

CIP Spray Ball

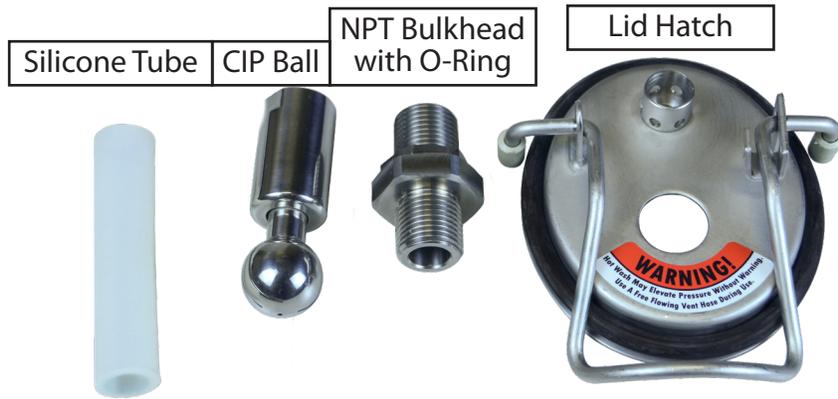
Assembly, Operation, & Maintenance

Congratulations on your purchase, and thank you for selecting the CIP Spray Ball from Blichmann Engineering™. We are confident that it will provide you years of service and many gallons of outstanding beer. This manual will familiarize you with the use, assembly, and the sanitation procedures for the product.

PLEASE READ AND THOROUGHLY UNDERSTAND THIS MANUAL PRIOR TO USE FOR IMPORTANT SAFETY INFORMATION!

About This Manual:

- Warning:** Sections labeled "Warning" can lead to serious injury or death if not followed. Please thoroughly read these sections and understand them completely before use. If you do not understand them or have any questions, contact your retailer or Blichmann Engineering (www.BlichmannEngineering.com) before use.
- Caution:** Sections labeled "Caution" can lead to equipment damage or unsatisfactory performance of the equipment. Please read these sections thoroughly. If you have any questions, contact your retailer or Blichmann Engineering (www.BlichmannEngineering.com) before use.
- Important:** Sections labeled "Important" should specifically be followed to ensure satisfactory results with the product.



Caution: Do NOT use any cleaner or sanitizer containing chlorine such as bleach. Over time, this will pit and erode stainless steel.

The Blichmann Engineering CIP spray ball is an assistive cleaning tool to aid in the cleaning and sanitizing of the Blichmann fermentors and is not intended to adhere to ASME BPE standards. The CIP Spray ball is ideal for use in the cleaning of fermentation vessels post fermentation, cleaning and sanitization of kegs pre and post use among other applications.

Attach the CIP lid hatch as shown in **Figure 1**. Always operate with the silicone hose attached. This will ensure the hot liquid will not be released out the hole in the lid hatch. Leave in the airlock/blow off on the fermentor when operating.



Operation

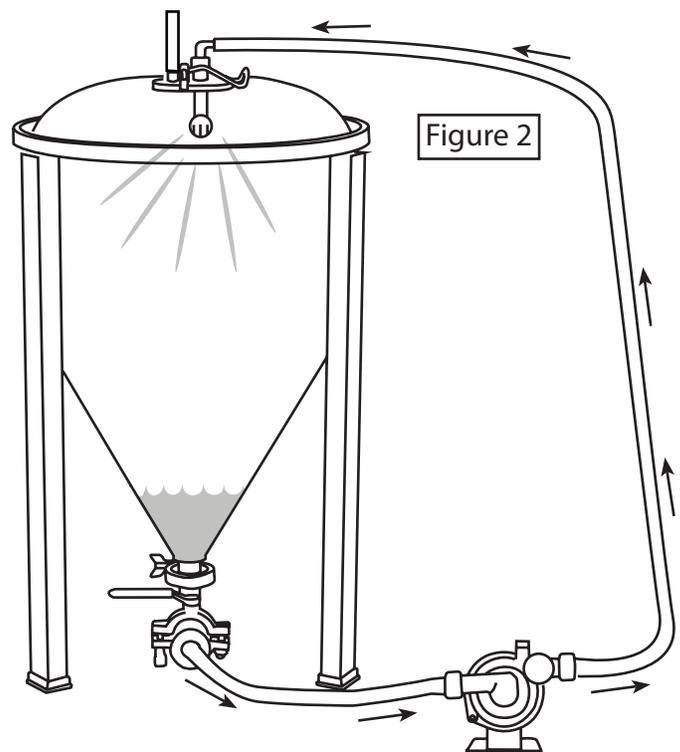
Option 1: (Fermentor Fluid Reservoir)

After the fermentor has been drained of its contents attach a 1/2" barbed fitting to the bottom dump valve.

1. Before using the CIP Spray Ball rinse out any loose material inside the fermentor
3. Once the rinse is complete connect the hoses to the pump as shown in **Figure 2**.
4. Fill the fermentor with a minimum 1/2 gallon of warm PBW™ (Powdered Brewery Wash™).
5. Recirculate for 45 mins.
6. Drain the contents and sanitize.

Tip: Never run the pump dry.

Warning: Never operate the CIP spray ball without first openly venting the fermentor to the atmosphere! Gases in the fermentor can expand and create dangerous pressures or vacuums.



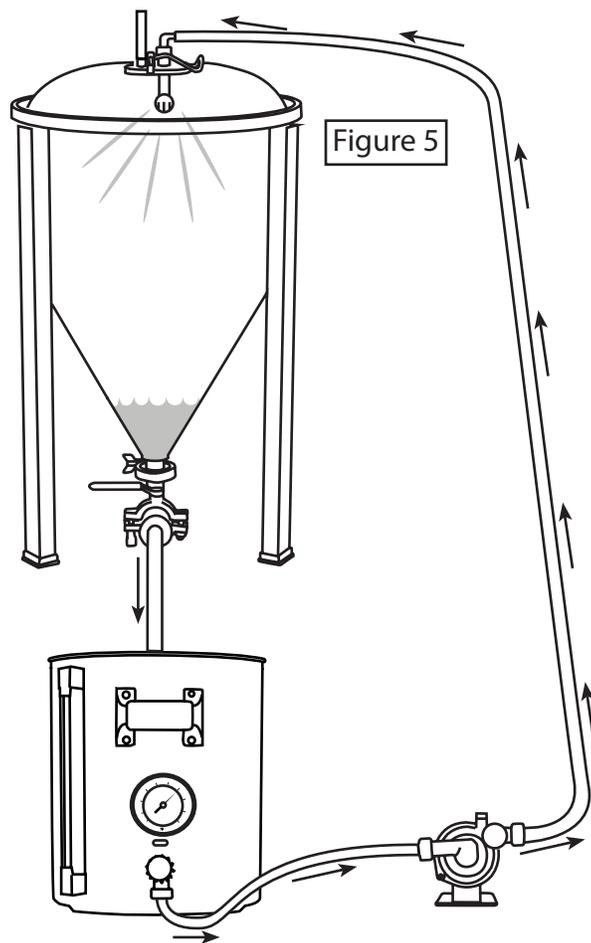
Option 2: (Kettle Fluid Reservoir)

After the fermentor has been emptied of its contents attach a ½" barbed fitting to the bottom dump valve.

1. Before using the CIP Spray Ball rinse out any loose material inside the fermentor
2. Once the rinse is complete connect the hoses to the pump and kettle as shown in **Figure 5**.
3. Fill the kettle with enough water to completely recirculate and add in the recommended amount PBW™ (Powdered Brewery Wash™).
4. Heat the PBW™ in the kettle and Recirculate for 45 mins.
5. Drain the contents and sanitize.

Tip: Never run the pump dry.

Warning: Never operate the CIP spray ball without first openly venting the fermentor to the atmosphere! Gases in the fermentor can expand and create dangerous pressures or vacuums.



Post CIP Disassembly and Cleaning

Disassemble and clean fermentor fittings and seals as outlined in the cleaning and sanitization sections of fermentor product manuals. Inspect fermentor and lid and scour any unreached areas where the fittings and lid hatch seal against the fermentor with a Scotch-Brite™ type green scouring pads.

Caution: Do not use a steel wool scouring pad as the metal particles will rust on the surface of the parts.

Blichmann Engineering Product Warranty

A. Limited Warranty

1. Blichmann Engineering warrants to the original purchaser that this product will be free from manufacturing defects in material and workmanship for a period of one (1) year from the date of purchase by the customer. Proof of purchase is required. Blichmann Engineering's obligation to repair or replace defective materials or workmanship is the sole obligation of Blichmann Engineering under this limited warranty.
2. The limited warranty covers only those defects that arise as a result of normal use of the product and does not cover any other problems, including, but not limited to, those that arise as a result of:
 - a. *Improper maintenance or modification;*
 - b. *Damage due to incorrect voltage or improper wiring by customer;*
 - c. *Operation outside of the product's specifications;*
 - d. *Carelessness or neglect to operate the product in accordance with instructions provided with the product;*
 - e. *Damaging the tamper label on the product;*
 - f. *Damage by over-tightening the fasteners;*
 - g. *Failure to follow cleaning and / or maintenance procedures; or*
 - h. *Exceeding published operational temperatures.*
3. Blichmann Engineering reserves the right to request delivery of the defective component for inspection before processing the warranty claim. If Blichmann Engineering receives, during the applicable warranty period, notice of a defect in any component that is covered by the warranty, Blichmann Engineering shall either repair or replace the defective component with a new or rebuilt component at Blichmann Engineering's option.
4. Blichmann Engineering must be notified within seven (7) days of the delivery date of any shipping damage. Customer is responsible for shipping damage outside of this time period. Approval for return must be provided by Blichmann Engineering prior to any return. Customer is responsible for keeping all original packaging material for warranty returns. Blichmann Engineering is not responsible for damage from improperly packaged warranty returns, and these repair costs will be the sole responsibility of the customer. Shipping costs for warrantee returns are covered only for the contiguous United States.
5. Blichmann Engineering's limited warranty is valid in any country where the product is distributed.

B. Limitations of Warranty

1. Any implied warranty that is found to arise by way of state or federal law, including any implied warranty of merchantability or any implied warranty of fitness, is limited in duration to the terms of this limited warranty and is limited in scope of coverage to this warranty. Blichmann Engineering disclaims any express or implied warranty, including any implied warranty of fitness for a particular purpose or merchantability, on items excluded from coverage as set forth in this limited warranty.
2. Blichmann Engineering makes no warranty of any nature beyond that contained in this limited warranty. No one has authority to enlarge, amend, or modify this limited warranty, and Blichmann Engineering does not authorize anyone to create any other obligation for it regarding this product.
3. Blichmann Engineering is not responsible for any representation, promise, or warranty made by any independent dealer or other person beyond what is expressly stated in this limited warranty. Any selling or servicing dealer is not Blichmann Engineering's agent, but an independent entity.

C. Limitations of Liability

1. The remedies provided in this warranty are the customer's sole and exclusive remedies.
2. Except for the obligations specifically set forth in this warranty, in no event shall Blichmann Engineering be liable for direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any other legal theory and whether or not advised of the possibility of such damages.
3. This warranty does not cover, and in no event shall Blichmann Engineering be liable for, travel, lodging, or any other expense incurred due to manufacturing defects in material and workmanship, or any other reason.
4. Any performance of repairs after the warranty coverage period has expired or performance of repairs regarding anything excluded from coverage after this limited warranty shall be considered good-will repairs and they will not alter the terms of this limited warranty, or extend any warranty coverage period.
5. Venue for any legal proceedings relating to or arising out of this warranty shall be in Tippecanoe County, Indiana, United States, which courts will have exclusive jurisdiction.

D. Local Law

1. This warranty gives the customer specific legal rights. The customer may also have other rights that vary from state to state in the United States or other countries.
2. To the extent that this warranty is inconsistent with local law, it shall be deemed modified, only to the extent necessary to be consistent with such local law.

This product uses FDA and/or NSF approved food grade materials anywhere the product touches the beverage.
Warning: This product contains or may contain chemical(s) known to the State of California to cause cancer, birth defects, or other reproductive harm.