

# CWS Series Contact Retention Tanks



The CWS Series Contact Tanks includes an internal baffling system that allows uniform mixing and improved contact time to meet a .3 minimum baffle factor, as set by many health agencies.

The distribution system in our tank provides for water to enter the top of the tank, distribute at the bottom of the tank, and exit at the top of the tank, providing maximum contact time.

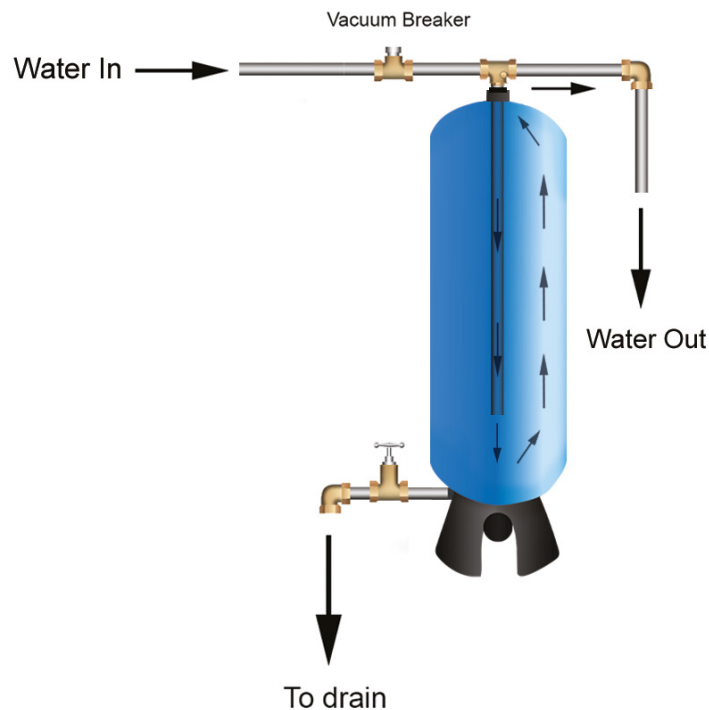
## Operating Conditions

Maximum operating pressure: 10 bar (150 psi)  
Operating temperature range: 1 - 50°C (34 - 120°F)

## Material of Construction

All materials of construction in contact with water are food grade materials.  
Inner shell (liner): polyethylene (PE)  
Outer shell: Premium fiberglass embedded in epoxy resin  
Inlet inserts are made of injection molded glass reinforced thermal plastic.

## Contact Retention Tank Flow Diagram



### Key

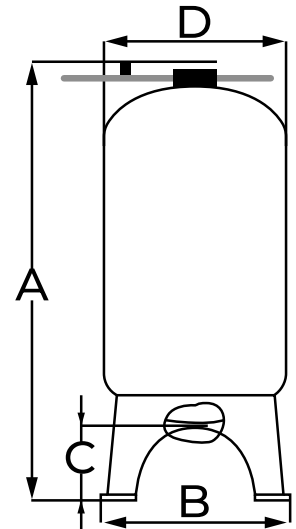
- Water piping
- Vacuum Breaker
- Gate or ball Valve

# Piping Guide

1. Attach in-out head to top Of tank. DO not use thread tape, sealant, or lubricant on adaptor fittings going into the Top or Bottom of the tank, as it uses an O-ring seal. Lubricate O-ring with silicone lube only.
2. For chlorine/peroxide/soda ash mixing contact tanks: connect the inlet piping to the inlet port that feeds the center tube going into the tank. Use Teflon tape on the pipe fittings and/or Teflon pipe joint compound.
3. Connect the Outlet piping to the Outlet port on the top fitting Of the contact tank using flexible lines. DO not hard pipe.
4. Install a vacuum relief valve to a tee on the inlet pipe to the contact tank.
5. Install a PVC or other ball valve on the bottom of the tank to be able to drain down the tank period-cally.
6. Every few months or as needed, open the valve at the bottom and flush the tank under pressure to flush out any accumulated sediment.



Contact Tanks Specs								
MODEL	VOLUME GALLONS	VOLUME LITERS	A	B	C	D	PIPE SIZE	TOP & BOTTOM OPENING THREADS
1465	39.3	148.5	80.1" / 2032.54 mm	13.85" / 352 mm	8.86" / 225 lmm	14.25" / 362 mm	1" or 1-1/2"	4" 8-UN
1665	50.8	192.1	81.2" / 2062.48 mm	15.83" / 402 mm	10.1" / 255 mm	16.23" / 412 mm	1" or 1-1/2"	4" 8-UN
1865	70.9	268	83.56" / 2122.82 mm	17.75" / 451 mm	12.99" / 330 mm	18.15" / 461 mm	1-1/2" or 2"	4" 8-UN
2162	90.2	341	80.4" / 2042.16 mm	20.98" / 533 mm	12.99" / 330 mm	21.38" / 543 mm	1-1/2" or 2"	4" 8-UN
2465	110.8	419	85.13" / 2161.462 mm	24.25" / 616 mm	12.99" / 330 mm	24.21" / 615 mm	1-1/2" or 2"	4" 8-UN



**NOTE: Do not attach rigid copper or steel pipe to tank without using flexible connectors. Use flex lines on the IN and OUT if using rigid copper or steel piping. Contact tank may expand and contract during changes in line pressure, causing damage to tank if installed using rigid piping with no ability to flex slightly. We have flex lines if you need to order some.**

## More information

☎ Call us: 831-462-8500, or

✉ Email us: support@cleanwaterstore.com

