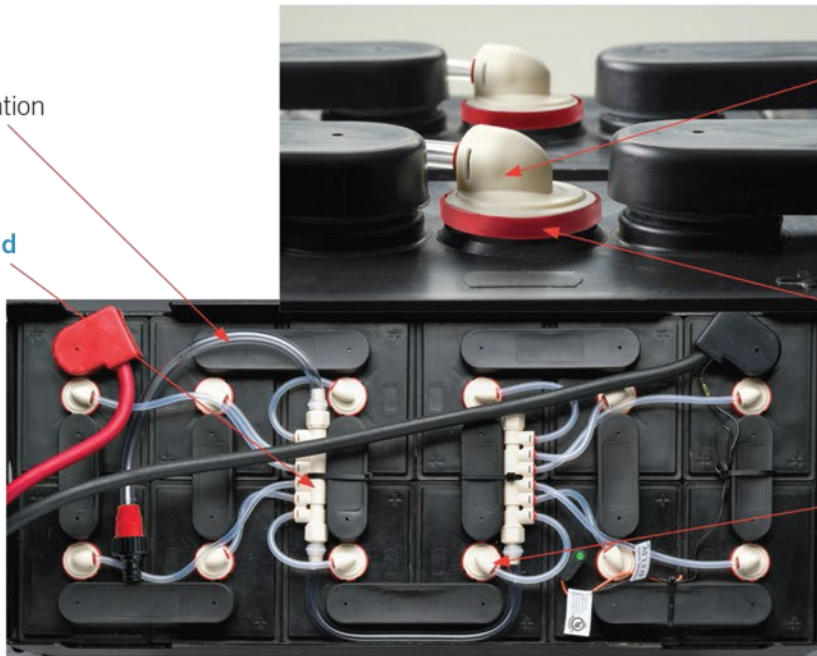


# Water Injector *Spider System*™

The world's fastest, most reliable battery watering system

**No-kink and no-crush tubing** enables installation in tight spaces.

**Central-filling manifold** allows for flexibility during installation.



**Very low profile** reduces risk of damage caused by battery cables (0.83 in. or 21 mm).

**Snap-fit, rotatable base** allows for easy installation. Easy to snap into place.

**Push-fit tubing ports** mean tubing is secured by simply pushing tubing into ports; there are no barbed fittings to break.

The Water Injector *Spider System*™ is the world's fastest and most reliable way to add water to industrial batteries. It 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 water Injector has its own precision level-sensing valve enclosed in a protective housing. When the electrolyte level rises to reach 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 system saves money in two ways:

- **It cuts labor costs**, often paying for itself within its 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 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 *Spider System* has the best financial ROI of any available filling system.

The world's fastest battery watering system

### Water Injector Spider System Features & Benefits

- **Easy installation:** Features such as flexible tubing, push-fit tubing ports and the snap-fit base make installation fast and easy.
- **Fast operation:** An average forklift truck battery can be filled in 15 seconds or less.
- **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 due to battery cables.
- **Proven reliability:** Patented pressure-activated technology makes the Water Injector System the world's most dependable single point watering system.
- **5-year warranty:** Advanced plastics technology and no exposed parts provides maximum chemical resistance, making these Water Injectors durable and long-lasting.
- **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.
- **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.

<b>Input/Operating Pressure:</b>	25 to 35 psi	<b>Flow Rate:</b>	8 to 10 gpm per string
<b>Acceptable Filling Temperature:</b>	35° to 160°F (2° to 71°C)	<b>System Exposure Temperature:</b>	-20° to 160°F (-29° to 71°C)
<b>Valve Body Material:</b>	Polypropylene	<b>Tubing Material:</b>	Proprietary Flexible PVC
<b>Max Valve Height above Vent Opening:</b>	0.83 inches (2.1 cm)	<b>Fitting:</b>	DIN standard push fit & BCI standard quarter turn

### Convenient Water Supplies for Filling the Water Injector Spider System



#### HydroCart™ Mini

- Capacity: 10 gallons (37.8 liters)
- AC Powered
- 110 VAC / 60 Hz
- 10 feet (3.0 meters) of Industrial Hose
- 13 feet (3.9 meters) of Power Cord



#### HydroCart™ Max

- Capacity: 20 gallons (75.7 liters)
- AC Powered
- 110 VAC / 60 Hz
- 20 feet (6.1 meters) of Industrial Hose
- 25 feet (7.6 meters) of Power Cord



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