



**1/2-Inch
Station Outlet
Valves
Non-Return Type**

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

December 2004
Supersedes May 2000

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USER RESPONSIBILITY

This equipment will perform in conformity with the description contained in this manual and accompanying label and/or inserts when installed, operated, maintained and repaired in accordance with the instructions provided. This equipment must be checked periodically. Defective equipment should not be used. Parts that are broken, missing, plainly worn, distorted or contaminated, should be replaced immediately.

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

CUSTOMER SERVICE

Should such repair or replacement become necessary, Controls Corporation of America (“CONCOA”) recommends that telephonic or written request for service advice be made to the CONCOA Customer Service in Virginia Beach, Virginia. PHONE: 1-800-225-0473; FAX: 1-757-422-3125; E-MAIL: e-mail@concoa.com. Please be prepared to provide the model number and serial number of the equipment involved, in addition to some details regarding its application.

INTRODUCTION

The CONCOA Station Outlet Valve is a compact, combined shut-off and check valve designed to meet the need for a non-return type shut-off valve on drops and rises of a pipeline system. It is a diaphragm type and, being packingless, has no stuffing box. Performing a dual function, it eliminates the necessity of installing both a shut-off valve and a check valve. Valve inlets are for ½-inch pipelines and the outlets, pressure rating, and service are listed in Table I. Refer to Table II for the suggested plug and chain assembly accessories to be used when valve is not in use.

Note

These valves are not recommended for fuel gas service less than 5 PSIG.

How to Order

| ½" Direct Connection to Station Regulators | | | | | |
|--|----------------------|--------------|-----------------------------|----------------------------|--------------------------------------|
| Stock Number | Gas Service | Inlet Thread | Outlet Thread | Rating ¹ (PSIG) | Plug and Chain Assembly ² |
| 801 0034 | Oil-Free Inert | ½" NPT Ext. | "C" ⅞-14 RH Int. CGA 034 | 200 | 801 0734 |
| 801 0035 | Oil Containing Inert | ½" NPT Ext. | "C" ⅞-14 LH Int. CGA 035 | 200 | N/A |
| 801 0233* | Oxygen | ½" NPT Ext. | "C" ⅞-14 RH Ext. CGA 024 | 200 | 801 0237 |
| 801 0601* | Fuel Gas | ½" NPT Ext. | "C" ⅞-14 LH Ext. CGA 025 | 200# | 801 0236 |

| ½" Direct Connection to ½" Pipe | | | | |
|---------------------------------|---------------------------------|-----------------|-----------------|----------------------------|
| Stock Number | Gas Service | Inlet Thread | Outlet Thread | Rating ¹ (PSIG) |
| 801 8001 | General Non-Corrosive Acetylene | ½" NPT External | ½" NPT Internal | 200# |

1. Do not exceed pressure rating
2. Plug and chain assembly is a safety precaution for use when valve is not in operation. Includes adapter where necessary.

* These valves were developed especially for high flow operations where the full flow capacity of ½" I.D. hose is required. Further, these valves can be installed in pipelines equipped with all regulators that have 7/8-14 thread.

Acetylene not to exceed 15 PSIG

Notes

CGA 024 - For Oxygen only.

CGA 025 - For Fuel gases such as acetylene, propylene, propane, hydrogen and natural gas.

CGA 034 - Oil-free inert, such as argon, helium, nitrogen and oil-free CO₂.

CGA 035 - Oil-containing inert such as oil pumped nitrogen oil-containing CO₂, and shop air.

INSTALLATION

- a. Install valve in a horizontal position with handwheel up. Check to see if valve operates properly.

Note

These valves can be installed vertically or upside-down if the check valve feature is not required.

- b. Use only for gas service stamped on valve body.
- c. Inlet pressure must never exceed rating stamped on valve body.

OPERATION

- a. Close valve when gas is not being withdrawn from outlet.
- b. Install plug and chain assembly on valve when it is not in use and no other attachment is used.

MAINTENANCE AND SERVICE

A unit that is not functioning properly should not be used until all required repairs have been completed and the unit has been tested to ascertain that it is in proper operating condition.

Minor repairs of the station valve, such as replacement of parts, should ordinarily be performed by a competent individual having at least general experience in the maintenance and repair of equipment of this nature.

Caution

No such maintenance or repair should ever be undertaken or attempted by anyone not having such qualifications.

For other repairs, send station valve to an authorized CONCOA service facility. The following are hints for good maintenance practice.

- a. Test station valve periodically with an oxygen compatible leak detection solution to locate leaks.
- b. If necessary, use only Fluorolube to lubricate valve stem.

Caution

Do not use other lubricant as they may present a combustion hazard with oxygen.

- c. Shut down gas supply, drain gas from valve and system, and loosen valve stem before removing bonnet.
- d. When using a vise or wrench on the valve, use only enough torque to hold or move the part. Be careful not to score or distort the body, threads, or other parts.
- e. For replacement parts, use only those CONCOA parts designed for station valve.

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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.

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