



*Series 700  
Single-Range  
Flowmeters*

**INSTALLATION AND OPERATION INSTRUCTIONS**

Before Installing or Operating, Read and Comply with These Instructions

Controls Corporation of America  
1501 Harpers Road Virginia Beach, VA 23454  
To Order Call 1-800-225-0473 or 757-422-8330 • Fax 757-422-3125  
[www.concoa.com](http://www.concoa.com)

**March 2001  
Supersedes October 1999**

## **USER RESPONSIBILITY**

This equipment will perform in conformity with the description contained in this manual and accompanying labels and/or inserts when installed, operated, maintained, and repaired in accordance with the instructions provided. This equipment must be checked periodically. Improperly working equipment should not be used. Parts that are broken, missing, worn, distorted or contaminated, should be replaced immediately. Controls Corporation of Americal (CONCOA) recommends that a telephone or written request for service advice be made to CONCOA Customer Service in Virginia Beach, Virginia, PHONE: 1-800-225-0473, FAX: 1-757-422-3125, or E-MAIL: e-mail@concoa.com.

This equipment or any of its parts should not be altered without prior written approval by CONCOA. The user of this equipment shall have the sole responsibility for any malfunction that results from improper use, faulty maintenance, damage, improper repair, or alteration by anyone other than CONCOA or a service facility designated by CONCOA.

## **SAFETY**

Use these flowmeters only with the gases for which they are intended, and only at the pressures for which they are designed.

Be sure that all connections and the flowmeter, in general, are clean.

Remove dirt or grease from the flowmeter and surrounding parts with a clean, lint-free cloth.

Periodically check for leaks.

CONCOA Series 700 Single-Range Flowmeters are designed to operate at

## **INTRODUCTION**

either a fixed flowmeter pressure of 30 PSIG or from a regulator capable of supplying 0-30 PSIG, depending upon model. They are specifically intended for applications requiring frequent changes in gas flow, and are engineered for accuracy, dependability, and ruggedness. Series 700 flowmeters are ideal for applications where a single flow scale will accommodate gas requirements.

1. For stock numbers 0805 0720, 0805 0721, 0805 0727, and 0805 0728 only - Connect the flowmeter to a pipeline or fixed pressure regulator

## **INSTALLATION**

delivering 30 PSIG, using a check valve, adapter, or hose as required. Connect a hose between the flowmeter outlet and the equipment.

2. For stock number 0805 0725 only - Connect to an adjustable regula-

tor capable of supplying 0-30 PSIG.

1. For stock numbers 0805 0720, 0805 0721, 0805 0727, and 0805 0728 - Open the gas supply valve completely. Turn the needle valve on the flowmeter until the center of the ball float indicates the required

## **OPERATION**

flow for the specific application. Check for leaks.

2. For stock number 0805 0725 only - The regulator pressure controls the flow rate. Turn in the adjusting screw on the regulator until the required flow is attained. Check for leaks.

A unit which is not functioning properly should not be used until all required

## **SERVICE**

repairs have been completed and the unit has been tested to ascertain that it is in proper operating order.

Repairs should be made by an authorized CONCOA service facility.

# Warranty Information

This equipment is sold by CONTROLS CORPORATION OF AMERICA under the warranties set forth in the following paragraphs. Such warranties are extended only with respect to the purchase of this equipment directly from CONTROLS CORPORATION OF AMERICA or its Authorized Distributors as new merchandise and are extended to the first Buyer thereof other than for the purpose of resale.

For a period of one (1) year from the date of original delivery (90 days in corrosive service) to Buyer or to Buyer's order, this equipment is warranted to be free from functional defects in materials and workmanship and to conform to the description of this equipment contained in this manual and any accompanying labels and/or inserts, provided that the same is properly operated under conditions of normal use and that regular periodic maintenance and service is performed or replacements made in accordance with the instructions provided. The foregoing warranties shall not apply if the equipment has been repaired: other than by CONTROLS CORPORATION OF AMERICA or a designated service facility or in accordance with written instructions provided by CONTROLS CORPORATION OF AMERICA, or altered by anyone other than CONTROLS CORPORATION OF AMERICA, or if the equipment has been subject to abuse, misuse, negligence or accident.

CONTROLS CORPORATION OF AMERICA's sole and exclusive obligation and Buyer's sole and exclusive remedy under the above warranties is limited to repairing or replacing, free of charge, at CONTROLS CORPORATION OF AMERICA's option, the equipment or part, which is reported to its Authorized Distributor from whom purchased, and which if so advised, is returned with a statement of the observed deficiency, and proof of purchase of equipment or part not later than seven (7) days after the expiration date of the applicable warranty, to the nearest designated service facility during normal business hours, transportation charges prepaid, and which upon examination, is found not to comply with the above warranties. Return trip transportation charges for the equipment or part shall be paid by Buyer.

*CONTROLS CORPORATION OF AMERICA SHALL NOT BE OTHERWISE LIABLE FOR ANY DAMAGES INCLUDING BUT NOT LIMITED TO: INCIDENTAL DAMAGES, CONSEQUENTIAL DAMAGES, OR SPECIAL DAMAGES, WHETHER SUCH DAMAGES RESULT FROM NEGLIGENCE, BREACH OF WARRANTY OR OTHERWISE.*

*THERE ARE NO EXPRESS OR IMPLIED WARRANTIES WHICH EXTEND BEYOND THE WARRANTIES HEREINABOVE SET FORTH. CONTROLS CORPORATION OF AMERICA MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE EQUIPMENT OR PARTS THEREOF.*