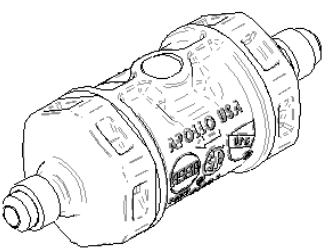
# CARBONATED BEVERAGE BACKFLOW PREVENTER MODEL CBBP-A 1/4" - 3/8"



GENERAL INSTALLATION AND OPERATING INSTRUCTIONS

SAVE THESE INSTRUCTIONS

**IMPORTANT**

## INSTALLATION, OPERATION, AND MAINTENANCE OF APOLLO VALVES 4C-100A SERIES CARBONATED BEVERAGE BACKFLOW PREVENTER (MODEL CBBP-A)

The Apollo Valves 4C-100A series carbonated beverage backflow preventer consists of two independently acting check valves biased to normally closed positions. An atmospheric port located between the check valves vents water and/or CO2 under backflow conditions, thus protecting the potable water supply.Additionally, an integral strainer at the inlet insures debris does not enter the carbonator unit. Apollo Valves CBBP-A is available with 1/4"SAE flare, 3/8"SAE flare or 3/8"MNPT end connections.

**CALIFORNIA PROP 65: WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

### INSTALLATION

NOTE: Install carbonator per manufacturer's instructions and local plumbing codes. Copper tubing should never be used downstream of the backflow preventer.

1. Turn off water supply and carbonator. Disconnect water supply piping from carbonator. A small quantity of water may discharge from the supply piping and/or carbonator after disconnecting.
2. Connect the CBBP-A to the carbonator inlet with the marking arrows pointing in the direction of flow. Do not over tighten. Tighten holding end cap hex and connecting hardware only - do not apply wrench to body.
3. Connect the water supply piping to the CBBP-A. Do not over tighten. Tighten holding end cap hex and connecting hardware only - do not apply wrench to body.
4. A site tube may be attached to the atmospheric port, which is tapped to accept 1/8" MNPT. An 1/8" MNPT X 1/4" barbed fitting is provided to accept a 1/4" I.D. hose (hose not included). If desired, the sight tube can extend the vent to an approved air-gapped termination.
5. Check all connections, then turn on water supply. Tighten any connections where leakage is detected.

NOTE: During backflow conditions, water and/or CO2 will discharge from the atmospheric port. Appropriate measures should be taken to accommodate this potential flow, especially in areas where the presence of water is objectionable.

### OPERATION

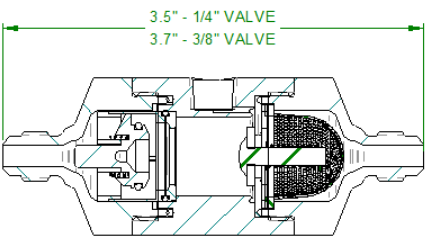
Under static (non-flowing) conditions, the check valves remain in the closed position. When a valve is opened downstream (i.e. a drink is delivered from the carbonator), the check valves open and permit water flow. Under backflow conditions, the diaphragm seat on the first check lifts and permits flow through the atmospheric port, thus protecting the potable water supply. Under normal operation, the atmospheric port will not discharge.

## MAINTENANCE

NOTE: Turn off water supply and carbonator prior to attempting maintenance on the CBBP-A. Always check for water and CO2 leaks prior to returning to service. Do not expose the unit to freezing temperatures.

The Apollo Valves CBBP-A should be serviced as required per local plumbing codes. Additionally:

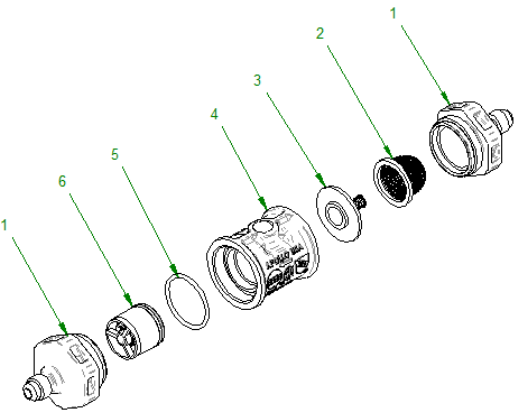
1. Periodically remove and clean the strainer located in the upstream end cap. Frequency of cleaning is dependent on local water and plumbing conditions.
2. Once a year remove the check valves from the unit and inspect for excessive wear, fouling debris, spring and sealing surface integrity, etc. Clean or replace the check valves as required. See tabulation for repair kit part numbers on page 4.
3. If the atmospheric port discharges, disassemble, thoroughly inspect, clean and assemble with new parts as required. See table below for repair kit part numbers.




APOLLO CBBP-A
(SECTION VIEW)

| CBBP-A REPAIR KIT# 4C-100-00A (ALL SIZES) | | |
|---|---|---|
| ITEM | DESCRIPTION | PART# |
| 2 | STRAINER | G-3918-00 |
| 3 | UPSTREAM CHECK VALVE | W-8536-05 |
| 5 | O-RING | D-1860-00 |
| 6 | DOWNSTREAM CHECK VALVE | F-4207-00 |

NOTE: For item number references and identification see exploded view on page 4.




| PART & MATERIAL IDENTIFICATION TABLE | | |
|---|---|---|
| ITEM | DESCRIPTION | MATERIAL |
| 1 | END CAP | Noryl (GFN2) |
| 2 | STRAINER | PVC/304 Stainless Steel |
| 3 | UPSTREAM CHECK | EPDM/Stainless Steel |
| 4 | BODY | Noryl (GFN2) |
| 5 | O-RING | EPDM |
| 6 | DOWNSTREAM CHECK | EPDM/Stainless Steel/Acetal |