

We look at soil & water quality from a different perspective.

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That's why we've designed a comprehensive line of products to help you manage your unique soil- and water-related challenges. From salt stress to carbonate buildup, we'll help you evaluate your turf's needs and build a program that is both effective and affordable.

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Safety MATTERS

A golf course is no different than any other workplace. Workers must abide by safety procedures, and a safe environment must be provided for golfers.

by Bruce R. Williams, CGCS

Safety at the golf course is often overlooked until accidents or problems arise. Golf course maintenance is a business and safety should be a part of every business. Every golf course budget should have a line item for safety equipment, upgrades to facilities, adherence to laws and regulations and training for staff regarding the need for a safe workplace as well as providing a safe place for golfers to enjoy their recreation.

All too often safety becomes a priority after an accident has happened. At that point it may be a little late to be compliant – sort of like closing the barn door after the horse is

gone. It also becomes a priority when inspectors arrive at your door to follow up on a call from a disgruntled employee.

Every golf course needs written sections on safety in the various documents that guide its operation. This includes standard operating procedures, long-range planning, your orientation and training manual and as a budgetary item.

So, you don't have a safety program? Or, the existing one is weak at best. Where do you start? Either conduct an internal audit of your safety program or hire an outside consultant to do it for you. I have contracted people from insurance companies, consultants who may



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The miracles of science™

“Every golf course needs written sections on safety in the various documents that guide its operation. This includes standard operating procedures, long-range planning, your orientation and training manual and as a budgetary item.”

have been former inspectors and also consultants who have these skills as well as are knowledgeable of the laws and have spent quality time on golf courses.

POINTING OUT THE OBVIOUS. It is pretty easy to do a walk-through at a turf-care center and find the obvious potential violations. Here are some common examples:

- Acetylene tanks are not secured to a non-movable object, such as a wall
- Improper spacing for guards on a bench grinder or mower grinders
- Improper ventilation
- Overloaded electrical wall outlets
- Floors littered with clutter
- Incorrect or unmarked walkways
- Inaccurate and out-of-date records, including OSHA 300 forms
- Poor staff safety-training, including topics, signatures and training methods
- Incomplete first-aid kits
- Inaccessible MSDS sheet
- Poorly labeled emergency gasoline shutoff
- Improper pesticide storage that fails to meet state laws
- Disorganized copies of licenses for qualified applicators
- Poorly written safety plan that follows OSHA guidelines
- Lack of or poorly written emergency-response plan
- Lack of safety training for equipment operators
- Non-compliant fuel-can storage
- Rinsate recovery that does not meet state laws
- Emergency exits with improper signage
- No wash-water eye stations and/or showers
- Improper storage of motor oil and lubricants
- Compressed air lines that lack proper shutoffs and connections

While these topics are more concentrated inside the shop there are also a variety of them that have an impact on outside operations as well.

- Chainsaw safety
- First aid
- Defibrillator training
- Emergency evacuation plan
- Safety equipment training

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NEW!

Magnum™ UltraMAX

Made in USA

PREMIUM HOSE-END NOZZLES & ACCESSORIES

Step up to the most professional nozzle you can buy - MAGNUM™ UltraMax. Firefighter quality for professionals in any field, these variable flow, multi-function nozzles are virtually indestructible and leak proof. The innovative TURBO SHIFT feature, available on both high-flow and low-flow models, provides two distinct GPM ranges for added versatility. And the outstanding distribution patterns of all MAGNUM UltraMAX nozzles make them excel in high demand areas like greens/tees, infield conditioning and equipment and stadium washdowns.

features / specifications

- Multi-Pattern Spray: Fog, Jet Stream, Fan
- Built for 1" and ¾" Hose Flow Rates (range: 7-43 GPM)
- Materials: Aircraft Aluminum, Stainless Steel, TPR Rubber



FULL THROTTLE

Single Variable Flow: Delivers steady, maximum volume fog, jet stream and fan patterns.

High Volume Model:

15-40 GPM (57-151 L/min)

Low Volume Model:

12-19 GPM (45-72 L/min)



TURBO SHIFT

Dual Variable Flow: Delivers light fog and low volume jet stream patterns before shifting to high volume jet stream and fan patterns.

High Volume Model:

Opens with 12-17 GPM (45-64 L/min)
Turbo Shifts to 20-43 GPM (76-163 L/min)

Low Volume Model:

Opens with 7-12 GPM (27-45 L/min)
Turbo Shifts to 14-17 GPM (53-64 L/min)



Pistol Grip

Firefighter Grip

UltraMAX Valves

NEW!

Heavy duty ball valve, push-pull on/off control handle and exceptional build quality for long life under demanding use. Available in Firefighter Grip for two-handed operation or ergonomic Pistol Grip for comfortable, extended use. **Nozzles sold separately.**

ordering

All flow rates based on 80 psi (5,5 bar)

Part # NG550-DFH-75	Turbo Shift 12-43 GPM (45-163 L/min) - ¾" FHT inlet
Part # NG550-DFH-10	Turbo Shift 12-43 GPM (45-163 L/min) - 1" FHT inlet
Part # NG550-DFL-75	Turbo Shift 7-17 GPM (27-64 L/min) - ¾" FHT inlet
Part # NG550-DFL-10	Turbo Shift 7-17 GPM (27-64 L/min) - 1" FHT inlet
Part # NG500-SFH-75	Full Throttle 15-40 GPM (57-151 L/min) - ¾" FHT inlet
Part # NG500-SFH-10	Full Throttle 15-40 GPM (57-151 L/min) - 1" FHT inlet
Part # NG500-SFL-75	Full Throttle 12-19 GPM (45-72 L/min) - ¾" FHT inlet
Part # NG500-SFL-10	Full Throttle 12-19 GPM (45-72 L/min) - 1" FHT inlet
Part # SVPG-75	Pistol Grip Valve - ¾" FHT inlet
Part # SVPG-10	Pistol Grip Valve - 1" FHT inlet
Part # SV-75	Firefighter Grip Valve - ¾" FHT inlet
Part # SV-10	Firefighter Grip Valve - 1" FHT inlet

Magnum™

SOLID METAL HOSE NOZZLE

Underhill™ Magnum™ contains no plastic internal parts to break, stick or wear out. Our unique ratchet mechanism easily adjusts from gentle fan to powerful jet stream and prevents over-tightening damage. Precision-machined, incredibly smooth operation and outstanding distribution patterns make it ideal for high-demand areas like greens and tees. Magnum™ is also an excellent equipment wash-down nozzle.

features

- Multi-pattern sprays - effortless control with hydraulic assist on/off
- Solid metal internal - no plastic parts to break or wear out
- Ratchet mechanism prevents over-tightening damage
- Ultra-durable construction withstands any abuse
- Fire hose quality nozzle feels great in your hands
- Beautiful, consistent spray patterns for life
- Built for 1" and ¾" flow rates

specifications

Materials: stainless steel, aluminum, TPR rubber

Flow: 37 GPM at 80 psi

Inlet: ¾" hose thread (1" brass adapter available, see Page 4)



Magnum™ nozzle pictured with 1" brass adapter (sold separately on Page 4)



solid metal internal body

Won't stick...won't break



fan



jet



soak

NEW!
Bumper Design



CoolPro™

COOL WITHOUT OVER WATERING - NO ROOT DAMAGE

A hot summer day can be murder on your greens. Use too much water and you risk damage to the roots. CoolPro™ is the first nozzle specifically designed for the single purpose of lightly misting the turf canopy to cool without over watering. And its 25 foot fogging pattern gets the job done quickly.

features

- Precision™ nozzle fogs at 70 psi to deliver a 25 ft. pattern with only 4-6 GPM
- ¾" inlet (1" brass adapter available, see Page 4)
- Ergonomic handle/valve provides easy grip and variable on/off control.
- Durable solid metal design: zinc, aircraft aluminum and stainless steel.

Perfect for tournament play, CoolPro™ puts down only enough water to cool the turf canopy. It prevents wilting while maintaining good ball speed. CoolPro is a great tool for protecting grass on hot days without damaging roots.

ordering

Part # NG450	MAGNUM™ Hose Nozzle
Part # HNC075	CoolPro™ Valve and Nozzle
Part # HN0600	CoolPro™ Nozzle only
Part # CV075L	CoolPro™ Valve only

Precision™

SOLID METAL, SPECIFIC TASK HOSE NOZZLES

Underhill Precision™ nozzles deliver millions of soft, uniform droplets to provide rapid yet surprisingly gentle water application over a huge range of flow rates. From soft watering to powerful drenching, patented Precision nozzles are designed with ideal flow rates and droplet sizes to fully irrigate without disturbing turf, dirt, seeds, etc., providing a precise solution for every hand watering application.



precision watering for specific tasks



Rainbow™ TASKS: Greens, tees, seed beds, transplants, delicate landscaping (15 GPM)



Rainmaker™ TASKS: Syringe and spot watering turf and hardy landscaping (23 GPM)



Cloudburst™ TASKS: Dry spots, drenching, and wetting agent application (35+ GPM)



Cyclone™ Pre-game skins watering, heavy watering of large areas (50+ GPM)
Note: GPM will vary with pressure at nozzle.



NEW!
Bumper Design

high-flow valves



COMPOSITE / STAINLESS STEEL:
¾" hose thread inlet/outlet, oversized handle, up to 55 GPM



SOLID BRASS: ¾" hose thread inlet/outlet, up to 50 GPM

hose adapters / quick-connectors



ordering

- Part # HN1500CV Precision™ **Rainbow™** Nozzle Kit
- Part # HN2300CV Precision™ **Rainmaker™** Nozzle Kit
- Part # HN4800CV Precision™ **Cloudburst™** Nozzle Kit
- Part # HN5000CV Precision™ **Cyclone™** Nozzle Kit

Nozzle Kits include brass High Flow Control Valve and ¾" MHT x 1" FHT Adapter.

To order nozzle only: remove "CV" from part number.



- Part # CV075H High-Flow ¾" Valve - Brass
- Part # A-BV77FM High-Flow ¾" Valve - Composite/Steel
- Part # A-BA107FM 1" FHT x ¾" MHT Brass Hose Adapter
- Part # A-BA107MF 1" MHT x ¾" FHT Brass Hose Adapter
- Part # A-BQ7M ¾" Quick-Connect, male end
- Part # A-BQ7F ¾" Quick-Connect, female end
- Part # HN075W replacement washer, ¾" hose

PelletPro™

APPLICATOR GUN FOR SOLID WETTING AGENT TABLETS

Our heavy-duty surfactant applicator, high-flow valve and Precision™ Cloudburst™ nozzle combo comprises the finest wetting agent gun available. PelletPro™ accepts all wetting agent tablets and provides a high volume, yet soft spray for watering or applying surfactants to tight, hydrophobic soils.

features

- 35+ GPM to get the job done faster!
- Ultra Heavy-Duty - brass fittings, aircraft aluminum, stainless steel, and precision engineered glass-filled materials
- Patented Cloudburst™ nozzle delivers large droplets in an outstanding fan pattern
- Pellet rotation (1 RPS) evenly dissolves/applies tablets



PelletPro™ rotates pellets at one revolution per second (RPS) to evenly dissolve/apply wetting agent



PelletPro's bowl works great as a replacement in-line filter for most spray rigs. Heavy-duty, transparent bowl shows fluid levels, and won't crack during winter storage.

IN-LINE APPLICATOR OPTION

Connect directly to a water source (quick coupler, HoseTap, etc.) to get the benefits of PelletPro with less handheld weight.



Two products in 1!

PelletPro and LiquidPro's Precision™ Cloudburst™ nozzle and high-flow valve quickly assemble to create a powerful, 35+ GPM syringe nozzle.



LiquidPro™

APPLICATOR GUN FOR LIQUID WETTING AGENT

LiquidPro's chemical-resistant, UV-protected, lightweight siphon/mixing system can cover 1000 square feet in less than a minute! With unmatched speed and uniformity, you can virtually "paint" your turf with liquid wetting agent, fertilizers, and micronutrients. Adjustable metering dial offers 10 additive settings including "Water Only."



With the included 1" FHT x 3/4" MHT brass adapter, PelletPro™ and LiquidPro™ work with both 3/4" and 1" hoses.

ordering

- | | |
|------------------|--|
| Part # A-PPWA50K | PelletPro™ Applicator Gun |
| Part # A-PPQ-075 | PelletPro™ In-line Applicator: 3/4" FHT inlet, 3/4" MHT outlet |
| Part # A-PPQ-100 | PelletPro™ In-line Applicator: 1" FHT inlet, 1" MHT outlet |
| Part # A-PPB | In-line Filter Bowl |
| Part # A-PPBG | Gasket |
| Part # A-LPWA50K | LiquidPro™ Applicator Gun |
| Part # A-LPWAB-6 | 6-Pack of 32 oz. Polybottles and Carrier |



◀ Cost

▼ ROI

Profile™

SOLID METAL GOLF SPRINKLER NOZZLES

Upgrade your Toro® or Rain Bird® sprinklers with our perfect-fit Profile™ nozzles and you will see improved results immediately. And with ultra-uniform water distribution, you can cut back watering times to **save millions** of gallons of water **every year**. Over time, since Profile solid metal nozzles resist wear and clogging, you'll enjoy these superior results for the life of your sprinkler...never needing to change out nozzles again. Nozzles so consistent, patterns so uniform... it's like rain on demand.™

Use less water, energy and manpower
and get better course playability.

"Profile nozzles lived up to our expectations and eliminated patchy dry spots and donuts. We retrofitted all our fairways and now run a more efficient irrigation program."

Logan Spurlock

Superintendent, Sherwood Country Club

"It was like putting in a new irrigation system. I became a believer overnight."

Mike Huck

Irrigation & Turfgrass Services

Former USGA Staff Agronomist and Superintendent, Murrieta Hot Springs Resort

"The Profile retrofit program has also extended the life of our Toro system while improving course appearance and playability."

Dennis Eichner

Assistant Superintendent, Silverado Resort - Napa, California

"The real power is knowing that retrofitting sprinklers with Profile nozzles can be phased in to work within a course's operating budget."

Kurt Thompson

K. Thompson and Associates, Irrigation Consultant and Trainer
Huntersville, North Carolina and Pace, Florida

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entire course all at once -
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options available now!

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