



**Water
moves
us**

PROPOSAL

New Berlin Splashpad

New Berlin

January 12, 2022





New Berlin Splashpad
New Berlin, IL

Thank you very much for the opportunity to present our Vortex Aquatic Play Solution for your upcoming project. The Vortex Team has worked diligently to meet or exceed all your wishes and requirements and provide you with an exceptional Aquatic Play Experience. Below you will find two separate proposals and designs. Design A is a new design by Vortex which offers increased play value while meeting water management and flow parameters. Design B is a proposed equivalent design. The village board has advised us that an alternative design would be accepted in this bid.

Let's review some of the key elements and objectives for your design based on our previous conversations / correspondence:

- *Play Value & multi-generational play – increased for all ages and developmental stages*
- *Designing for Inclusivity*
- *Future proofing – Safeswap anchors*

Discovering the Extra Dimension of Play

As we have discussed in our initial conversations, Vortex thoughtfully designs every project with an eye towards meeting your requirements and maximizing the Play Experience for your users. The goal is to stimulate imagination and creativity; create spaces for safe, unscripted free play and create long lasting memories for children and families. This thoughtful planning includes considering a variety of age groups and developmental stages, capacity planning, play experience evaluation, sustainability, maintenance and much more. Vortex uses a variety of water features, water effects and unique Vortex Play Technologies to enhance interactivity and maximize the play experience of your space. Many of these Play Technologies allow the users to fully control the water and the water feature itself – significantly enhancing the users' Play Experience and adding that "Extra Dimension of Play" for your project and community.

Your Aquatic Play Solution

After carefully assessing your needs, we are pleased to present a design that has been uniquely created for your project. We invite you to review the proposal, for visual support and a summary of play experiences chosen for you.

Next steps

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Thank you for the opportunity to present this proposal. We will be contacting you shortly to review the designs and answer any questions you may have.

VORTEX - SERIOUSLY FUN!

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SPLASHPAD DIMENSION

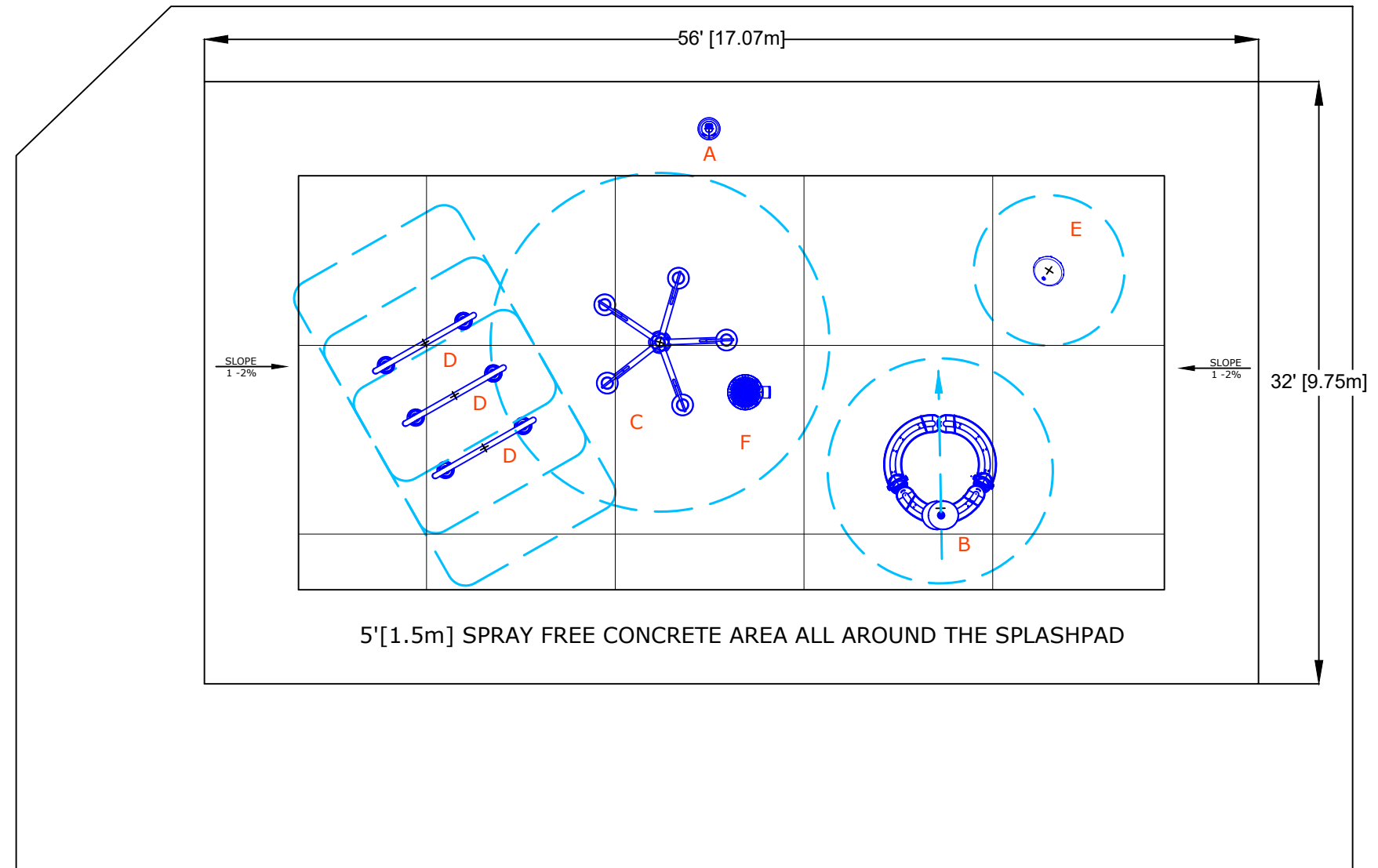
TOTAL AREA : 3233 ft² 300m²

SPRAY AREA : 1012 ft² 94m²

GRID SIZE : 10 x 10 ft 3 x 3 m

PRODUCT LEGEND

REF	PRODUCT	QTY	GPM	LPM
A	Bollard Activator No 3 VOR 0611	1	0	0
B	Cascade Loop VOR-7250	1	5	18.9
C	Fumbling Five VOR 7384	1	20	75.7
D	Spray Loop VOR 0519	3	22.5	85.2
E	Waterbug N°3 VOR 7582	1	6	22.7
F	Playsafe Drain N°4 VOR 1004	1	0	0
TOTAL		8	53.5	202.5



New Berlin Splashpad, IL

37597 - Version B

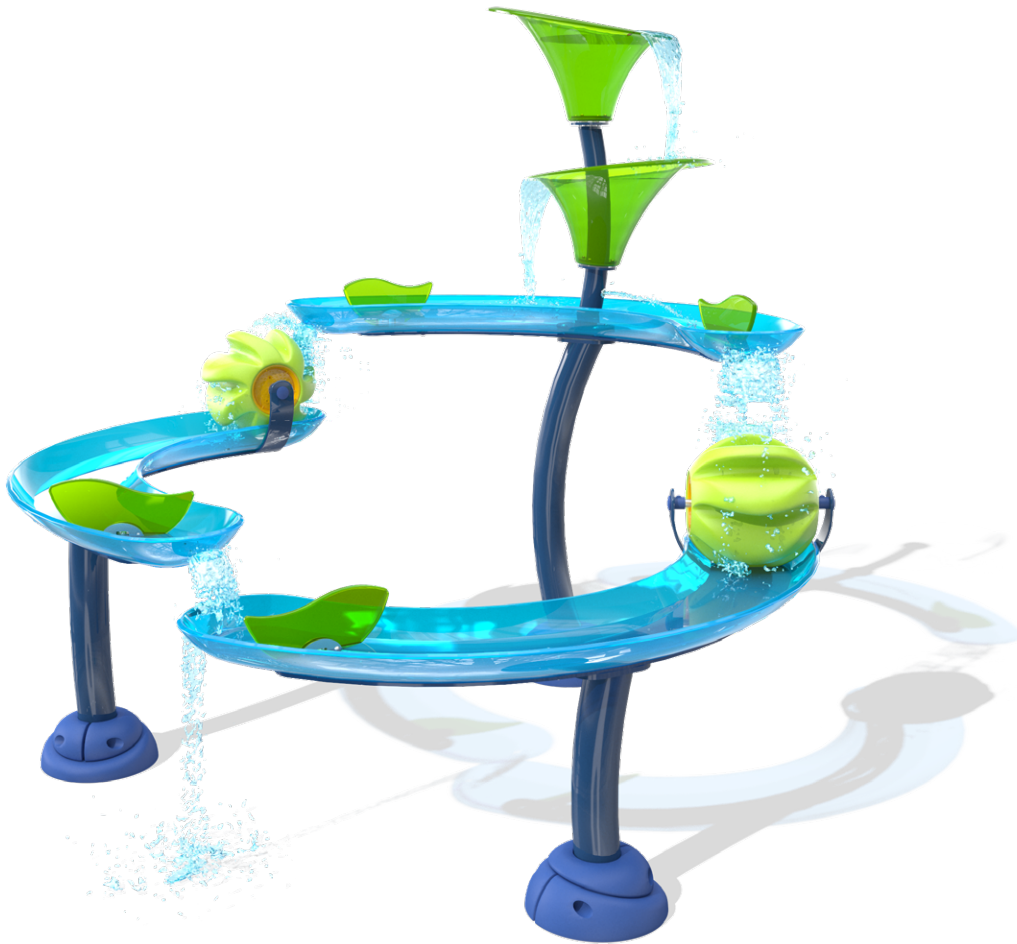
Jan 10, 2022



SPLASHPAD LAYOUT DRAWING

SCALE : 1/8" : 1'





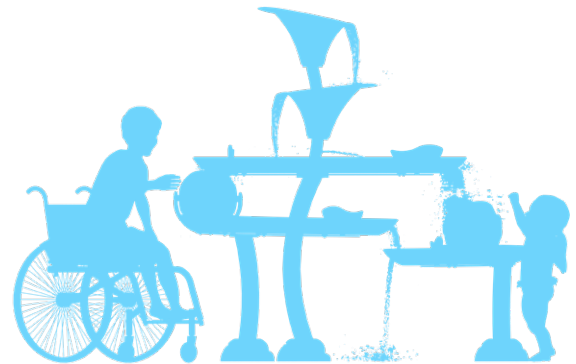
**The product shown in the image may differ from the actual product sold.*

Ideal age group: 2 to 5 years

VOR 7250 CASCADE LOOP

PRODUCT HIGHLIGHTS

- Hands-on water exploration through flow play and interactive Waves and Orbs
- Encourages collaborative play by allowing many children to play at the same time
- Accessible configuration and various types of game opportunities



* Recommended installation in supervised areas

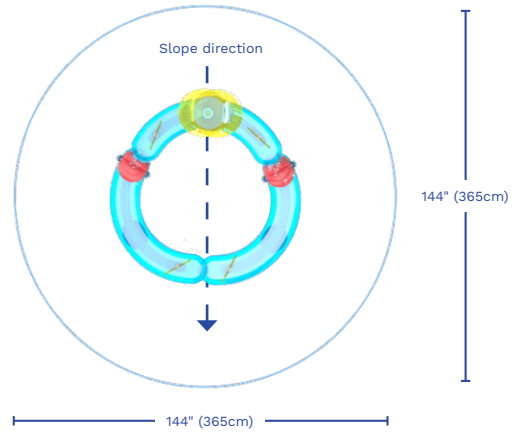


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SPECIFICATIONS



SprayZone



H./W./L.

71 / 73 / 72"
180 / 186 / 182cm

Color choices

Post and Orb Vortex colors
SeeFlow™ (6) ● ● ● ● ● ●
SeeFlow™ Pond (3) ● Ocean Blue

Flow

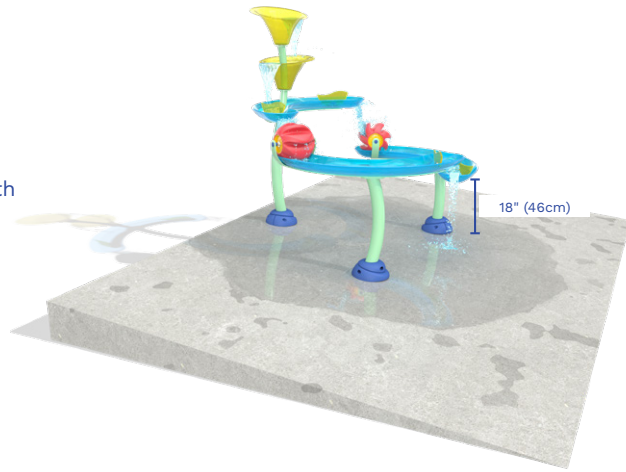
4-6 GPM
15-23 LPM

Pressure

3-4 PSI
0.2-0.3 BAR

Installation

- Waterfeed basins must be placed at slope's highest point
- Anchors must be installed level (not on a slope)
- Perfect for installation in pool under 12" (30cm) of water depth



PRODUCT INNOVATIONS

This product features the following technologies that are unique to Vortex.



TOEGUARD™

- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Soft-touch Elastomer
- Infused with a UV resistant bright color



SEEFLOW™

- Impact-resistant polymer resistant to UV rays and chemicals
- Colorful reflections are created with the combination of bright colors, water, and sunlight
- Manufactured with up to 40% preconsumer recycled materials



ANCHORING SYSTEM SAFESWAP™

- Attractive ground caps are substituted for future play products
- Easily move products from one location to another at no additional cost
- Structural stainless steel base for maximum strength



ORB

- Brings a new level of interaction to every play feature
- Promotes the learning of cause & effect
- Develops dexterity and motor skills

Version 3.0 June 2021 © Vortex Aquatic Structures International, 2021



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Ideal age group: 2 years and up

VOR 7384 FUMBLING FIVE

PRODUCT HIGHLIGHTS

- Encourages communicative and interactive experiences
- Predict and anticipate which of the bucket will spill over first

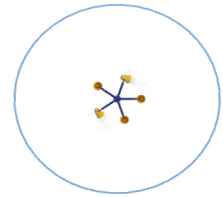


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Spray Zone

ø 216" (ø 548 cm)



H/W/L

129/98/98 in
328/250/250 cm

Pressure

5-10 PSI
0.3-0.7 BAR

Flow

15-25 GPM
56.8-94.6 LPM

Smartflow

9-15 GPM
34.1-56.8 LPM

Color Choices: Vortex colors choices

VORTEX EXCLUSIVE TECHNOLOGIES

This product features the following technologies that are unique to Vortex



TOEGUARD™

- Soft-touch Elastomer
- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Infused with a UV resistant bright color
- Available in one or two pieces ensuring tight fit to post

WATER EFFECTS

- Dumping water bucket (5)



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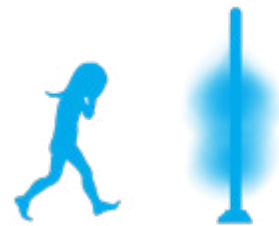
*The product shown in the image may differ from the actual product sold.

Ideal age group: For all ages

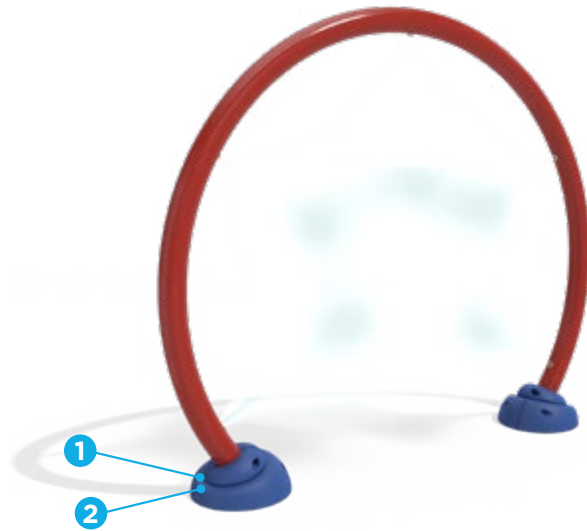
VOR 0519 SPRAY LOOP

PRODUCT HIGHLIGHTS

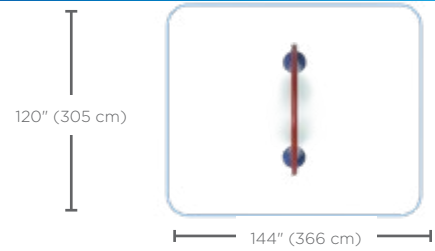
- Cross through the misty water effect for an instant soak
- Encourages different types of game playing



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Spray Zone



H/W/L

64/4/76 in
163/11/194 cm

Pressure

10-25 PSI
0.7-1.7 BAR

Flow

5-10 GPM
18.9-37.9 LPM

Smartflow

Color Choices: Vortex colors

VORTEX EXCLUSIVE TECHNOLOGIES

This product features the following technologies that are unique to Vortex.



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- Soft-touch Elastomer
- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Infused with a UV resistant bright color
- Available in one or two pieces ensuring tight fit to post



SAFESWAP™ ANCHORING SYSTEM

- Attractive ground caps are substituted for future play products
- Easily add future play elements with no change to infrastructure
- Easily move products from one location to another at no additional cost
- Provides flexibility to spread investment over time as capital becomes available
- Structural stainless steel base for maximum strength
- Optional interim spray cap (as shown)

WATER EFFECTS

- Misty water jet (5)

Features, anchoring systems and hardware are made of 100% recyclable stainless steel, including at least 25% post-consumer recycled content



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Ideal age group: 0 - 6 years

VOR 7582 WATERBUG N°3

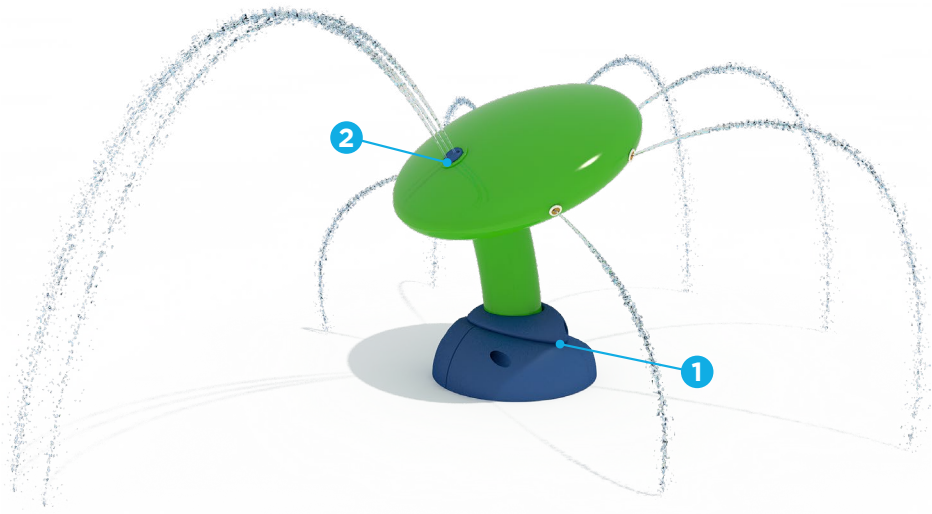
PRODUCT HIGHLIGHTS

- Different water effects keep kids captivated
- Encourages different types of game playing
- Pressing the Podspray™ will amplify the other sprays' water effect

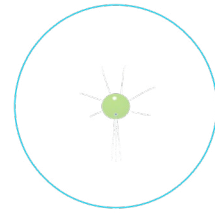


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Spray Zone



ø 96"
(ø 244 cm)



H/W/L	Pressure
22/18/20 in	5-10 PSI
57/64/51 cm	0.3-0.7 BAR

Flow	Smartflow
5-7 GPM	-
18.9-26.5 LPM	-

Color Choices: Vortex colors

VORTEX EXCLUSIVE TECHNOLOGIES

This product features the following technologies that are unique to Vortex.



TOEGUARD™

- Soft-touch Elastomer
- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Infused with a UV resistant bright color
- Available in one or two pieces ensuring tight fit to post



PODSPRAY™

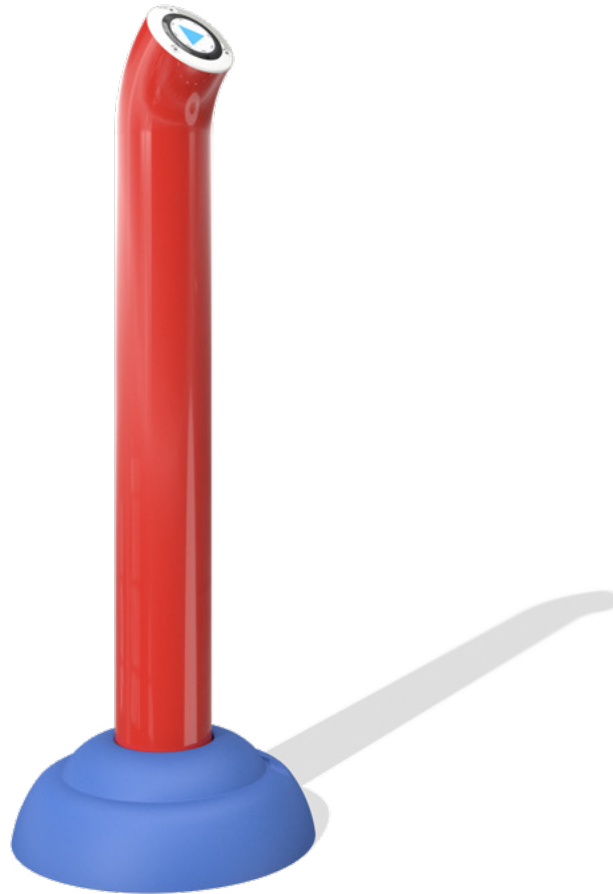
- Simply press to send water to another nozzle on the same feature
- Combine multiple pods and features to create team play
- Lead-free brass for maximum durability

WATER EFFECTS

- Gentle jet stream (6)
- Interactive Podspray™ (1)



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Ideal age group: 4 years and up

VOR 0611 ACTIVATOR N°3

PRODUCT HIGHLIGHTS

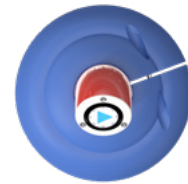
- Enables to activate the water sequence of play features
- Light signal to alert when the activator is activated
- Controls water consumption and helps reduce waste



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Top View



H/W/L

39/14/14 in
99/36/36 cm

Pressure

0 PSI

Flow

0 GPM
0 LPM

Smartflow

-
-

Color Choices: Vortex colors
Additional electrical connections required

VORTEX EXCLUSIVE TECHNOLOGIES

This product features the following technologies that are unique to Vortex.



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- Soft-touch Elastomer
- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Infused with a UV resistant bright color
- Available in one or two pieces ensuring tight fit to post



SAFESWAP™ ANCHORING SYSTEM

- Attractive ground caps are substituted for future play products
- Easily add future play elements with no change to infrastructure
- Easily move products from one location to another at no additional cost
- Provides flexibility to spread investment over time as capital becomes available
- Structural stainless steel base for maximum strength



PLAYSTART™ ACTIVATOR

- On-demand activation saves water
- Light signal to alert when the activator is activated
- Constructed of durable stainless steel - vandal resistant
- No moving parts
- Low voltage - safe fun
- Easy operation - for kids of all ages & abilities

Revised: 01/10/2020



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ABOUT US

25 years of innovation

Founded in 1995 in Montreal, Canada, Vortex pioneered the Splashpad® and revolutionized the way children and families play in urban spaces, waterparks and resorts worldwide. Our innovative approach to water attractions has since helped communities, businesses and families grow. We are proud to have created over 8,000 custom installations spanning 50 countries and 5 continents.

Water moves us

Harnessing the transformative power of water, we create play experiences for children to develop, communities to flourish, and businesses to thrive. Our mission is to help you have an impact that lasts long after families have dried off.

We are people-centric innovators with a deep understanding of different markets and community needs. We are your committed business partners from planning to maintenance, and we are with you at every stage of the project to help you attract, engage and retain your visitors, no matter your venue.



Our aquatic play spaces
don't just entertain,
they foster...

**GROWTH
IMAGINATION
INTERACTION
ENDLESS THRILLS
& MEMORIES**

PLAY VALUE PLANNING

Aquatic play success doesn't just happen, you have to design for it. We optimize all our installations for your user mix, site size and location and other specific needs by...

- ✓ Seamlessly integrating multiple types of play experiences for different age groups
- ✓ Keeping play engaging to lengthen dwell times
- ✓ Integrating a diversity of products to maximize play value and enhance the overall experience
- ✓ Creating everlasting memories that bring families back again and again

LET'S PLAY!



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PLAY EXPERIENCES

GLOSSARY



SENSORY

A sensory-rich play experience that stimulates multiple sense experiences; touch, sound, smell, sight, etc.



TACTILE

An experience rich in the feeling of and discovery of the various textures of water; particularly a discovery-based playtime that stimulates the tactile senses of young children.



FLOW

An experience in which the flow of water is deviated/manipulated by the user through means of opening/closing gates, sliding barriers, etc.



MISTY

A cloud-like experience made from a misting water effect.



KINETIC

An interactive experience that involves manipulation of a play product itself by a child; rotating, spinning, opening/closing, etc.; product interaction.



ICONIC

A visually-stimulating centerpiece feature that serves as a gathering place to experience a grand effect of water.



CIRCUIT

An experience made up of at least 3 varying water effects that encourage passage and movement from feature to feature.



SPRAY

An experience based on human-to-human interaction, elicited by aimed direct streams of water controlled by the users.



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SEEFLOW™

- Impact-resistant polymer
- Resistant to UV rays and chemicals
- Colorful reflections are created with the combination of bright colors, water, and sunlight
- Manufactured with up to 40% pre-consumer recycled materials
- Reusable at the end of life


TOEGUARD™

- Soft-touch Elastomer
- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Infused with a UV resistant bright color
- Available in one or two pieces ensuring tight fit to post


LINEFLOW™ NOZZLE

- Precisely orient the stream of water with the internal brass marble
- Compact design provides better product integration
- Easy to adjust for the most efficient use of water based on your installation
- Made of lead-free brass for maximum durability


PODSPRAY™ (ON PRODUCT)

- Simply press to send water to another nozzle on the same water play product
- Combine multiple pods and water play products to create team play
- Lead-free brass for maximum durability


FUNFLOW ACTUATOR™

- Interactive cause & effect
- Encourages collaborative play
- Step on the cap to divert and multiply the water to another water play product
- Low flow when not pressed to help save water
- No electrical required—simple installation


PODSPRAY™ (GROUND)

- Simply step on or press to send water to another water play product
- Increase flow to attached water play products to increase play value—connected water play products spin faster, spray farther, dance higher
- Combine multiple pods and water play products to create team play
- Lead-free brass for maximum durability



TURNTEC™

- Easy turning for kids of all ages and abilities
- 360° rotation—for maximum fun and engagement
- Controlled spray zone—set the range where water starts and stops
- Corrosion and chemical resistant



SAFESWAP™ ANCHORING SYSTEM

- Attractive ground caps are substituted for future play products
- Easily add future play elements with no change to infrastructure
- Easily move water play products from one location to another at no additional cost
- Provides flexibility to spread investment over time as capital becomes available
- Structural stainless steel base for maximum strength
- Optional interim spray cap (as shown)



SPINTEC™

- Kids can stand or sit on the platform while pushing off the ground to make the platform spin
- Creates impressive spiraling water effect
- Manufactured with damper speed system that controls spinning speed



PRESS & PLAY ACTIVATOR

- On-demand activation saves water
- Constructed of durable stainless steel—vandal resistant
- No moving parts
- Low voltage—safe fun
- 2 wire connection—easy installation
- Easy operation—for kids of all ages & abilities
- Sound and light signal to alert when the activator is activated



TWIRLTEC™

- Kids spin the round handle to create a spiraling water effect overhead
- Soft-touch Elastomer
- Interactive cause and effect
- Friction-free, triple bearing system



TWIRLFLOW™

- Two linear jets that create one twirling water effect from the water pressure
- 360° water jet creating a fragmented water splash, promoting dynamic play
- Visually captivating circular water movement
- Made of UHMW for superior durability

ACCESSIBILITY THROUGH UNIVERSAL DESIGN

The concept of Universal Design was developed by North Carolina State University in 1997; its principles have become the industry standard for envisioning products and environments that accommodate as many people as possible, regardless of age, or physical or mental ability.

Every Vortex zero-depth Splashpad® has been designed with accessibility in mind:



SPACE

There is always ample space for turning & manoeuvring wheelchairs; children can play alongside friends who are standing



PLAY

Inclusive design encourages the physical, functional and social development of a child



ACTIVATION

Vortex activators provide audible and visible signs to indicate when the Splashpad® is turned on



HEIGHT

Aquatic play products come in a variety of heights for children of all ages and sizes



WATER EFFECTS

Each Splashpad® is designed with a range of water features & intensities to stimulate a child's senses - at their own pace



MANIPULATION

Every aquatic play product is easy to use and engage, thanks to a wide range of exclusive Vortex technologies



INCLUSION

Aquatic play products foster collaboration and inclusion among children of all ages and abilities



INTERGENERATIONAL PLAY

Parents and grandparents are invited to collaborate in the water play



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MATERIALS

Vortex uses premium materials and adheres to the highest quality manufacturing standards. This ensures that products are reliable, durable and vandalism-resistant.

STAINLESS STEEL

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Vortex employs stainless steel as its primary material of construction. The structural strength and corrosion resistant properties of stainless steel make it ideal for all features, anchoring systems and hardware. Vortex stainless steel consists of at least 25% post-consumer recycled content, with several products containing as much as 90% or higher recycled content. Additionally, stainless steel is 100% recyclable allowing for Vortex equipment to be part of a sustainable solution.

SEEFLOW™ POLYMER

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The bright translucent colors of Vortex's Seeflow™ polymer creates some of the most visually stimulating aquatic play products available. Unique to Vortex, Seeflow™ is a high-strength, flexible material with extremely high impact and flammability resistance. Its long lasting properties including resistance to UV rays and chemical exposure make it suitable for both indoor and outdoor installation. The combination of bright color, water and sunlight create an enchanting visual experience. Manufactured with up to 40% pre-consumer recycled materials, and reusable at end of life makes the Vortex Seeflow™ a truly unique option.

ALUMINUM

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Vortex employs aluminum on certain mechanical equipment such as equipment vaults and water containment systems, as well as certain accent components like interactive handle spheres and counter weights. The light weight yet strong properties of aluminum make it ideal for this application and all aluminum components are chemically treated and painted to provide a lasting finish.

BRASS

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Spray heads, ground sprays and nozzles on select above-grade products are machined from solid stock brass, lead-free for long term durability. To maintain high quality standards without risking galvanic corrosion, Vortex only uses 304L grade stainless steel housings. As part of Vortex's waste reduction efforts, all leftover brass is recycled.



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MATERIALS

SOFT-TOUCH ELASTOMER

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Vortex's unique Soft Touch elastomer - used in the Toeguard™ system - keeps little toes safe. The Toeguard™ was specifically developed with this material to provide protection from anchoring hardware. The high tensile strength material provides resistance to impact and chemicals, while providing a soft, non-slip surface to absorb unintentional knocks from toes and feet. The UV- stable color is impregnated through the thickness of the Toeguard™ and as a result, abrasion will not remove the color.

DURABLE COLOR COATINGS SYSTEM

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The color process employed for coating our stainless steel structures is baked on lead-free powder coat with UV resistance that holds its color in intense sun and harsh climates. This protection means that colors stay vibrant over time and prevents minor cracks which can lead to corrosion.

FIBERGLASS

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Some Vortex products are constructed of high impact resistant fiberglass with a resistant gel coat and clear coat coloring system. As part of the Vortex Water Containment System lining, lightweight and durable fiberglass offers the additional benefits of preventing leaching and providing a clean environment for water.

HIGH DENSITY POLYETHYLENE (HDPE)

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HDPE panels provide colorful accent to many other Vortex water features. HDPE provides excellent UV, heat, chemical and impact resistance.

ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE (UHMWPE)

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Some components of our water features use UHMWPE which provides excellent UV, heat, chemical and impact resistance. As part of Vortex's waste reduction efforts all products using UHMWPE are recyclable.



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SUSTAINABLE DEVELOPMENT



DURABILITY OF OUR PRODUCTS

Our features are designed to last and require little maintenance.

Stainless steel 304/304L

25-year guarantee

Coloured thermosetting polyester powder coating

Withstands heat, extreme climates and UV rays



RECYCLED MATERIALS

Transport materials

- Fully degradable and recyclable
- non-toxic bubble wrap
- Boxes made of recycled cardboard

Manufacturing waste

We annually recycle:

- Metal: 45,360 kg (100,000 lbs)
- Plastic: 454 kg (1,000 lbs)
- Wood: 9,072 kg (20,000 lbs)



WATER MANAGEMENT

Optimization of water consumption

- Low water consumption nozzles
- Activators powered on demand



DIGITIZATION

To reduce waste and promote eco-responsible management of its activities, Vortex has begun a transition to zero-paper offices by favoring the use of digitized platforms for the marketing, production, and design teams.



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SAFESWAP™

ANCHORING SYSTEM

Any aquatic facility requires a significant infrastructure investment. Concrete, plumbing equipment, electrical equipment and earthwork represent a large portion of the overall cost. With proper master planning, Vortex's unique Safeswap™ anchoring system provides owners with the flexibility to add new products, interchange products or completely replace products without any modifications to the infrastructure.

EXPANSION

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The Vortex Safeswap™ solution allows owners to make their investment in play products over time as capital becomes available. The infrastructure planning will take into consideration the future play elements to be added. In the interim, the future play products are substituted by an attractive Safeswap™ ground spray.

INTERCHANGE

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For owners of several Vortex Splashpads®, the Safeswap™ solution provides the ability to interchange products from one location to the other, creating novelty without additional costs.

TRANSFORM

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Although Vortex products will last for decades, some owners may want to transform the look of their facility or provide guests with new attractions. Safeswap™ makes it feasible to swap out a few products or change from one Vortex design line to another, effectively transforming the appearance of the facility without the costs associated with infrastructure modifications.



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CLIENTPOINT DOWNLOAD RECEIPT

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