INSTALLATION, OPERATION, AND MAINTENANCE OF CONBRACO 4C SERIES CARBONATED BEVERAGE BACKFLOW PREVENTER (MODEL CBBP)

The Corbraco 4C 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 CO 2 under backflow conditions, thus protecting the potable water supply. Additionally, an integral strainer at the inlet insures debris does not enter the carbonator unit. Combraco's 4d series CBBP is available with 1/4" or 3/6" 45" flare end connections.

- NO TE: Install carbonator per manufacturer's instructions and local plumbing odds. Copper tubing should never be used codes. Copper tubing should never be used codes. Sopper tubing should never be used codes.
- 1) Turn off water supply and carbonator. Disconnect water supply piping from earbonator. A small quantity of water may discharge from the supply piping and/or carbonator. A small quantity of water may discharge from the supply piping and/or carbonator after disconnecting.

 2) Connect the CBBP 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 hold body on nameplate flats.

 3) Connect the water supply piping to the CBBP. Do not cover tighten. Tighten holding end cap hex and connecting hardware only do not hold body on nameplate flats.

 4) A site tube may be attached to the atmospheric port, which is tapped to accept it? NPT. A 17 male NPT x 1/4* barbed fitting is provided to accept a 1/4** I.D. hose. If desired, the sight tube can extend the vent to an approved air-gapped termination.

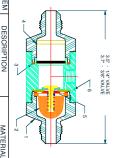
 5) Check all connections, then turn on water supply. Tighten any connections where leakage is detected.
- N O TE: During backflow conditions, water and/or CO₂ will discharge from the atmospheric port. Appropriate measures should be taken to accommodate this potential flow.

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 backflow conditions, the diaphragm seat on the first check lifts and permits flow through the antempeheric port, thus porteding 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 GBB- Always check for water and CQ₂ leaks prior to returning to service. Do not expose the unit to freezing temperatures.
- Conbraco's carbonated beverage backflow preventer should be serviced as required per local plumbing codes. Additionally:
- 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. If the atmospheric port discharges, disassemble, thoroughly inspect, clean and assemble with new parts as required. See tabulation for repair kit part numbers on page 4.



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Body	Upstream Check Valve	Downstream Check Valve	O-ring	Strainer	End Cap	DESCRIPTION	4
Acetal	EPDM/Stainless Steel	Nitrile/Stainless Steel/ Acetal	Nitrile	PVC/Stainless Steel	Acetal	MATERIAL	

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CARBONATED BEVERAGE BACKFLOW PREVENTER

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≤	PART NAME	1/4" CBBP	3/8" CBBP
3	200	PART NUMBER PART NUMBER	PART
l 'I	VALVE ASSEMBLY	4C-101-01	4C-102-01
	END CAP	F-3207-00	F-3208-00
. •	STRAINER	G-3918-00	G-3918-00
	UPSTREAM CHECK VALVE	W-8536-05	W-8536-05
-	BODY	Q-5612-00	Q-5612-00
-	O-RING	D-1860-00	D-1860-00
	DOWNSTREAM CHECK VALVE	F-3209-00	F-3209-00
١.	REPAIR KIT (ITEMS 2-5)	4C-100-00	4C-100-00
٠.	BARBED FITTING (NOT SHOWN)	K-4445-00	K-4445-00

Apollo Valves

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INSTALLATION, OPERATION, AND MAINTENANCE GUIDE

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