

SteriComp PFS™

The first patented portable pneumatic pressure filtration sterilizer



An elegant solution for low volume liquid sterilization and filling



www.neosmedical.com

“Enriching Lives Through Innovation”



Key Benefits Over Volumetric Pumps For Sterilizing + Filling

- FILLING PUMPS ARE DESIGNED FOR FILLING, NOT PRESSURE FILTRATION
- UP TO 100 PSI PUSHES LIQUIDS QUICKLY THROUGH 0.2µm DISC FILTERS
- SMALL AND LIGHT WEIGHT (7LBS)
- CORDLESS
- RELIABLE (NO ELECTRONICS)
- AFFORDABLE
- NO COSTLY DISPOSABLES
- LOW DEAD SPACE = LOW DRUG WASTE



What is SteriComp PFS™ ?

SteriComp PFS is a new patented machine* which allows pharmacists, doctors, veterinarians, and other health personnel to quickly and simply sterilize liquid medications by pressure filtration with a 0.2µm antimicrobial membrane filter. Sterilization by filtration is employed where heat sterilization cannot be used (e.g. when heat will degrade the medication).

SteriComp simplifies the compounding process when low volumes of sterile liquid medicines need to be produced. The purpose of **SteriComp** is to maximize speed and efficiency and prevent operator fatigue or repetitive use injury when using a syringe with membrane filter to sterilize liquid medications. **SteriComp** may also be used by lab technicians when efficient filtration sterilization of low volumes of liquids is necessary.

SteriComp is powered by industry-standard compressed gas cartridges which use pressurized CO₂ to push unsterile liquid medication in a syringe through an antimicrobial disc filter and into a sterile container such as a glass vial or intravenous fluid bag.

Who Needs SteriComp PFS™ ?

- **Pharmacists** in the community or hospital who compound sterile liquid medications including injectables, otic, nasal, nebulized, ophthalmic preparations, and even oral solutions for extended shelf-life (not for suspensions)
- **Physicians, osteopaths, naturopaths, physician assistants, nurse practitioners, nurses** and **nursing assistants** who use compounded sterile medications
- Any health practitioners who need to prepare **immediate-use custom injectables** including those with a short-shelf life (e.g. oxaloacetate, artesunate, NAD+) or those not commonly available from pharmacies (e.g. procaine hydrochloride, sodium dichloroacetate)
- **Veterinarians** who use compounded sterile medications
- **Dentists** who use compounded sterile medications
- Any practitioner who wishes to **protect against supply chain disruption** of specific commercial sterile injectables (can now be made efficiently in-house with SteriComp)
- **Lab technicians** who use filtration to sterilize culture media, enzymes, solutions for experiments
- **R+D scientists** where cost-efficient low volume liquid (or gas) sterilization is required

*U.S. Patent No. 12,090,121 B1

SteriComp PFS is a trademark of Neos Medical Systems LLC

NEOS CUSTOM SOLUTIONS

Having our own internal Computer-Aided Design (CAD) allows Neos staff to visualize, modify and optimize designs before committing to cutting materials. Combining CAD with in-house Computer-Aided Manufacturing (CAM) gives us rapid prototyping capability. The dynamic combination of CAD and CAM also allows product updating without delay to meet customer demands in the everchanging healthcare landscape.

NEOS SPECIAL EXPERTISE

Unique combination of decades of engineering and integrative medicine expertise. Integrative medicine signifies a forward-thinking problem solving approach merging the best of allopathic and natural medicine.

USA MANUFACTURING

We are a Florida-based company that believes in strengthening the local manufacturing sector. We do all design and manufacturing in USA to maintain quality and support our economy. We also give preference to US-made components for our products.



How Does SteriComp PFS™ Work?

1. Thread CO₂ cartridge securely onto SteriComp.
2. Place SteriComp in laminar flow hood and disinfect with suitable solution e.g. sterile 70% alcohol.
3. Set pressure with regulator dial and built-in pressure gauge.
4. Raise syringe pusher by moving handle to UP position.
5. Load syringe with unsterile liquid and attached 0.2µm disc filter.
6. For vial filling, attach needle to disc filter and insert into vial (support vial with magnetic vial holder). Add venting needle with filter.
7. Lower syringe pusher by moving handle to the DOWN position.
8. When sterilization is complete, briefly move handle to the UP position (release pressure and reset syringe pusher), then to the STOP position.

Some Medicines Made with SteriComp

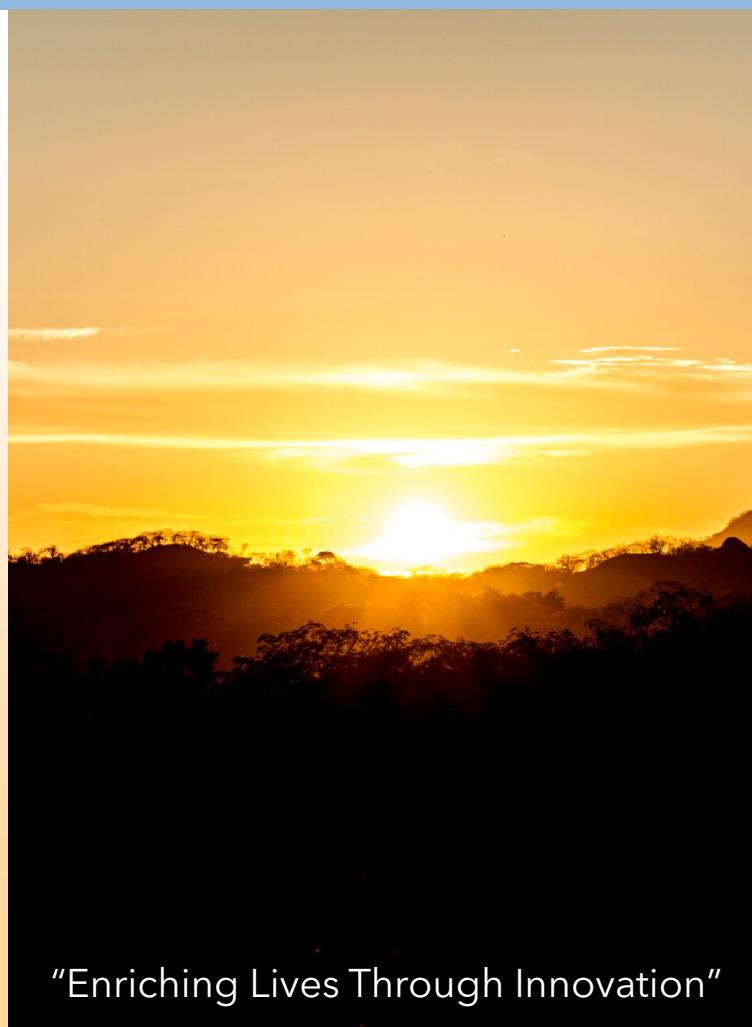
- Sodium chloride 0.9% for injection/infusion
- Sodium chloride 30% stock solution for making 0.9% saline
- Sodium bicarbonate 8.4% for injection/infusion
- Potassium chloride for injection/infusion
- Dextrose 10-50% for injection/infusion
- Dextrose 50% stock solution for making D5W or D10W
- Procaine hydrochloride 2% for injection
- Off-label medicines, such as:
 - ◆ DMSO 99% for injection/infusion
 - ◆ PolyMVA for injection/infusion
 - ◆ NAD+ for injection/fusion/intranasal/sublingual
 - ◆ Oxaloacetate for infusion
 - ◆ Dichloroacetate sodium for infusion
 - ◆ Artesunate for infusion

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Why Do I Need SteriComp PFS™?

- Make custom injectables that are not readily available, have long lead-times or high costs
- Make custom injectables with short shelf-life on-demand
- Make off-label injectables on demand
- Make preservative-free injectables quickly and cost-effectively when commercial preparations are too costly or not readily available
- Save labor by semi-automating low volume sterile compounding
- Save time and money compared to volumetric filling pumps that use costly disposables and have limited pressure for filtration
- Achieve US Department of Labor OSHA compliance with Ergonomic Guidelines by reducing the risk of repetitive strain injury from manually sterilizing by filtration
- Quickly re-fresh injectables that have passed the beyond-use date (only for those medicines expired per sterility guidelines, not for stability reasons)
- Split single use sterile vials into multiple smaller vials to cut costs while preserving sterility

The user is responsible for understanding and following industry standard practices and applicable laws for sterile medication compounding. SteriComp is not an FDA-classified medical device.



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NEOS MEDICAL SYSTEMS: PIONEERING NICHE MEDICAL SOLUTIONS

In a world where healthcare demands are evolving faster than ever, **Neos Medical Systems** emerges as a bold new force—designing and manufacturing cutting-edge specialty medical products tailored for doctors, nurses, hospitals, pharmacies, veterinarians and others. Our mission is simple yet powerful: to empower healthcare professionals with tools that are innovative, intuitive, reliable, and uniquely crafted to meet the real-world challenges of modern medicine.

Every precision-engineered Neos product is born from thoughtful collaboration with clinicians and a diverse range of professionals with healthcare expertise. We don't just build equipment—we build trust, efficiency, and better outcomes.

Whether you're on the front lines of patient care or behind the scenes ensuring safe and effective protocols and procedures, Neos is here to elevate your practice with technology that thinks ahead.



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