



NEOGEN's Water Treatment Program

Improving cattle drinking water – one gallon at a time

Of all the nutrient classes, water is most commonly overlooked in cattle production. Water can harbor bacteria, viruses, and fungi. Along with affecting the palatability of the water, contaminated water can spread disease through a cattle operation.

The best option in providing optimal water to animals is through NEOGEN's Water Treatment Program. Featuring a full line of EPA-approved waterline cleaners and disinfectants, NEOGEN's Water Treatment Program can help provide the water quality necessary for cattle production.



WATER LINE CLEANING

Importance of Water Line Cleaning

Water lines accumulate scale buildup, organic sludge, and contaminants that can:

- restrict water flow
- interfere with water supplements
- transmit harmful pathogens

Benefits of water line cleaning include:

- increased water flow
- increased water consumption, due to increased availability
- reduced contamination due to line build up
- reduction in clogged or leaky drinkers

Which product is right for cleaning my water lines?



Peraside

- Peroxyacetic acid
- Used for slime and mineral build-up
- Terminal water line cleaning



Peraside 15

- Peroxyacetic acid-based microbicide
- Used for:**
- Premise disinfecting and deodorizing
 - Cleaning drinking lines
 - Equipment sanitation
 - Slime and odor control
 - Animal housing facilities
 - Bacteria and algae control in wastewater treatment systems



Siloxycide®

- Hydrogen peroxide and silver nitrate
- Used for organic based slime accumulation
- Can be used in the presence of animals

NEOGEN'S CHLORINE DIOXIDE WATER DISINFECTION SYSTEM

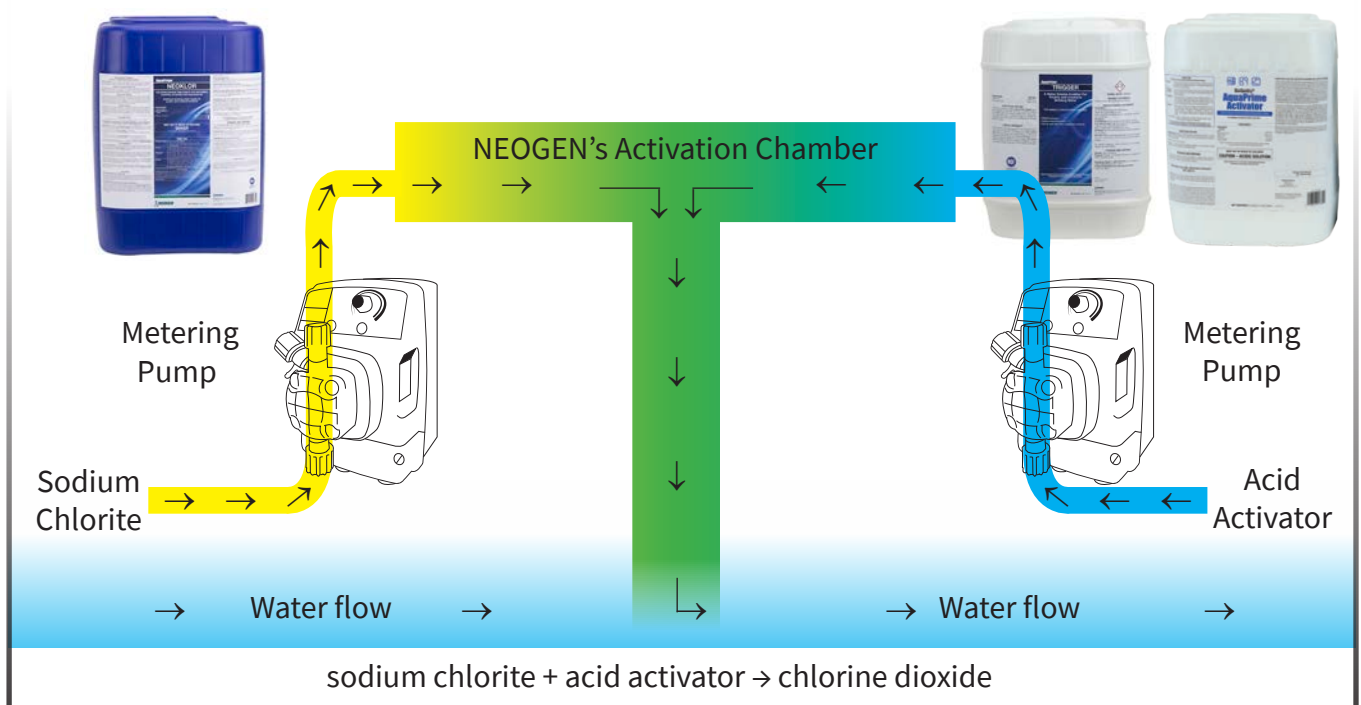
Why Chlorine Dioxide?

- Not sensitive to water pH or hardness
- Longer residual disinfectant than chlorine
- Penetrates biofilm, cleaning away years of buildup
- Effective against chlorine-resistant pathogens including:
 - *Salmonella enteritidis*
 - *Campylobacter jejuni*
 - *Clostridium perfringens* (vegetative cells)
 - *E. coli*

Why NEOGEN?

- Years of experience in chlorine dioxide water disinfection in cattle drinking water
- Enclosed system that generates chlorine dioxide on-demand, based on water consumption
- Efficient system utilizing EPA-approved disinfectants
- Economical system and operation costs
- Compatible with a wide range of water conditions and pH levels

How Does it Work?





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What's Next?

- Collect source water samples and send them off for laboratory analysis
- Design a water disinfection program based on the source water profile
- Installation of the water disinfection system on site
- Testing and calibration of water disinfection system
- Continued support of the system

If you are interested in learning more about NEOGEN's Water Treatment Program, please contact your NEOGEN representatives; Dr. Ashby Green or Justin Jones.

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