

## GAS REGULATORS

### INTRODUCTION

This chapter specifies general purpose gas regulators to be used with compressed gas cylinders. The chapter also describes acetylene and oxygen regulators to be used in brazing and welding applications. These regulators are of the two-stage type.

### SPECIAL RESPONSIBILITIES

It is the responsibility of the division/section using the gases to assure compliance with this chapter.

### INLET FITTING

Inlet fittings are specified in accordance with CGA\* Standards. The use of inlet adapters is not permitted within the Laboratory unless specific approval is obtained from the ES&H Section Head.

### APPLICATION

It is expected that these regulators will meet the requirements for the majority of applications in the Laboratory. The user is advised to review the delivery pressure range. No regulator is to be dismantled or altered in any fashion without specific approval of the ES&H Section head. Examples of acceptable general purpose regulators applicable to use with particular gases are listed in the attached table.

### CAUTION

These regulators cannot withstand any degree of vacuum on the outlet side. A small "Hoke" isolation valve (or equivalent) must be used in the outlet line in such applications.

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\* Compressed Gas Association

## GENERAL PURPOSE REGULATORS

<b>Gas</b>	<b>Inlet Fitting CGA No.</b>	<b>Outlet Fitting</b>
Argon	580	5/8-18 RH Female
Hydrogen	350	9/16-18 LH Male
Nitrogen	580	5/8-18 RH Female
Helium	580	5/8-18 RH Female
Carbon Dioxide	320	5/8-18 RH Female
Breathing Air	346	9/16-18 RH Male
Methane	350	9/16-18 LH Male
Isobutane	510	9/16-18 LH Male

## WELDING & BRAZING REGULATORS

<b>Gas</b>	<b>Inlet Fitting CGA No.</b>	<b>Outlet Fitting</b>
Oxygen	540	9/16-18 RH Male
Acetylene	510	9/16-18 LH Male