGIES** manufactured welding apparatus & equipment is warranted to be free from defective material and workmanship for a period of one year- from the date of purchase. Any **GENSTAR TECHNOLOGIES** apparatus found to be defective either in material or workmanship during that time will be replaced by your distributor, provided that said apparatus was used under normal conditions for the purpose intended. Simply return the defective item to your distributor and he'll replace it, free of charge. It's that easy!

**GENSTAR TECHNOLOGIES** apparatus damaged or rendered inoperative due to normal wear and tear or abuse is not covered by this warranty and must be repaired at the sole expense of the equipment owner. **GENSTAR TECHNOLOGIES** apparatus should be serviced or repaired by qualified persons or repair stations only. Service or repair of this apparatus by other than qualified service personnel may void any warranties and relieve **GENSTAR TECHNOLOGIES** of any claims for damage and/or liability.