

Water Injector System™

The fastest, most reliable battery watering system

Exclusive continuous tubing

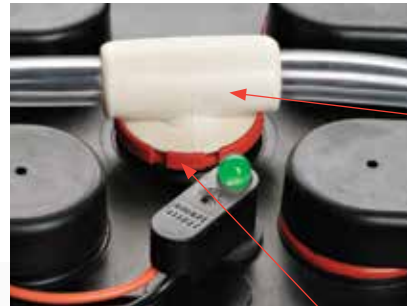
allows for a more reliable installation by minimizing connection points

Clear tubing

enables view of water flow

No-freeze tubing:

surplus water drains into cells after filling is complete



Low profile reduces risk of damage caused by battery cables (1.10 in. or 2.79 cm)

Snap-fit, rotatable base

allows for easy installation; easy to snap into place

Single-point watering system

fills battery from one point of fill

The Water Injector System™ single-point watering system from Philadelphia Scientific is the world's fastest, most reliable way to add water to industrial batteries. And the system is simple to use: an operator makes a hose connection, opens a valve and in 15 seconds or less the entire battery is watered — perfectly. This is eight times faster than filling a battery with a float-based system. For most warehouses and DCs, that adds up to hours of maintenance time saved each week.

Each Injector has its own precision level-sensing valve enclosed in a protective housing. When the electrolyte level rises to the tip of the Injector, the valve shuts off instantly. There are no floats or delicate exposed parts to stick or break, so the Injectors are unaffected by oil and tar in the cells and can function in extreme cold or hot, dry and abusive conditions.

The Water Injector System saves money in two ways:

- **It cuts labor costs**, often paying for itself within the first year of operation.
- **It extends battery life** by filling batteries to the proper level — every time.

The system also improves safety and environmental cleanliness. There is no need to peer into cells to inspect levels as with manual filling. And water Injectors automatically fill each cell to the correct level, so there is no overfilling and no electrolyte spillage during charging.

The Water Injector System is exceptionally durable. Designed for harsh industrial environments, it is unaffected by abuse that would destroy most other systems, and continues to work dependably for the life of the battery.

In the long run, the Philadelphia Scientific Water Injector System has the best financial ROI of any available filling system.

Filling batteries in 15 seconds or less, the Water Injector System is the world's fastest battery watering system

Water Injector System Features and Benefits

- **Fast operation:** An average 18-cell industrial truck battery can be filled in 15 seconds or less.
- **Easy installation:** Flexible tubing and the snap-fit base make installation fast and easy.
- **Precise filling:** A precision level-sensing valve shuts off instantly when electrolyte levels rise to the Injector tip.
- **Safe:** Prevents direct contact with electrolyte during battery filling and prevents overfilling.
- **Compact:** Low profile allows Injectors to fit on any industrial battery and minimizes damage from battery cables. Injectors can snap in and out to allow inspection of electrolyte levels and specific gravities.
- **Heat resistant:** System will survive high battery temperatures without failing.
- **No-freeze tubing:** Tubing drains surplus water into cells after filling is complete, so the system can be used in cold storage environments.
- **2-stage filtration:** In addition to the filter screen in the input coupling, each Injector has its own individual filter.
- **Proven reliability:** Patented pressure-activated technology makes the Water Injector System the world's most dependable single-point watering system.
- **Exclusive no-clamp tubing:** The tubing goes straight through the Injectors and is sealed with unique twin O-rings.
- **5-year warranty:** Injectors are made of high-quality engineered plastic that provides maximum chemical resistance and long-lasting durability. There are no exposed parts to break off even when an Injector is removed from a cell.
- **Exclusive reconditioning service:** Injectors are so tough that used ones can be reconditioned and used again on another battery. Philadelphia Scientific will discard the old tubing, clean the Injectors, and after a 100% inspection, provide new tubing and fittings. That means even more savings.



Product Specifications

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| Input/Operating Pressure: | 25 to 35 psi | Flow Rate: | 8-10 gpm per string |
| Acceptable Filling Temperature: | 35° to 160°F (2° to 71°C) | System Exposure Temperature: | -20° to 160°F (-29° to 71°C) |
| Valve Body Material: | Polypropylene | Tubing Material: | Proprietary flexible PVC |
| Max. Valve Height above Vent Opening: | 1.10 in. (2.79 cm) | Fitting: | US Quarter-Turn & European DIN Openings |



Philadelphia Scientific LLC
207 Progress Drive Montgomeryville, PA 18936 USA
P: 215.616.0390 F: 215.616.0500 www.phlsci.com