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

The Contraco 4C series carbonated beverage backflow preventer consists of two independently acting check valves biased to normally closed positions. An atmospheric portiocated between the check valves were water analyst CO<sub>2</sub> under backflow conditions, thus protecting the potatile water supply. Additionally, an integral strainer at the inlet insures debris does not enter the carbonator unit. Contraco's 4C series CBBP is available with 1/4" or 3.8" 45" faire end connections.

## INSTALLATION

NOTE: Install carbonator per manufacturer's instructions and local plumbing codes. Copper bing should return be used downs team of the backdow pretents.

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 atter disconnecting.

2) Connect the CBBP to the carbonator inled 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 stats.

3) Connect the water supplypiping to the CBBP. Do not over tighten. Tighten holding end cap hex and connecting hardware only- do not hold body on nameplate stats.

4) Aster tube may be attached to the atmospheric port, which is stapped to accept 1.8" NPT. A 18" male NPT X 14" barbed thing is provided to accept a 14" LD, hose, it desired, the sight tube can extend the verific to an approved air gapped termination.

5) Check fall connections, then turn on water supply. Tighten any connections where leakage is detected.

N 0 T E: During back fow conditions, water and/or CO<sub>2</sub> will discharge from the atmospheric port. Appropriate measures should be taken to accommodate this potential flow.

## OPERATION

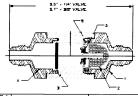
Under static (non-flowing) conditions, the check valves remain in the closed position. When a valve is opered downstream(i.e. a drink is delivered from the carbonator), the check valves open and permit water flow. Under backflow conditions, the daphragm seat on the first check lifts and permits flow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

2

## MAINTENANCE

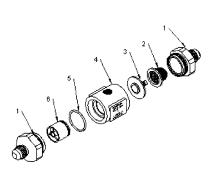
NOTE: Turn off water supply and carbon ator prior to attempting maintenance on the CBBP. Always check for water and CO<sub>2</sub> leaks prior to returning to service. Do not expose the unit to freezing temperatures.

- Periodicallynemove 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.



IT BM	DESCRIPTION	MATERIAL	
1	End Cap	Acetal	
2	Strainer	PVC/Stainless Steel	
3	O-ring	Nitrile	
4	Downstream Check Valve	Nitrile/Stainless Steel/ Acetal	
- 5	Upstream Check Valve	EPDM/Stainless Steel	
6	Body	Acetal	

3



ITEM	PART NA ME	1/4" CBBP Part Number	3/8" C B B P Part Number
	VALVEASSEMBLY	4C-101-01	4C-102-01
1	END CAP	F-3207-00	F-3208-00
2	STRAINER	G-3918-00	G-3918-00
3	UPSTREAM CHECK VALVE	W-8536-05	W-8536-05
4	BODY	Q-5612-00	Q-5612-00
5	O-RING	D-1860-00	D-1860-00
6	DOWNSTREAM CHECK VALVE	F-3209-00	F-3209-00
	REPAIR KIT (TEMS 2-5)	4C-100-00	♦C-100-00
	BARBED FITTING (NOT SHOWN)	K-4445-00	K-1445-00



CARBONATED BEVERAGE **BACKFLOW PREVENTER** 



INSTALLATION, OPERATION, AND MAINTENANCE GUIDE

CONBRACO INDUSTRIES, INC.

P.O. BOX 247

MATTHEWS, N.C. 28105

704-847-9191

www.conbraco.com

DALL PRINT TO BE ON ONE PAGE (FRONT AND BACK) FOLDED IN MIDDLE SO AS TO MAKE A FOUR PAGE BOOKLET. PAGE NUMBER 1 MUST FACE OUTWARD.

2) TYPE SET IN HELVET DA FONT (EXCEPTION FOR ITALD ZEO PORTION OF NOTE ON PAGE 2 ALLOUNABLE TEXT MUST BE ORTENTED IN SAME DIRECTION FRONT AND BACK GAND PRINTED IN BLACK INK.

16313400 REV.C

Ø

0