WATER CANNONS
FOR CONSTRUCTION AND SERVICE VEHICLES
For over 100 years, Elkhart Brass has been manufacturing water flow products. You can be assured that each and every component was designed and tested for its use. The primary application of our products has been in firefighting, where reliability and performance are literally the difference between life and death. The Elkhart name is trusted worldwide in the most demanding situations.

While we have over 100 years of experience, our technology is absolutely state-of-the-art. Waterway shapes are computer designed for optimal efficiency using proprietary three-dimensional flow analysis. Construction materials range from high copper content brass, to dual component, hard anodized, Teflon impregnated aluminum alloy. Motor controls feature embedded microprocessors and closed loop feedback encoders for fast, reliable positioning.

However, technology that cannot be put to use is no benefit. Elkhart Brass water cannons, or monitors as they’re also known, are complete solutions with important benefits to both the users and constructors of vehicles that require them. Hydraulically balanced manual cannons do not impart any reaction force back to the operator’s tiller bar resulting in effortless use. Electric remote controlled cannons may be operated from within the truck cab or even from a handheld full function wireless remote for the most efficient use of manpower. Automatic nozzles maximize spray pattern and reach across a wide range of flows to conserve every drop of water.

At Elkhart Brass, we understand that when you choose our water cannons you are placing your trust in us. We value that trust and honor your choice with our commitment to innovation and dependability in every Elkhart product.

Whatever your need may be, Elkhart has a water cannon/nozzle combination that will maximize real world performance and dependability.
FEATURES

- Hydraulically-aligned discharge configurations eliminate reaction forces in both horizontal and vertical rotation planes

- Waterways with or without vanes to suit applications from straight water to those with high solids content

- Positive travel locks (manual cannons) and gearboxes (electric cannons) are completely enclosed

- Flow optimized waterways reduce back pressure and increase range

- Corrosion and abrasion-resistant waterways of either brass or hard anodized aluminum

- Dual, oversized, wide set bearing races insure consistent non-binding travel under pressure

Remotely operated water cannons from Elkhart are complete, integrated solutions. We provide all controls and rugged, connectorized wiring harnesses ready to go … simply add 12V or 24V power.

- Electric, remote operated water cannons may be configured with operator controls that meet your needs — from simple toggle switches to in-cab joysticks and even radio frequency handhelds

- High speed electric ball valves open fast and smooth for consistent water conserving operation
## SELECTION CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Material</th>
<th>Waterway</th>
<th>Control</th>
<th>Inlet</th>
<th>Outlet</th>
<th>Horizontal Rotation</th>
<th>Vertical Travel</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sidewinder® Manual</strong>&lt;br&gt;Fig. 1</td>
<td>Hard anodized aluminum (std)&lt;br&gt;Brass (opt)</td>
<td>Fully-vaned (std)&lt;br&gt;Non-vaned (opt)</td>
<td>Manual-tiller bar with horizontal and vertical locks</td>
<td>2&quot; NPT</td>
<td>1.5&quot; NHT</td>
<td>360°</td>
<td>-45° to +90°</td>
<td>16 lbs</td>
</tr>
<tr>
<td><strong>Sidewinder® Electric</strong>&lt;br&gt;Fig. 2</td>
<td>Hard anodized aluminum</td>
<td>Fully-vaned (std)&lt;br&gt;Non-vaned (opt)</td>
<td>Electric, remotely operated</td>
<td>2&quot; NPT</td>
<td>1.5&quot; NHT</td>
<td>180° (std)&lt;br&gt;334° (opt)</td>
<td>-45° to +90°</td>
<td>16.5 lbs</td>
</tr>
<tr>
<td><strong>Sidewinder® RF</strong>&lt;br&gt;Fig. 2</td>
<td>Hard anodized aluminum</td>
<td>Fully-vaned (std)&lt;br&gt;Non-vaned (opt)</td>
<td>Electric, remotely operated with radio frequency handheld and fixed station</td>
<td>2 NPT</td>
<td>1.5&quot; NHT</td>
<td>Programmable up to 360°</td>
<td>-45° to +90°</td>
<td>16.5 lbs</td>
</tr>
<tr>
<td><strong>Vulcan® RF</strong>&lt;br&gt;Fig. 3</td>
<td>Hard anodized aluminum</td>
<td>Fully-vaned</td>
<td>Electric, remotely operated with radio frequency handheld and fixed station</td>
<td>3&quot; flange (std)&lt;br&gt;3&quot; NPT (opt)&lt;br&gt;4&quot; flange (opt)</td>
<td>2.5&quot; NHT</td>
<td>Programmable up to 360°</td>
<td>-45° to +90°</td>
<td>25 lbs</td>
</tr>
<tr>
<td><strong>Python®</strong>&lt;br&gt;Fig. 4</td>
<td>Brass</td>
<td>Non-vaned</td>
<td>Manual-tiller bar with horizontal and vertical locks</td>
<td>3&quot; flange (std)&lt;br&gt;2.5&quot; NPT (opt)&lt;br&gt;2.5&quot; flange (opt)&lt;br&gt;3&quot; NPT (opt)&lt;br&gt;4&quot; flange (opt)&lt;br&gt;4&quot; NPT (opt)&lt;br&gt;6&quot; flange (opt)</td>
<td>2.5&quot; NHT</td>
<td>360°</td>
<td>-45° to +90°</td>
<td>45 lbs</td>
</tr>
</tbody>
</table>

## FLOW PERFORMANCE

![Graph showing Total Static Pressure Drop (PSI) vs. Water Flow](image)

- **Sidewinder (manual, electric and RF)**
- **Vulcan RF**
- **Python**
Sidewinder® Manual
Fig. 1

Sidewinder® Electric/RF
Fig. 2

Vulcan® RF
Fig. 3

Python®
Fig. 4
Spray nozzle with remotely adjustable pattern

Electric, remote operated water cannon

High-speed water valve

In-cab joystick

Full function, radio frequency, wireless remote
**ELECTRIC, REMOTE OPERATED WATER CANNONS**

Maximize the economic payback on a water tender or hydro seeder with electric, remote-controlled cannons. Control every function from inside the cab with a sturdy intuitive joystick, or for the ultimate in control and safety add an RF (radio frequency) wireless handheld.

And everything is plug-and-play. Simply bolt on the cannon, plug in the harnesses, and connect to a 12V or 24V power supply.

**Sidewinder® Electric**
- Rugged full function joystick or low cost toggle switches
- 12VDC or 24VDC
- Epoxy encapsulated controls
- Choice of travel speeds
- Optional integrated high speed water valve
- Weather-tight connectorized harness

**Sidewinder® RF**
- Wireless in-cab joystick requires only 12VDC connection
- Handheld controls all functions including valve
- Oscillation routine programmable from remote or joystick
- Automatic two-speed travel
- Programmable travel limits
- License-free 915 MHz frequency
- ¼ mile range
- Unlimited number of units may be operated at the same time without interference
ACCESSORIES

SPRAY NOZZLES
From simple, solid bore tips to electrically driven combination nozzles that let the operator choose the pattern.

SM-10FE NOZZLES
A true automatic nozzle, the SM-10FE will automatically adjust to the amount of water being provided. The result is nearly identical stream pattern and reach whether flowing 20 or 120 gallons per minute. This is the nozzle to use when minimizing water use and/or waste is critical.

QUICK CONNECT BASE
Allows cannon to be easily removed for vehicle service or to lower vehicle height for highway travel.

WATER VALVES
The most extensive line of water flow valves designed for vehicle applications available. Over 200,000 combinations means you’ll never need to compromise and our patented Unibody design lets you easily reconfigure a valve — even after installation.