



# TURFCARE

Helping your business grow.

# GOLF IRRIGATION

Product Catalogue 2026





# TURF CARE

Helping your business grow.



## PROUDLY CANADIAN SINCE 1975

Turf Care Products Canada is an award-winning, independent and privately held Canadian company providing quality products and services to the golf course community, municipalities, parks departments, professional contractors and authorized Toro and Kawasaki dealers. We select and distribute only the best quality product lines from quality manufacturers.

We are proud of the products we represent and stand behind what we sell. Our mission is to be the leading provider of quality products and services, and to add value to each transaction by combining these products and services into a "Total Solution" for our customers, which includes the provision of exceptional after sales service and support.

### SALES REPRESENTATIVE TERRITORIES

#### ■ Ontario

Mike Olizarevitch GTA & Central Northern Ontario  
Darcy Bluethner Eastern Ontario  
Jesse Booker Southwestern Ontario

#### ■ Québec

Éric Rondeau  
Daniel Campbell

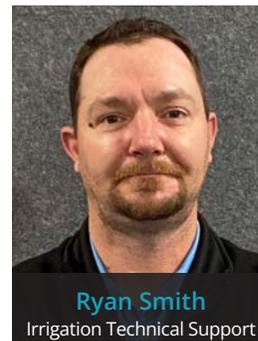
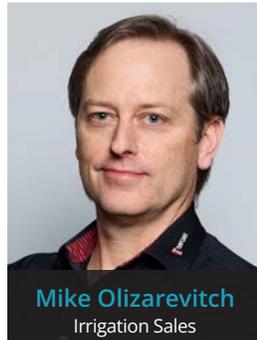
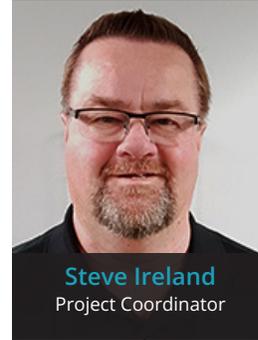
#### ■ Atlantic Canada

Gord Johansson



## Dedicated Support & Unparalleled Service

### ONTARIO & ATLANTIC CANADA



### QUÉBEC



Ready to help with all of your irrigation needs! Call Today 1-800-561-8873 x 7502

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CORPORATE  
MEMBER



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**TORO****SPATIAL ADJUST™**

Spatial Adjust uses turfRad sensors mounted on Toro® fairway mowers and commercial equipment to transform everyday activity into a powerful irrigation management tool. By collecting thousands of soil moisture readings during routine operations, it delivers actionable insights that help superintendents make smarter, faster irrigation adjustment decisions with confidence.

## FEATURES & BENEFITS

### Beyond Precision: Adaptive Irrigation Insight

- Spatial Adjust doesn't just monitor turf—it responds.
- Powered by turfRad sensors, Spatial Adjust responds to current conditions and delivers irrigation recommendations that superintendents can validate and implement with confidence.

### Actionable Insight from Thousands of Data Points

- No guesswork - turfRad sensors collect data during routine activities like mowing.
- Spatial Adjust processes it and integrates with Lynx® Central Control to inform irrigation decisions across hundreds of sprinkler heads—all with just a few clicks.
- Moisture adjustments are continuously refined to help align measured volumetric water content (VWC) with superintendent-defined targets.

### A Streamlined Way to Get More Done

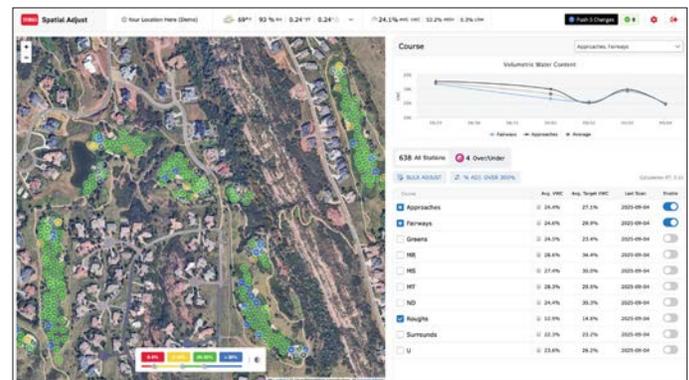
- Smarter irrigation is seamlessly embedded into your crew's workflow.
- Spatial Adjust builds soil moisture monitoring into daily routines. No extra labor. No manual readings.

### Superintendent-Driven Control

- Spatial Adjust provides recommendations, but the final decision is always yours.
- Superintendents validate and implement changes—ensuring expert oversight and confidence in every adjustment.
- Optional overrides allow superintendents to fine-tune irrigation amounts or select specific sprinklers for adjustment.

### Your Competitive Advantage for Superior Playing Conditions

- Spatial Adjust is exclusively for Toro customers
- Only Toro customers can automate irrigation scheduling using turfRad data.



# turfRad Sensor

Mapping root-zone soil moisture to save resources and optimise playing conditions.

Precision irrigation management to reduce water and electricity usage.



## Easy to install

turfRad sensors are portable, rugged, and waterproof. They can easily be mounted onto **mowers** or **utility vehicles**.

## Easy to operate

You can passively collect over **10,000 measurements** everytime you mow - **no extra labour**.

## Easy to understand

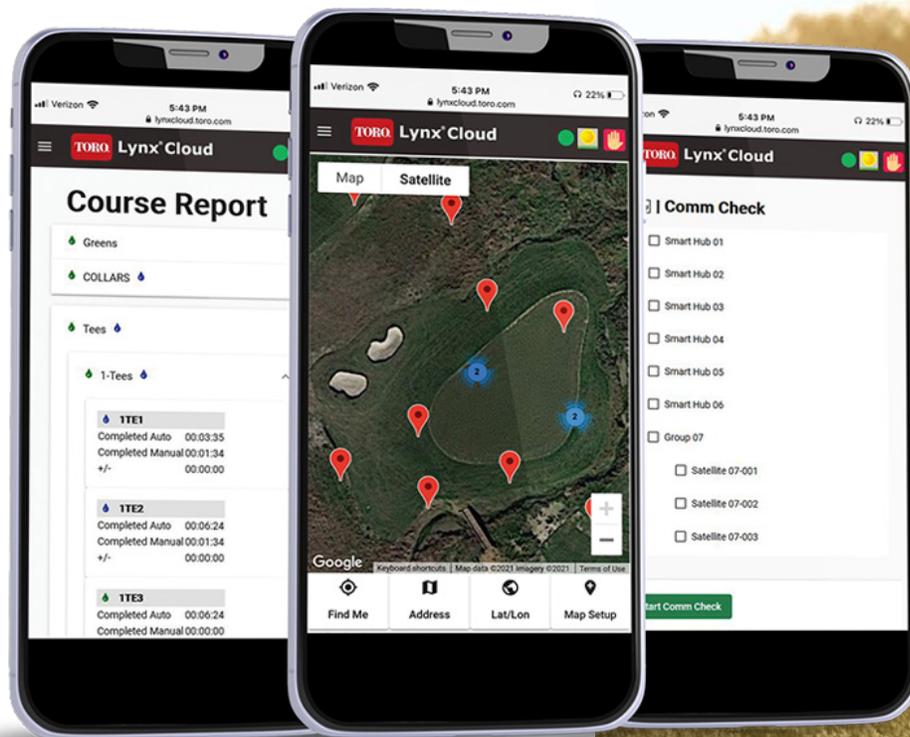
We present actionable information designed to **guide attention** and **monitor trends**.

Irrigation map overlays enable precise moisture control to **optimize course conditions**.



Our purpose is to help our customers enrich the beauty, productivity and sustainability of the land. This is our legacy, our purpose, our commitment to both the customers we serve and the generations to come.

# Control with Confidence



**LYNX<sup>®</sup> Cloud**



**TURFCARE**



**INFINITY<sup>®</sup> Series  
Sprinklers**



LEARN MORE



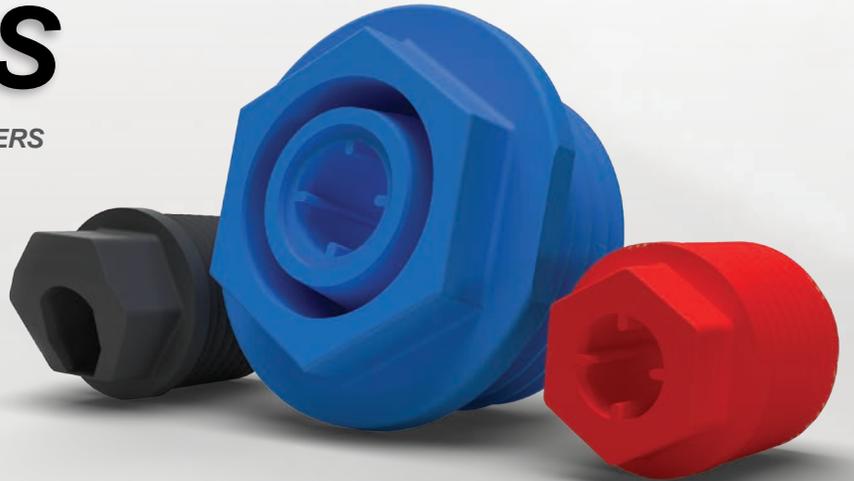
**TORO**<sup>®</sup>

**NEW!**

**PERFORMANCE SERIES** >>

# **NOZZLES**

FOR INFINITY<sup>®</sup> & FLEX800<sup>™</sup> SPRINKLERS



## **THE BEST JUST GOT BETTER.**

Toro's new Performance Series Nozzles are the next evolution of precise water delivery. Starting with industry leading distribution uniformity, adding unparalleled versatility, the end result is the ultimate in golf course irrigation efficiency.

The Performance Series for INFINITY<sup>®</sup> and FLEX800<sup>™</sup> Sprinklers take precision irrigation to an all new level.



[toro.com/golf](http://toro.com/golf)

PERFORMANCE SERIES

FOR INFINITY® & FLEX800™ SERIES SPRINKLERS

TORO®

# NOZZLES



## PERFORMANCE FOR ALL DESIGNS.

Performance Series Nozzles provide a streamlined approach to simplify the design process and optimize water delivery.

- Performance Specification for Common Spacings
- One Model Color for Each Main Nozzle
- New Profile Performance Data for Consultants

Water delivery with **precision.**



\*Note: Performance Nozzles not shown at actual size.



# SPRINKLERS

## INFINITY SPRINKLERS

The INFINITY® Series improves your course quality with less workload and most important, it keeps golfers playing. Calculate the money you'll save by cutting sprinkler maintenance from hours to minutes.



### Smart Access®

Provides top accessibility to all critical components.

- ✓ No digging or unsightly turf repair scars
- ✓ Pilot valve removable with water "ON"
- ✓ Lynx® Smart Module (LSM)
- ✓ Customizable marker
- ✓ No buried wire splices or ground faults
- ✓ Replaceable cover if damaged
- ✓ Increased labour efficiency
- ✓ Lower long term cost of ownership



### Future Proof

The SMART ACCESS® compartment provides room to grow. Whatever the future holds, this sprinkler is ready.



### Protective Enclosure

The protective enclosure isolates wire splices from the soil and potential shorts to ground. Provides access for system troubleshooting and repairs without digging!



More information & demo video on [www.toroinfinity.com](http://www.toroinfinity.com)

## Infinity Sprinklers - Complete

Part	Description	Pkg Qty	List (ea)
INF34-338-1	1" Full Circle, #33 nozzle, Std. Solenoid, 65' spacing	4	1,304.00
INF35-348-1	1" Part Circle, #34 nozzle, Std. Solenoid, 65' spacing	4	1,435.00
INF35-348-16	1" Part Circle, #34 nozzle, Std. Solenoid, Trjectory, 65' spacing	4	1,505.00
INF54-568-1	1.5" Full Circle, #56 nozzle, Std. Solenoid, 80' spacing	4	1,359.00
INF54-591-1	1.5" Full Circle, #59 nozzle, Std. Solenoid, 90' spacing	4	1,359.00
INF55-578-1	1.5" Part Circle, #57 nozzle, Std. Solenoid, 80' spacing	4	1,487.00
INF55-578-16	1.5" Part Circle, #57 nozzle, Std. Solenoid, Trjectory, 80' spacing	4	1,556.00

\*Spikeguard solenoids are available upon request.



## Infinity Sprinkler With Smart Access™

Create a customized sprinkler by selecting a body and conversion from below.

- Nozzle Performance Charts: See pages 19 & 21

- Sprinkler Tools: See page 82



Infinity Riserless Bodies (Pick 1)			
Part	Description	Pkg Qty	List (ea)
INF30-1	1", Riserless body, Standard Solenoid	4	695.00
INF30-2	1", Riserless body, Spike Guard Solenoid	4	816.00
INF30-6	1", Riserless body, LSM Module & DC Latching Solenoid	4	1,473.00
INF50-1	1.5", Riserless body, Standard Solenoid	4	732.00
INF50-2	1.5", Riserless body, Spike Guard Solenoid	4	856.00
INF50-6	1.5", Riserless body, LSM Module & DC Latching Solenoid	4	1,513.00

## Infinity Sprinkler Conversion Assemblies (Pick 1)

Part	Description	Pkg Qty	List (ea)
<b>INFINITY Series Full Circle</b>			
INF34-3134	INF34 #31-34 Nozzle (33 Installed)	5	613.00
INF34-3537	INF34 #35-37 Nozzle (35 Installed)	5	613.00
<b>INF54 Series Full Circle</b>			
INF54-5154	INF54 #51-54 Nozzle (53 Installed)	5	613.00
INF54-5558	INF54 #55-58 Nozzle (55 Installed)	5	613.00
INF54-59	INF54 #59 Nozzle (59 Installed)	5	635.00
<b>INF35 Series Full Circle/Adjustable Part Circle</b>			
INF35-3134	INF35 #31-34 Nozzle (33 Installed)	5	746.00
INF35-3537	INF35 #35-37 Nozzle (35 Installed)	5	746.00
<b>INF55 Series Full Circle/Adjustable Part Circle</b>			
INF55-5154	INF55 #51-54 Nozzle (53 Installed)	5	768.00
INF55-5558	INF55 #55-58 Nozzle (55 Installed)	5	768.00
INF55-59	INF55 #59 Nozzle (59 Installed)	5	768.00
<i>The Following Premium Conversions Come with 7-30deg. Trajectory Adjustment</i>			
<b>INF35-6 Series Full circle/Adjustable Part Circle</b>			
INF35-6-3134	INF35-6 #31-34 Nozzle (33 Installed)	5	812.00
INF35-6-3537	INF35-6 #35-37 Nozzle (35 Installed)	5	812.00
<b>INF55-6 Series Full circle/Adjustable Part Circle</b>			
INF55-6-5154	INF55-6 #51-54 Nozzle - Ribbed Body (53 Installed)	5	838.00
INF55-6-5558	INF55-6 #55-58 Nozzle - Ribbed Body (55 Installed)	5	838.00
INF55-6-59	INF55-6 #59 Nozzle - Ribbed Body (59 Installed)	5	838.00
Infinity and Flex Conversion are interchangeable.			

## Infinity Markers

Part	Description	Pkg	List (ea)
118-6234	White with black edge film	1	28.00
118-6235	Yellow with black edge film	1	28.00





# INFINITY® RAZOR™ KITS



Extend the frequency of digging up and leveling sprinklers with the Toro® INFINITY Razor kits. Over time the application of topdressing and settling can result in the sprinkler being in a depression below grade level. This can interfere with the natural roll of the ball, create trip hazards and take away from the natural beauty of the course. The Razor kits are designed to raise the top of the sprinkler in ½" increments up to 1½" (3 stages) without digging!

## FEATURES & BENEFITS

- ✓ Eliminates sprinkler interference
- ✓ Eliminates trip hazards
- ✓ Enhances course appearance
- ✓ Huge labor savings – no digging required!
- ✓ Retention features – hardware never gets lost
- ✓ Smart Access® compartment enables access to pilot valve, Lynx® Smart Module, wire splices and more



Screw retention features (3 places)

Pilot Valve stacker retention feature

LEARN MORE ABOUT INFINITY® RAZOR™ KITS



Part	Description	Pkg	List (ea)
RAZOR-10-1	Set of 5 rings	1	350.00
RAZOR-10-2	Set of 5 rings	1	350.00
RAZOR-10-3	Set of 5 rings	1	350.00
RAZOR-15-1	Set of 5 rings	1	350.00
RAZOR-15-2	Set of 5 rings	1	350.00
RAZOR-15-3	Set of 5 rings	1	350.00



# INFINITY® STEALTH™ KITS



Eliminate sprinkler interference with the outcome of the game forever! Toro's INFINITY Stealth Kits can be installed onto any INFINITY sprinkler allowing turf growth directly atop the sprinkler to eliminate the hard surface bounce should a golf ball hit it. The seamless turf appearance adds to the beauty of the course and improves labor efficiency by minimizing trimming efforts around the sprinklers.

## FEATURES & BENEFITS

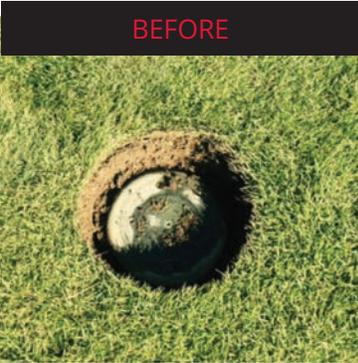
- ✓ Eliminates sprinkler interference
- ✓ Enhances course appearance
- ✓ Natural turf atop sprinkler
- ✓ Kit fits existing INFINITY sprinklers
- ✓ Easy access to arc adjustment, snap rings, riser removal assembly, valve and rock screen
- ✓ Smart Access® compartment enables access to Pilot valve, Lynx Smart Module, wire splices & more
- ✓ Access to manual selector and Trujectory™ adjuster with minimal turf/soil displacement
- ✓ Turf cup grass can be grown in a nursery prior to being installed onto the sprinkler



### STEALTH™ KIT MODELS

**STEALTH-T** – Kit attaches to INFINITY Series sprinklers with Trujectory™ style, 24-position main nozzle adjustment capability

**STEALTH-D** – Kit attaches to INFINITY Series sprinklers with dual trajectory main nozzle adjustment capability



LEARN MORE ABOUT INFINITY® STEALTH™ KITS





# SPRINKLERS



## FLEX800 34/54 Series Sprinklers Standard

- Constant velocity drive
- 3 1/4" pop-up height to clear tall grasses
- Removable inlet screen
- Selectable pilot valve (50, 65, 80, 100 psi)
- Dual trajectory 25° or 15°
- True full circle (FLX34/FLX54)
- Standard solenoid, Spike Guard, or DC Latching
- Sprinkler Tools: See page 82



Electric Full Circle Sprinklers			
Part	Description	Pkg Qty	List (ea)
<b>FLEX800 34 Series Full Circle - 65' Spacing</b>			
FLX34-338-1	1" Acme Inlet, Electric, Standard Solenoid	4	1,117.00
FLX34-338-2	1" Acme Inlet, Electric, Spike Guard Solenoid	4	1,238.00
FLX34-338-4	1" Acme Inlet, Electric, DC Latching Solenoid	4	1,222.00
FLX34-338-6	1" Acme Inlet, Electric, LSM Two-Wire Module	4	1,947.00
<b>FLEX800 54 Series Full Circle - 80' Spacing</b>			
FLX54-568-1	1.5" Acme Inlet, Electric, Standard Solenoid	4	1,180.00
FLX54-568-2	1.5" Acme Inlet, Electric, Spike Guard Solenoid	4	1,294.00
FLX54-568-4	1.5" Acme Inlet, Electric, DC Latching Solenoid	4	1,282.00
FLX54-568-6	1.5" Acme Inlet, Electric, LSM Two-Wire Module	4	1,961.00

See Chart on opposite page for optional nozzle sizes

Sprinkler Conversion Assemblies & Riserless Bodies			
Part	Description	Pkg Qty	List (ea)
<b>FLEX800 34 Series Full Circle</b>			
FLX34-3134	FLEX34 #31-34 Nozzle (33 Installed)	5	613.00
FLX34-3537	FLEX34 #35-37 Nozzle (35 Installed)	5	613.00
<b>FLEX800 54 Series Full Circle</b>			
FLX54-5154	FLEX54 #51-54 Nozzle (53 Installed)	5	635.00
FLX54-5558	FLEX54 #55-58 Nozzle (55 Installed)	5	635.00
FLX54-59	FLEX54 #59 Nozzle (59 Installed)	5	635.00
<b>FLEX800 Riserless Bodies</b>			
FLX30-46-1	1" Acme Inlet, Electric, Standard Solenoid	4	508.00
FLX30-46-2	1" Acme Inlet, Electric, Spike Guard Solenoid	4	619.00
FLX30-46-4	1" Acme Inlet, Electric, DC Latching Solenoid	4	609.00
FLX30-46-6	1" Acme Inlet, Electric, LSM Two-Wire Module	4	1,333.00
FLX50-46-1	1.5" Acme Inlet, Electric, Standard Solenoid	4	539.00
FLX50-46-2	1.5" Acme Inlet, Electric, Spike Guard Solenoid	4	657.00
FLX50-46-4	1.5" Acme Inlet, Electric, DC Latching Solenoid	4	641.00
FLX50-46-6	1.5" Acme Inlet, Electric, LSM Two-Wire Module	4	1,325.00
102-0950	Adapter Ring for 600/700 series 1.5" fairway sprinklers	1	30.78

# INF-FLX34 & INF-FLX54 Nozzle Performance Chart

Scan QR for Legacy Nozzle Charts



## INF-FLX34 Performance Series Nozzle Chart

Nozzle Set (31 to 34)	Nozzle Set 31		Nozzle Set 32		Nozzle Set 33		Nozzle Set 34	
Color	(Yellow)		(Blue)		(Brown)		(Orange)	
Part #	102-0725		102-0726		102-0727		102-7002	
Stator #	102-6929 Blue							
Front								
Color	(Orange)	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)
Part #	102-2926	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335
Back Nozzle Positions								
Color	(White)	(Red)	(Yellow)	(Orange)	(Yellow)	(Red)	(Yellow)	(Beige)
Part #	102-6940	102-4335	102-6937	102-2926	102-6937	102-2928	102-6937	102-2929
Full Circle Dual Trajectory 34								
Pressure (PSI)	Radius (FT)	Flow (GPM)						
50	54	15.5	58	18.5				
65	55	18.0	60	21.1	65	25.4	70	28.9
80	59	19.9	67	23.6	71	28.5	75	32.4
100	61	22.2	70	26.5	76	32.0	79	36.0

Nozzle Set (35 to 37)	Nozzle Set 35		Nozzle Set 36		Nozzle Set 37	
Color	(Green)		(Gray)		(Black)	
Part #	102-0729		102-0730		102-4261	
Stator #	102-1940 Red, Black (Circles)					
Front						
Color	(Red)	(Red)	(Brown)	(Red)	(Red)	(Lt. Blue)
Part #	102-4335	102-4335	102-6883	102-4335	102-4335	102-6700
Back Nozzle Positions						
Color	(Yellow)	(Beige)	(White)	(Beige)	(White)	(Beige)
Part #	102-6937	102-2929	102-6940	102-6942	102-6940	102-6942
Full Circle Dual Trajectory 34						
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)
50						
65	75	37.4				
80	82	41.3	80	46.8	85	52.3
100	86	46.0	87	52.1	89	58.5

## INF-FLX54 Performance Series Nozzle Chart

Nozzle Set (51 to 54)	Nozzle Set 51		Nozzle Set 52		Nozzle Set 53		Nozzle Set 54	
Color	(Yellow)		(Blue)		(Brown)		(Orange)	
Part #	102-0725		102-0726		102-0727		102-7002	
Stator #	102-1939 White							
Front								
Color	(Orange)	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)
Part #	102-2926	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335
Back Nozzle Positions								
Color	(White)	(Red)	(Yellow)	(Orange)	(Yellow)	(Red)	(Yellow)	(Beige)
Part #	102-6940	102-4335	102-6937	102-2926	102-6937	102-2928	102-6937	102-2929
Full Circle Dual Trajectory 54								
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)
50	54	15.9	60	18.9				
65	55	18.1	62	21.6	65	25.8	70	29.4
80	58	20.3	68	24.0	70	29.0	75	32.9
100	62	22.7	72	27.0	75	32.5	77	36.5

Nozzle Set (55 to 59)	Nozzle Set 55		Nozzle Set 56		Nozzle Set 57		Nozzle Set 58		Nozzle Set 59	
Color	(Green)		(Gray)		(Black)		(Red)		(Beige)	
Part #	102-0729		102-0730		102-4261		102-4260		102-4259	
Stator #	102-1940 Red, Black (Circles)									
Front										
Color	(Brown)	(Red)	(Brown)	(Red)	(Red)	(Lt. Blue)	(White)	(Red)	(Red)	(Red)
Part #	102-6883	102-4335	102-6883	102-4335	102-4335	102-6700	102-6940	118-4335	102-4335	102-6944
Back Nozzle Positions										
Color	(White)	(Beige)	(White)	(Beige)	(White)	(Beige)	(Beige)	(Gray)	(White)	(Red)
Part #	102-6940	102-6942	102-6940	102-6942	102-6940	102-6942	102-6942	102-6945	102-6940	102-4335
Full Circle Dual Trajectory 54										
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)
50										
65	75	40.8								
80	79	45.6	80	47.3	85	52.9	85	57.9	97	60.7
100	84	50.9	87	53.0	90	59.1	94	65.4	104	67.4

Not recommended at these pressures. Radius shown in feet.  
 Recommended pressures for optimum nozzle performance.

Toro® recommends the use of a 1 1/4" swing joint at flows over 25-gpm (95-LPM).  
 Sprinkler radius data collected in Toro's zero wind test facility per ASAE standard S398.1.  
 Actual site conditions must be considered when selecting the appropriate nozzle.  
 All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.



# SPRINKLERS



## FLEX800 35/55 Series Sprinklers Standard

- Constant velocity drive
- 3 1/4" pop-up height to clear tall grasses
- Removable inlet screen
- Selectable pilot valve (50, 65, 80, 100 psi)
- Dual trajectory 25° or 15°
- True full circle/adjustable part circle (FLX35/FLX55)
- Standard solenoid, Spike Guard or DC Latching
- Sprinkler Tools: See page 82



Part Circle Sprinklers Electric - Standard			
Part	Description	Pkg Qty	List (ea)
<b>FLEX800 35 Series Adjustable Part Circle - 65' Spacing</b>			
FLX35-348-1	1" Acme Inlet, Electric, Standard Solenoid	4	1,256.00
FLX35-348-2	1" Acme Inlet, Electric, Spike Guard Solenoid	4	1,369.00
FLX35-348-4	1" Acme Inlet, Electric, DC Latching Solenoid	4	1,356.00
FLX35-348-6	1" Acme Inlet, Electric, LSM Two-Wire Module	4	2,092.00
<b>FLEX800 55 Series Adjustable Part Circle - 80' Spacing</b>			
FLX55-578-1	1.5" Acme Inlet, Electric, Standard Solenoid	4	1,316.00
FLX55-578-2	1.5" Acme Inlet, Electric, Spike Guard Solenoid	4	1,433.00
FLX55-578-4	1.5" Acme Inlet, Electric, DC Latching Solenoid	4	1,417.00
FLX55-578-6	1.5" Acme Inlet, Electric, LSMTwo-Wire Module	4	2,097.00
See Chart on opposite page for optional nozzle sizes			

Sprinkler Conversion Assemblies			
Part	Description	Pkg Qty	List (ea)
<b>FLEX800 35 Series Full Circle/Adjustable Part Circle</b>			
FLX35-3134	FLEX35 #31-34 Nozzle (33 Installed)	5	746.00
FLX35-3537	FLEX35 #35-37 Nozzle (35 Installed)	5	746.00
<b>FLEX800 55 Series Full Circle/Adjustable Part Circle</b>			
FLX55-5154	FLEX55 #51-54 Nozzle - Ribbed Body (53 Installed)	5	768.00
FLX55-5558	FLEX55 #55-58 Nozzle - Ribbed Body (55 Installed)	5	768.00
FLX55-59	FLEX55 #59 Nozzle - Ribbed Body (59 Installed)	5	768.00
<b>FLEX800 Riserless Bodies</b>			
FLX30-46-1	1" Acme Inlet, Electric, Standard Solenoid	4	508.00
FLX30-46-2	1" Acme Inlet, Electric, Spike Guard Solenoid	4	619.00
FLX30-46-4	1" Acme Inlet, Electric, DC Latching Solenoid	4	609.00
FLX30-46-6	1" Acme Inlet, Electric, LSM Two-Wire Module	4	1,333.00
FLX50-46-1	1.5" Acme Inlet, Electric, Standard Solenoid	4	539.00
FLX50-46-2	1.5" Acme Inlet, Electric, Spike Guard Solenoid	4	657.00
FLX50-46-4	1.5" Acme Inlet, Electric, DC Latching Solenoid	4	641.00
FLX50-46-6	1.5" Acme Inlet, Electric, LSM Two-Wire Module	4	1,325.00
NPT inlet bodies and Ribless conversions available upon request			

## INF-FLX 35 & INF-FLX 55 Nozzle Performance Chart

### INF-FLX35 Performance Series Nozzle Chart

Nozzle Set (30 to 33)	Nozzle Set 30	Nozzle Set 31	Nozzle Set 32	Nozzle Set 33	Nozzle Set (34 to 37)	Nozzle Set 34	Nozzle Set 35	Nozzle Set 36	Nozzle Set 37
Color	(White)	(Yellow)	(Blue)	(Brown)	Color	(Orange)	(Green)	(Gray)	(Black)
Part #	102-2208	102-0725	102-0726	102-0727	Part #	102-7002	102-0729	102-0730	102-4261
Stator #	102-6929 Blue	102-1939 White			Stator #	102-1939 White	118-7282 Red, Pink		
Front					Front				
Color	(Yellow)	(Beige)	(Green)	(Blue)	Color	(Yellow)	(Purple)	(White)	(Yellow)
Part #	102-5670	102-6942	102-6531	102-2925	Part #	102-5670	102-6699	102-6940	102-6946
Back Nozzle Positions					Back Nozzle Positions				
Color	(Red)	(Red)	(Red)	(Red)	Color	(Red)	(Red)	(Red)	(Red)
Part #	102-4335	102-4335	102-4335	102-4335	Part #	102-4335	102-4335	102-4335	102-4335
Part Circle Dual Trajectory 35					Part Circle Dual Trajectory 35				
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)
50	43	8.2	52	13.8	50				
65	45	10.0	55	15.9	65	70	25.6	75	34.2
80	46	11.5	57	17.6	80	71	28.5	78	38
100	47	13.4	58	19.6	100	72	31.7	83	42.5

### INF-FLX55 Performance Series Nozzle Chart

Nozzle Set (51 to 54)	Nozzle Set 51	Nozzle Set 52	Nozzle Set 53	Nozzle Set 54	Nozzle Set (55 to 59)	Nozzle Set 55	Nozzle Set 56	Nozzle Set 57	Nozzle Set 58	Nozzle Set 59
Color	(Yellow)	(Blue)	(Brown)	(Orange)	Color	(Green)	(Gray)	(Black)	(Red)	(Beige)
Part #	102-0725	102-0726	102-0727	102-7002	Part #	102-0729	102-0730	102-4261	102-4260	102-4259
Stator #	102-1939 White				Stator #	118-7282 Red, Pink				102-1941 Red, Black (Spokes)
Front					Front					
Color	(Yellow)	(Brown)	(Green)	(Blue)	Color	(White)	(Yellow)	(White)	(Yellow)	(White)
Part #	102-5670	102-5671	102-6531	102-6947	Part #	102-6940	102-6946	102-6940	102-6946	102-6940
Back Nozzle Positions					Back Nozzle Positions					
Color	(Red)	(Red)	(Red)	(Red)	Color	(Red)	(Red)	(Red)	(Red)	(Red)
Part #	102-4335	102-4335	102-4335	102-4335	Part #	102-4335	102-4335	102-4335	102-4335	102-4335
Part Circle Dual Trajectory 55					Part Circle Dual Trajectory 55					
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	
50	53	13.9	58	18.1	50					
65	55	15.3	60	20.7	65	75	34.6	80	40.0	
80	57	17.8	64	23.1	80	79	38.5	83	42.9	
100	59	19.8	68	25.8	100	83	43.0	85	45.1	

Not recommended at these pressures. Radius shown in feet.  
 Recommended pressures for optimum nozzle performance.

Toro® recommends the use of a 1¼" swing joint at flow over 25-gpm (95-LPM).  
 Sprinkler radius data collected in Toro's zero wind test facility per ASAE standard S398.1.  
 Actual site conditions must be considered when selecting the appropriate nozzle.  
 All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.

Scan QR for Legacy  
Nozzle Charts





# PREMIUM SPRINKLERS



## FLEX800 35-6/55-6 Series Sprinklers Premium

All of the features of the FLEX Series plus:

- Trajectory adjustment from 7°- 30° in 1° increments
- Ratcheting riser for easy alignment
- Ability to stop rotation for soaking
- Standard Solenoid, Spike Guard or DC latching
- Removable inlet screen
- 3 1/4" pop-up height to clear tall grasses
- Sprinkler Tools: See page 82



FLX35-6

FLX55-6

Part Circle Sprinklers - Premium			
Part	Description	Pkg Qty	List (ea)
<b>FLEX800 35-6 Series Full circle/Adjustable Part Circle - 65' Spacing</b>			
FLX35-348-16	1" Acme Inlet, Electric, Standard Solenoid w/Tru-jjectory™	4	1,316.00
FLX35-348-26	1" Acme Inlet, Electric, Spike Guard Solenoid w/Tru-jjectory™	4	1,429.00
FLX35-348-46	1" Acme Inlet, Electric, DC Latching Solenoid w/Tru-jjectory™	4	1,420.00
FLX35-348-66	1" Acme Inlet, Electric, LSM Two-Wire Module, w/Tru-jjectory™	4	2,142.00
<b>FLEX800 55-6 Series Full circle/Adjustable Part Circle - 80' Spacing</b>			
FLX55-578-16	1.5" Acme Inlet, Electric, Standard Solenoid w/Tru-jjectory™	4	1,372.00
FLX55-578-26	1.5" Acme Inlet, Electric, Spike Guard Solenoid w/Tru-jjectory™	4	1,499.00
FLX55-578-46	1.5" Acme Inlet, Electric, DC Latching Solenoid w/Tru-jjectory™	4	1,465.00
FLX55-578-66	1.5" Acme Inlet, Electric, LSM Two-Wire Module, w/Tru-jjectory™	4	2,155.00
See Chart on opposite page for optional nozzle sizes			

Premium Part Circle Conversion Assemblies w/7°-30° Tru-jjectory Adjustment			
Part	Description	Pkg Qty	List (ea)
<b>FLEX800 35-6 Series Full circle/Adjustable Part Circle</b>			
FLX35-6-3134	FLEX 35-6 #31-34 Nozzle (33 installed)	5	812.00
FLX35-6-3537	FLEX 35-6 #35-37 Nozzle (35 installed)	5	812.00
<b>FLEX800 55-6 Series Full circle/Adjustable Part Circle</b>			
FLX55-6-5154	FLEX 55-6 #51-54 Nozzle - Ribbed Body (53 installed)	5	838.00
FLX55-6-5558	FLEX 55-6 #55-58 Nozzle - Ribbed Body (55 installed)	5	838.00
FLX55-6-59	FLEX 55-6 #59 Nozzle - Ribbed Body (59 installed)	5	838.00
FLX55-6-5154R	FLEX 55-6 #51-54 Nozzle - Ribless Body (53 installed)	5	899.99
FLX55-6-5558R	FLEX 55-6 #55-58 Nozzle - Ribless Body (55 installed)	5	899.99
FLX55-6-59R	FLEX 55-6 #59 Nozzle - Ribless Body (59 installed)	5	899.99

## INF-FLX35-6 & INF-FLX 55-6 Nozzle Performance Chart

### INF-FLX35-6 Performance Series Nozzle Chart

Nozzle Set (30 to 33)	Nozzle Set 30	Nozzle Set 31	Nozzle Set 32	Nozzle Set 33	Nozzle Set (34 to 37)	Nozzle Set 34	Nozzle Set 35	Nozzle Set 36	Nozzle Set 37				
Color	(White)	(Yellow)	(Blue)	(Brown)	Color	(Orange)	(Green)	(Gray)	(Black)				
Part #	102-2208	102-0725	102-0726	102-0727	Part #	102-7002	102-0729	102-0730	102-4261				
Stator #	102-6929 Blue	102-1939 White			Stator #	102-1939 White	118-7282 Red, Pink						
Front					Front								
Color	(Blue)	(Gray)	(Black)	(Green)	(Gray)	(Dark Red)	(White)	(Purple)	(White)	(Lt. Blue)	(White)	(Lt. Blue)	
Part #	102-2925	102-2910	102-6941	102-6697	102-6945	102-6698	102-6941	102-6698	102-6940	102-6946	102-6700	102-6940	102-6700
Back Nozzle Positions					Back Nozzle Positions								
Color	(Red)	(Red)	(Red)	(Red)	Color	(Red)	(Red)	(Red)	(Red)				
Part #	102-4335	102-4335	102-4335	102-4335	Part #	102-4335	102-4335	102-4335	102-4335				
Part Circle Dual Trajectory 35					Part Circle Dual Trajectory 35								
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	
50	42	7.6	53	13.9	58	19.4							
65	45	8.3	55	15.9	60	22.3	65	24.3					
80	46	9.2	59	17.6	64	24.5	69	26.8					
100	48	10.1	61	19.5	68	27.3	73	30.0					

### INF-FLX55-6 Performance Series Nozzle Chart

Nozzle Set (51 to 54)	Nozzle Set 51	Nozzle Set 52	Nozzle Set 53	Nozzle Set 54	Nozzle Set (55 to 59)	Nozzle Set 55	Nozzle Set 56	Nozzle Set 57	Nozzle Set 58	Nozzle Set 59				
Color	(Yellow)	(Blue)	(Brown)	(Orange)	Color	(Green)	(Gray)	(Black)	(Red)	(Beige)				
Part #	102-0725	102-0726	102-0727	102-7002	Part #	102-0729	102-0730	102-4261	102-4260	102-4259				
Stator #	102-1939 White				Stator #	102-1940 Red, Black (Circles)				102-1941 Red, Black (Spokes)				
Front					Front									
Color	(Black)	(Green)	(Black)	(Dark Red)	(Black)	(Dark Red)	(Black)	(Purple)	(White)	(Purple)	(Black)	(Red)	(Black)	(Red)
Part #	102-6941	102-6697	102-6941	102-6698	102-6941	102-6698	102-6941	102-6698	102-6940	102-6699	102-6941	118-6700	102-6941	102-6944
Back Nozzle Positions					Back Nozzle Positions									
Color	(Red)	(Red)	(Red)	(Red)	Color	(Red)	(Red)	(Red)	(Red)	(Red)				
Part #	102-4335	102-4335	102-4335	102-4335	Part #	102-4335	102-4335	102-4335	102-4335	102-4335				
Part Circle Dual Trajectory 55					Part Circle Dual Trajectory 55									
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)		
50	53	14.5	58	19.9										
65	55	16.5	60	22.9	65	25.4	70	26.9						
80	59	18.2	65	25	70	27.6	73	30.4						
100	61	20.3	70	28	74	30.7	76	33.9						

Not recommended at these pressures. Radius shown in feet.  
 Recommended pressures for optimum nozzle performance.

Toro® recommends the use of a 1¼" swing joint at flows over 25-gpm (95-LPM).  
 Sprinkler radius data collected in Toro's zero wind test facility per ASAE standard S398.1.  
 Actual site conditions must be considered when selecting the appropriate nozzle.  
 All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.

Scan QR for Legacy  
Nozzle Charts





## B Series Sprinklers

- Constant velocity drive
- 3 1/2" pop up height
- Dual trajectory settings (25° or 15°) on FLEX34B and FLEX35B models
- Tru-jectory™ adjustment from 7°- 30° in 1° increments on FLEX35-6B models
- True full circle /adj part circle on FLEX35B and FLEX35-6B models
- Built-in check valve prevents low head drainage
- Back nozzle capability on part circle models standard
- Ideal for block systems
- Sprinkler Tools: See page 82



Part	Description	Pkg Qty	List (ea)
<b>FLEX34B Series Full Circle</b>			
FLX34B-42-3134	1" ACME Inlet, Check-o-matic	4	517.00
FLX34B-42-3538	1" ACME Inlet, Check-o-matic	4	517.00
FLX34B-02-3134	1" NPT Inlet, Check-o-matic	4	517.00
FLX34B-02-3538	1" NPT Inlet, Check-o-matic	4	517.00
<b>FLEX35B Series Full circle/Adjustable Part Circle</b>			
FLX35B-42-3134	1" ACME Inlet, Check-o-matic	4	627.00
FLX35B-42-3538	1" ACME Inlet, Check-o-matic	4	627.00
FLX35B-02-3134	1" NPT Inlet, Check-o-matic	4	627.00
FLX35B-02-3538	1" NPT Inlet, Check-o-matic	4	627.00
<b>FLEX35-6B Series Full/Adj Part Circle w/Tru-jectory Adjustment</b>			
FLX35-6B-42-3134	1" ACME Inlet, Check-o-matic	4	663.00
FLX35-6B-42-3538	1" ACME Inlet, Check-o-matic	4	663.00

## INF-FLX34 Performance Series Nozzle Chart

Nozzle Set (31 to 34)	Nozzle Set 31	Nozzle Set 32	Nozzle Set 33	Nozzle Set 34	Color	
					(Yellow) (Blue) (Brown) (Orange)	
Part #	102-0725	102-0726	102-0727	102-7002		
Stator #	102-6929 Blue					
Front						
Color	(Orange)	(Red)	(Red)	(Red)	(Red)	
Part #	102-2926	102-4335	102-4335	102-4335	102-4335	
Back Nozzle Positions						
Color	(White)	(Red)	(Yellow)	(Orange)	(Yellow)	
Part #	102-6940	102-4335	102-6937	102-2926	102-6937	
<b>Full Circle Dual Trajectory 34</b>						
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)
50	54	15.5	58	18.5		
65	55	18.0	60	21.1	65	25.4
80	59	19.9	67	23.6	71	28.5
100	61	22.2	70	26.5	76	32.0

Nozzle Set (35 to 37)	Nozzle Set 35	Nozzle Set 36	Nozzle Set 37	Color
				(Green) (Gray) (Black)
Part #	102-0729	102-0730	102-4261	
Stator #	102-1940 Red, Black (Circles)			
Front				
Color	(Red)	(Red)	(Brown)	(Red)
Part #	102-4335	102-4335	102-6883	102-4335
Back Nozzle Positions				
Color	(Yellow)	(Beige)	(White)	(Beige)
Part #	102-6937	102-2929	102-6940	102-6942
<b>Full Circle Dual Trajectory 34</b>				
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)
50				
65	75	37.4		
80	82	41.3	80	46.8
100	86	46.0	87	52.1



Scan QR for Legacy Nozzle Charts

- Not recommended at these pressures. Radius shown in feet.
- Recommended pressures for optimum nozzle performance.

Toro® recommends the use of a 1 1/4" swing joint at flows over 25-gpm (95-LPM). Sprinkler radius data collected in Toro's zero wind test facility per ASAE standard S398.1. Actual site conditions must be considered when selecting the appropriate nozzle. All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.

### INF-FLX35 Performance Series Nozzle Chart

Nozzle Set (30 to 33)	Nozzle Set 30	Nozzle Set 31	Nozzle Set 32	Nozzle Set 33	Nozzle Set (34 to 37)	Nozzle Set 34	Nozzle Set 35	Nozzle Set 36	Nozzle Set 37
Color	(White)	(Yellow)	(Blue)	(Brown)	Color	(Orange)	(Green)	(Gray)	(Black)
Part #	102-2208	102-0725	102-0726	102-0727	Part #	102-7002	102-0729	102-0730	102-4261
Stator #	102-6929 Blue	102-1939 White			Stator #	102-1939 White	118-7282 Red, Pink		
Front					Front				
Color	(Yellow)	(Beige)	(Green)	(Blue)	Color	(Yellow)	(Purple)	(White)	(Yellow)
Part #	102-5670	102-6942	102-6531	102-2925	Part #	102-5670	102-6699	102-6940	102-6946
Back Nozzle Positions					Back Nozzle Positions				
Color	(Red)	(Red)	(Red)	(Red)	Color	(Red)	(Red)	(Red)	(Red)
Part #	102-4335	102-4335	102-4335	102-4335	Part #	102-4335	102-4335	102-4335	102-4335
Part Circle Dual Trajectory 35					Part Circle Dual Trajectory 35				
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)
50	43	8.2	52	13.8	50				
65	45	10.0	55	15.9	65	70	25.6	75	34.2
80	46	11.5	57	17.6	80	71	28.5	78	38
100	47	13.4	58	19.6	100	72	31.7	83	42.3

### INF-FLX35-6 Performance Series Nozzle Chart

Nozzle Set (30 to 33)	Nozzle Set 30	Nozzle Set 31	Nozzle Set 32	Nozzle Set 33	Nozzle Set (34 to 37)	Nozzle Set 34	Nozzle Set 35	Nozzle Set 36	Nozzle Set 37
Color	(White)	(Yellow)	(Blue)	(Brown)	Color	(Orange)	(Green)	(Gray)	(Black)
Part #	102-2208	102-0725	102-0726	102-0727	Part #	102-7002	102-0729	102-0730	102-4261
Stator #	102-6929 Blue	102-1939 White			Stator #	102-1939 White	118-7282 Red, Pink		
Front					Front				
Color	(Blue)	(Gray)	(Black)	(Green)	Color	(Gray)	(Dark Red)	(White)	(Purple)
Part #	102-2925	102-2910	102-6941	102-6697	Part #	102-6941	102-6699	102-6940	102-6946
Back Nozzle Positions					Back Nozzle Positions				
Color	(Red)	(Red)	(Red)	(Red)	Color	(Red)	(Red)	(Red)	(Red)
Part #	102-4335	102-4335	102-4335	102-4335	Part #	102-4335	102-4335	102-4335	102-4335
Part Circle Dual Trajectory 35					Part Circle Dual Trajectory 35				
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)
50	42	7.6	53	13.9	50				
65	45	8.3	55	15.9	65	70	26.2	75	34.6
80	46	9.2	59	17.6	80	73	28.6	79	38.6
100	48	10.1	61	19.5	100	76	32.0	84	43.1

Not recommended at these pressures. Radius shown in feet.  
 Recommended pressures for optimum nozzle performance.

Toro® recommends the use of a 1¼" swing joint at flows over 25-gpm (95-LPM).  
 Sprinkler radius data collected in Toro's zero wind test facility per ASAE standard S398.1.  
 Actual site conditions must be considered when selecting the appropriate nozzle.  
 All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.

Scan QR for Legacy  
Nozzle Charts





# SPRINKLERS



## FLEX800 Hydraulic Sprinklers

Hydraulic sprinklers are available by ordering a body and a conversion, and combining them to make a complete sprinkler.

- Constant Velocity Drive
- 3-1/4" Pop-Up Height to clear tall grasses
- Removable Inlet Screen
- Sprinkler Tools: See page 82



<b>Riserless bodies (Pick 1)</b>		• See page 82 for Sprinkler Tools	
Part	Description	Pkg Qty	List (ea)
FLX30-01	1" Riserless body, NPT, N.O.	4	448.00
FLX30-41	1" Riserless body, Acme, N.O.	4	448.00
FLX50-01	1.5" Riserless body, NPT, N.O.	4	484.00
FLX50-41	1.5" Riserless body, Acme, N.O.	4	484.00

<b>Sprinkler Conversion Assemblies (Pick 1)</b>			
Part	Description	Pkg Qty	List (ea)
<b>FLEX Series Full circle</b>			
FLX34-3134	FLEX 34 #31-34 Nozzle (33 installed)	5	613.00
FLX34-3537	FLEX 34 #35-37 Nozzle (35 installed)	5	613.00
FLX54-5154	FLEX 34 #51-54 Nozzle (53 installed)	5	635.00
FLX54-5558	FLEX 54 #55-58 Nozzle (55 installed)	5	635.00
FLX54-59	FLEX 54 #59 Nozzle (59 installed)	5	635.00
<b>FLEX Series Full circle/Adjustable Part Circle</b>			
FLX35-3134	FLEX 35 #31-34 Nozzle (33 installed)	5	746.00
FLX35-3537	FLEX 35 #35-37 Nozzle (35 installed)	5	746.00
FLX55-5154	FLEX 35 #51-54 Nozzle (53 installed)	5	768.00
FLX55-5558	FLEX 55 #55-58 Nozzle (55 installed)	5	768.00
FLX55-59	FLEX 55 #59 Nozzle (59 installed)	5	768.00
102-0950	Adapter ring for 600/700 series 1.5" fairway sprinklers	1	30.78



# Irrigation Deals are Back!

## BUY 4 GET 1 FREE!

TORO Infinity & FLEX Series Sprinklers, Riserless Bodies or Conversion Assemblies



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# SPRINKLERS



## Common Replacement Parts

Part	Description	Pkg Qty	List (ea)
<b>O-ring</b>			
363-4102	O-ring, Riser, 1" heads	10	12.42
363-4103	O-ring, Riser, 1.5" heads	25	12.42
363-4167	O-ring, Nozzle Base, 1" & 1.5" heads	10	22.04
<b>Drive Assy</b>			
102-4502	Drive Assy - FC (full circle) - 600/700 series	12	262.76
102-4503	Drive Assy - FC - DT/800/Flex series	12	204.75
102-4504	Drive Assy - PC (part circle) - DT35/55,835/855,FLX35/55	12	266.20
<b>Pilot Valve</b>			
118-6167	Pilot Valve, w/o Solenoid, All Models	1	216.29
118-6168	Pilot Valve, w/Solenoid, Standard	1	435.21
118-6520	INFINITY Pilot Valve, w/o Solenoid, Standard	1	228.65
118-3747	Pilot Valve, w/Solenoid, Spikeguard	1	539.00
<b>Bottom Valve</b>			
89-1048	Bottom Valve, Electric 1" - 600/700 series	1	290.10
89-1046	Bottom Valve, Hydraulic 1" - 600/700 series	1	165.46
102-4003	Bottom Valve, Electric 1.5" - All Models	1	474.33
102-6310	Bottom Valve, Hydraulic 1.5" - All Models	1	384.08
102-0624	Bottom Valve, Electric 1" - DT/800/Flex	1	286.66
102-6313	Bottom Valve, Hydraulic 1" - DT/800/Flex	1	208.60
<b>Riser</b>			
102-0202	Riser, 1", DT/800/Flex	1	95.15
102-0203	Riser, 1.5", DT/800/Flex	1	96.66
89-7562	Riser, 1", 600/700 series	1	154.84
89-7563	Riser, 1.5", 600/700 series	1	232.03
<b>Snap Ring</b>			
89-1385	Snap Ring, Riser, 1", All Models	10	16.44
35-6119	Snap Ring, Riser, 1.5", All Models	10	37.60
89-4702	Snap Ring, Bottom Valve, 1", All Models	10	8.86
3-3304	Snap Ring, Bottom Valve, 1.5", All Models	10	14.58
<b>Solenoids</b>			
118-0248	Standard 24v solenoid (Red & Black wires)	1	186.68
102-3443	Low Wattage solenoid w/surge protection (Black wires)	1	198.69
102-2709	24v DC Latching solenoid (Red w/white stripe & Black wires)	1	215.30
118-7149SK	LSM/Solenoid assy for Infinity	1	999.26
89-5985	Rectified Solenoid (Black & Blue wires)	1	255.18



## Short Radius Configurations

Do you have a small tee or other confined area to water without overthrow? All 1" Toro sprinklers (Infinity, Flex 800 or B Series) can be configured with a main nozzle adaptor to as low as 26' radius.



Main Nozzle Adaptor  
P/N 118-1521

Requires low-flow stator #102-6929 for proper rotation speed.

## Short Radius Nozzle Performance Data

• See page 82 for Sprinkler Tools

Nozzles			65 psi		80 psi		Profile
Part #	Description	Color	Radius	gpm	Radius	gpm	
102-6937	Inner Nozzle w/ Yellow Restrictor	Yel/Yel	29	3.7	30	4.1	
102-6531	Inner Nozzle w/ White Restrictor	Grn/Wht	31	4.3	33	4.6	
102-6883	Intermediate Nozzle	Brown	38	2.8	38	2.8	
102-6884	Intermediate Nozzle	Yellow	41	4.1	43	4.5	
102-6885	Intermediate Nozzle	Green	42	5.4	45	6.0	
102-2925	Intermediate Nozzle	Blue	40	2.8	42	3.2	
102-2926	Intermediate Nozzle	Orange	44	4.3	45	4.8	
102-2927	Intermediate Nozzle	Gray	46	5.1	47	5.4	
102-2928	Intermediate Nozzle	Red	48	6.5	50	7.0	
102-2929	Intermediate Nozzle	Beige	51	8.1	53	9.1	



## Main Nozzle Adapter - Performance Charts (Intermediate Nozzle Performance Charts)

102-2929 Beige		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
psi	BAR	gpm	lpm	Feet	Meters										
50	3.4	8.1	30.7	53	17.4	52	17.1	50	16.4	48	15.7	45	14.8	42	13.8
60	4.1	8.9	33.7	57	18.7	56	18.4	53	17.4	51	16.7	47	15.4	45	14.8
65	4.5	9.3	35.2	58	19.0	56	18.4	54	17.7	51	16.7	49	16.1	46	15.1
70	4.8	9.6	36.3	59	19.4	57	18.7	56	18.4	53	17.4	50	16.4	48	15.7
80	5.5	10.3	39.0	61	20.0	60	19.7	58	19.0	56	18.4	53	17.4	50	16.4
90	6.2	10.9	41.3	63	20.7	61	20.0	59	19.4	57	18.7	54	17.7	51	16.7
100	6.9	11.5	43.5	65	21.3	63	20.7	60	19.7	58	19.0	55	18.0	51	16.7

102-2928 Red		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
psi	BAR	gpm	lpm	Feet	Meters										
50	3.4	6.3	23.8	53	17.4	51	16.7	48	15.7	46	15.1	43	14.1	40	13.1
60	4.1	7.0	26.5	55	18.0	53	17.4	50	16.4	48	15.7	45	14.8	42	13.8
65	4.5	7.2	27.3	56	18.4	54	17.7	52	17.1	49	16.1	47	15.4	44	14.4
70	4.8	7.5	28.4	57	18.7	55	18.0	53	17.4	51	16.7	49	16.1	46	15.1
80	5.5	8.0	30.3	59	19.4	58	19.0	56	18.4	54	17.7	52	17.1	49	16.1
90	6.2	8.5	32.2	60	19.7	58	19.0	57	18.7	55	18.0	53	17.4	50	16.4
100	6.9	9.0	34.1	61	20.0	59	19.4	57	18.7	55	18.0	53	17.4	50	16.4

102-2927 Gray		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
psi	BAR	gpm	lpm	Feet	Meters										
50	3.4	5.0	18.9	50	16.4	48	15.7	46	15.1	44	14.4	41	13.5	38	12.5
60	4.1	5.5	20.8	52	17.1	50	16.4	48	15.7	46	15.1	43	14.1	40	13.1
65	4.5	5.7	21.6	53	17.4	51	16.7	49	16.1	46	15.1	44	14.4	41	13.5
70	4.8	5.9	22.3	53	17.4	51	16.7	49	16.1	47	15.4	45	14.8	42	13.8
80	5.5	6.3	23.8	54	17.7	52	17.1	50	16.4	48	15.7	46	15.1	43	14.1
90	6.2	6.7	25.4	55	18.0	53	17.4	52	17.1	50	16.4	48	15.7	45	14.8
100	6.9	7.1	26.9	55	18.0	54	17.7	53	17.4	52	17.1	50	16.4	46	15.1

102-2926 Orange		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
psi	BAR	gpm	lpm	Feet	Meters										
50	3.4	4.3	16.3	48	15.7	46	15.1	44	14.4	42	13.8	39	12.8	35	11.5
60	4.1	4.7	17.8	50	16.4	48	15.7	46	15.1	44	14.4	41	13.5	38	12.5
65	4.5	4.9	18.5	51	16.7	49	16.1	47	15.4	45	14.8	42	13.8	39	12.8
70	4.8	5.1	19.3	51	16.7	50	16.4	48	15.7	46	15.1	43	14.1	40	13.1
80	5.5	5.4	20.4	52	17.1	51	16.7	50	16.4	48	15.7	45	14.8	42	13.8
90	6.2	5.8	22.0	53	17.4	52	17.1	51	16.7	49	16.1	47	15.4	44	14.4
100	6.9	6.1	23.1	54	17.7	53	17.4	52	17.1	50	16.4	48	15.7	45	14.8

102-2925 Blue		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
psi	BAR	gpm	lpm	Feet	Meters										
50	3.4	2.7	10.2	42	13.8	41	13.5	39	12.8	38	12.5	36	11.8	34	11.2
60	4.1	3.0	11.4	43	14.1	42	13.8	40	13.1	39	12.8	37	12.1	35	11.5
65	4.5	3.2	12.1	43	14.1	42	13.8	40	13.1	39	12.8	37	12.1	35	11.5
70	4.8	3.3	12.5	44	14.4	42	13.8	41	13.5	39	12.8	38	12.5	36	11.8
80	5.5	3.5	13.2	44	14.4	43	14.1	41	13.5	40	13.1	38	12.5	36	11.8
90	6.2	3.7	14.0	45	14.8	44	14.4	42	13.8	41	13.5	39	12.8	37	12.1
100	6.9	3.9	14.8	45	14.8	44	14.4	43	14.1	42	13.8	40	13.1	38	12.5

## Main Nozzle Adapter - Performance Charts *(Intermediate Nozzle Performance Charts)*

102-6885 Green		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
psi	BAR	gpm	lpm	Feet	Meters										
50	3.4	5.4	20.4	51	16.7	50	16.4	48	15.7	45	14.8	42	13.8	39	12.8
60	4.1	5.9	22.3	52	17.1	51	16.7	49	16.1	46	15.1	43	14.1	41	13.5
65	4.5	6.1	23.1	52	17.1	51	16.7	50	16.4	47	15.4	44	14.4	42	13.8
70	4.8	6.3	23.8	53	17.4	52	17.1	50	16.4	47	15.4	44	14.4	42	13.8
80	5.5	6.7	25.4	53	17.4	52	17.1	51	16.7	48	15.7	45	14.8	43	14.1
90	6.2	7.1	26.9	54	17.7	53	17.4	52	17.1	50	16.4	47	15.4	45	14.8
100	6.9	7.4	28.0	55	18.0	55	18.0	54	17.7	52	17.1	49	16.1	47	15.4

102-6884 Yellow		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
psi	BAR	gpm	lpm	Feet	Meters										
50	3.4	4.1	15.5	48	15.7	47	15.4	45	14.8	41	13.5	38	12.5	35	11.5
60	4.1	4.5	17.0	49	16.1	48	15.7	47	15.4	44	14.4	41	13.5	38	12.5
65	4.5	4.7	17.8	50	16.4	49	16.1	48	15.7	45	14.8	42	13.8	39	12.8
70	4.8	4.8	18.2	50	16.4	49	16.1	48	15.7	45	14.8	43	14.1	40	13.1
80	5.5	5.1	19.3	51	16.7	50	16.4	49	16.1	47	15.4	44	14.4	41	13.5
90	6.2	5.4	20.4	53	17.4	52	17.1	50	16.4	48	15.7	45	14.8	42	13.8
100	6.9	5.8	22.0	54	17.7	53	17.4	51	16.7	49	16.1	46	15.1	43	14.1

102-6883 Brown		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
psi	BAR	gpm	lpm	Feet	Meters										
50	3.4	2.4	9.1	41	13.5	40	13.1	38	12.5	36	11.8	33	10.8	30	9.8
60	4.1	2.6	9.8	43	14.1	42	13.8	40	13.1	38	12.5	36	11.8	33	10.8
65	4.5	2.7	10.2	44	14.4	42	13.8	41	13.5	39	12.8	37	12.1	34	11.2
70	4.8	2.8	10.6	45	14.8	43	14.1	42	13.8	40	13.1	38	12.5	35	11.5
80	5.5	3.0	11.4	46	15.1	45	14.8	43	14.1	41	13.5	40	13.1	36	11.8
90	6.2	3.2	12.1	46	15.1	45	14.8	44	14.4	42	13.8	41	13.5	37	12.1
100	6.9	3.4	12.9	46	15.1	45	14.8	44	14.4	43	14.1	41	13.5	38	12.5

### Inner Nozzle Performance Charts\*

102-6937 Yellow		Trajectory		30°		25°		20°	
Pressure		Flow		Radius		Radius		Radius	
psi	BAR	gpm	lpm	Feet	Meters	Feet	Meters	Feet	Meters
50	3.4	3.7	14.0	26	8.5	24	7.9	20	6.6
60	4.1	4.0	15.1	28	9.2	25	8.2	22	7.2
65	4.5	4.2	15.9	28	9.2	25	8.2	22	7.2
70	4.8	4.4	16.7	28	9.2	26	8.5	23	7.5
80	5.5	4.7	17.8	28	9.2	26	8.5	24	7.9
90	6.2	5.0	18.9	29	9.5	27	8.9	25	8.2
100	6.9	5.2	19.7	30	9.8	29	9.5	27	8.9

102-6531 Green		Trajectory		30°		25°		20°	
Pressure		Flow		Radius		Radius		Radius	
psi	BAR	gpm	lpm	Feet	Meters	Feet	Meters	Feet	Meters
50	3.4	4.0	15.1	32	10.5	30	9.8	26	8.5
60	4.1	4.3	16.3	34	11.2	31	10.2	27	8.9
65	4.5	4.5	17.0	34	11.2	31	10.2	27	8.9
70	4.8	4.7	17.8	34	11.2	31	10.2	28	9.2
80	5.5	5.0	18.9	34	11.2	32	10.5	29	9.5
90	6.2	5.3	20.1	34	11.2	32	10.5	29	9.5
100	6.9	5.6	21.2	35	11.5	33	10.8	30	9.8



Main Nozzle Adaptor  
P/N 118-1521

\* Not recommended below 20°



## FLEX800 R Series Conversion Upgrades

The Toro FLEX800 R Series Conversion Upgrades enable customers with existing Rain Bird Eagle 900 and 1100 Series sprinklers to upgrade to Toro's industry leading sprinkler technology. The benefits of upgrading include the patented Trujectory™ adjustment, full and part circle in the same sprinkler, the ability to ratchet the riser and clutch the nozzle base, and an extra 1½" pop-up height.

- Industry's Largest Nozzle Selection
- 20,000 Volt Lightning Rating
- Sprinkler Tools: see page 82
- Dual Trujectory
- True Full-Circle in One (40° - 330° part circle)



Adds 1½" of Pop-up Height  
20,000 Volt Lightning Rating

Far Left: Rain Bird® Eagle 900  
Left: Rain Bird® Eagle 900 upgraded with Toro R Series upgrade assembly and optional Spike Guard solenoid/adapter

### Specifying Information - FLEX800 R Series Conversion Assemblies

Part	Description	Pkg Qty	List (ea)
FLX55-6RB-5154	R Series Conversion with FLX55-6 riser assembly and low flow nozzle set #51-#54	5	732.00
FLX55-6RB-5558	R Series Conversion with FLX55-6 riser assembly and high flow nozzle set #55-#58	5	734.00
FLX55RB-5154	R Series Conversion with FLX55 riser assembly and low flow nozzle set #51-#54	5	533.00
FLX55RB-5558	R Series Conversion with FLX55 riser assembly and high flow nozzle set #55-#58	5	533.00
FLX54RB-5154	R Series Conversion with FLX54 riser assembly and low flow nozzle set #51-#54	5	533.00
FLX54RB-5558	R Series Conversion with FLX54 riser assembly and high flow nozzle set #55-#58	5	533.00
SPIKEGUARD-RB	Toro solenoid adapter with Spike Guard™ solenoid for Rain Bird® Eagle 700, 900 or 1100 Series sprinklers	1	163.00

Toro® has designed and manufactured this product to fit within a sprinkler housing made by Rain Bird® Corporation, but Toro's product is not manufactured by or affiliated with Rain Bird®. Rain Bird® is a registered trademark of Rain Bird Corporation.

## TORO Sports Rotors T7 Series

- Part circle/full circle in one unit
- 5.75" pop-up to clear taller grasses
- Vandal and abuse resistant with Smart Arc memory
- Standard check valve prevents drainage at low head
- Arc adjustment and indicator on top of head

### NOZZLE PERFORMANCE DATA-LOW FLOW MODELS

Nozzle	psi	Radius (ft)	gpm	Precip. Rate (in/hr) $\Delta$	Precip. Rate (in/hr) $\square$
2.0	40	39	1.7	0.25	0.22
	50	39	2.0	0.29	0.25
	60	40	2.2	0.30	0.26
	70	40	2.4	0.33	0.28
	80	40	2.6	0.35	0.31
	90	41	2.7	0.36	0.31
	100	41	2.9	0.38	0.33
3.0*	40	39	2.4	0.36	0.31
	50	40	2.8	0.39	0.33
	60	41	3.1	0.41	0.36
	70	41	3.4	0.45	0.39
	80	42	3.6	0.46	0.40
	90	42	3.9	0.47	0.41
	100	43	4.1	0.49	0.42
4.5	40	38	4.1	0.63	0.54
	50	41	4.7	0.62	0.53
	60	41	5.2	0.68	0.59
	70	42	5.7	0.71	0.62
	80	42	6.1	0.77	0.66
	90	43	6.5	0.78	0.68
	100	43	6.9	0.83	0.72
6.0	40	43	5.0	0.59	0.51
	50	46	5.7	0.59	0.51
	60	48	6.3	0.61	0.52
	70	49	7.0	0.65	0.57
	80	49	7.4	0.68	0.59
	90	50	7.9	0.70	0.61
	100	50	8.4	0.74	0.64
7.5	40	44	5.8	0.66	0.58
	50	46	6.7	0.70	0.60
	60	48	7.4	0.71	0.62
	70	49	8.0	0.75	0.65
	80	50	8.8	0.78	0.67
	90	50	9.5	0.84	0.73
	100	52	10.0	0.81	0.70
9.0	40	45	7.4	0.81	0.70
	50	49	8.5	0.78	0.68
	60	51	9.4	0.80	0.70
	70	53	10.4	0.83	0.72
	80	55	11.3	0.83	0.72
	90	55	12.0	0.89	0.77
	100	56	12.8	0.90	0.78

### NOZZLE PERFORMANCE DATA-HIGH FLOW MODELS

Nozzle	psi	Radius (ft)	gpm	Precip. Rate (in/hr) $\Delta$	Precip. Rate (in/hr) $\square$
7.0	40	46	6.6	0.72	0.62
	50	47	7.4	0.75	0.65
	60	48	8.1	0.78	0.68
	70	49	8.8	0.82	0.71
	80	51	9.4	0.83	0.72
	90	52	10.3	0.85	0.73
	100	54	10.7	0.83	0.72
9.0	40	47	7.4	0.76	0.66
	50	50	8.3	0.73	0.64
	60	51	8.7	0.76	0.66
	70	52	9.4	0.81	0.70
	80	54	9.9	0.80	0.69
	90	55	10.9	0.82	0.71
	100	56	11.5	0.84	0.73
12.0*	40	50	9.5	0.89	0.77
	50	51	11.6	0.90	0.78
	60	53	12.7	0.91	0.79
	70	54	13.8	0.96	0.83
	80	55	14.7	0.99	0.86
	90	56	15.6	1.02	0.88
	100	57	16.5	1.04	0.90
16.0	40	53	13.0	1.06	0.92
	50	56	15.1	1.06	0.92
	60	58	16.2	1.04	0.90
	70	59	17.5	1.09	0.95
	80	61	18.8	1.10	0.95
	90	62	20.0	1.14	0.98
	100	63	21.1	1.17	1.01
20.0	40	53	16.0	1.28	1.10
	50	58	17.5	1.22	1.05
	60	60	19.5	1.21	1.05
	70	61	20.6	1.26	1.09
	80	65	22.2	1.19	1.03
	90	66	23.6	1.23	1.06
	100	67	24.8	1.25	1.09
24.0	40	52	15.8	1.27	1.10
	50	60	17.5	1.09	0.95
	60	63	19.3	1.11	0.96
	70	65	20.7	1.14	0.99
	80	67	22.3	1.15	1.00
	90	68	23.8	1.20	1.04
	100	71	25.3	1.16	1.01
27.0	40	55	18.7	1.42	1.23
	50	65	23.4	1.16	1.00
	60	71	23.6	1.05	0.91
	70	72	25.8	1.10	0.95
	80	73	27.4	1.14	0.99
	90	74	29.1	1.18	1.02
	100	75	30.6	1.21	1.05

† When the sprinkler is adjusted to 360°, it will be uni-directional in that direction of rotation (clockwise or counterclockwise) at the moment when the sprinkler was changed to 360°  
 \* Pre-installed nozzle. Data based on 180°.



### Toro Sports Rotors T7 Series

Part	Description	Pkg Qty	List (ea)
T7P	1" Sport Rotor	10	176.09
T7PSS	1" Sport Rotor, Stainless Steel	10	234.69
T7P-42	1" Sport Rotor w/ACME	10	203.00
T7PSS-42	1" Sport Rotor, Stainless Steel w/ACME	10	265.00
T7P-02L	1" Sport Rotor, Low Flow	10	176.09
T7PSS-02L	1" Sport Rotor, Stainless Steel, Low Flow	10	234.69
T7P-42L	1" Sport Rotor, ACME, Low Flow	10	203.00
T7PSS-42L	1" Sport Rotor, Stainless Steel, ACME, Low Flow	10	265.00

Low Flow Models (38' to 56') Also Available.



# SPRINKLERS



## 590 GF Series Sprays

Toro's 590GF Series is the first spray head designed specifically for golf course irrigation with enhanced water management capabilities. The 590GF is built for the tough golf course environment, including harsh debris situations like top-dressing and sand, high water pressures, and daily mower and foot traffic.

- Uses full line of Toro nozzles including Precision Spray and Precision Rotating series
- Flushes during pop-up and retraction to eliminate sand damage and stick-ups
- X-Flow® shuts off sprinkler if nozzle damaged or removed
- Check valve prevents low head drainage
- Large flange keeps body stable
- More durable and can withstand higher pressures than 570 Series
- Ideal for bunkers, small tees and around clubhouse



### Flanged Cap

Flanged cap installs below grade to stabilize the body position and maintain optimum nozzle performance.



	Part	Description	Pkg Qty	List (ea)
	590GF-4	4" Golf sprayhead with COM & X-Flow	50	40.00
	590GF-6	6" Golf sprayhead with COM & X-Flow	50	84.00
	590GF-12	12" Golf sprayhead with COM & X-Flow	50	92.00



## Bunker Misting Systems

	PRN-TA	Precision Rotating Nozzle (14' - 26' Adjustable)	20	14.84
	PRN-TF	Precision Rotating Nozzle (14' - 26' Full Circle)	20	23.57
	TVAN-X	Adjustable 570 Nozzle (X = size 8, 10, 12, 15, 17) Full list on pg 98	25	6.56
	X-FOT	Toro Precision Nozzle - Full Circle Male thread (X = size 8, 10, 12...)	25	13.11
<i>All the above accepts all Toro MPR, T-VAN, Precision, &amp; Specialty Nozzles. See pgs 96-100 for complete list of nozzle options.</i>				
	P220GS-27-04	1" Plastic valve with pressure regulator and scrubber	1	794.00
	P220G-27-04	1" Plastic valve with pressure regulator	1	607.00
	75-3494	1" Compression Cap	5	44.00
	75-30844	1" Coupling with Stop	5	55.00
	75-33044	1" Compression Male Adapter	5	34.00
	75-351442	1" x 0.5" service Tee, Compression x Fipt	5	81.00
	75-351444	1" x 1", Service Tee, Compression x Fipt	5	81.00
	75-31844	1" compression 90° elbow	5	56.00
	75-32044	1" service 90° elbow	5	77.00
	HDPEDR11010	1" DR11 Pipe, 500' roll	1	CALL FOR PRICING
	T532-212	0.5" Swing Joint	10	70.53



## Subsurface Irrigation

Subsurface irrigation provides water directly to the root zone to ensure maximum utilization, minimizing waste from evaporation and surface runoff. These kits provide everything you need to set up a tee box, bunker system, lake perimeter or anywhere else a low volume subsurface system applies.

### Pressure Compensating Emitters

Every emitter is equipped with a pressure compensating device to ensure the optimum operating pressure and precision flow rates are distributed from each point throughout the zone regardless of distance or elevation change.

### DL2000™ Turbine with ROOTGUARD® Root Inhibitor

Each emitter is impregnated with a powerful root inhibitor that prevents roots from entering and clogging the emitter opening. This ensures even water distribution uniformity and maximum efficiency from each point of emission.

### Filtration and Pressure Regulation Provided

Each kit includes a Y filter with 150 mesh/100 micron element to prevent debris contamination and a 25 psi fixed regulator to eliminate damage from high pressure spikes.

### Flush Valve

Provides a momentary high velocity in the tubing to move debris out of the piping system to eliminate emitter clogging every time the zone is activated.

	Toro Subsurface Irrigation		
	Part	Description	List
	SSDS-LF-500	DL2000 500' Drip System (Bunker)—Low Flow	2,442.00
	SSDS-HF-1000	DL2000 1000' Drip System (Bunker)—High Flow	3,892.00
	RGP-212-05	DL2000 500' (Roll, 0.5 GPH), 12" Spacing	849.96

	Toro Golf Zone Kits		
	Part	Description	List
	GZK-25-LF-DCL	P220G valve with DC latching solenoid, 25 psi reg, low flow .1-8 gpm, 150 mesh SS filter	687.00
	GZK-25-LF-SG	P220G valve with SPIKE GUARD™ solenoid, 25 psi reg, low flow .1-8 gpm, 150 mesh SS filter	691.00
	GZK-25-MF-DCL	P220G valve with DC latching solenoid, 25 psi reg, medium flow 2-20 gpm, 150 mesh SS filter	691.00
	GZK-25-MF-SG	P220G valve with SPIKE GUARD solenoid, 25 psi reg, medium flow 2-20 gpm, 150 mesh SS filter	691.00
	GZK-40-MF-DCL	P220G valve with DC latching solenoid, 40 psi reg, medium flow 2-20 gpm, 150 mesh SS filter	691.00
	GZK-40-MF-SG	P220G valve with SPIKE GUARD solenoid, 40 psi reg, medium flow 2-20 gpm, 150 mesh SS filter	691.00



## Bunker System Components

- DL2000™ subsurface dripline
- Drip Zone Valve Kit – includes control valve, pressure regulator, Y-filter and manual ball valve
- Air Vent Assembly – pre-assembled and ready to install (bunker only)
- Required inlet/outlet fittings
- Flush Assembly Fittings (8 gpm) 2 psi sealing flush valve (bunker only)
- Installation Fittings:
  - Includes Loc-Eze tees, couplings, elbows and end clamps
  - 10' of Blue Stripe® polyethylene tubing
  - Soil staples for secure tubing placement
- Pipe thread tap

## Drip System Specifications - Bunkers Only

- Flow range:
  - Low flow: 0.1 to 8.0 gpm
  - High flow: 2.0 to 20.0 gpm
- DL2000™ range:
  - Low flow: 12' to 1000'
  - High flow: 250' to 2500'
- Pressure compensating emitter: 0.5 gph
- Emitter spacing – 12"
- DL2000™ maximum run length: 250'
- Application rate (12" x 12" spacing): 0.85" per hour

	Part	Description	Pkg Qty	List (ea)
	YD-500-34	Air Vent - 0.5" MIPT Air Release & Vacuum Relief Valve	10	39.80
	FCH-H-FHT	Flush Valve - 0.75" FHT (Hose Thread), 0.8 gpm, 2 psi Sealing Pressure	10	9.20
	FJQ16	5/8" Figure-eight End Clamp	10	0.72
	SS6	0.75" Steel Soil Staple to Hold Tubing in Place	50	0.36
	REG100252-20	Pressure regulator, 1" 25 psi, 2-20 gpm	1	85.00
	ALFS75	Filter, 0.75", 150 mesh stainless screen	1	35.30
	ALFS100	Filter, 1", 150 mesh stainless screen	1	44.20
	AMP0004-2F	Filter Replacement, 150 mesh stainless screen	1	24.80

# PIPE, FITTINGS & VALVES



## PVC Pipe

CLASS 160 SDR26	Part	Description	Skid Qty	Price
	PB160015	1 1/2" x 20' SBE	4500	CALL FOR PRICING
	PB160020	2" x 20' SBE	2800	CALL FOR PRICING
	PB160025	2 1/2" x 20' SBE	1560	CALL FOR PRICING
	PB160030	3" x 20' SBE	1560	CALL FOR PRICING
	PB160040	4" x 20' SBE	1200	CALL FOR PRICING
	PG160025	2 1/5" x 20' Gasket	1560	CALL FOR PRICING
	PG160030	3" x 20' Gasket	1560	CALL FOR PRICING
	PG160040	4" x 20' Gasket	1200	CALL FOR PRICING
	PG160060	6" x 20' Gasket	520	CALL FOR PRICING
	PG160080	8" x 20' Gasket	280	CALL FOR PRICING
	PG160100	10" x 20' Gasket	280	CALL FOR PRICING
	PB200007	3/4" x 20' SBE	4400	CALL FOR PRICING
	PB200010	1" x 20' SBE	3600	CALL FOR PRICING
	PB200012	1 1/4" x 20' SBE	3300	CALL FOR PRICING
	PB200015	1 1/2" x 20' SBE	4500	CALL FOR PRICING
	PB200020	2" x 20' SBE	2800	CALL FOR PRICING
	PB200025	2 1/2" x 20' SBE	1560	CALL FOR PRICING
	PB200030	3" x 20' SBE	1560	CALL FOR PRICING
	PG200025	2 1/2" x 20' Gasket	1560	CALL FOR PRICING
	PG200030	3" x 20' Gasket	1560	CALL FOR PRICING
	PG200040	4" x 20' Gasket	1200	CALL FOR PRICING
	PG200060	6" x 20' Gasket	520	CALL FOR PRICING
	PG200080	8" x 20' Gasket	280	CALL FOR PRICING
	PG200100	10" x 20' Gasket	280	CALL FOR PRICING
SLEEVING	PBDS30	3" x 10' CSA MPVC Sleeving	1120	4.60 ft
	PBDS40	4" x 10' CSA MPVC Sleeving	630	5.27 ft

### Please Note:

Due to rising resin and energy costs, pricing on PVC pipe could change throughout the season. Please call to confirm pricing.



## Schedule 40 Fittings

	Part	Description	Pkg	List		Part	Description	Pkg	List		
<b>TEE (slip x slip x slip)</b>  	401-005	1/2"	50	1.28	<b>TEE (slip x slip x slip)</b>  	401-290	2 1/2" x 2 1/2" x 1 1/4"	10	25.27		
	401-007	3/4"	50	1.48		401-291	2 1/2" x 2 1/2" x 1 1/2"	10	25.27		
	401-010	1"	50	2.80		401-292	2 1/2" x 2 1/2" x 2"	10	25.27		
	401-012	1 1/4"	25	4.32		401-333	3" x 3" x 1/2"	10	36.22		
	401-015	1 1/2"	25	5.26		401-334	3" x 3" x 3/4"	10	36.22		
	401-020	2"	25	7.70		401-335	3" x 3" x 1"	10	36.22		
	401-025	2 1/2"	10	25.34		401-336	3" x 3" x 1 3/4"	10	36.22		
	401-030	3"	10	33.29		401-337	3" x 3" x 1 1/2"	10	36.22		
	401-040	4"	5	60.22		401-338	3" x 3" x 2"	10	36.15		
	401-050	5"	4	145.44		401-420	4" x 4" x 2"	10	60.22		
	401-060	6"	4	202.74		401-422	4" x 4" x 3"	5	60.22		
	401-080	8"	2	470.15		401-528	6" x 6" x 2"	5	202.74		
	<b>REDUCING TEE (slip x slip x slip)</b>  	401-101	3/4" x 3/4" x 1/2"	50		1.73	<b>ENLARGING TEE (slip x slip x slip)</b>  	401-530	6" x 6" x 3"	5	202.74
		401-122	1" x 1/2" x 1"	50		4.93		401-532	6" x 6" x 4"	5	202.74
401-125		1" x 3/4" x 3/4"	50	4.93	401-582	8" x 8" x 4"		2	470.15		
401-126		1" x 3/4" x 1"	50	4.93	401-585	8" x 8" x 6"		2	470.15		
401-130		1" x 1" x 1/2"	50	2.94	401-102	3/4" x 3/4" x 1"		50	4.93		
401-131		1" x 1" x 3/4"	50	3.19	401-132	1" x 1" x 1 1/4"		50	6.59		
401-157		1 1/4" x 1" x 3/4"	25	6.73	401-133	1" x 1" x 1 1/2"		25	8.51		
401-166		1 1/4" x 1 1/4" x 1/2"	25	4.76	401-213	1 1/2" x 1 1/2" x 2"		25	11.94		
401-167		1 1/4" x 1 1/4" x 3/4"	25	4.76	401-341	3" x 3" x 4"		10	62.14		
401-168		1 1/4" x 1 1/4" x 1"	25	4.76	<b>TEE (slip x slip x FIPT)</b>  	402-005		1/2"	50	1.73	
401-209		1 1/2" x 1 1/2" x 1/2"	25	8.36		402-007	3/4"	50	2.68		
401-210		1 1/2" x 1 1/2" x 3/4"	25	8.36		402-010	1"	50	4.93		
401-211		1 1/2" x 1 1/2" x 1"	25	8.36		402-012	1 1/4"	25	7.84		
401-239		2" x 1 1/2" x 1"	10	11.94		402-015	1 1/2"	25	10.22		
401-241		2" x 1 1/2" x 1 1/2"	10	11.94		402-020	2"	10	12.94		
401-247		2" x 2" x 1/2"	10	8.22		402-030	3"	10	50.11		
401-248		2" x 2" x 3/4"	10	8.22		402-040	4"	4	76.59		
401-249		2" x 2" x 1"	10	8.22		<b>FIPT MIPT slip sp</b> Female Iron Pipe Thread Male Iron Pipe Thread Solvent Cement Socket Spigot  <b>T.B.E.</b> Threaded Both Ends <b>T.O.E.</b> Thread One End <b>insert</b> Barbed	<b>VISIT LASCO FITTINGS FOR MORE INFORMATION</b>  				
401-250		2" x 2" x 1 1/4"	10	8.22							
401-251		2" x 2" x 1 1/2"	10	8.22							
401-287	2 1/2" x 2 1/2" x 1/2"	10	25.27								
401-288	2 1/2" x 2 1/2" x 3/4"	10	25.27								
401-289	2 1/2" x 2 1/2" x 1"	10	25.27								



# PIPES, FITTINGS & VALVES

**Westlake**  
Pipe & Fittings

## Schedule 40 Fittings

	Part	Description	Pkg	List		Part	Description	Pkg	List	
REDUCING TEE (slip x slip x FIPT)	402-074	1/2" x 1/2" x 3/4"	50	3.72	90° ELL (slip x slip)	406-005	1/2"	50	1.04	
	402-095	3/4" x 1/2" x 3/4"	50	2.58		406-007	3/4"	50	1.19	
	402-101	3/4" x 3/4" x 1/2"	50	2.27		406-010	1"	50	2.09	
	402-124	1" x 3/4" x 1/2"	50	4.93		406-012	1 1/4"	25	3.72	
	402-125	1" x 3/4" x 3/4"	50	4.93		406-015	1 1/2"	25	3.97	
	402-130	1" x 1" x 1/2"	50	3.45		406-020	2"	25	6.22	
	402-131	1" x 1" x 3/4"	50	4.93		406-025	2 1/2"	10	18.96	
	402-166	1 1/4" x 1 1/4" x 1/2"	25	8.22		406-030	3"	10	22.70	
	402-167	1 1/4" x 1 1/4" x 3/4"	25	8.22		406-040	4"	5	40.56	
	402-168	1 1/4" x 1 1/4" x 1"	25	8.22		406-060	6"	4	129.01	
	402-209	1 1/2" x 1 1/2" x 1/2"	25	10.22		406-080	8"	3	332.23	
	402-210	1 1/2" x 1 1/2" x 3/4"	25	10.22		406-101	3/4" x 1/2"	50	2.09	
	402-211	1 1/2" x 1 1/2" x 1"	25	10.22	406-130	1" x 1/2"	50	3.10		
	402-212	1 1/2" x 1 1/2" x 1 1/4"	25	10.22	406-131	1" x 3/4"	50	3.74		
	402-239	2" x 1 1/2" x 1"	10	12.83	406-168	1 1/4" x 1"	25	5.91		
	402-247	2" x 2" x 1/2"	10	12.83	406-211	1 1/2" x 1"	25	9.41		
	402-248	2" x 2" x 3/4"	10	12.83	406-212	1 1/2" x 1 1/4"	25	9.41		
	402-249	2" x 2" x 1"	10	12.83	406-249	2" x 1"	25	11.57		
	402-250	2" x 2" x 1 1/4"	10	12.83	406-250	2" x 1 1/4"	25	11.57		
	402-251	2" x 2" x 1 1/2"	10	12.83	406-251	2" x 1 1/2"	25	15.99		
	402-287	2 1/2" x 2 1/2" x 1/2"	10	27.76	90° ELL (FIPT x slip)	407-005	1/2"	50	1.28	
	402-288	2 1/2" x 2 1/2" x 3/4"	10	27.76		407-007	3/4"	50	1.48	
	402-289	2 1/2" x 2 1/2" x 1"	10	27.76		407-010	1"	50	2.80	
	402-290	2 1/2" x 2 1/2" x 1 1/4"	10	27.76		407-012	1 1/4"	25	4.67	
	402-291	2 1/2" x 2 1/2" x 1 1/2"	10	27.76		407-015	1 1/2"	25	5.19	
	402-292	2 1/2" x 2 1/2" x 2"	10	27.76		407-020	2"	10	13.31	
	402-333	3" x 3" x 1/2"	10	39.70		407-025	2 1/2"	10	32.96	
	402-334	3" x 3" x 3/4"	10	39.70		407-030	3"	10	49.36	
	402-335	3" x 3" x 1"	10	39.70		407-040	4"	5	74.83	
	402-336	3" x 3" x 1 1/4"	10	39.70		90° ELL Reducing (slip x FIPT)	407-074	1/2" x 3/4"	50	2.80
	402-337	3" x 3" x 1 1/2"	10	39.70			407-101	3/4" x 1/2"	50	1.54
	402-338	3" x 3" x 2"	10	39.70			407-130	1" x 1/2"	50	4.26
	402-417	4" x 4" x 1"	5	66.31	407-131		1" x 3/4"	50	4.26	
402-419	4" x 4" x 1 1/2"	5	66.31	407-168	1 1/4" x 1"		25	6.22		
402-420	4" x 4" x 2"	5	66.31	407-211	1 1/2" x 1"		25	10.37		
402-422	4" x 4" x 3"	5	66.31	407-212	1 1/2" x 1 1/4"		25	10.76		
TEE (FIPT x FIPT x FIPT)	405-005	1/2"	50	4.75	407-249		2" x 1"	25	17.86	
	405-007	3/4"	50	7.44	407-250		2" x 1 1/4"	10	17.86	
	405-010	1"	50	10.31	407-251		2" x 1 1/2"	10	17.86	
	405-012	1 1/4"	25	14.25						
	405-015	1 1/2"	25	14.73						
	405-020	2"	25	46.00						

## Schedule 40 Fittings

	Part	Description	Pkg Qty	List (ea)		Part	Description	Pkg Qty	List (ea)
90° ELL (FIPT x FIPT) 	408-005	1/2"	50	2.52	CROSS (slip) 	420-005	1/2"	50	3.97
	408-007	3/4"	50	3.74		420-007	3/4"	50	6.60
	408-010	1"	50	7.94		420-010	1"	50	8.22
	408-012	1 1/4"	25	8.50		420-012	1 1/4"	25	10.85
	408-015	1 1/2"	25	10.76		420-015	1 1/2"	25	12.31
	408-020	2"	10	16.30		420-020	2"	10	18.15
							420-025	2 1/2"	8
STREET ELL (sp x slip) 	409-005	1/2"	50	2.94	COUPLING (slip) 	420-030	3"	10	47.22
	409-007	3/4"	50	3.60		420-040	4"	5	69.99
	409-010	1"	50	6.22		429-005	1/2"	100	0.67
	409-012	1 1/4"	25	7.44		429-007	3/4"	50	0.94
	409-015	1 1/2"	25	8.22		429-010	1"	50	1.65
	409-020	2"	10	15.85		429-012	1 1/4"	25	2.27
STREET ELL (MIPT x FIPT) 	412-005	1/2"	50	3.06		429-015	1 1/2"	25	2.44
	412-007	3/4"	50	3.74		429-020	2"	25	3.74
	412-010	1"	50	6.37		429-025	2 1/2"	10	8.22
	412-012	1 1/4"	25	7.94		429-030	3"	10	12.85
	412-015	1 1/2"	25	8.61		429-040	4"	10	18.62
						429-050	5"	4	34.08
ELL 22 1/2° (slip) 	416-020	2"	25	10.43		429-060	6"	5	58.89
	416-025	2 1/2"	10	27.13		429-080	8"	4	109.93
	416-030	3"	10	42.05	430-005	1/2"	100	1.29	
	416-040	4"	5	75.56	430-007	3/4"	52	2.44	
	416-060	6"	5	186.51	430-010	1"	52	3.19	
ELL 45° (slip) 	417-005	1/2"	50	1.73	430-005-45	1/2", Gray	100	1.48	
	417-007	3/4"	50	2.68	430-007-45	3/4", Gray	50	2.72	
	417-010	1"	50	3.19	435-005	1/2"	100	1.19	
	417-012	1 1/4"	25	4.47	435-007	3/4"	50	1.48	
	417-015	1 1/2"	25	5.58	435-010	1"	50	1.73	
	417-020	2"	25	7.31	435-012	1 1/4"	25	2.68	
	417-025	2 1/2"	10	18.99	435-015	1 1/2"	25	3.06	
	417-030	3"	10	29.48	435-020	2"	25	4.09	
	417-040	4"	5	52.86	435-025	2 1/2"	10	10.37	
	417-050	5"	5	104.83	435-030	3"	10	13.91	
	417-060	6"	4	130.57	435-040	4"	5	23.04	
	417-080	8"	4	314.05	435-050	5"	5	59.66	
					435-060	6"	4	84.81	
					435-080	8"	4	159.89	



# PIPES, FITTINGS & VALVES

**Westlake**  
Pipe & Fittings

## Schedule 40 Fittings

	Part	Description	Pkg	List		Part	Description	Pkg	List
<b>MALE ADAPTER</b> (MIPT x slip)  	436-005	1/2"	100	0.94	<b>REDUCER BUSHING</b> (sp x slip) con't  	437-290	2 1/2" x 1 1/4"	10	7.46
	436-007	3/4"	50	1.04		437-291	2 1/2" x 1 1/2"	10	7.46
	436-010	1"	50	1.86		437-292	2 1/2" x 2"	10	7.46
	436-012	1 1/4"	25	2.27		437-335	3" x 1"	10	11.03
	436-015	1 1/2"	25	3.06		437-336	3" x 1 1/4"	10	11.03
	436-020	2"	25	3.99		437-337	3" x 1 1/2"	10	11.03
	436-025	2 1/2"	10	11.82		437-338	3" x 2"	10	11.03
	436-030	3"	10	17.24		437-339	3" x 2 1/2"	10	11.03
	436-040	4"	5	22.01		437-420	4" x 2"	10	24.62
	436-050	5"	5	36.27		437-421	4" x 2 1/2"	5	24.62
	436-060	6"	4	57.38		437-422	4" x 3"	5	24.62
	436-074	1/2" x 3/4"	50	1.86		437-488	5" x 3"	5	34.63
	436-080	8"	4	260.76		437-528	6" x 2"	5	60.93
	436-101	3/4" x 1/2"	50	1.73		437-530	6" x 3"	5	60.93
	436-102	3/4" x 1"	50	2.68		437-532	6" x 4"	5	60.93
	436-131	1" x 3/4"	50	5.73		437-534	6" x 5"	5	60.93
	436-132	1" x 1 1/4"	25	6.22		438-101	3/4" x 1/2"	100	1.73
	436-168	1 1/4" x 1"	25	7.02		438-130	1" x 1/2"	100	2.80
	436-169	1 1/4" x 1 1/2"	25	7.02		438-131	1" x 3/4"	100	2.80
	436-212	1 1/2" x 1 1/4"	25	8.49		438-167	1 1/4" x 3/4"	25	4.26
436-213	1 1/2" x 2"	10	8.49	438-168	1 1/4" x 1"	25	4.50		
436-251	2" x 1 1/2"	10	9.67	438-209	1 1/2" x 1/2"	25	4.93		
436-252	2" x 2 1/2"	10	15.06	438-210	1 1/2" x 3/4"	25	4.93		
436-293	2 1/2" x 3"	10	18.21	438-211	1 1/2" x 1"	25	4.93		
436-341	3" x 4"	10	29.16	438-212	1 1/2" x 1 1/4"	25	4.93		
<b>REDUCER BUSHING</b> (sp x slip)  	437-101	3/4" x 1/2"	100	1.09	<b>REDUCER BUSHING</b> (Sp. x FIPT)  	438-247	2" x 1/2"	10	6.60
	437-130	1" x 1/2"	100	1.98		438-248	2" x 3/4"	10	6.60
	437-131	1" x 3/4"	100	1.98		438-249	2" x 1"	10	6.60
	437-166	1 1/4" x 1/2"	25	2.68		438-250	2" x 1 1/4"	10	6.60
	437-167	1 1/4" x 3/4"	25	2.68		438-251	2" x 1 1/2"	10	6.60
	437-168	1 1/4" x 1"	25	2.68		438-289	2 1/2" x 1"	10	9.58
	437-209	1 1/2" x 1/2"	25	2.82		438-290	2 1/2" x 1 1/4"	10	9.58
	437-210	1 1/2" x 3/4"	25	2.82		438-291	2 1/2" x 1 1/2"	10	9.58
	437-211	1 1/2" x 1"	25	2.82		438-292	2 1/2" x 2"	10	9.58
	437-212	1 1/2" x 1 1/4"	25	2.82		438-335	3" x 1"	10	11.03
	437-247	2" x 1/2"	10	4.67		438-336	3" x 1 1/4"	10	11.03
	437-248	2" x 3/4"	10	4.67		438-337	3" x 1 1/2"	10	11.03
	437-249	2" x 1"	10	4.67		438-338	3" x 2"	10	11.03
	437-250	2" x 1 1/4"	10	4.67		438-339	3" x 2 1/2"	10	11.03
	437-251	2" x 1 1/2"	10	4.67		438-420	4" x 2"	5	24.57
	437-287	2 1/2" x 1/2"	10	10.00		438-421	4" x 2 1/2"	5	24.57
	437-288	2 1/2" x 3/4"	10	10.00		438-422	4" x 3"	5	24.57
	437-289	2 1/2" x 1"	10	7.46		438-490	5" x 4"	4	47.94
						438-532	6" x 4"	5	89.97

## Schedule 40 Fittings

	Part	Description	Pkg Qty	List (ea)		Part	Description	Pkg Qty	List (ea)	
<b>REDUCER BUSHING (MIPT x FIPT)</b>  	439-101	3/4" x 1/2"	50	3.06	<b>PLUG (SP)</b>  	449-005	1/2"	100	2.27	
	439-130	1" x 1/2"	50	4.26		449-007	3/4"	100	2.68	
	439-131	1" x 3/4"	50	4.26		449-010	1"	50	3.19	
	439-166	1 1/4" x 1/2"	25	6.35		449-012	1 1/4"	25	4.26	
	439-167	1 1/4" x 3/4"	25	6.35		449-015	1 1/2"	25	5.46	
	439-168	1 1/4" x 1"	25	6.35		449-020	2"	25	6.74	
	439-209	1 1/2" x 1/2"	25	7.70		449-025	2 1/2"	10	11.50	
	439-210	1 1/2" x 3/4"	25	7.70		449-030	3"	10	15.21	
	439-211	1 1/2" x 1"	25	7.70		449-040	4"	5	34.46	
	439-212	1 1/2" x 1 1/4"	25	7.70		<b>PLUG (MIPT)</b>  	450-005	1/2"	100	2.82
	439-249	2" x 1"	10	8.22			450-007	3/4"	100	3.01
	439-250	2" x 1 1/4"	10	8.22			450-010	1"	50	4.93
	439-251	2" x 1 1/2"	10	8.22			450-012	1 1/4"	25	5.20
	439-292	2 1/2" x 2"	10	28.75			450-015	1 1/2"	25	5.54
	439-338	3" x 2"	5	33.99			450-020	2"	25	7.16
	<b>CAP (slip)</b>  	447-005	1/2"	100			0.94	450-025	2 1/2"	10
447-007		3/4"	100	1.09	450-030		3"	10	15.10	
447-010		1"	50	1.73	450-040	4"	5	34.07		
447-012		1 1/4"	25	2.44						
447-015		1 1/2"	25	2.68						
447-020		2"	25	3.19						
447-025		2 1/2"	10	10.22						
447-030		3"	10	11.12						
447-040		4"	5	25.34						
447-050		5"	5	42.58						
<b>CAP (FIPT)</b>  	448-005	1/2"	100	1.98						
	448-007	3/4"	100	2.27						
	448-010	1"	50	3.45						
	448-012	1 1/4"	25	4.09						
	448-015	1 1/2"	25	4.26						
	448-020	2"	25	7.56						
	448-025	2 1/2"	10	11.12						
	448-030	3"	10	14.56						
	448-040	4"	5	25.59						



# PIPES, FITTINGS & VALVES

**Westlake**  
Pipe & Fittings

## Surge Guard & Schedule 80 Fittings

SURGE GUARD (slip x slip x slip)	Part	Description (Inches)	Pkg Qty	List (ea)	FLANGE (solid ring - slip)	Part	Description (Inches)	Pkg Qty	List (ea)
  	301-020	2 Surge Guard Tee	25	33.76		851-015	1 1/2	10	35.46
	306-020	2 Surge Guard 90° Elbow	25	20.30		851-020	2	10	47.17
	317-020	2 Surge Guard 45° Elbow	25	22.62		851-025	2 1/2	5	170.45
	301-025	2 1/2 Surge Guard Tee	10	70.73		851-030L	3	5	80.42
	306-025	2 1/2 Surge Guard 90° Elbow	10	57.16		851-040L	4	5	101.85
	317-025	2 1/2 Surge Guard 45° Elbow	10	35.69		851-060	6	5	160.14
	365-025	2 1/2 Surge Guard 22 1/2° Elbow	10	42.87		852-015	1 1/2	10	65.39
	   	302-251	2 x 2 x 1 1/2 Service Tee	10		34.47		852-020	2
302-291		2 1/2 x 2 1/2 x 1 1/2 Service Tee	5	49.57	852-030	3		5	158.24
302-337		3 x 3 x 1 1/2 Service Tee	5	102.51	852-040	4		5	297.33
307-251		2 x 1 1/2 Service Elbow	10	27.55	854-020	2		10	47.12
307-291		2 1/2 x 1 1/2 Service Elbow	5	37.38		854-030	3	5	80.40
307-337		3 x 1 1/2 Service Elbow	5	76.22		854-040	4	5	101.68
598-251		2 x 1 1/2 Service Bushing	10	23.00		854-050	5	5	159.98
		344-251	2 x 2 x 1 1/2	5		138.56		854-060	6
	344-291	2 1/2 x 2 1/2 x 1 1/2	5	185.12	854-080	8		5	260.53
	344-337	3 x 3 x 1 1/2	5	248.60	GKT-020	2		1	21.00
	344-419	4 x 4 x 1 1/2	5	322.22	GKT-025	2 1/2		1	25.00
		364-251	2 x 1 1/2	5	97.45			GKT-030	3
364-337		3 x 1 1/2	5	133.00	GKT-040		4	1	51.00
364-419		4 x 1 1/2	5	161.00	GKT-060		6	1	77.00
	801-015	1 1/2	5	52.46		GKT-080	8	1	117.00
	801-030	3	5	89.16		898-005	1/2	10	22.92
	801-040	4	5	103.32		898-007	3/4	10	32.11
	801-060	6	4	352.72		898-010	1	10	42.67
	801-080	8	2	818.07		898-012	1 1/4	5	81.43
							898-015	1 1/2	5

## Schedule 80 Fittings

COUPLINGS	Part	Description	Pkg Qty List (ea)		REDUCERS (SP x slip)	Part	Description	Pkg Qty List (ea)			
	829-010	1"	25	13.01		837-249	2 x 1	10	26.25		
	829-015	1 1/2"	10	21.37		837-292	2 1/2 x 2	10	45.64		
	829-020	2"	10	22.94		837-338	3 x 2	5	72.39		
	829-025	2 1/2"	5	56.46		837-339	3 x 2 1/2	5	72.39		
	829-030	3"	5	64.83		837-422	4 x 3	5	100.22		
	829-040	4"	5	81.17		837-530	6 x 3	5	139.34		
	829-060	6"	5	174.67		837-532	6 x 4	5	139.34		
	829-080	8"	4	237.74							
MALE ADAPTERS 	836-010	1"	25	20.86	REDUCERS (SP x FIPT) 	838-249	2 x 1	10	26.84		
	836-015	1 1/2"	10	35.03		838-251	2 x 1 1/2	10	26.84		
	836-020	2"	10	50.68		838-292	2 1/2 x 2	10	56.82		
	836-025	2 1/2"	5	57.59		838-338	3 x 2	5	105.23		
	836-030	3"	5	63.91		838-339	3 x 2 1/2	5	105.23		
	836-040	4"	5	113.73		838-420	4 x 2	5	161.66		
					838-422	4 x 3	5	161.66			
NIPPLES 	884-020	1" x 2"	50	2.87	REDUCERS (MIPT x FIPT) 	839-249	2 x 1	10	33.36		
	884-030	1" x 3"	50	3.32		839-251	2 x 1 1/2	10	33.36		
	884-040	1" x 4"	50	3.91		839-338	3 x 2	5	61.38		
	884-060	1" x 6"	50	5.38		839-339	3 x 2 1/2	5	61.38		
	884-080	1" x 8"	50	6.32							
	886-020	1 1/2" x 2"	25	4.63		REDUCING TEES (slip x slip x slip) 	801-291	2 1/2" x 2 1/2" x 2"	5	57.90	
	886-030	1 1/2" x 3"	25	5.38			801-292	2 1/2" x 2 1/2" x 2"	5	57.90	
	886-040	1 1/2" x 4"	25	6.17			801-337	3" x 3" x 1 1/2"	5	81.37	
	886-060	1 1/2" x 6"	25	8.05			801-338	3" x 3" x 2"	5	81.37	
	886-080	1 1/2" x 8"	25	9.67			801-420	4" x 4" x 2"	5	131.49	
	887-025	2" x 2 1/2"	10	6.32			801-422	4" x 4" x 3"	5	131.49	
	887-030	2" x 3"	10	6.72			801-530	6" x 6" x 3"	5	262.71	
	887-040	2" x 4"	10	7.79		801-532	6" x 6" x 4"	5	352.72		
	887-060	2" x 6"	10	10.25							
	887-080	2" x 8"	10	12.52							
	CAPS (slip) 	847-020	2"	10		40.81					
		847-030	3"	5		97.50					
847-040		4"	5	164.43							
847-060		6"	2	409.03							
ELBOWS (slip x slip) 	865-020	2" - 22 1/2°	10	51.13							
	816-025	2 1/2" - 22 1/2°	5	208.00							
	817-025	2 1/2" - 45°	5	91.32							
	865-030	3" - 22 1/2°	5	131.04							
	817-030	3" - 45°	5	111.17							
	806-030	3" - 90°	5	48.46							



# PIPES, FITTINGS & VALVES

**Westlake**  
Pipe & Fittings

## Swing Joints

	Part	Inlet (Inches)	Riser (Inches)	Outlet (Inches)	Pkg Qty	List (ea)
<b>SWING JOINTS</b>    	G1M0-212	1 1/2 Acme	1 x 12	1 Acme	15	88.72
	G130-212	1 MPT	1 x 12	1 Acme	15	88.72
	G130-218	1 MPT	1 x 18	1 Acme	15	98.36
	G132-212	1 MPT	1 x 12	1 Mipt	15	88.72
	G132-218	1 MPT	1 x 18	1 Mipt	15	98.36
	G1MA-212	1 1/2 Acme	1 x 12	1 1/4 Acme	15	88.72
	G1MS-212	1 1/2 Acme	1 x 12	1 Brass MPT Q/C	15	190.96
	G1MS-218	1 1/2 Acme	1 x 18	1 Brass MPT Q/C	15	201.13
	G13S-212	1 MPT	1 x 12	1 Brass MPT Q/C	15	190.96
	G230-212	1 1/4 MPT	1 1/4 x 12	1 1/4 Acme	15	117.75
	G2M8-212	1 1/4 Acme	1 1/4 x 12	1 1/4 Acme	15	117.75
	G238-212	1 1/4 MPT	1 1/4 x 12	1 1/2 Acme	15	117.75
	G3M0-212	1 1/2 Acme	1 1/2 x 12	1 1/2 Acme	15	143.16
	G3M0-218	1 1/2 Acme	1 1/2 x 18	1 1/2 Acme	15	152.76
	G3MC-212	1 1/2 Acme	1 1/2 x 12	1 Acme	15	143.16
	G3MA-212	1 1/2 Acme	1 1/2 x 12	1 1/4 Acme	15	143.16
	G330-212	1 1/2 MPT	1 1/2 x 12	1 1/2 Acme	15	143.16
	G332-212	1 1/2 MPT	1 1/2 x 12	1 1/2 MPT	15	143.16
G332-218	1 1/2 MPT	1 1/2 x 18	1 1/2 MPT	15	152.76	
<b>REPLACEMENT PARTS</b>          	G100-002	1 Outlet Elbow (1 F Acme x 1 M Acme)			5	24.92
	G300-002	1 1/2 Outlet Elbow (1 1/2 F Acme x 1 1/2 M Acme)			5	43.46
	G102-000	1 Outlet Elbow (Acme x MIPT)			5	10.84
	G302-000	1 1/2 Outlet Elbow (Acme x MIPT)			5	23.68
	G102-211	1 x 1 1/2 Enlarging Outlet (Acme x MIPT)			5	30.28
	G108-211	1 x 1 1/2 Enlarging Outlet (Acme x ACME)			5	30.28
	G208-212	1 1/4 x 1 1/2 Enlarging Outlet (Acme x Acme)			5	38.91
	G302-133	1 1/2 x 1 Reducing Outlet (Acme x MIPT)			5	38.91
	G308-133	1 1/2 x 1 Reducing Outlet (Acme x Acme)			5	38.91
	G308-212	1 1/2 x 1 1/4 Reducing Outlet (Acme x Acme)			5	38.91
	G001-006	1 Inlet (Acme x Acme)			5	12.08
	G001-004	1 1/2 Inlet (Acme x Acme)			5	19.74
	G001-011	Male Brass Elbow for QC			5	63.84
	G001-014	1 1/2 x 1 Inlet (Acme x Acme)			5	12.08
	G001-016	1 1/2 x 1 1/4 Inlet (Acme x Acme)			5	14.87
	G130-000	1 Mipt x Acme Inlet			5	12.08
	G330-000	1 1/2 MIPT x Acme Inlet			5	19.74
	G100-208	1 x 8 Replacement Riser			5	39.21
G100-212	1 X 12 Replacement Riser			5	45.85	
G100-218	1 x 18 Replacement Riser			5	51.00	
A36-132	1 1/4 Fem Acme x 1 Male Acme Adaptor			10	30.00	



## Swing Joints

RISERS					TEST CAP				
Part	Description (Inches)	Pkg Qty	List (ea)	Part	Description (Inches)	Pkg Qty	List (ea)		
	G200-208	1 1/4 x 8 Riser	5	48.45		G548-010	1 Acme Test Cap	50	6.19
	G200-212	1 1/4 x 12 Riser	5	56.69		G548-012	1 1/4 Acme Test Cap	25	7.02
	G200-218	1 1/4 x 18 Riser	5	62.97		G548-015	1 1/2 Acme Test Cap	25	7.59
	G300-208	1 1/2 x 8 Riser	5	59.13		G53010	1 O-Ring for Acme Swing Joint	1	3.82
	G300-212	1 1/2 x 12 Riser	5	69.23		G53012	1.25 O-Ring for Acme Swing Joint	1	5.25
	G300-218	1 1/2 x 18 Riser	5	76.96		G53015	1 1/2 O-Ring for Acme Swing Joint	1	5.93
ADAPTORS									
	G102-010	1 Acme x FIPT	25	12.62					
	G302-015	1 1/2 Acme x FIPT	25	18.56					
EXTENSIONS									
	G587-002	1 x 7 Extension	15	19.40					
	G587-001	1 1/2x7 Extension	15	31.55					
	305-015	1 1/2 Tee (Acme)	10	34.47					



## Swing Joints

Part	Inlet (Inches)	Riser (Inches)	Outlet (Inches)	Pkg Qty	List (ea)	
	TSJ-15A10-12-3-10A	1 1/2 Acme	1 x 12	1 Acme	10	188.00
	TSJ-15A10-18-3-10A	1 1/2 Acme	1 x 18	1 Acme	10	218.00
	TSJ-15A-12-3-15A	1 1/2 Acme	1 1/2 x 12	1 1/2 Acme	10	323.00
	TSJ-15A-8-3-15A	1 1/2 Acme	1 1/2 x 8	1 1/2 Acme	10	110.00
	TSJ-15A-12-3-10A	1 1/2 Acme	1 1/2 x 12	1 Acme	10	351.00
	TSJ-15A10-12-3-10Q	1 1/2 Acme	1 x 12	1 Brass MPT Q/C	10	396.00
	TSJ-15A10-18-3-10Q	1 1/2 Acme	1 x 18	1 Brass MPT Q/C	10	412.00
	1-A1-1-11-12 (DURA)	1 MPT	1 x 12	1 Brass MPT Q/C	10	273.00
	1-A1-1-11-18 (DURA)	1 MPT	1 x 18	1 Brass MPT Q/C	10	287.00
REPLACEMENT PARTS						
	TA90-010	1 Elbow (Acme x Female Swing)		50	131.00	
	TA90-015	1 1/2 Elbow (Acme x Female Swing)		50	184.00	
	483-010	1 Elbow ( FS x FS)		50	26.41	
	483-015	1 1/2 Elbow ( FS x FS)		50	51.51	



## Dura parts also can be used with Toro Swing Joints

Part	Description (Inches)	Pkg Qty	List (ea)	
	A90-133	Enlarging Elbow (1 1/2 Acme x 1 FS)	50	89.28
	A90-211	Reducing Elbow (1 Acme x 1 1/2 FS)	50	80.36
	486-010	1 MIPT x Male Swing Nipple	50	28.13
	486-015	1 1/2 MIPT x Male Swing Nipple	50	43.42
	1-UB-8	1 x 8 Replacement Riser	20	81.00
	1-UB-12	1 x 12 Replacement Riser	20	94.00
	1-UB-18	1 x 18 Replacement Riser	20	109.00
	3-UB-8	1 1/2 x 8 Replacement Riser	20	122.00
	3-UB-12	1 1/2 x 12 Replacement Riser	20	142.00
	3-UB-18	1 1/2 x 18 Replacement Riser	20	158.00



# PIPES, FITTINGS & VALVES



## Harco Ductile Iron Fittings

TEE	Part	Description (Inches)	List
	80300	3 x 3 x 3	549.00
	80301	3 x 3 x 2 1/2	684.00
	80302	3 x 3 x 2	661.00
	80400	4 x 4 x 4	712.00
	80401	4 x 4 x 3	703.00
	80402	4 x 4 x 2 1/2	684.00
	80403	4 x 4 x 2	670.00
	80600	6 x 6 x 6	1,150.00
	80601	6 x 6 x 4	1,080.00
	80602	6 x 6 x 3	903.00
	80603	6 x 6 x 2 1/2	903.00
	80604	6 x 6 x 2	880.00
	80800	8 x 8 x 8	1,666.00
	80801	8 x 8 x 6	1,652.00
	80802	8 x 8 x 4	1,638.00
	80803	8 x 8 x 3	1,150.00
	8080802	8 x 8 x 2 1/2	1,233.00
	8080801	8 x 8 x 2	1,215.00
	81000	10 x 10 x 10	2,569.00
REDUCER			
	80430	4 x 3	307.00
	80432	4 x 2 1/2	298.00
	80434	4 x 2	298.00
	80632	6 x 4	526.00
	80634	6 x 3	475.00
	80636	6 x 2 1/2	549.00
	80638	6 x 2	540.00
	80832	8 x 6	624.00
	80834	8 x 4	624.00
	80836	8 x 3	647.00
	80838	8 x 2 1/2	647.00
	81030	10 x 8	1,094.00
	81032	10 x 6	1,094.00
	81034	10 x 4	1,094.00
	81036	10 x 3	689.00

## Harco Restraints

PIPE-TO-PIPE	Part	Description (Inches)	List
	820115	2	311.00
	820215	2 1/2	387.00
	820315	3	583.00
	820415	4	717.00
	820615	6	937.00
	820815	8	1,176.00
	821015	10	2,208.00



Leemco products also available



ELBOW	Part	Description (Inches)	List
	80220	2 1/2 90°	293.00
	80320	3 90°	391.00
	80420	4 90°	456.00
	80620	6 90°	908.00
	80820	8 90°	1,168.00
	80322	3 45°	340.00
	80422	4 45°	419.00
	80622	6 45°	684.00
	80822	8 45°	1,071.00
	80324	3 22 1/2°	344.00
	80424	4 22 1/2°	419.00
	80624	6 22 1/2°	577.00
	80824	8 22 1/2°	1,033.00
	80426H	4 11 1/4°	498.00
	80626	6 11 1/4°	754.00
	80826	8 11 1/4°	1,033.00
RESTRAINTS	<b>Knuckle</b>		
	60-100-02	2	166.00
	60-100-25	2 1/2	190.00
	60-100-03	3	205.00
	60-100-04	4	339.00
	<b>Fitting to Pipe</b>		
	820210	2 1/2	282.00
	820310	3	306.00
	820410	4	397.00
	820610	6	516.00
	820810	8	693.00
	<b>CLAMSHELL - Fitting to Pipe</b>		
	820411	4	397.00
	820611	6	516.00
	820811	8	693.00
	<b>Valve to Pipe</b>		
	820225	2 1/2	898.00
	820325	3	937.00
	820425	4	1,099.00
	820625	6	1,357.00
	820825	8	1,706.00

FITTING-TO-VALVE-TO-PIPE	Part	Description (Inches)	List
	820121	2	746.00
	820221	2 1/2	774.00
	820321	3	793.00
	820421	4	875.00
	820621	6	1,013.00
	820821	8	1,166.00



## Harco Valves

SWIVEL VALVES				
	Part	Description - Grip Rings	Pkg Qty	List (ea)
	8411062PN	2" x 6" gasket x male Swivel DI	1	1,115.83
	8412062PN	2 1/2" x 6" gasket x male Swivel DI	1	1,572.03
	8413062PN	3" x 6" gasket x male Swivel DI	1	1,636.86
	8414062PN	4" x 6" gasket x male Swivel DI	1	1,850.26
	8411062PR	2" x 6" gasket x male Swivel SS	1	1,338.00
	8412062PR	2 1/2" x 6" gasket x M Swivel SS	1	2,012.00
	8413062PR	3" x 6" gasket x male Swivel SS	1	1,963.00
	8414062PR	4" x 6" gasket x male Swivel SS	1	2,329.00
SWIVEL EXTENSION (Male Swivel x Female Swivel)				
	Part	Description	Pkg Qty	List (ea)
	87106	6"	1	135.00
	87112	12"	1	219.00
SWIVEL VALVE TEES				
	8015405	2"	1	304.00
	8025405	2 1/2"	1	304.00
	8035405	3"	1	456.00
	8045405	4"	1	521.00
	8065405	6"	1	680.00
	8085405	8"	1	973.00
	8105405	10"	1	1,941.00
CROSSOVER RINGS				
	82103	3" D.I.	1	172.00
	82104	4" D.I.	1	172.00
	82106	6" D.I.	1	223.00
ACME TAP TEE				
	H110815A	2" x 1 1/2"	16	151.00
	H110715A	2 1/2" x 1 1/2"	16	203.00
	H110615A	3" x 1 1/2"	16	272.00
SWIVEL ADAPTER				
	875-025-08	2" Msvl x 2" Fnpt	1	242.00



VISIT HARCO FITTINGS  
FOR MORE INFORMATION



# PIPES, FITTINGS & VALVES



## PVC Gasketted Fittings

	Part	Description (Inches)	Pkg Qty	List (ea)
<b>TAP TEE</b>  	H110810	2 x 2 x 1 G x G x Fipt	12	151.00
	H110815	2 x 2 x 1 1/2 G x G x Fipt	12	151.00
	H110710	2 1/2 x 2 1/2 x 1 G x G x Fipt	12	203.00
	H110715	2 1/2 x 2 1/2 x 1 1/2 G x G x Fipt	12	203.00
	H110610	3 x 3 x 1 G x G x Fipt	12	272.00
	H110615	3 x 1 1/2 G x G x Fipt	12	272.00
	H110510	4 x 4 x 1 G x G x Fipt	8	352.00
	H110515	4 x 4 x 1 1/2 G x G x Fipt	8	352.00
	H110415	6 x 6 x 1 1/2 G x G x Fipt	6	453.00
<b>TEE</b>  	H01-030	3 Tee GxGxG	1	304.00
	H01-040	4 Tee GxGxG	1	478.00
	H01-060	6 Tee GxGxG	1	1,050.00
	H01-080	8 Tee GxGxG	1	1,856.00
	H01-292	2 1/2 x 2 1/2 x 2 GxGxG	1	288.00
	H01-338	3 x 3 x 2 GxGxG	1	304.00
	H01-339	3 x 3 x 2 1/2 GxGxG	1	304.00
	H01-420	4 x 4 x 2 GxGxG	1	469.00
	H01-421	4 x 4 x 2 1/2 GxGxG	1	469.00
	H01-422	4 x 4 x 3 GxGxG	1	469.00
	H01-528	6 x 6 x 2 GxGxG	1	1,050.00
	H01-530	6 x 6 x 3 GxGxG	1	1,050.00
	H01-532	6 x 6 x 4 GxGxG	1	1,050.00
	H01-582	8 x 8 x 4 GxGxG	1	1,773.00
H01-585	8 x 8 x 6 GxGxG	1	1,814.00	
<b>90° ELBOW</b>  	H06-030	3 90° Elbow GxG	1	199.00
	H06-040	4 90° Elbow GxG	1	340.00
	H06-060	6 90° Elbow GxG	1	625.00
	H06-080	8 90° Elbow GxG	1	1,219.00
<b>45° ELBOW</b>  	H17-030	3 45° Elbow GxG	1	199.00
	H17-040	4 45° Elbow GxG	1	340.00
	H17-060	6 45° Elbow GxG	1	625.00
	H17-080	8 45° Elbow GxG	1	1,219.00
<b>REDUCERS</b>  	H37-338	3 x 2 Reducer PExG	1	169.00
	H37-339	3x2 1/2 Reducer PExG	1	177.00
	H37-420	4 x 2 Reducer PExG	1	196.00
	H37-421	4 x 2 1/2 Reducer PExG	1	205.00
	H37-422	4 x 3 Reducer PExG	1	205.00
	H37-530	6 x 3 Reducer PExG	1	369.00
	H37-532	6 x 4 Reducer PExG	1	563.00
	H37-585	8 x 6 Reducer PExG	1	956.00



## Repair Fittings

	Part	Description	Pkg Qty	List (ea)
<b>KWIK REPAIR COUPLERS</b> 	KRC429-015	1/2"	1	25.00
	KRC429-020	2"	1	37.00
	KRC429-025	2 1/2"	1	55.00
	KRC429-030	3"	1	79.00
	KRC429-040	4"	1	121.00
<b>TELESCOPING-COUPLING</b> 	22310-R	1"	25	37.00
	22315-R	1 1/2"	15	37.00
	22320-R	2"	10	56.00
	22325-R	2 1/2"	10	93.00
	22330-R	3"	5	130.00
	22340-R	4"	5	185.00
<b>COMPRESSION COUPLING</b> 	21125	1"	20	36.93
	21126	1 1/4"	10	56.27
	21127	1 1/2"	10	57.52
	21128	2"	10	76.12
	21129	2 1/2"	10	141.88
	21130	3"	5	185.39
	21131	4"	5	305.25
	21133	6"	4	560.79
<b>HARCO REPAIR COUPLING</b> 	H10290	1 1/2"	24	96.00
	H10280	2"	24	105.00
	H10270	2 1/2"	24	116.00
	H10260	3"	24	145.00
	H10250	4"	12	261.00
	H10240	6"	6	458.00
	H10230	8"	4	944.00
<b>DUCTILE IRON REPAIR FITTINGS</b> 	80340	3"	1	335.00
	80440	4"	1	422.00
	80640	6"	1	658.00
	80840	8"	1	814.00



Vicalic Repair Couplings & Fittings for HDPE available in 2-14". Ask for details





# PIPES, FITTINGS & VALVES

## Electric Valves

P220 VALVE & SCRUBBER	Part	Description	Pkg Qty	List (ea)
		P220-26-04	P220G Series Plastic Valve, 1"	24
P220-26-06		P220G Series Plastic Valve, 1 1/2"	12	437.58
P220-26-08		P220G Series Plastic Valve, 2"	4	617.97
P220G-27-04		P220G Series Plastic Valve, 1" w/pressure regulator	24	607.00
P220G-27-04DL		P220G-DL Series Plastic Valve w/pressure regulator	24	607.00
P220G-27-06		P220G Series Plastic Valve, 1 1/2" w/pressure regulator	12	720.00
P220G-27-06DL		P220G-DL Series Plastic Valve w/pressure regulator	12	720.00
P220G-27-08		P220G Series Plastic Valve, 2" w/pressure regulator	4	935.00
P220G-27-08DL		P220G-DL Series Plastic Valve w/pressure regulator	4	935.00
P220GS-27-04		P220G Plastic Scrubber Valve, 1" w/pressure regulator	24	794.00
P220GS-27-04DL		P220G-DL Plastic Scrubber Valve w/pressure regulator	24	794.00
P220GS-27-06		P220G Plastic Scrubber Valve, 1 1/2" w/pressure regulator	12	935.00
P220GS-27-06DL		P220G-DL Plastic Scrubber Valve w/pressure regulator	12	935.00
P220GS-27-08		P220G Plastic Scrubber Valve, 2" w/pressure regulator	4	1,154.00
P220GS-27-08DL		P220G-DL Plastic Scrubber Valve w/pressure regulator	4	1,154.00

### P220G SERIES FRICTION LOSS DATA\*

Size	Configuration	gpm Flow																	
		5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	180	
1"	Globe	4.00	4.20	3.20	4.10	7.20													
	Angle	4.00	4.20	3.10	2.70	4.80													
1 1/2"	Globe				1.60	2.30	3.60	5.20	7.00	9.20	11.20	13.60	16.40						
	Angle				1.30	1.60	2.80	4.00	5.50	7.10	8.90	10.90	13.50						
2"	Globe									2.10	2.70	3.30	4.00	4.80	5.60	6.50	7.50	8.70	
	Angle									1.20	1.60	2.00	2.40	2.80	3.30	3.90	4.40	5.20	

### P220GS SERIES FRICTION LOSS DATA\*

Size	Configuration	gpm Flow																
		5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	
1"	Globe	4.63	4.74	3.10	6.05	10.75												
	Angle	4.14	4.64	2.54	5.53	9.46												
1 1/2"	Globe			1.14	1.56	2.85	4.36	6.28	8.57	11.20	14.03	17.20	20.46					
	Angle			0.95	1.51	2.28	3.69	5.29	6.97	9.26	11.80	14.60	17.40					
2"	Globe									3.57	4.62	5.33	6.80	8.20	9.02	10.46	11.61	
	Angle									2.79	3.50	4.41	5.62	6.39	7.35	8.81	9.37	

Note: For optimum performance when designing a system, be sure to calculate total friction loss to ensure sufficient downstream pressure.  
 For optimum regulation performance, size regulating valves toward the higher flow ranges.  
 Flow rates are recommended not to exceed 5 psi loss.

## Manual Valves

	Part	Description	Pkg Qty	List (ea)	
<b>HEAVY DUTY GATE</b> 	GU-1.5	1 1/2" Threaded	1	617.00	
	GU-2	2" Threaded	1	816.00	
	GU-2 1/2	2 1/2" Threaded	1	1,564.00	
	GU-3	3" Threaded	1	1,390.00	
<b>ECONOMY GATE</b> 	B510T04	3/4" Threaded	10	36.00	
	B510T05	1" Threaded	10	53.00	
	B510T07	1 1/2" Threaded	5	96.00	
<b>LASCO SLO-CLOSE VALVE</b> 	V10101N-SC	1" Slo-Close valve	1	372.43	
	V17101N-SC	1 1/2" Slo-Close valve	1	473.67	
	V20101N-SC	2" Slo-Close valve	1	732.59	
	VALVE KEY-1	Valve Key for 1" valves	1	#N/A	
	V417681	44" Valve Key for 2" valves	1	552.44	
<b>MUELLER VALVES</b> 	020A236237LN	2" C509 Radial Push-on Valve O/L	1	1,879.00	
	025A236237LN	2.5" C509 Radial Push-on Valve O/L	1	2,325.00	
	030A236237LN	3" C509 Radial Push-on Valve O/L	1	2,769.00	
	040A236237LN	4" C509 Radial Push-on Valve O/L	1	2,542.00	
	060A236237LN	6" C509 Radial Push-on Valve O/L	1	3,052.00	
	<b>Many other Leemco products available. Call for details.</b>				
<b>LEEMCO VALVES</b> 	LMV-11BB	2" Bell x Bell Push-On, Self-restrained	1	1,924.00	
	LMV-22BB	2.5" Bell x Bell Push-On, Self-restrained	1	2,022.00	
	LMV-33BB	3" Bell x Bell Push-On, Self-restrained	1	2,187.00	
	LMV-44BB	4" Bell x Bell Push-On, Self-restrained	1	3,049.00	
	LMV-66BB	6" Bell X Bell Push-On, Self-restrained	1	3,844.00	
	<b>*Bonnet Assemblies available for all valves.</b>				
	<b>MATCO RING-TITE</b> 	10RT020	2" Gasket x gasket	1	737.00
10RT025		2 1/2" Gasket x gasket	1	865.00	
10RT030		3" Gasket x gasket	1	1,069.00	
10RT040		4" Gasket x gasket	1	1,298.00	
10RT060		6" Gasket x gasket	1	1,628.00	
10RT080		8" Gasket x gasket	1	2,804.00	
<b>*Bonnet Assemblies available for all valves.</b>					
	UT69000	60" Valve Key Wrench	1	247.00	

Joint restraints are available for ring-tite valves (See page 46) MJ x MJ Valves Available upon request



# PIPES, FITTINGS & VALVES

## Manual Valves

BALL VALVES-BRASS	Part	Description (Inches)	Pkg Qty	List (ea)
	B750T05	1" Threaded	30	46.00
	B750T06	1 1/4" Threaded	24	72.00
	B750T07	1 1/2" Threaded	16	97.00
	B750T08	2" Threaded	8	149.00
	B750T09	2 1/2" Threaded	4	343.00
	B750T10	3" Threaded	1	461.00
BALL VALVES-PVC	Part	Description (Inches)	Pkg Qty	List (ea)
	2411-020W	2" Threaded	1	31.00
	2411-025W	2 1/2" Threaded	1	75.00
	2411-030W	3" Threaded	1	129.00
	2412-020W	2" Slip	1	31.00
	2412-025W	2 1/2" Slip	1	75.00
	2412-030W	3" Slip	1	129.00

## Hydraulic Tubing & Fittings

	Part	Description (Inches)	List (ea)
	900-14	Hydraulic Tubing 2000' Coil (Single Foot p/n = 900-14-1)	1,544.00
	1-1107	1/8" x 1/4" Tubing Adapter	52.64
	900-24	Tubing Adapter, MPT x Tubing 1/8"	8.00
	B39-071	Brass Reducer Bushing, 1/2" x 1/8"	10.00
	439-130	Reducer Bushing, 1 Mipt x 1/2" Fipt	4.26
	900-30	Tubing Coupler, Brass	8.00
	900-40	Tubing Retainer	2.00
	900-50	Tubing Tee, Brass	28.00
	900-70	Tubing Plug, Plastic	2.00
	850-21	1/4" Plastic Coupler	3.00
	850-22	1/4" Plastic Tee	9.90
	9-8364	Supply Line Filter	196.30

## Pressure Reducing Valves

	Part	Description (Inches)	Pkg Qty	List (ea)
	LFN55BM1-U	1" Threaded With Union	1	467.00
	BPRV015	1 1/2" Pressure Reducing	1	1,215.00
	BPRV020	2" Pressure Reducing	1	2,444.00



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# HARDWARE & ACCESSORIES



## NDS Pro Series Valve Boxes

	Part	Description (Inches)	Pkg Qty	List (ea)
	VB007B-S	7" Round Economy, Black (with Lid)	1	11.00
	VB007	7" Round Standard, Green (with Lid)	1	31.00
	VBC007	7" Round Lid only	1	15.00
	VB010	10" Round Standard, Green (with Lid)	1	66.00
	VBC010	10" Round Lid only	1	36.00
	VB012	Standard Rectangular 12" x 17" (with Lid)	1	172.00
	VBC012	12" x 17" Rectangular Lid only	1	54.00
	VB1420	Jumbo Rectangular 15" x 21" (with Lid)	1	250.00
	VB1420EL	Jumbo Rectangular Extension - 6" high (with Lid)	1	450.00
	VBC1420	15" x 21" Rectangular Lid only	1	173.00
	VB1730	Super Jumbo Rectangular 17" x 30" (with Lid)	1	1,271.00
VBC1730	17" x 30" Rectangular Lid only	1	537.00	
<b>NDS Valve Boxes available in Green, Black, Purple, and Grey.</b>				
	<b>Accessories</b>			
	Part	Description	Pkg Qty	List (ea)
	VBLOCK	Locking Bolt	1	10.00

## Toro Valve Boxes

	Part	Description (Inches)	Pkg Qty	List (ea)
	TVB-6RND-X	6" Round (With Lid)	1	26.00
	TVB-6LID-X	6" Round Lid Only	1	12.00
	TVB-7RND-X	7" Round (With Lid)	1	76.00
	TVB-7LID-X	7" Round Lid Only	1	24.00
	TVB-10RND-X	10" Round (With Lid)	1	100.00
	TVB-10LID-X	10" Round Lid Only	1	34.00
	TVB-1217-12-X	12" x 17" x 12" Rectangular (With Lid)	1	195.00
	TVB-1217-EXT6BOX-X	12" x 17" x 6" Rectangular Extension Only	1	165.00
	TVB-1217LID-X	12" x 17" Rectangular Lid Only	1	80.00
	TVB-1521-12-X	15" x 21" x 12" Jumbo Rectangular (With Lid)	1	362.00
	TVB-1521-EXT6BOX-X	15" x 21" x 6" Jumbo Extension Only	1	320.00
TVB-1521LID-X	15" x 21" Jumbo Rectangular Lid Only	1	163.00	
<b>X = Colour: Green (G), Gray (GY), Tan (T), Black (BK), Brown (BR)</b>				

\*Carson Valve Boxes Available Upon Request

## Wire & Electrical Accessories

	Part	Description	Pkg	List (ea)
<b>POWER WIRE</b>  	CNMWU-12/2B	12G 2 COND. POWER WIRE	300m	Call for pricing
	CNMWU-10/2B	10G 2 COND. POWER WIRE	300m	
	CNMWU-8/2B	8G 2 COND. POWER WIRE	300m	
	CNMWU-12/2A	12G 2 COND. POWER WIRE	150m	
	CNMWU-10/2A	10G 2 COND. POWER WIRE	150m	
	CNMWU-8/2A	8G 2 COND. POWER WIRE	150m	
<b>COMMUNICATION CABLE</b>  	COMM CABLE-A	Armoured & Sheilded Cable	300m	
	COMM CABLE-B	18/2-2 Pair Cable	300m	
	COMM CABLE-S	16/2-1 Pair Shielded Cable	300m	
<b>MAXI WIRE</b>  	180115C-1000	*14/2 PE Red Maxi Cable, P7072D	1000ft	
	180116C	*14/2 PE Blue Maxi wire P7072D	1000ft	
	180117C	*14/2 PE Green Maxi wire P7072D	1000ft	
	180161C	*12/2 PE Red Maxi Cable, P7072D	1000ft	
	270041	Maxi wire cutters	1	99.00
<b>PE SATELLITE WIRE</b>  	CTWU-14X-PE-2500	*14 Gauge Solid-Spec.	2500ft	Call for pricing
	CTWU-12W-PE-2500	12 Gauge Solid White	2500ft	
<b>*Specify Colour: Black, Blue, Green, Red, Yellow, Orange</b>				
<b>GDC TWO-WIRE CABLE-JACKETED</b>  	GDC DECODER CABLE	14 Gauge Two-wire Cable w/Red Jacket (Also available in black, yellow, green, blue, gray, orange, purple, and tan jackets.)	1000ft	Call for pricing
<b>TRACER WIRE</b>  	RWU90-YELLOW	14 Gauge Solid Yellow	2500ft	
<b>WIRE CONNECTORS</b>  	DBR/Y-6	3M Direct Burial Splice Kit, 18-12 Gauge	100	4.20
	DBO/B-6	3M Direct Burial Splice Kit, 18-12 Gauge	100	6.48
	DBR/Y-600	3M Direct Burial Splice Kit	25	7.23
	82-A1	3M Comm Cable Splice Kit, for 2-way splice	1	129.00
	82-A2	3M Comm Cable Splice Kit for 3-way splice	1	249.00
	85-10	3M Splice Kit, for 12-14G Power Cable	1	139.00
	85-12	3M Splice Kit, for 8-12G Power Cable	1	149.00
	3570	3M Scotchlok Seal Connector	1	20.61
	DBSR AQUA-100	King Direct Bury Splice Kit - Tracer Wire	1	10.69
	20630	King Splice Kit - Infinity Head	2	6.00
	90120	Yellow Dry Conn Waterproof Lug	5	36.96
	98105	Dry Conn DB Power Connect	3	77.58
<b>*OTHER COLORS AVAILABLE</b>				



# HARDWARE & ACCESSORIES

## Copper Clad Ground Rods & Connections

COPPER CLAD GROUND RODS & CONNECTIONS	Part	Description	Pkg	List (ea)
	ROD	5/8" Dia. x 8' Long	1	119.00
	1820001C6	5/8" Ground Rod, 10' w/15' #6 insulated wire	1	248.00
	1820017C6	5/8" Ground Rod, 10' w/25' #6 insulated wire	1	332.00
	B-137-16	Driving Sleeve for above	1	419.00
	GT1-161LPLUS	1-2 #6 Wires	1	71.00
	NT1-161LPLUS	1-3 #6 Wires	1	81.00
	PLUSCU	Control Unit	1	1,114.00
	HDC58	Heavy Duty Clamp	1	24.00
	ESB2	Split Bolt for #6 gauge wire	1	35.00
	S8	Split Bolt for #10, 12 & 14 gauge wire	1	10.89
	C6BARE	6 Gauge, 75m	1	CALL FOR PRICING
	GEM	Grounding Material 25 lbs	1	172.00
	POWER SET	Grounding Material 50 lbs	1	594.00
POWER FILL	Grounding Material 50lbs	1	525.00	
GROUND PLATE	4" x 36" Ground Plate	1	449.00	
GROUND PLATE-L	4" x 96" Ground Plate	1	771.00	



## PVC Cements & Primers

PVC CEMENTS	Part	Description	Pkg Qty	List (ea)	
	711HP	1/2 Pint, Grey	24	36.00	
	711P	Pint, Grey	12	62.00	
	711Q	Quart, Grey	12	106.00	
	711G	Gallon, Grey	6	356.00	
	725P	Pint, Wet 'R' Dry	12	57.00	
	725Q	Quart, Wet 'R' Dry	12	92.00	
	PRIMER	P-70HP	1/2 Pint, Purple	24	30.00
		P-70P	Pint, Purple	12	52.00
		P-70Q	Quart, Purple	12	82.00
		P-70G	Gallon, Purple	6	277.00
		P-75Q	Quart, Wet 'R' Dry,	12	83.00
	ACCESSORIES	DQ-150	Dauber w/cap for quart	100	6.28
		BCP	Brush	100	42.00
CM-150		Adjustable dauber	50	21.00	
LUBE 1		1kg Gasket Lube	12	25.00	
TEFLON TAPE	TEFLON-WHITE	1/2" x 480"	10	0.99	
	TEFLON-PINK	1/2" x 520"	10	2.72	
	TEFLON-ORANGE	1/2" x 540"	10	11.70	
	TEFLON TAPE 3/4	3/4" x 520"	10	2.00	
	80510	Permatex Thread Sealant	12	36.84	



## Hoses, Reels, Trailers & Accessories

UNDERHILL	Part	Description	Pkg Qty	List (ea)
	HC-TRL-100-K	1" Hose Trailer w/1" x 100ft UltraMax Blue Hose & Fittings	1	7,032.00
	CH37118L	1" Hand Crank Reel with gooseneck (Hose not included)	1	2,224.00
Complete Reelcraft line available: Find it at <a href="http://www.reelcraft.com">www.reelcraft.com</a>				
	HOSE	1" x 100' Green, 375psi Burst Rating	1	425.00
	HOSE-1	1" x 50' Green, 375psi Burst Rating	1	242.00
	HOSE-3	0.75" x 100' Green, 375psi Burst Rating	1	332.00
	HOSE-2	0.75" x 50' Green, 375psi Burst Rating	1	193.00
	H10-100B	1" x 100' Blue Hose, 1200psi Burst Rating	1	1,005.00
	H10-050B	1" x 50' Blue Hose, 1200psi Burst Rating	1	560.00
	H75-100B	0.75" x 100' Blue Hose, 1200psi Burst Rating	1	718.00
	H75-050B	0.75" x 50' Blue Hose, 1200psi Burst Rating	1	407.00
*Custom length hoses available upon request.				
	H10-050FW	1" x 50' Green Hose, 1200 PSI Burst Rating	1	332.00 NET
	H10-100FW	1" x 100' Green Hose, 1200 PSI Burst Rating	1	522.00 NET
	H10-125FW	1" x 125' Green Hose, 1200 PSI Burst Rating	1	629.00 NET
	HOSE NOZZLE 1"	Red Fog Nozzle	1	52.00
	HOSE NOZZLE 3/4"	Green Fog Nozzle	1	42.00
	HOSE WASHER 1"	1" Hose Washers	1	2.00
	NG550-DFH-10	Turbo Shift 12-43 GPM, 1" FHT Inlet	1	320.00
	NG550-DFSH-10	Turbo Shift 34-104 GPM, 1" FHT Inlet	1	387.00
	NG500-SFH-10	Full Throttle 15-40 GPM, 1" FHT Inlet	1	283.00
	SN6-75	Super Sweeper 6" Power Nozzle, 3/4" FHT Inlet	1	44.00
	DN-10	1" Drain Blaster Nozzle	1	320.00
	DN-75	0.75" Drain Blaster Nozzle	1	257.00
	A-BA107MF	1" MHT x 3/4" FHT Brass Hose Adapter	1	33.00
	FM1010	1" Female NPT x 1" Male GHT	5	66.00
	DMH1010	1" Male NPT x 1" Male GHT	5	45.00
	BA-796	3/4" Male GHT x 3/4" Female NPT Adapter	1	15.00
	BA-776	3/4" Male GHT x 3/4" Male NPT Adapter	1	18.00



Additional Underhill products available upon request.

\*Kochek Nozzles still available



# HARDWARE & ACCESSORIES

## Brass Impact Sprinklers

	Part	Description (Inches)	Pkg Qty	List (ea)
<b>FULL CIRCLE</b> 	403-11-06	3/4" Male Base	1	95.00
	350SA1408	1" FC, 7/32"-1/8" Dual nozzle	1	199.00
	405-24-14	1" 1/4" Male Base	1	624.00
<b>PART CIRCLE</b> 	65P	1/2" Plastic	1	17.00
	432-10	1/2" Male Base	1	124.00
	433-10-06	3/4" Male Base	1	198.00
	434-18-08	1" Male Base	1	213.00
	435-24-14	1 1/4" Male Base	1	897.00
<b>COUPLINGS</b> 	G30-168	1 1/4" x 1" Galvanized Coupling	1	17.00
	G30-010	1" Galvanized Coupling	1	11.00
<b>NIPPLES</b> 	G884-030	1" x 3" Galvanized Nipple	1	9.00
	G884-040	1" x 4" Galvanized Nipple	1	12.00
	G884-060	1" x 6" Galvanized Nipple	1	15.00

## Quick Couplers

	Part	Description (Inches)	Pkg Qty	List (ea)
<b>VALVE KEYS</b> 	463-01	For 473-00 - 3/4" M x 1/2" F Top Thread	1	122.00
	464-01	For 474-00 - 3/4" F x 1" M QC Key	1	211.00
	464-02	For 474-00 - 1" Female Top Thread	1	125.00
	465-01	For 475-00 - 1" M x 3/4" F Top Thread (Industry Standard)	1	262.00
<b>QUICK COUPLING VALVES</b> 	473-00	3/4" Steel Cover	1	192.00
	474-00	1" Steel Cover (Repair Kit = #QCV100BKIT)	1	270.00
	475-00	1" Inlet x 1 1/4" Steel Cover (Industry Standard) (Repair Kit = #QCV101BKIT)	1	144.00
	476-00	1.5" Steel Cover	1	384.00
	475-00T	1" Inlet x 1 1/4" Steel Cover (Toro)	1	336.00
	475-01	1" Inlet x 1 1/4" Vinyl Cover (Toro)	1	360.00
<b>HOSE SWIVELS</b> 	HS-075	3/4" x 3/4" FPT x MHT	1	143.00
	HS-100	1" x 3/4" FPT x MHT	1	164.00
	HS-101	1" x 1" FPT x MHT	1	101.00
<b>AQUA-QUIK</b> 	HN-T100	Adapts 630/730/760/DT30/830/FLX 1" Sprinklers	1	86.00
	HN-T150	Adapts 650/670/750/780/DT50/850/FLX 1 1/5" Sprinklers	1	86.00

## Sprinkler Bases

	Part	Description (Inches)	Pkg Qty	List (ea)
	58034	1/2" Spike Base	1	8.00
	58030	1/2" Ring Base	1	50.00
	RB2210	1" Metal Roller Base	2	288.00

## Electrical Accessories

	Part	Description	Pkg Qty	List (ea)
<b>POWER CONDITIONERS</b> 	MCR120	120 VA Power Conditioner 120 Volt Output Only	1	2,456.00
	MCR250	250 VA Power Conditioner 120 Volt Output Only	1	2,968.00
	MCR500	500 VA Power Conditioner 120 or 230 Volt Output	1	4,424.00
	MCR750	750VA Power Conditioner 120 or 230 Volt Output	1	5,637.00
	MCR1000	1000 VA Power Conditioner 120 or 230 Volt Output	1	6,695.00
	MCR1500	1500 VA Power Conditioner 120 or 230 Volt Output	1	8,405.00
	MCR2000	2000 VA Power Conditioner 120 or 230 Volt Output	1	11,511.00
	<b>DATALINE PROTECTORS</b> 	407T	AC Line Equipment Protector 7 Amps.	1
DLPT-10-10		Signal Line Protector	1	687.00

## Satellite Fuses

	Part	Description	Pkg Qty	List (ea)
	AGC-5	1/2 amp Fast Blow	1	3.71
	AGC-7.5	7.5 amp Fast Blow	1	2.37
	GDL-3.2	3.2 amp Slow Blow	1	9.69
	GDB4-A	4 amp fuse for RDR card	1	6.60
	ATC-1	1 amp Blade Style	1	5.19
	ATC-3	3 amp Blade Style	1	4.97
	270WMT	Wire Marking Tags (25/bag)	25	144.00 (Per bag)



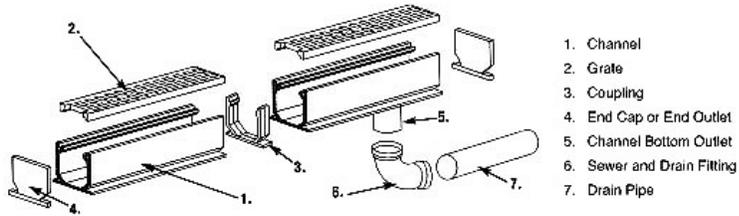
# HARDWARE & ACCESSORIES



## Channel Drains, Catch Basins, Atrium Grates, Pop-Up Emitters



Mini and Spee-D® Channel System Components



Channel Drains for driveways, pools, spas, patios, sidewalks & wash-down areas.

### Channel Grates & Drains

	Part	Description (Inches)	Pkg Qty	List (ea)
	NDS244	2" Spee-D Channel Grate	1	98.00
	NDS400	4" Spee-D Channel Drain	1	143.00
	NDS245	Spee-D Channel Strainer	1	51.00
	NDS247	Spee-D Channel End Cap	1	26.00
	NDS248	Spee-D Channel Coupling	1	26.00
	NDS249	Spee-D 3" & 4" Offset End Outlet	1	29.00
	NDS800	5" x 39 3/8" Deep Profile Drain	1	237.00
	NDS812	5" Deep End Cap	1	37.00
	NDS813	5" Deep End Outlet	1	42.00
	NDS814	5" x 20" Grate Gray	1	109.00
	NDS815	5" x 20" Grate Green	1	115.00
	NDS820	5" x 20" Shallow Profile Channel	1	173.00
	NDS821	5" Shallow End Cap	1	85.00
	NDS822	5" Shallow End Outlet	1	177.00



## Drainage Pipe & Fittings

	Part	Description	Skid Qty	List per ft
	PBDS30	3" x 10' CAS MPVC Sleeving (SDR35)	1120	4.60
PBDS40	4" x 10' CAS MPVC Sleeving (SDR35)	630	5.27	

## Fittings

	Part	Description (Inches)	Pkg Qty	List (ea)
	BD37-422	4" x 3" Reducer Bushing Sp x H	20	36.00
BD29-422	4" x 3" Reducer Coupling H x H	30	30.00	
BD29-030	3" Coupling w/Pipe Stop H x H	50	17.00	
BD29-040	4" Coupling w/Pipe Stop H x H	40	19.00	
BD16-030	3" 22 1/2° Elbow (1/16 Bend) H x H	40	41.00	
BD16-040	4" 22 1/2° Elbow (1/16 Bend) H x H	30	35.00	
BD17-030	3" 45° Elbow (1/8 Bend) H x H	30	27.00	
BD17-040	4" 45° Elbow (1/8 Bend) H x H	25	32.00	
BD06-030	3" 90° Elbow (1/4 Bend) H x H	30	40.00	
BD06-040	4" 90° Elbow (1/4 Bend) H x H	25	42.00	
BD01-030	3" x 3" x 3" Sanitary Tee H x H x H	20	50.00	
BD01-040	4" x 4" x 4" Sanitary Tee H x H x H	20	65.00	



# HARDWARE & ACCESSORIES



Large Catch Basins for large lawn or landscape areas, residential driveways & garages.



Small Round, Square and Atrium Grates for small lawn and landscape areas, patios and atriums.



Pop-Up Emitters for discharging water on the surface.



More information on Channel Gate and Drain products from





## Drainage Pipe

POP-UP DRAIN		Part	Description (Inches)	Pkg Qty	List (ea)
		NDS420	Pop-up Drain Emitter	1	37.00
		NDS430	Pop-up Drain Emitter w/Elbow/Universal Adaptor	1	138.00
SPEE-D® BASINS & GRATES		NDS101	6" Round-1 Outlet	10	75.00
		NDS201	6" Round-2 Outlets	10	75.00
		NDS50	6" Round Grate Green	10	40.00
		NDS20	8" Round Grate Green	10	57.00
		NDS80	6" Atrium Grate Green	1	67.00
CATCH BASINS & GRATES		NDS900	9" Square-2 Outlets	4	102.00
		NDS900-4	9" Square-4 Outlets	4	137.00
		NDS900GRKIT	9" Catch Basin Kit with Green Grate	1	182.00
		NDS990	9" Square Grate Green	8	132.00
		NDS916	9" x 9" x 6" Extension	4	115.00
		NDS1200	12" Square-2 Outlets	4	159.00
		NDS1200NGB	12" Next Generation Basin	4	236.00
		NDS1203	12" Square-3 Outlets	4	259.00
		NDS1204	12" Square-4 Outlets	4	273.00
		NDS1200GRKIT	12" Catch Basin Kit with Green Grate	1	218.00
		NDS1212	12" Square Grate Green	8	169.00
		NDS1280	12" Atrium Grate Green	1	258.00
		NDS1216	12" x 12" x 6" Square Extension Blk	8	118.00
		NDS1800	18" Square-2 Outlets	1	837.00
		NDS1812	18" Square Grate	4	675.00
		NDS1206	Universal Plug	20	21.00
		NDS1207	Open Side for 1200NGB Universal Outlet	8	16.79
		NDS1208	Plug Side for 1200NGB Closes one inlet/outlet	8	23.00
		NDS1243	3, 4 Outlet Connector	20	27.00
		NDS1266	6" Outlet Connector	20	36.00
	NDS13	4" Round Grate Green	25	17.00	
	4C06	4" Drainage Corrugated End Cap	1	40.00	

Additional drainage products available upon request: Find them at [www.ndspro.com](http://www.ndspro.com)



# GOLF CONTROL SYSTEMS



## LYNX® SMART MODULE 2-WIRE CONTROL SYSTEM

The Toro Lynx Smart Module 2-Wire Control System uses innovative technology to provide an irrigation solution that is reliable and efficient. Using a 2-wire path to communicate to buried control units, the system reduces the costs associated with traditional valve wire bundles and provides a solution that is vandal resistant, easy to install and easy to expand.



**Diagnostics** – Built-in diagnostics automatically let you know if there are any problems. The wire path check quickly confirms that the whole system is operational.

**Integrated Sprinkler** – Toro INFINITY® and FLEX800™ Series sprinkler models have an integrated 2-wire module option.



### FEATURES & BENEFITS



Speed



Precision



Upgradeable



Durability

#### Simplicity

One cable simplifies installation and maintenance. Automated diagnostics keep you informed.

#### Expandable

Adds, moves and changes are easy – just plug and play.

#### Cost Effective

Less wire – lower cost.

#### Forward Thinking

Two-way communication between the central and every sprinkler enables the addition of more SMART features.

#### Secure

The unique Lynx Smart Hub can run the automatic programs, even if the central is down. Best in class broadband lightning protection.



## INTERFACE OPTIONS

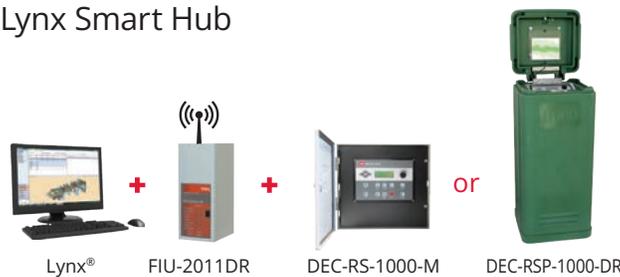


### Lynx Smart Hub

Lynx Smart Hub is a new type of field controller that adds security, programmability and sensing to the benefits and simplicity of a two-wire system.

- ✓ The system can be segmented into manageable areas for simplified maintenance
- ✓ Provides for in-field manual operation or troubleshooting
- ✓ Stores and runs a fully flow-managed irrigation schedule in the event the central computer is offline
- ✓ Creates a convenient point of connection for soil, flow and status sensors

### Lynx Smart Hub



## Lynx Smart Hub

Part	Description	Price
FIU-2011DR	Field Interface Unit with Digital Radio	CALL FOR PRICING
DEC-RS-1000-M	Wall Mount Smart Hub with Wireline Modem	
DEC-RSP-1000-DR	Pedestal Smart Hub with Digital Radio	
FOR COMPLETE FIU OPTIONS SEE PAGE 78		
Part	Description	List (ea)
LSM-1	Lynx Smart Module - Single Station	CALL FOR PRICING

**TORO®**

# LYNX® SMART SATELLITE



The all-new Lynx Smart Satellite sports a familiar look but is designed to improve performance and reliability. Picking up where the accomplished Network VP® left off, the Lynx Smart Satellite adds enhanced communications with the Lynx Central Control System and integration with field sensors to further complement your decision making. Lynx Smart Satellite is also fully compatible with Network VP and Network 8000® systems as an addition or replacement.

**TORO®**

# OSMAC® G4



The OSMAC G4 satellite is easy to install, troubleshoot and maintain. Economical because you buy only what you need and can expand as your site conditions change. They utilize paging technology to create one of the most convenient, dependable, and flexible satellites on the market. Employing wireless communication, these satellites are great for retrofit projects.

Available as complete satellites or upgrade kit for existing E-OSMAC satellites. Upgrade kit includes OSMAC G4 faceplate, interface cable and hardware.



## Lynx Smart Satellite

### Smart Design

- Faster microprocessor & increased memory for high performance today & the capacity for future enhancements
- Fewer cables & connectors, corrosion-resistant metals, vented circuit board covers, and simplified power distribution contribute to greater reliability

### Smart Features

- Updated user interface
- Enhanced wireless communications
- Optional sensor input kit
- Plus all the great features of the Network VP



## Stand Alone Satellite

Part	Description	List (ea)
300-016P6A4A	*16 Station Elec. Satellite w/o Modem	CALL FOR PRICING
300-048P6A4A	*48 Station Elec. Satellite w/o Modem	
300-016P6M4A	*16 Station Elec. Satellite w/Modem	
300-048P6M4A	*48 Station Elec. Satellite w/Modem	
*Satellites expandable with the following parts		
118-6370SK	16 Station Module	CALL FOR PRICING
118-6032SK	(M3) Board, No Surge	
118-3047SK	(M4) Board with Gold Level Surge	

## Optional Sensor Input Kit

Part	Description	List (ea)
SMRT-SEN-BRD-KIT	Pressure, Flow Rate, Rain, Status, and Temperature Includes 8 station outputs and 7 sensor inputs	CALL FOR PRICING

## Two-Way Radio Satellite

Part	Description	List (ea)
300-016P6R3A	*16 Station Elec. Satellite w/Radio	CALL FOR PRICING
300-048P6R3A	*48 Station Elec. Satellite w/Radio	
300-016P6R4A	*16 Station Elec. Satellite w/Radio	
300-048P6R4A	*48 Station Elec. Satellite w/Radio	
*Satellites expandable with the following parts		
118-6370SK	16 Station Module	CALL FOR PRICING
118-6032SK	(M3) Board, No Surge	
118-3047SK	(M4) Board with Gold Level Surge	



# GOLF CONTROL SYSTEMS

**TORO**

## OSMAC G4 Satellite

- Low cost wireless communication
- Easily expandable
- Lower operating costs
- Stand-alone capabilities include scheduled irrigation programs, manual program start and station multi-manual
- Received Signal Strength Indication (RSSI) at the satellite faceplate aids in system installation and troubleshooting
- Page Log records the last 100 commands received by each satellite
- Improved radio performance helps overcome difficult environmental conditions
- Available as complete satellites and an upgrade kit for existing E-OSMAC units
- **New Radio & Antenna Feature**



## Electric Radio Satellite

Part	Description	List (ea)
G4-16P6R3	*16 Station Narrow Band Electric Satellite	CALL FOR PRICING
G4-48P6R3	*40 Station Narrow Band Electric Satellite	
G4-16P6R4	*16 Station Narrow Band Electric Satellite	
G4-48P6R4	*40 Station Narrow Band Electric Satellite	
*Satellites expandable with the following parts		
118-6370SK	16 Station Module	CALL FOR PRICING
118-6032SK	(M3) Board - No Surge	
118-3047SK	(M4) Board with Gold Level Surge	



# LYNX<sup>®</sup> SMART SATELLITE

## Exceptional Control. Unmatched Reliability.

Designed to elevate irrigation management, the Toro Lynx<sup>®</sup> Smart Satellite delivers faster performance, enhanced communication, and intuitive control—making it a powerful solution for golf courses and large turf landscapes.



Designed For Performance  
**High-contrast backlit display**  
**Intuitive navigation**  
**Processor & memory for future enhancements**

Three Pedestal Colors Available  
**Custom pedestal color options help satellites blend into their natural surroundings.**

(Green, Tree Bark, and Desert Sand)





## **TORO** Control System Upgrades

### OSMAC G3 Upgrade Kit

- Stand-alone capabilities include scheduled irrigation programs, manual program start & station multi-manual
- Received Signal Strength Indication (RSSI) at the satellite faceplate aids in system installation and troubleshooting
- Page Log records the last 100 commands received by each satellite, including signal strength
- Improved radio performance helps overcome difficult environmental conditions
- Available as complete satellites & an upgrade kit for existing E-OSMAC units



Part	Description	List (ea)
118-2987	OSMAC G3 Faceplate, Interface Cable & Hardware	CALL FOR PRICING

### LTC Plus Upgrade Kit Options

Available as an upgrade kit for existing LTC Plus satellites. Upgrade kit includes Network VP Faceplate, Network LTC Plus To Network VP Power Distribution Board, Cable and Hardware.

- Station based flow management shortens watering window
- Intuitive user interface simplifies manual irrigation
- Station runtimes executed to the second helps save water
- Upgrade to Lynx for enhanced central capabilities (requires all satellites to be upgraded)



Part	Description	List (ea)
118-0038	Kit, Upgrade, Network VP	CALL FOR PRICING

### LTC Pro Upgrade Kit

Available as complete satellites or upgrade kit for existing LTC Plus satellites. Upgrade kit includes LTC Pro Faceplate, Power Distribution Board, Cable and Hardware.

- Intuitive user interface simplifies faceplate functions
- Enhanced manual operations (Runtimes to the second, stackable multi-manuals, start/pause/stop)
- Backwards compatible with SitePro®
- Can upgrade 1 satellite at a time (Full system must be upgraded prior to a Lynx upgrade)



Part	Description	List (ea)
118-4838	LTC Pro Upgrade Kit	CALL FOR PRICING



**TORO.**



### OSMAC RDR Retro-Fit Kit

- Can be mounted to existing electromechanical pedestal or wall mounted
- Can be used with a SitePro or Lynx
- Expandable modular design



Part	Description	List (ea)
RDR0160LVN0	16 Station Narrow Band RDR 16	CALL FOR PRICING
NLN3491A	8 Station Expansion Module	
NPN8010	24Vac to 120Vac Transformer	

### Hydraulic Converters

- Converts electric station output to existing hydraulic system
- Available in 4, 12 and 16 station converter



Part	Description	List (ea)
EHC-01-04	4 Station N.O. Hydraulic Converter	CALL FOR PRICING
EHC-01-12	12 Station N.O. Hydraulic Converter	
EHC-01-16	16 Station N.O. Hydraulic Converter	

### TORO Two-Wire Modules and Switches

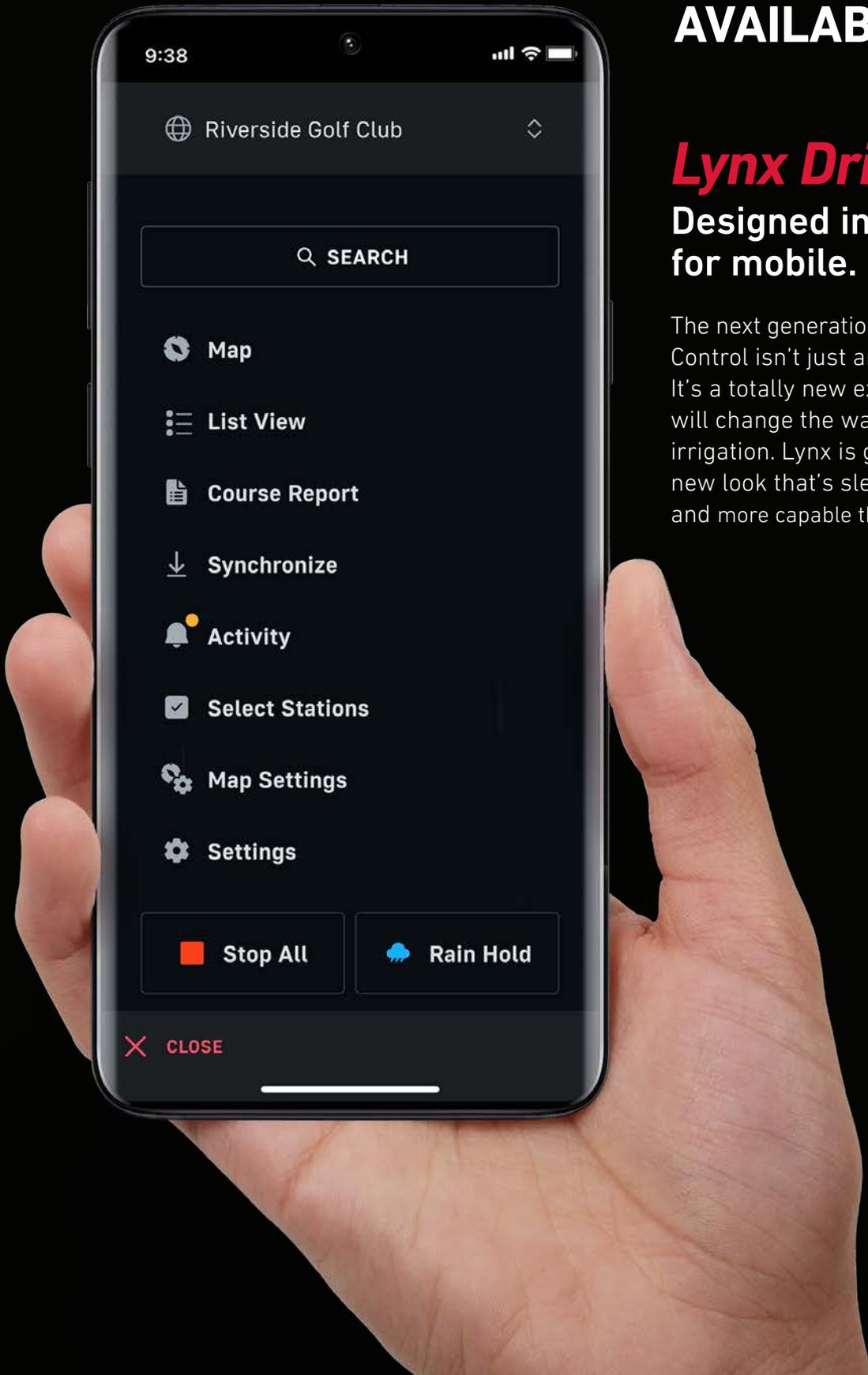
- 2-wire operation provides superior surge/lightning protection
- Available for AC and DC systems in 1, 2, and 4 stations
- Built-in diagnostics with LSM

	Part	Description	List (ea)
	DEC-ISP-1	(DC) Two-Wire 1-Station Module	CALL FOR PRICING
	DEC-ISP-2	(DC) Two-Wire 2-Station Module	
	DEC-ISP-4	(DC) Two-Wire 4-Station Module	
	DAC-ISP-1	(AC) Two-Wire 1-Station Module	
	DAC-ISP-2	(AC) Two-Wire 2-Station Module	
	DAC-ISP-4	(AC) Two-Wire 4-Station Module	
	DEC-SG-LINE	Solenoid Surge Protector	
	270DCFD1	Inline Switching Device	
	270DCFD	2-Way Switching Device	
	270DCFD3	3-Way Switching Device	
	LSM-1	Lynx Smart Module	
	118-7149SK	Lynx Smart Module Kit with Solenoid	
	118-0841SK	Toro Two-Wire Module & Switches	

**AVAILABLE NOW!**

***Lynx Drive***  
**Designed intentionally  
for mobile.**

The next generation of Lynx Central Control isn't just another update. It's a totally new experience that will change the way you manage irrigation. Lynx is getting a fresh new look that's sleek, streamlined and more capable than ever.

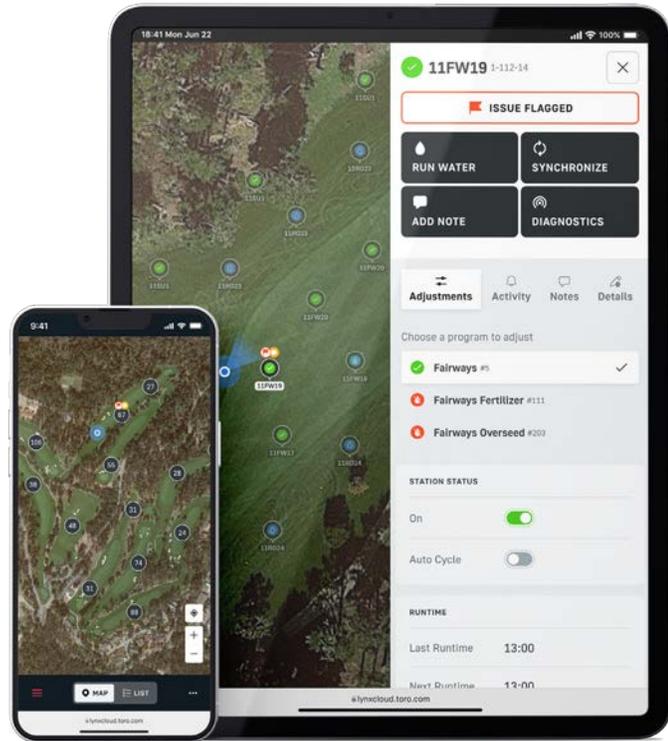


## MANAGE FROM THE MAP

With Lynx Drive, you can make changes right from the map. There's no need to go to a different screen.

## CLEAN, SIMPLE AND INTUITIVE.

See what you want to see. Do what you need to do. All the Lynx essentials are at your fingertips, re-imagined to work beautifully on your phone.

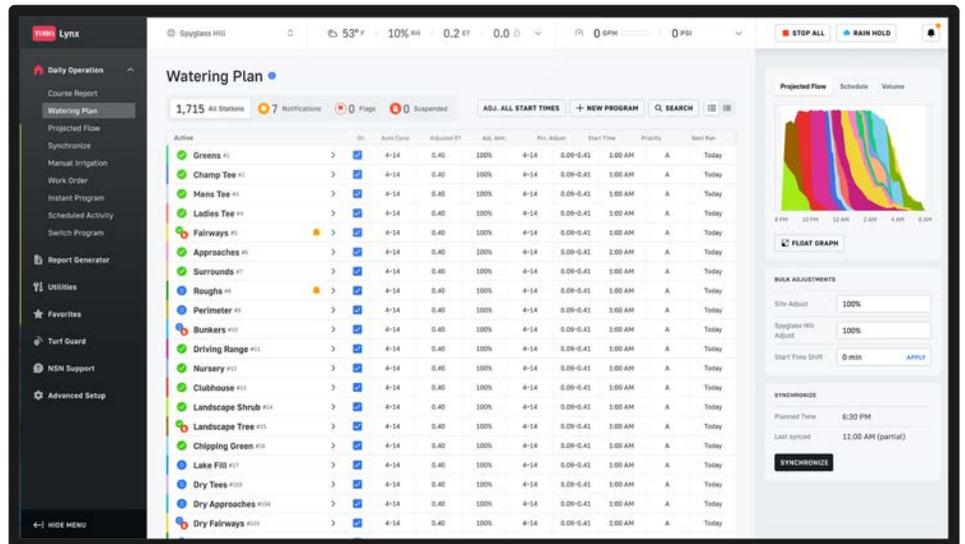


## NEED IT? NOTE IT!

Spot something that needs attention on the course? Flag it, snap a photo and add Smart Notes on the fly. It's easy to track what needs to be done and communicate with your team.

## EASY, FAST AND FREE.

No database work or hardware upgrade required. If you're an NSN® subscriber, this will be a free update – just like all previous Lynx updates.



## ACCESS FROM EVERYWHERE, EVOLVED.

Building on the Lynx system's cloud-based access, Lynx Drive gives you seamless irrigation control with the ease of using your favorite apps.



# FIELD CONTROL SYSTEMS

## WATER AS EXPECTED, EVEN WHEN THE UNEXPECTED HAPPENS.

Smart Satellites and Smart Hubs can store and run a fully flow-managed program from the field if the central control temporarily goes offline. And Lynx Smart Modules add best-in-class precision to each sprinkler.

### Lynx Smart Satellite

Integrates seamlessly with Lynx Central Control or can function as a stand-alone controller. Offers two-way wired or wireless communication. Each satellite can run 16 to 64 stations in 16-station increments (up to 32 stations simultaneously). Plus, custom pedestal color options coordinate with the natural environment.



### IN-FIELD MANUAL OPERATION

Intuitive display allows operation or troubleshooting at the satellite.



### INTEGRATES WITH SENSORS

Creates a convenient connection point for soil, flow and status sensors.

### Lynx Smart Hub

Enables two-wire control of up to 1,000 sprinklers per Smart Hub, blending the flexibility of a satellite with the cost savings of a two-wire/decoder system. Simplifies maintenance by segmenting the system into manageable areas.

### Lynx Smart Module

Available for INFINITY and FLEX800 sprinklers. Enables high-speed diagnostics and the ability to fine-tune watering to a precise amount. Also allows for easy upgrades without digging up your course.



### UPDATE WITHOUT DIGGING OR TURNING OFF WATER

Perform software upgrades remotely with the click of a button from Lynx Central Control.



## Sensor Input Board Kits

The Sensor Input Kit is a tool for delivering important field data into the Lynx Central Control System. Field sensor data can provide valuable information to enhance daily decision-making. When configured with sensor alarms Lynx can generate automatic responses to changes in the irrigation system or the weather and adjust the irrigation schedule in real-time based on field conditions. The two new TORO sensor kits (Temp and Pressure) offer turnkey compatibility with the Sensor Input Kit for Network VP & VPe and the Sensor Input Kit for Lynx Smart Satellite. (Sensor inputs coming soon for the Smart Hub)

For VP & VPE Satellite



1 of # 118-5487SK  
3,388.00 List



1 of # VP-SEN-BRD-KIT  
2,358.00 List



For Lynx Smart Satellite

5,144.00 List



1 of # SMRT-SEN-BRD-KIT

## Approved Sensors

Pressure Sensor	Part #	List (ea)	Rain Gauge	Part #	List (ea)
	PRESS200-SEN-KIT Toro Pressure Sensor Kit: 0 – 200 PSI	2,506.00		TE525-ET Campbell Scientific Tipping Bucket	2,315.00
Temperature Sensor	Part #	List (ea)	Shield	Part #	List (ea)
	TEMP-SEN-KIT	595.00		7714 Davis Radiation Shield	580.00
Flow Meter	Part #	List (ea)	Flow Sensor	Part #	List (ea)
	FS-INSERT-B Data Industrial Series 2	3,007.00		FS-B100 (1")	2,714.00
				FS-B150 (1.5")	3,076.00
				FS-B200 (2")	3,605.00
				Irritrol T-Type Series	
Any Contact Switch or Relay Compatible with 12 VDC supplied by Sensor Kit					

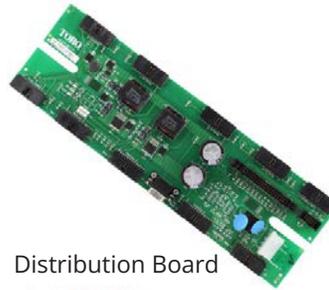


# GOLF CONTROL SYSTEMS

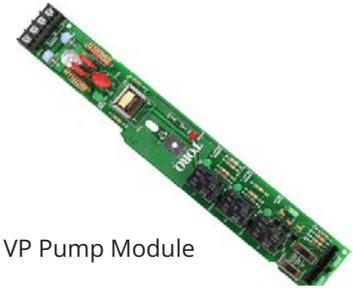
## \* VP & VPE



Timing Mech R102-3497 VP  
R102-9738 VPE



Distribution Board R102-2782 Horizontal  
R118-2737 Vertical



VP Pump Module R102-3015

## RDR-OSMAC



RNLN3485  
Osmac Decoder Board



R102-2012  
Narrow Band RDR Decoder Module

## GOLD SURGE

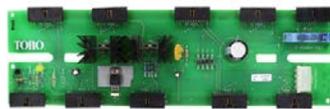


R89-8589  
Gold Level Surge Board

## E-OSMAC



R102-0187  
Narrow Band Decoder Module



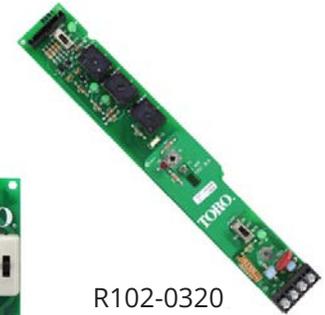
R102-0318  
Distribution Board



R102-2549  
\* Also used on VP & VPE  
8-Station Output Board



R102-8390  
\* Can also be used on VP & VPE  
M4 Surge Board (Lead Free)



R102-0320  
Pump/Common Module

## LTC Plus



Timing Mech

R102-0238



Distribution Board

R102-0612



Pump/Common Board

R102-0682



8-Station Output Board

R102-0681

For more information, visit: [www.toro.com/controllerrepair](http://www.toro.com/controllerrepair)



## Board Exchange Program

- Over-the-counter exchange of controller components
- All components reconditioned to TORO specifications
- 6 month warranty on all replacement parts



R102-0106  
Universal  
Modem

Controller	BEP Part#	Description	Controller	BEP Part#	Description	
NETWORK VP & VPE LTCPRO	R102-3497	VP Timing Mechanism	Smart Satellite	R118-6363	Timing Mechanism	
	R102-2549	8 Station Module		R118-3045	Power Distributor Board	
	R118-2737	Vertical Power Board		R118-6369	Pump Common	
	R102-9738	VPe Timing Mechanism		R118-6370	Output Board	
	R102-2782	Power Distribution Board		R118-3705	Modem	
	R102-3015	Pump Module		R118-6133	Radio RAVEON	
	R102-3125	Radio Adaptor Board		R118-3339	Radio Interface	
	R363-4638	Maxon Radio		R118-3047	Output Assy. M4	
OSMAC	RNLN3485	Decoder Board		Smart Hub	R118-6034	Output/Pump M4
	RNLN3491A	Triac Board			R118-4728	Timing Mechanism
	R102-2012	Narrow Band Decoder	R118-0582		Mother Board - Gateway	
E-OSMAC	R102-0187	Narrow Band E-Osmac Decoder	R118-0584		Daughter Board - Gateway	
	R102-0320	Pump & Common PCB	R118-7096		Mother Board - Hub	
	R102-2549	8-Output Module PCB	R118-7097		Daughter Board - Hub	
	R102-0318	Output Distribution PCB	R118-6133		LSH Radio Module Assy	
	R102-8390	M4 Surge Board (Lead Free)	GDC 2 Wire		R102-7696	Mother Board - Green
	R89-9896	Earth Ground Bus Bar			R102-7693	Daughter Board - Green
	R89-9894	24Vac Bus Bar			R102-5918	Stand Alone TM
OSMAC G3	R118-2986	Timing Mechanism		R118-0582	Mother Board - Blue	
	LTC 1.1	R91-0537	Timing Mechanism with Terminal	R118-0584	Daughter Board - Blue	
LTC 2.0		R91-0777	Modem Board	R118-4728	Smart Hub TM	
	R89-7169	Timing Mechanism	Modem	R102-0106	Universal Modem	
	R89-6977	Back Plane	SPU	R35-7899	Surge Bd.	
	R89-7170	Output Module	Gold Surge	R89-8589	Pump & Common Surge	
	R89-7171	Pump Common Module	A credit will be applied to your account when your Defective Board is returned to us within 45 days of receiving the refurbished board.			
LTC 4.0	R102-0238	LTC V4.1 TM				
	R102-0681	8-output module				
	R102-0682	Pump Common Module				
	R102-0612	Distribution Bd.				
	R102-9124	LTC-VP Distribution Brd.				
	R89-8521	M4 Surge Bd				
Vari-Time	ELECMECHFP	30 Min Syringe TM (120V)	<b>Contact Your Service Technician</b>			
VT II	R9-5128	Central Timer	Neil Juniper	416-606-9907	neil.juniper@turfcare.ca	
	R9-7624	Receiver Assembly	James Horvath	905-490-0278	james.horvath@turfcare.ca	
VT 4	R35-6220	VT 4 TM	Ryan Smith	647-381-0926	ryan.smith@turfcare.ca	
NW8	RTM N8K	Timing Mechanism	Jeremy Phillips	416-347-4601	jeremy.phillips@turfcare.ca	
	R35-6166	Power Supply	Eric Rondeau	514-248-9020	eric.rondeau@turfcare.ca	
	R35-8646	Modem Board	Gord Johansson	506-378-9848	gordon.johansson@turfcare.ca	
			Darcy Bluethner	613-407-4678	darcy.bluethner@turfcare.ca	
			Jesse Booker	416-606-9908	jesse.booker@turfcare.ca	
			Mike Olizarevitch	905-751-8284	mike.olizarevitch@turfcare.ca	

Availability May Change Without Notice.



# LYNX® SMART FIELD INTERFACE



Introducing the next generation radio field interface from Toro®. Leveraging ethernet connectivity, the Lynx Smart Field Interface (LSFI) can be easily located anywhere there is a LAN connection. Additionally, the color touch screen makes set up and use easy and intuitive. This new field interface combines the functions of the OSMAC® base station and hand-held remote interface (HHRI) into one unit. The LSFI is available in a dual radio configuration that performs both Base Station and HHRI functions or a single radio configuration that is programmable for either function. The LSFI is compatible with legacy Toro systems as well as ideal for new system designs.

## FEATURES & BENEFITS

- New ethernet connectivity allows for remote locating of device to maximize radio performance
- Large color touch screen with intuitive graphic user interface simplifies navigation to common actions
- Provides control of your system while you're on the go
- Provides both hand-held control and central-to-satellite communication
- Designed to operate continuously, 24/7 to keep your system reliable
- Interfaces with Lynx® Central Control software without the burden of recurring network costs
- Tailored to fit your application with programmable selections for:
  - OSMAC Base Station and hand-held remote interface modes
  - Independent transmit/receive UHF frequencies
- Functions as a replacement for all applications of RIU and older OSMAC base stations



### Specifying Information—Lynx Smart Field Interface

Model	Description	Replaces
LSFI-K	Lynx Smart Field Interface – Single Radio	RIU-01
LSFI-KK	Lynx Smart Field Interface – Dual Radio	RIU-02

**Note:** FCC license required.  
**Please contact your local Turf Care Sales Rep if you are interested in Lynx Smart Field Interface.**



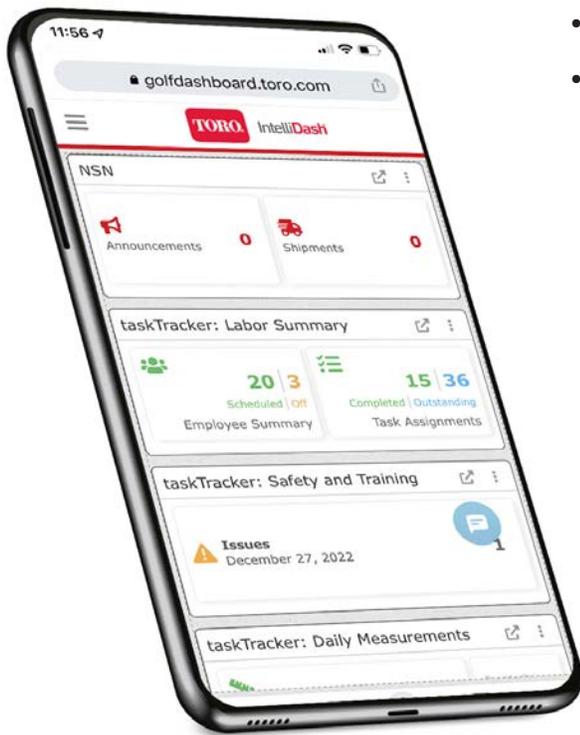
Scan QR to  
Learn More:

# INTELLIDASH® – One Streamlined Dashboard

## IntelliDash®

### View current and forecasted weather conditions

- Local and On-site Weather Conditions
- Weather Radar Mapping
- 7-day ET Forecasting
- Frost Warning



- ✓ Simplify course operations
- ✓ Gain efficiencies
- ✓ Better allocate resources
- ✓ Keep an eye on what's important anywhere, anytime

### Specifying Information — IntelliDash

Description

Please contact your local Turf Care Sales Rep if you are interested in IntelliDash



## Golf Sprinkler Tools

	Part	Description	Pkg Qty	List (ea)
	995-100	Valve Snap Ring Pliers	1	361.52
	995-08	1" Valve Removal Tool (600, 700, 800, DT, FLEX Series)	1	363.73
	995-09	1.5" Valve Removal Tool (600, 700, 800, DT, FLEX Series)	1	320.18
	118-1844	1" Valve Insertion Tool (Infinity)	1	102.72
	118-1843	1.5" Valve Insertion Tool (Infinity)	1	108.38
	995-101	1.5" Valve Insertion Tool (600, 700, 800, DT, FLEX Series)	1	641.59
	995-76	1" Valve Insertion Tool (600, 700, 800, DT, FLEX Series)	1	571.75
	995-15	Selector Tool (Flag Key)	1	17.08
	995-55	Riser Hold Up Tool (700 Series)	1	12.59
	995-102	Riser Hold Up Tool (800 Series + DT)	1	51.54
	995-79	Nut Driver 7/16" (for Inner Nozzle) (760, 780, 800S Series)	1	92.23
	995-80	Nut Driver 1/2" (for 363-3137 Jam Nut) (760, 780, 860S, 880S)	1	99.46
	995-81	Nut Driver 9/16" (for Main Nozzle) (760, 780, 800S Series)	1	76.37
	995-99	Nut Driver 5/8" (for FLEX, DT, and 800 Series)	1	129.83
	995-105	Nut Driver 5/16" (for FLEX, DT, and 800 Series) (Trajectory Adjustment, Inner & Intermediate Nozzles)	1	68.68
	995-82	Arc Adjustment Tool, 3/32" (T-Handle Hex Wrench) (760, 780, 860, 880)	1	81.68
	995-83	Multi-Purpose Tool	1	96.78
	A-ERT	Easy Reach Key for Toro Sprinkler-Metal Shaft (10)	1	106.00
	A-SKTRB	9-in-1 Combo Tool for RB and Toro	1	91.00
	TTRC-007	*TurboTrim Golf Sprinkler Head Trimmer - 7" cutting blade Toro: 730, 760, 860, 830, 834S, DT34/35, 835, 630	1	197.00
	TTRC-008	*TurboTrim Golf Sprinkler Head Trimmer - 8" cutting blade Toro: 670, 750, 780, 854, 855, 880, DT54/55, 650, Infinity Series	1	197.00
	TTRT-100	* Handle (Not included with above)	1	527.00

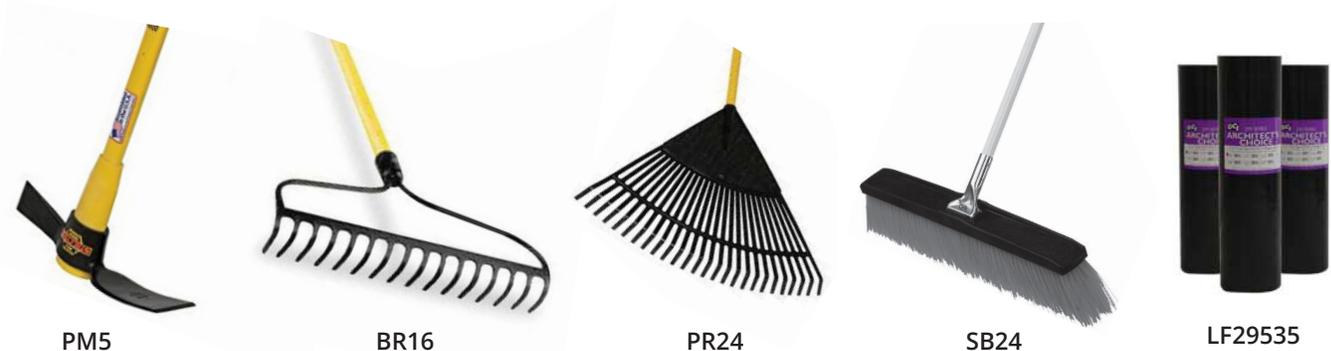


## Landscape Tools

Part	Description	Pkg Qty	Net (ea)
S600	Round point shovel	1	66.00
S601	Square Point shovel	1	66.00
S702	5" trenching shovel	1	76.00
S703	4" trenching shovel	1	76.00
S604	Drain spade	1	74.00
S605	Garden spade	1	60.00
S605D	Garden spade, 'D' handle	1	61.00
S708	3" cleanout shovel	1	77.00
S709	4" cleanout shovel	1	77.00
PM5	Pick	1	54.00
TP8	8" x 8" Tamper	1	106.00
SB24	Street broom	1	86.00
PR24	Leaf rake	1	52.00
BR16	Bow rake	1	60.00
PS200	18" snow scoop	1	60.00
PP100	24" snow pusher	1	65.00
LF29535	Landscape Fabric 3' x 50'	1	25.00



S600      S601      TP8      S604      S605      S702      S708      S605D



PM5      BR16      PR24      SB24      LF29535



## Electrical Troubleshooting

	Part	Description	Net (ea)
	P521	Wire, Pipe, Solenoid Locator	1,438.00
	P2003	Ground Fault Locator	2,186.00
	P24BK	Station Master Pro Kit Wire Locator chatter mode assists in finding valves	364.00
	PRO95	RMS Advanced Leakage Multimeter	485.00

## Miscellaneous Tools

	Part	Description	Pkg Qty	Net (ea)
	TSP-SS18	18" Easy Reach Soil Core Sampler, 7/16	1	42.85
	48072	36" x 72" Syphon King Pump	1	65.00
	A-G12S-C	Gulp Pro Syringe	1	59.00
	TK300	Turf Knife	1	18.43
	WIRE STRIPPER	Wire Strippers	1	34.27
	GS13	13" Hand Saw	1	31.76
	BGS13	Replacement Blade	1	26.79
	DM-200A	Digital Multimeter 750Vac	1	452.62
	DBH15	Dead Blow Hammer	1	29.31
	GJP120	Adjustable Wrench	1	41.10
	I-TOOL	Irrigation Multi-Tool	1	95.78
	P200EP	Inductive Amplifier	1	104.00
	RS32	Rope Saw	1	10.00
	FLAGS	Toro Marking Flags (Sold in bundles of 100)	1	0.39



### Spectrum Tools

#### TDR 350 Soil Moisture Meter with case

Manage water responsibly and reduce operating expenses.



#### WatchDog 2910ET Lynx Compatible

Full-featured weather station measures temperature, humidity, rain, wind and solar radiation.

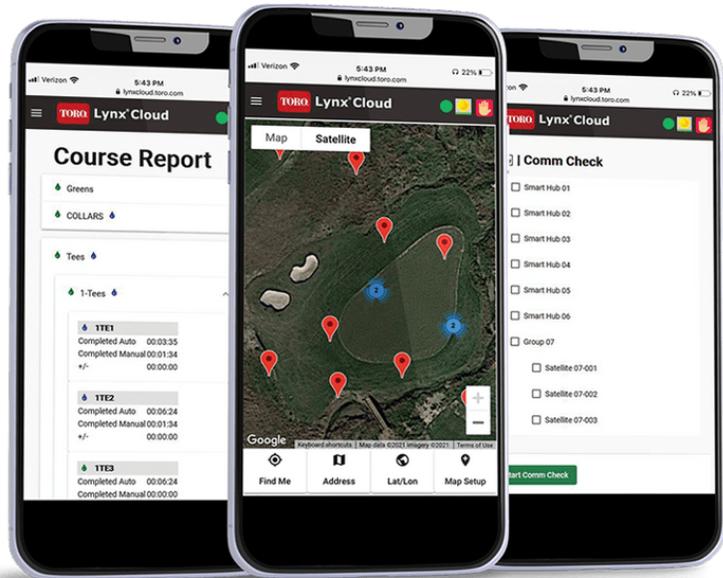
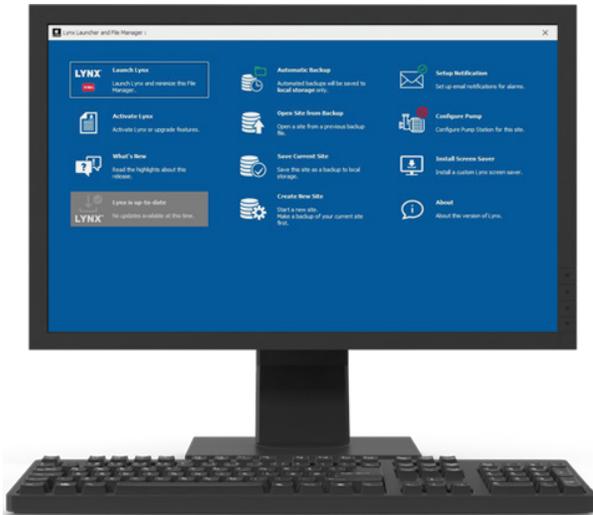


	Part	Description	Pkg Qty	NET
	6435	TDR 350 Soil Moisture Meter w/case	1	2,861.00
	6490S	Turf Firmness Meter	1	2,529.00
	3000ET	WatchDog Wireless ET Pup Station w/built-in Solar Panel	1	4,200.00
	3910T	WatchDog Toro Retriever for Lynx (base station for radio communication)	1	2,074.00
	3654P9	Spec 9 Software	1	323.00

### TDR Rods

	Part	Description	NET
	6428FS4	Two 1.5" Rods	133.00
	6429FS4	Two 3" Rods	133.00
	6431FS4	Two 4.8" Rods	142.00

# TECHNICAL SUPPORT



## TECHNICAL SUPPORT SERVICES

### LYNX CENTRAL DATABASE SERVICES

Database creation, adjustments, troubleshooting & map services.

### CENTRAL CONTROL INSTALLATION & TRAINING

Installation of central control hardware & two hours of training for you and your staff (up to one day included).

### SYSTEM MAINTENANCE & TROUBLESHOOTING

Hourly service for troubleshooting, wire & fault locates, ground testing, radio signal quality survey, system updates and upgrades.

### INSTALLATIONS, REPAIRS AND SERVICE

*(CONTACT YOUR REPRESENTATIVE)*

Weather Stations	GPS Data Collection of Course & Irrigation Features	Project Planning & Installation Assistance
Lightning Protection/ Warning Systems	Otterbine Fountain & Pond Aerator Service & Troubleshooting	Board Exchange Programs (BEP)



## **BLOWOUT KIT RENTALS**

**Rate: \$595.00 up to 3-day rental  
or purchase your own kit \$1295.00**

*Contact your service tech or sales rep  
to book your appointment.*

### **CONTACT YOUR SERVICE TECHNICIAN**

Neil Juniper	416-606-9907	neil.juniper@turfcare.ca
James Horvath	905-490-0278	james.horvath@turfcare.ca
Ryan Smith	647-381-0926	ryan.smith@turfcare.ca
Eric Rondeau	514-248-9020	eric.rondeau@turfcare.ca
Alain Lavoie	418-928-3803	alain.lavoie@turfcare.ca
Gord Johansson	506-378-9848	gordon.johansson@turfcare.ca



# PURELY BEAUTIFUL WATERWAYS

Natural Water Quality Management Solutions

## Control Algae Eliminate Odours Avoid Fish Kills

For over 50 years, Otterbine continues to manufacture the highest quality, most reliable and cost efficient aeration systems to manage your pond and lake's water quality. Offering the industry's **ONLY all-inclusive** 5-year warranty on our 1 to 5HP Aerating Fountain line, be secure in your decision when choosing from a variety of interchangeable patterns.

Otterbine's product line consists of Surface & Sub-surface Aeration Systems, Giant & Instant Fountains, Fountain Glo™ Lighting & Lake Dye.



Visit Otterbine's website for more information

Contact your Turf Care Products Canada representative today to learn more about Otterbine's complete line of aeration & fountain systems.

Turf Care Products Canada is an authorized Otterbine Sales Service Centre.

## Otterbine Aerating Fountains AERATORS BUILT TO LAST

Decorative and functional above-surface spray fountains are available in a wide variety of patterns. The spray inhibits insects' ability to nest and lay eggs by disturbing the water's surface and reducing the risk of mosquito borne ailments.

- Available in 1/2 - 5 HP and 10 - 25 HP models
- Adds oxygen and circulates water to treat poor water quality
- Lighting packages available to extend your enjoyment into the evening
- Some models can operate in as little as 30"
- Heights from 1 1/2' to 34'
- Wide variety of patterns and sizes available
- Diffused air systems available



Gemini



Tristar



Rocket



Omega



**GET THE MOST OUT  
OF YOUR FOUNTAIN  
YEAR AFTER YEAR!**

**OTTERBINE  
FOUNTAIN PROGRAM**

Just **\$725**

**Complete Winter Maintenance & Service  
Plus Warranty for the Upcoming Season\***

**PROGRAM INCLUDES:**

- ✓ Pickup and return of fountain
- ✓ Integrity check of fountain cable
- ✓ Panel inspection
- ✓ Oil change
- ✓ Seal integrity check
- ✓ Cleaning and descaling
- ✓ Vacuum test of unit
- ✓ Electrical health check
- ✓ Full season warranty (regardless of age)



**\*PROGRAM ELIGIBILITY:** In order to be eligible for the program, a fountain standards check must first be completed. A quote will be provided for any additional work required to bring unit up to standards. Initial standards check will only be required once in order to participate in the program. Cable and panel are excluded from warranty. Lightning strikes and improper electrical termination will void warranty.

**Fountain must be removed from water and disconnected from float.**



**Contact the Golf Irrigation Team Today:**

[golfirrigationorders@turfcare.ca](mailto:golfirrigationorders@turfcare.ca)  
[neil.juniper@turfcare.ca](mailto:neil.juniper@turfcare.ca)

905-836-0988 x7088  
416-606-9907



# AUXILIARY PRODUCTS



## Now Part of the Turf Care Group of Companies

We are pleased to announce that we have expanded our product and service offerings to now include pump station sales, installation, and service. We look forward to continuing our long-term partnership with Steve Wilkinson and welcome the entire Pumps Plus team to the Turf Care family!

**Pump Station Sales | Installation | Service**



Where Innovation Meets Tradition



Let us show you an easy and affordable path to the latest in irrigation technology. Inquire about our flexible financing options.

Get in touch with your local Pumps Sales & Service Representative

[kory.kopko@turfcare.ca](mailto:kory.kopko@turfcare.ca) | 343-550-7354 | [turfcare.ca](http://turfcare.ca)



**TURF CARE**  
Helping your business grow.

@Gr8estShowOnTRF

@TurfCareProdCA

**Lynx Central Control enables the integration of other critical systems to manage your irrigation system with unparalleled performance, unmatched efficiency and the most comprehensive data access in the industry.**

### Turf Guard Wireless Moisture Sensor

- Get current conditions and historic trends
- Understand where you are now, how you got there, and where you are going
- Make databased irrigation decisions

### Pump Stations

- Integration with an MCI/Flowtronex pump station panel enables Lynx Power Guard feature to track and control electricity usage of the system
- Connects to pump station flow sensors to detect unanticipated flow, such as a pipe break, and send out alarms
- Lynx can recalculate run times with the loss of a pump
- Actual pump station flow and Lynx projected flow can be displayed simultaneously for the last 7 days
- Lynx allows user-defined responses to pump station alarms
- Interface with up to 10 pump stations

### Weather Stations

- Use the weather data for irrigation scheduling
- Monitor and respond to rain fall by adjusting run-times or suspending irrigation all together
- Works with either Campbell Scientific or Spectrum Technologies

### Flow Sensors

- Monitor flow amounts against what Lynx has scheduled to ensure pipe breaks do not go undetected
- Dial in the sprinkler performance data to manage water utilization
- Works with Toro, Bermad or Data Industrial



# WXLINE



## Strike Guard Lightning Warning System

Part

SG001

Strike Guard Sensor, mounting hardware, and tripod (not shown);

Lightning Data Receiver with alarms, relays, battery back-up and PC-ready output, 30-meter simplex fiber-optic cable, and USB memory stick with User's Guides (not shown).



## Warning Systems

- Wireless activation from up to 2 miles away
- Programmable hours of operation
- Multi-stage strobe and audible notification
- Strobe-less and Strobe-only options available
- Many strobe colors available
- AC-powered or Solar-powered options available
- Adjustable horn volume

## Wxline Equipment Indoor Bulkhead w/ PC



Part

WXEIB-PC

Strike Guard Lightning Data Receiver and WAVE Transmitter are installed in WxEIB with Wxline PC mounted on door for Strike View Software oversight. Includes complete lightning protection for incoming conductors and power supply. Pre-assembled with the latest Microsoft Windows and Strike View Software installed on PC for turnkey use.

**TORO.**



## Advanced Exchange

An Advance Exchange may be purchased at any time so long as the Wxline Service Terms and Conditions are met.

An Advance Exchange enables the owner to exchange old equipment for equipment of the latest factory standard.

When the customer decides it is time to swap old equipment out, Wxline will ship the new equipment along with a box with return label. Equipment is swapped on-site to minimize downtime. Old equipment is shipped back to Wxline.

Part
SG-AE
WAVE-TR-AE
WAVE-SS-AE
WAVE-PS-AE
WX-PC-AE

## Factory Service

Basic Factory Service includes minor repairs. Additional charges may apply based on condition of equipment.

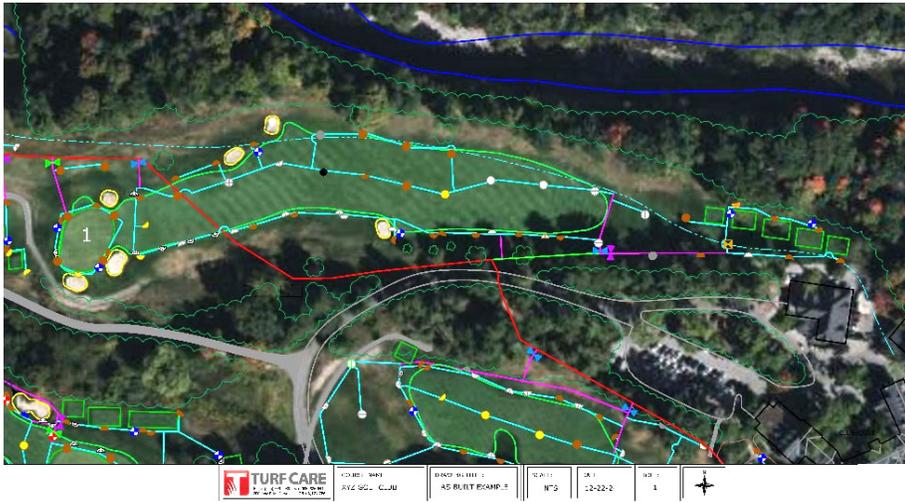
All Strike Guard factory service work includes upgrades to current software and hardware standards.

To minimize downtime, please notify Wxline prior to sending equipment in need of service to allow the Wxline Service Department to schedule the repair. Provide detailed information regarding the nature of system problems when contacting Wxline.

Part
SG-SVC
WAVE-TR-SVC
WAVE-SS-SVC
WAVE-PS-SVC
WX-PC-SVC



## AUTOCAD SERVICES AVAILABLE



### Irrigation Design

Designs are created in AutoCAD using an online map tool that improves accuracy for budget estimating.

The design drawing files can easily be used as a base for an as-built drawing after construction or prior to a phase design. New or renovation projects may include:

- Improved sprinkler head placement and uniformity with the use of coverage circles
- Pipe and wire sizing with preferred routing using online maps
- Improve efficiency and savings with new control system planning and programming
- Assists with Pump station design or performance review
- On site examination of existing system conditions and feasibility of improvements by experienced irrigation representatives
- Short or long-term phase planning
- As-Built mapping of pipe from course notes can be added to the design for the end of a project

### GPS Mapping

GPS data is collected on site then processed into AutoCAD Map3D by our technicians. The final AutoCAD file can then be exported and used as a backdrop in central control systems such as Lynx. Final scaled plots are provided for reference and planning or as the final as-built of a construction project. Options may include:

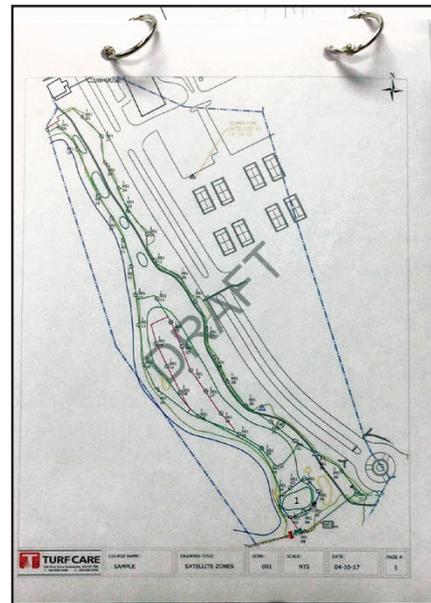
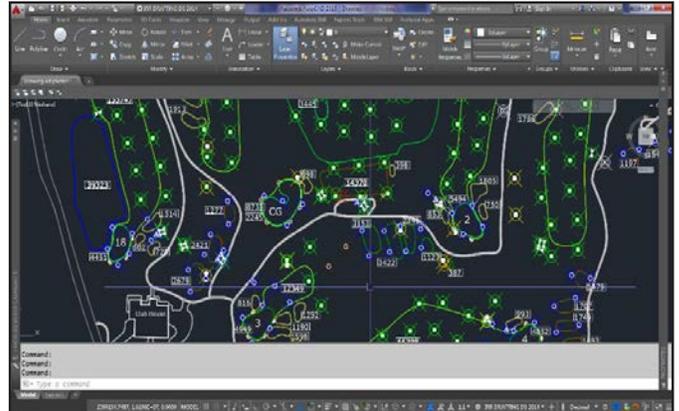
- Course features such as greens, tees, fairways, traps, small water bodies and more
- Irrigation feature or system as-builts mapped during or after installation
- Yardage plans from sprinklers to green; front middle and back
- Area maps with corresponding spreadsheet are useful for product application savings or IPM and Audubon programs

**Contact your area irrigation representative or  
send email to [golfirrigationorders@turfcare.ca](mailto:golfirrigationorders@turfcare.ca)**



## Irrigation Mapping Services with Autocad and GPS

<b>AUTOCAD DESIGN SERVICES</b>	
<b>SELECT OR COMBINE:</b>	
• Create a Base File of Course Features	
• Create a Full or Partial Irrigation Design	
• As-built From Notes with Pipe and Wire	
• Area of Course Features	
<b>MAPPING SERVICES WITH GPS</b>	
<b>STANDARD COURSE FEATURES:</b>	
• Greens, Tees and Fairways	
• Practice & Clubhouse Areas	
• Bunkers and Cart Paths	
<b>STANDARD IRRIGATION FEATURES:</b>	
• Sprinklers & Quick Couplers	
• Valves	
• Satellites / Controllers / Splice	
• Extra Features, Inquire with Sales	
<b>BOOKLETS</b>	
<b>FORMATS TO CHOOSE FROM:</b>	
Satellite Zones	Yardages Hole by Hole
Irrigation Areas	Irrigation Hole by Hole
IPM Areas	



## Durable, Dependable, Simplified... LEEMCO

Leemco is the leader in manufacturing uniquely designed products for Golf, Commercial and Municipal piping systems.

Fittings, Joint  
Restraints &  
Valves for IPS  
& C900/C905  
DPS Pipe



Our WatchDog Weather Stations can be configured to meet your needs and will keep an eye on what's happening on your golf course when you cannot be there!



Use real-time evapotranspiration (ET) data to effectively irrigate for optimum yield and quality

### INCLUDED MEASUREMENTS

- Temperature
- Relative Humidity
- Rainfall
- Wind Speed/Direction
- Solar Radiation (ET)
- Integrates With TORO Lynx Software
- **FIVE Available Sensor Ports**



**TURF CARE**

Helping your business grow.

## **IRRIGATION & LIGHTING PRODUCTS**

Landscape Irrigation | Pipe & Fittings | Landscape Lighting | Outdoor Audio



# LANDSCAPE IRRIGATION

**TORO**

**2 YEAR WARRANTY**

## NOZZLES

### 570 MPR Nozzles

Part	Description	Pkg Qty	List (ea)
SEE CHART	570 Fixed Spray Nozzles	25	5.69
TVAN-X	Toro Variable Arc Nozzles, X = 8,10,12,15,17' radius	25	6.56



#### RED – 5' Series 0° Trajectory

Noz.	PSI	GPM	Rad.	Prec. Rate	
				£	r
5-Q	30-40	0.09	5'	1.61	1.40
	40-75	0.10	5'	1.79	1.55
5-T	30-40	0.12	5'	1.61	1.40
	40-75	0.13	5'	1.79	1.55
5-H	30-40	0.18	5'	1.61	1.40
	40-75	0.20	5'	1.79	1.55
5-TT	30-40	0.23	5'	1.54	1.34
	40-75	0.27	5'	1.81	1.57
5-TQ	30-40	0.26	5'	1.55	1.34
	40-75	0.29	5'	1.73	1.50
5-F	30-40	0.35	5'	1.57	1.36
	40-75	0.39	5'	1.75	1.51

#### GREEN – 8' Series 5° Trajectory

Noz.	PSI	GPM	Rad.	Prec. Rate	
				£	r
8-Q	30-40	0.22	8'	1.54	1.33
	40-75	0.25	8'	1.75	1.51
8-T	30-40	0.29	8'	1.52	1.32
	40-75	0.35	8'	1.84	1.59
8-H	30-40	0.44	8'	1.54	1.33
	40-75	0.50	8'	1.75	1.51
8-TT	30-40	0.59	8'	1.55	1.34
	40-75	0.70	8'	1.84	1.59
8-TQ	30-40	0.64	8'	1.49	1.29
	40-75	0.70	8'	1.63	1.41
8-F	30-40	0.85	8'	1.49	1.29
	40-75	1.00	8'	1.75	1.51

#### BLUE – 10' Series 17° Trajectory

Noz.	PSI	GPM	Rad.	Prec. Rate	
				£	r
10-Q	30-40	0.33	10'	1.48	1.28
	40-75	0.37	10'	1.66	1.43
10-T	30-40	0.44	10'	1.48	1.28
	40-75	0.50	10'	1.68	1.45
10-H	30-40	0.66	10'	1.48	1.28
	40-75	0.75	10'	1.68	1.45
10-TT	30-40	0.89	10'	1.49	1.29
	40-75	1.00	10'	1.68	1.45
10-TQ	30-40	0.99	10'	1.48	1.28
	40-75	1.09	10'	1.63	1.41
10-F	30-40	1.33	10'	1.49	1.29
	40-75	1.51	10'	1.69	1.46

#### BROWN – 12' Series 24° Trajectory

Noz.	PSI	GPM	Rad.	Prec. Rate	
				£	r
12-Q	30-40	0.48	12'	1.49	1.29
	40-75	0.53	12'	1.65	1.43
12-T	30-40	0.64	12'	1.49	1.29
	40-75	0.70	12'	1.63	1.41
12-H	30-40	0.96	12'	1.49	1.29
	40-75	1.05	12'	1.63	1.41
12-TT	30-40	1.28	12'	1.49	1.29
	40-75	1.40	12'	1.63	1.41
12-TQ	30-40	1.44	12'	1.49	1.29
	40-75	1.60	12'	1.66	1.44
12-F	30-40	1.92	12'	1.49	1.29
	40-75	2.10	12'	1.63	1.41

#### BLACK – 15' Series 28° Trajectory

Noz.	PSI	GPM	Rad.	Prec. Rate	
				£	r
15-Q	30-40	0.75	15'	1.49	1.29
	40-75	0.81	15'	1.61	1.40
15-T	30-40	1.00	15'	1.49	1.29
	40-75	1.10	15'	1.64	1.42
15-H	30-40	1.50	15'	1.49	1.29
	40-75	1.65	15'	1.64	1.42
15-TT	30-40	2.00	15'	1.49	1.29
	40-75	2.20	15'	1.64	1.42
15-TQ	30-40	2.30	15'	1.53	1.32
	40-75	2 1/20	15'	1.66	1.44
15-F	30-40	3.00	15'	1.49	1.29
	40-75	3.30	15'	1.64	1.42

#### ORANGE – Special Patterns

Noz.	PSI	GPM	WxL/Larg.	Prec. Rate
4X15-EST	30-40	0.43	4' x 15'	1.38
	40-75	0.50	4' x 15'	1.61
4X30-CST	30-40	0.86	4' x 30'	1.38
	40-75	1.00	4' x 30'	1.61
9X18-SST	30-40	1.10	9' x 18'	1.31
	40-75	1.20	9' x 18'	1.43
4X30-SST	30-40	0.88	4' x 30'	1.41
	40-75	1.00	4' x 30'	1.61
2X6-SST	30-40	0.10	2' x 6'	1.38
	40-75	0.12	2' x 6'	1.10
4X18-SST	30-40	0.50	4' x 18'	1.34
	40-75	0.59	4' x 18'	1.58

**Irritrol**

### Female-Threaded Nozzle

Part	Description	Pkg Qty	List (ea)
PRO-VANxx	Adjustable nozzle PRO-VAN8, 10, 12, 15	25	5.00
IPN-xxx	MPR nozzle IPN-5Q, 5H, 8Q, 8H, 10Q, 10H, 12Q, 12H, 15Q, 15H	25	4.00



## Precision Series Spray Nozzles

- Uses 1/3 less water than conventional spray nozzles
- Delivers a 1"/hr precipitation rate



Part	Description	Pkg Qty	List (ea)
X-XOT	Toro Precision Nozzle (i.e. 5-QOT, 10-HOT etc.)	25	13.11
X-XNT	Non-Toro Precision Nozzle (i.e. 8-HNT, 12-FNT etc.)	25	13.11

Arc	PSI	GPM	Radius	Precip.Rate □(in./hr.)	Precip.Rate Δ(in./hr.)
5-60°	30	0.043	5	0.99	1.15
	40	0.043	5	0.99	1.15
	50	0.048	5.3	0.99	1.14
5Q	30	0.064	5	0.99	1.14
	40	0.065	5	1.00	1.16
	50	0.066	5	1.02	1.17
5T	30	0.09	5	1.04	1.20
	40	0.093	5.2	0.99	1.15
	50	0.099	5.4	0.98	1.13
5-150°	30	0.11	5	1.03	1.19
	40	0.12	5.2	1.04	1.20
	50	0.13	5.4	1.04	1.20
5H	30	0.13	5	1.00	1.16
	40	0.14	5.1	1.00	1.15
	50	0.14	5.2	0.99	1.14
5-210°	30	0.15	5.2	1.07	1.23
	40	0.16	5.3	1.10	1.27
	50	0.17	5.5	1.08	1.25
5TT	30	0.17	5	0.98	1.13
	40	0.19	5	1.07	1.23
	50	0.19	5	1.09	1.25
5TQ	30	0.2	5	1.00	1.16
	40	0.21	5	1.05	1.21
	50	0.22	5	1.10	1.27
5F	30	0.26	5	1.00	1.16
	40	0.26	5	1.00	1.16
	50	0.26	5	1.00	1.16

Arc	PSI	GPM	Radius	Precip.Rate □(in./hr.)	Precip.Rate Δ(in./hr.)
8-60°	30	0.11	8	1.0	1.1
	40	0.12	8.1	1.1	1.2
	50	0.13	8.3	1.1	1.3
8Q	30	0.17	8	1.0	1.1
	40	0.18	8.2	1.0	1.2
	50	0.18	8.4	1.0	1.1
8T	30	0.22	8	1.0	1.1
	40	0.23	8.2	1.0	1.1
	50	0.24	8.3	1.0	1.1
8-150°	30	0.27	8	1.0	1.1
	40	0.28	8.1	1.0	1.1
	50	0.29	8.2	1.0	1.2
8H	30	0.33	8	1.0	1.1
	40	0.34	8	1.0	1.2
	50	0.34	8	1.0	1.2
8-210°	30	0.36	8	1.1	1.3
	40	0.37	8.1	1.1	1.3
	50	0.38	8.2	1.1	1.3
8TT	30	0.44	8	1.0	1.1
	40	0.44	8	1.0	1.2
	50	0.46	8	1.0	1.2
8TQ	30	0.36	8	1.1	1.3
	40	0.37	8.1	1.1	1.3
	50	0.38	8.2	1.1	1.3
8F	30	0.44	8	1.0	1.1
	40	0.46	8	1.0	1.2
	50	0.46	8	1.0	1.2

Arc	PSI	GPM	Radius	Precip.Rate □(in./hr.)	Precip.Rate Δ(in./hr.)
10-60°	30	0.17	10	1.0	1.1
	40	0.18	10	1.0	1.2
	50	0.19	10	1.1	1.3
10Q	30	0.23	10	1.0	1.2
	40	0.28	10.2	1.0	1.2
	50	0.28	10.3	1.0	1.2
10T	30	0.34	10	1.0	1.1
	40	0.36	10	1.0	1.2
	50	0.37	10	1.1	1.2
10-150°	30	0.43	10	1.0	1.1
	40	0.44	10.2	1.0	1.1
	50	0.46	10.4	1.0	1.1
10H	30	0.51	10	1.0	1.1
	40	0.55	10.3	1.0	1.2
	50	0.56	10.4	1.0	1.2
10-210°	30	0.58	10	1.1	1.3
	40	0.6	10.4	1.1	1.2
	50	0.62	10.5	1.1	1.3
10TT	30	0.69	10	1.0	1.2
	40	0.73	10.3	1.0	1.1
	50	0.74	10.4	1.0	1.1
10TQ	30	0.79	10	1.0	1.1
	40	0.84	10.3	1.0	1.1
	50	0.86	10.4	1.0	1.1
10F	30	1.03	10	1.0	1.1
	40	1.08	10.3	1.0	1.1
	50	1.12	10.4	1.0	1.2

Arc	PSI	GPM	Radius	Precip.Rate □(in./hr.)	Precip.Rate Δ(in./hr.)
12-60°	30	0.25	12	1.0	1.2
	40	0.26	12.1	1.0	1.2
	50	0.28	12.2	1.1	1.3
12Q	30	0.37	12.1	1.0	1.1
	40	0.39	12.4	1.0	1.2
	50	0.39	12	1.0	1.1
12T	30	0.49	12	1.0	1.1
	40	0.51	12.2	1.0	1.1
	50	0.52	12.3	1.0	1.1
12-150°	30	0.62	12	1.0	1.2
	40	0.63	12.2	1.0	1.1
	50	0.64	12.3	1.0	1.1
12H	30	0.74	12	1.0	1.1
	40	0.79	12.3	1.0	1.2
	50	0.8	12.4	1.0	1.2
12-210°	30	0.82	12	1.1	1.3
	40	0.84	12.3	1.1	1.2
	50	0.85	12.4	1.1	1.2
12TT	30	0.99	12	1.0	1.1
	40	1.04	12.3	1.0	1.1
	50	1.05	12.4	1.0	1.1
12TQ	30	1.15	12	1.0	1.2
	40	1.19	12.2	1.0	1.2
	50	1.22	12.3	1.0	1.2
12F	30	1.48	12	1.0	1.1
	40	1.59	12.4	1.0	1.1
	50	1.6	12.5	1.0	1.1

Arc	PSI	GPM	Radius	Precip.Rate □(in./hr.)	Precip.Rate Δ(in./hr.)
15-60°	30	0.39	15	1.0	1.2
	40	0.4	15.1	1.0	1.2
	50	0.42	15.3	1.0	1.2
15Q	30	0.58	15	1.0	1.1
	40	0.6	15.1	1.0	1.2
	50	0.61	15.3	1.0	1.2
15T	30	0.77	15	1.0	1.1
	40	0.81	15.3	1.0	1.2
	50	0.82	15.4	1.0	1.2
15-150°	30	0.96	15	1.0	1.2
	40	1.0	15.2	1.0	1.2
	50	1.1	15.3	1.1	1.3
15H	30	1.16	15	1.0	1.2
	40	1.25	15.4	1.0	1.2
	50	1.28	15.5	1.0	1.2
15-210°	30	1.2	15	1.0	1.2
	40	1.3	15.5	1.0	1.2
	50	1.4	15.6	1.1	1.3
15TT	30	1.54	15	1.0	1.1
	40	1.58	15.2	1.0	1.1
	50	1.61	15.3	1.0	1.1
15TQ	30	1.78	15	1.0	1.1
	40	1.82	15	1.0	1.2
	50	1.9	15.3	1.0	1.2
15F	30	2.31	15	1.0	1.1
	40	2.35	15.2	1.0	1.1
	50	2.4	15.3	1.0	1.1

Arc	PSI	GPM	Radius	Precip.Rate □(in./hr.)	Precip.Rate Δ(in./hr.)
4-SST	30	0.66	4x30	1.1	1.2
	40	0.67	4x30	1.1	1.2
	50	0.68	4x30	1.1	1.3
LCS	30	0.33	4x15	1.1	1.2
	40	0.34	4x15	1.1	1.3
	50	0.34	4x15	1.1	1.3
RCS	30	0.33	4x15	1.1	1.2
	40	0.34	4x15	1.1	1.3
	50	0.34	4x15	1.1	1.3
4X18	30	0.37	4x18	1.0	1.1
	40	0.38	4x18	1.0	1.2
	50	0.38	4x18	1.0	1.2
LCS	30	0.19	4x9	1.0	1.2
	40	0.2	4x9	1.1	1.2
	50	0.2	4x9	1.1	1.1
RCS	30	0.19	4x9	1.0	1.2
	40	0.2	4x9	1.1	1.2
	50	0.2	4x9	1.1	1.2



# LANDSCAPE IRRIGATION

## NOZZLES



### MP Rotator Nozzles

- Wind-resistant multi-stream technology
- Radius can be reduced up to 25% on all models

**2 YEAR WARRANTY**



Male Thread			
Part	Description	Pkg	List
MP1000T-F	Full circle 360°, 8' - 15'	10	27.00
MP1000T-PC	Adjustable 90° - 210°, 8' - 15'	10	27.00
MP2000T-F	Full circle 360°, 13' - 21'	10	27.00
MP2000T-PC	Adjustable 90° - 210°, 13' - 21'	10	27.00
MP3000T-F	Full circle 360°, 22' - 30'	10	27.00
MP3000T-PC	Adjustable 90° - 210°, 22' - 30'	10	27.00
10562	Adjustment tool	1	1.05 NET

Female Thread			
Part	Description	Pkg	List
MP1000-F	Full circle 360°, 8' - 15'	10	24.00
MP1000-PC	Adjustable 90° - 210°, 8' - 15'	10	24.00
MP2000-F	Full circle 360°, 13' - 21'	10	24.00
MP2000-PC	Adjustable 90° - 210°, 13' - 21'	10	24.00
MP3000-F	Full circle 360°, 22' - 30'	10	24.00
MP3000-PC	Adjustable 90° - 210°, 22' - 30'	10	24.00
10562	Adjustment tool	1	1.05 NET

ARC	MP1000						MP2000						MP3000					
	PSI	Rad. Ft.	GPM	in/hr. £	in/hr. r		PSI	Rad. Ft.	GPM	in/hr.£	in/hr. r		PSI	Rad. Ft.	GPM	in/hr. £	in/hr. r	
90°	MAROON/MARRAN = 90-210°						BLACK/NOIR = 90-120°						BLUE/BLEU = 90-210°					
	25	-	-	-	-	-	25	17	0.31	0.41	0.48	25	25	0.69	0.43	0.49		
	30	12.0	0.16	0.43	0.50		30	18	0.33	0.39	0.45	30	27	0.74	0.39	0.45		
	35	13.0	0.18	0.40	0.46		35	19	0.37	0.39	0.46	35	28	0.80	0.39	0.45		
	40	13.5	0.19	0.39	0.45		40	20	0.40	0.39	0.44	40	30	0.86	0.37	0.43		
	45	14.0	0.20	0.39	0.45		45	21	0.42	0.37	0.42	45	30	0.91	0.39	0.45		
180°	MAROON/MARRAN = 90-210°						BLACK/NOIR = 90-120°						BLUE/BLEU = 90-210°					
	50	14.5	0.21	0.38	0.43		50	22	0.44	0.35	0.40	50	30	0.96	0.41	0.47		
	55	15.0	0.22	0.37	0.43		55	22	0.47	0.37	0.43	55	30	1.01	0.43	0.50		
	25	-	-	-	-	-	25	16	0.58	0.44	0.50	25	25	1.44	0.44	0.51		
	30	12.0	0.32	0.43	0.50		30	17	0.63	0.42	0.49	30	27	1.58	0.42	0.48		
	35	13.0	0.35	0.40	0.46		35	18	0.69	0.41	0.47	35	28	1.70	0.42	0.48		
210°	MAROON/MARRAN = 90-210°						BLACK/NOIR = 90-120°						BLUE/BLEU = 90-210°					
	40	13.5	0.37	0.39	0.45		40	19	0.74	0.39	0.45	40	30	1.82	0.39	0.45		
	45	14.0	0.40	0.39	0.45		45	20	0.78	0.38	0.43	45	30	1.93	0.41	0.48		
	50	14.5	0.41	0.38	0.43		50	21	0.83	0.36	0.41	50	30	2.04	0.44	0.50		
	55	15.0	0.43	0.37	0.43		55	21	0.85	0.37	0.43	55	30	2.13	0.46	0.53		
	MAROON/MARRAN = 360°						RED/ROUGE = 360°						GRAY/GRIS = 360°					
30	12.0	0.65	0.43	0.50		25	16	1.16	0.44	0.50	25	25	2.88	0.44	0.51			
35	13.0	0.71	0.40	0.47		30	17	1.27	0.42	0.49	30	27	3.15	0.42	0.48			
40	13.5	0.75	0.39	0.46		35	18	1.37	0.41	0.47	35	28	3.40	0.42	0.48			
45	14.0	0.80	0.39	0.45		40	19	1.47	0.39	0.45	40	30	3.64	0.39	0.45			
50	14.5	0.84	0.38	0.44		45	20	1.56	0.38	0.43	45	30	3.86	0.41	0.48			
55	15.0	0.87	0.37	0.43		50	21	1.64	0.36	0.41	50	30	4.07	0.44	0.50			
						55	21	1.70	0.37	0.43	55	30	4.27	0.46	0.53			

# NOZZLES



## Precision Series Rotating Nozzles

- Only two male-threaded nozzles and two female-threaded nozzles are needed to cover radius range from 14-26 feet and arc range from 45-360°
- The gear drive mechanism delivers a constant speed of rotation regardless of system pressure

**5** YEAR WARRANTY

Part	Description	Pkg	List (ea)
PRN-TA	Adjustable, Toro thread	20	14.84
PRN-TF	Full circle, Toro thread	20	23.57
PRNTOOL	Adjustment tool	20	83.01

### Performance Data—Precision™ Series Rotating Nozzles

Arc	PSI	GPM	Radius	Precip. Rate □ (in./hr.)	Precip. Rate △ (in./hr.)	Rotation Speed (seconds)
45°	25	0.18	14	0.71	0.82	14.0
	35	0.25	16	0.75	0.87	13.5
	45	0.41	19	0.87	1.01	13.5
	55	0.46	20	0.89	1.02	13.0
	65	0.32	20	0.62	0.71	12.5
	75	0.35	22	0.56	0.64	12.0
90°	25	0.45	16	0.68	0.78	12.5
	35	0.54	19	0.58	0.67	12.3
	45	0.67	22	0.53	0.62	12.0
	55	0.75	23	0.55	0.63	11.8
	65	0.83	25	0.51	0.59	11.6
	75	0.89	26	0.51	0.59	11.4
120°	25	0.51	16	0.77	0.89	12.4
	35	0.76	20	0.55	0.63	12.0
	45	0.92	23	0.50	0.58	11.5
	55	1.00	24	0.50	0.58	11.3
	65	1.11	25	0.51	0.59	11.0
	75	1.18	25	0.55	0.63	10.6
180°	25	0.76	15	0.65	0.75	11.7
	35	1.04	19	0.55	0.64	11.4
	45	1.31	22	0.52	0.60	11.0
	55	1.46	23	0.53	0.61	10.5
	65	1.65	25	0.51	0.59	10.2
	75	1.77	26	0.50	0.58	10.0
240°	25	1.12	15	0.72	0.83	11.5
	35	1.45	19	0.58	0.67	11.2
	45	1.68	21	0.55	0.64	11.0
	55	1.89	22	0.56	0.65	10.5
	65	2.08	23	0.57	0.66	10.0
	75	2.25	24	0.56	0.65	9.5
270°	25	1.08	14	0.71	0.81	11.2
	35	1.37	18	0.54	0.63	11.0
	45	1.83	21	0.53	0.61	10.5
	55	2.13	22	0.56	0.65	10.0
	65	2.36	24	0.52	0.61	10.0
	75	2.61	25	0.53	0.62	9.5
360°	25	1.81	15	0.77	0.89	12.5
	35	2.35	19	0.63	0.72	12.3
	45	3.16	22	0.63	0.73	12.0
	55	3.58	23	0.65	0.75	11.0
	65	3.86	24	0.65	0.74	9.8
	75	4.18	25	0.64	0.74	9.5



# LANDSCAPE IRRIGATION

## SPRAY HEADS

**TORO**

**2** YEAR WARRANTY



**Irritrol**



### 570Z Series

- Low pressure sealing at 15 psi
- X-Flow models feature an automatic shut-off device built into the riser when the nozzle is removed or damaged
- Pressure Regulating models maintain constant 30 psi outlet pressure

#### Standard

Part	Description	Pkg	List
570Z-2P	2" pop-up	100	10.00
570Z-3P	3" pop-up	100	10.30
570Z-4P	4" pop-up	50	6.70
570Z-6P	6" pop-up	50	21.20
570Z-6PSI	6" pop-up, side inlet	50	26.70
570Z-12P	12" pop-up	25	40.30
570Z-12PSI	12" pop-up, side inlet	25	49.00

#### Pressure Regulating

Part	Description	Pkg	List
570Z-4PR	4" w/ Pressure Reg.	50	21.73

#### X-Flow

\*PR & PRX models carry a 5-year warranty.

Part	Description	Pkg	List
570Z-4PXF	4" with X-Flow	50	14.60
570Z-6PXF	6" with X-Flow	50	33.70
570Z-12PXF	12" with X-Flow	25	49.00
570Z-12PXF SI	12" with X-Flow, side inlet	25	54.50

#### Accessories

Part	Description	Pkg	List
570-6X	6" riser extender	100	6.40
570SR-18	18" stationary riser	100	10.60
570S	Shrub adapter	100	2.00
570CV	570 check valve	25	3.61

### I-PRO Series

- Riser assembly retrofits to Rain Bird 1800 Series body

Part	Description	Pkg	List
I-PRO400	4" Pop-up	50	6.00
I-PRO600	6" Pop-up	50	14.00
I-PRO1200SI	12" Pop-up side inlet	25	43.00
HS100	Shrub adapter	25	3.00

# VALVES

**TORO.**


## 220 Brass

Part	Description (inches)	Pkg Qty	List (ea)
220-27-04	1 w/ pressure regulator	5	1,073.95
220-27-06	1.5 w/pressure regulator	4	1,433.94
220-27-08	2 w/pressure regulator	2	1,589.93

## P220 Plastic



Part	Description (inches)	Pkg Qty	List (ea)
P220-26-04	1 in-line/angle	24	309.49
P220-26-06	1.5 in-line/angle	12	437.58
P220-26-08	2 in-line/angle	4	617.97
P220-26-00	3 in-line/angle	4	1,159.95

## Accessories



Part	Description	Pkg Qty	List (ea)
EZR-100	EZ-Reg pressure regulator	5	197.69
R811-24VACG	24 VAC solenoid	10	58.00
501-12ABCC	120 VAC solenoid	1	84.00

**Irritrol**
**3** YEAR WARRANTY


## 2000 Series

Part	Description	Pkg Qty	List (ea)
2400T	2400T 1" FPT x FPT	20	58.00
2400T-B	2400T 1" MPT x Barb	20	58.00
2400TF	2400T 1" FPT x FPT w/Flow Control	20	62.00
2600T	2600T 1" Angle	20	83.00
2500TF	2500T 1" FPT x FPT w/Flow Control	20	69.00

## 102P Series



Part	Description (inches)	Pkg Qty	List (ea)
102P1	1 Normally Open or Closed	1	531.00
102P1.5	1.5 Normally Open or Closed	1	611.00
102P2	2 Normally Open or Closed	1	815.00



# RESIDENTIAL ROTORS



## T5 Series

- 5" pop-up height, replaces most competitive 4" units in same footprint
- ¾" Inlet size
- Standard & low angle nozzles included
- Available with 1.5-gallon or 3 gallon nozzles pre-installed
- Order with new RapidSet option for tool-free arc adjustment



Part	Description	Pkg Qty	List (ea)
T5S-RS	Shrub model - Rapid Set	20	45.71
T5HP-RS	Hi-pop - Rapid Set	10	135.60
T5P-1.5RS	T5 with RapidSet, 1.5 gal	20	40.59
T5P-3.0RS	5" Rotor, 3.0 gallons	20	44.48
102-7714	Check valve	25	62.26



## T5 Performance Data

Nozzle/ BUSE	Pressure/ Pression	GPM	Radius/ Rayon	Prec.Rate/Pluvio. £	r
1.5	25	1.15	33'	0.20	0.23
	35	1.38	34'	0.23	0.27
2.0	25	1.45	35'	0.23	0.26
	35	1.80	36'	0.27	0.31
2 1/2	25	1.75	35'	0.28	0.32
	35	2.20	36'	0.33	0.38
3.0	25	2.20	36'	0.33	0.38
	35	2.60	38'	0.35	0.40
4.0	25	2.95	37'	0.41	0.48
	35	3.55	40'	0.43	0.49
5.0	25	3.75	39'	0.47	0.55
	35	4.50	41'	0.52	0.60
6.0	25	4.20	39'	0.53	0.61
	35	5.20	43'	0.54	0.63
8.0	25	5.75	36'	0.85	0.99
	35	7.10	43'	0.74	0.85
LOW ANGLE NOZZLES					
1.0LA	25	0.74	25'	0.23	0.26
	35	0.94	28'	0.23	0.27
1.5LA	25	1.10	27'	0.29	0.34
	35	1.35	30'	0.29	0.33
2.0LA	25	1.40	29'	0.32	0.37
	35	1.72	31'	0.34	0.40
3.0LA	25	2.20	29'	0.50	0.58
	35	2.60	33'	0.46	0.53



LEARN MORE ABOUT T5  
RAPIDSET™ ARC ADJUSTMENT





# LANDSCAPE IRRIGATION

## CONTROLLERS



### TMC-424

- Residential/Commercial
- 4 - 24 stations (modular)
- Optional accessories: PSS-KIT, TWRS, TMR-1, TFS, CL100-W
- 4 programs, 16 total start times
- Non-volatile memory
- Station run times in minutes or seconds
- Pump start/master valve settable by program and station

Part	Description	Pkg Qty	List (ea)
TMC-424-ID	Indoor/Outdoor, 4 stations	6	1,050.69
TSM-4	4 station module	1	239.99
TSM-8	8 station module	1	479.98



### TORO Evolution

- 4 - 16 stations
- Optional Smart Connector plugs in to wirelessly communicate with ET Sensor, Precision Soil Sensor & more
- Computer programmable with USB drive

Part	Description	List
EVO-4ID	4-station indoor	532.20
EVO-4OD	4-station outdoor	582.09
EMOD-4	4-station expansion module	162.64
EMOD-12	12-sta. expansion module	545.81
EVO-SC	Smart Connector	276.25
PSS-SEN	Precision Soil Sensor	290.69
EVO-WS	ET sensor	237.41
EVO-HH	Maintenance remote	212.40
EVO-AR	Auxiliary relay	343.26



### TEMPUS DC

Part	Description	List
TEMP-1-DC-L	1 station controller with display	505.38
TEMP-2-DC-L	2 station controller with display	631.97
TEMP-4-DC-L	4 station controller with display	743.97
DCL	DC latching solenoid	113.00



## CONTROLLERS, RAIN SENSORS & BACKFLOW PREVENTORS

**K**  
RAIN.



### BL-KR

Part	Description	List
BLUE-1	1 station, irrigation controller	375.00
BLUE-2	2 station, irrigation controller	490.00
BLUE-4	4 station, irrigation controller	615.00
BL-KR6	6 station, irrigation controller	686.00

**Irritrol.**



### Rain Sensors

Part	Description	List
RS1000	Irritrol Wireless Rain Sensor	307.00
RSBATT-TX	Battery pack	23.00
RS500	Irritrol wired rain sensor	86.00



### Dual Check Backflow Preventers

Part	Description (inches)	List
BDC07	0.75 dual check	147.00
BDC10	1 dual check	160.00



# LANDSCAPE IRRIGATION

## DRIP IRRIGATION

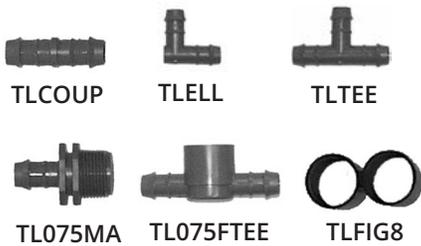


### Drip In 16mm Dripline

Part	Description	List
PCB 1853-12-500	12" spacing .53 GPH, 500'	607.00
PCB 1853-18-500	18" spacing .53 GPH, 250'	518.00
PCB 1810-12-500	12" spacing 1.0 GPH, 250'	607.00
PCB 1810-18-500	18" spacing 1.0 GPH, 250'	518.00
EHW1645-010	100' blank tubing	66.50

### DL2000 With Rootguard

Part	Description (inches)	List
RGP-412-01	12 spacing 1.0 GPH, 100'	286.29
RGP-412-05	12 spacing 1.0 GPH, 500'	849.96



### NETAFIM Fittings

Part	Description (inches)	Pkg Qty	List (ea)
TLCROSS	Cross	25	2.93
TLCOUP	Coupling	25	0.69
TLELL	Elbow	25	0.91
TLTEE	Tee	25	0.98
TL050MA	0.50 male adapter	25	1.82
TL075MA	0.75 male adapter	25	1.92
TL075FTEE	0.75 FTP combo tee	25	4.91
TLFIG8	Fig. 8 line end	25	0.65
TLSOV	Ball valve	10	12.00



## Toro Tri-Loc

Part	Description (Inches)	Pkg Qty	List (ea)
TL-M50	Tri-Loc 1/2 MPT adapter	1	3.86
TL-T-F50	Tri-Loc Tee 1/2 FTP	1	8.53
TL-CAP	3/4 MHT Cap	1	4.54
TL-C	Tri-Loc Coupling Loc x Loc	1	3.65
TL-E	Tri-Loc Elbow Loc x Loc	1	4.75
TL-T	Tri-Loc Tee Loc x Loc x Loc	1	6.68
TL-T-M50	Tri-Loc 1/2 MPT Tee Loc x Loc x Hose swivel	1	8.53
Fits 16mm to 18mm OD			

## Toro Drip Zone Kit

Includes:

- Toro Y-filter
- 1" TPV dirty water valve
- Pressure regulator



Part	Description (Inches)	List
DZK-TPV-1-MF	1 TPV, 2-20 gpm	192.00
DZK-TPV-1-LF	1 TPV, .1-8 gpm	164.05

## Hydro-Rain Drip Zone Kit

One-piece construction combines low flow irrigation valve, 200 mesh filter, and pressure regulator.



Part	Description (Inches)	List
HRZ100-30-0	1 drip zone kit	137.47
HRZ100	1 filter & regulator only	70.26

## Y-Filters



Part	Description (Inches)	List
ALFD75	0.75 disc	67.60
ALFD100	1 disc	80.90
ALFS75	0.75 screen	35.30
ALFS100	1 screen	44.20
ALFS150	1.5 screen	69.00

## Pressure Regulator



Part	Description (Inches)	List
PRV075LF20	0.75 , 20 psi	36.00
PRV075HF25	0.75 , 20 psi	40.00

20 & 45 psi models also available.



# LANDSCAPE IRRIGATION



## MICRO IRRIGATION

### MAXIJET



MSBCLP



MJBBXT6



MJBMMV9



MEB



MVB500

Nozzles		
Part	Description	List
MAU040W	40° 10.5 GPH, blue	0.66
MAU090W	90° 10.5 GPH, blue	0.66
MAU180W	180° 10.5 GPH, blue	0.66
MAU340W	340° 10.5 GPH, blue	0.66
MAG040W	40° 16.0 GPH, green	0.66
MAG090W	90° 16.0 GPH, green	0.66
MAG180W	180° 16.0 GPH, green	0.66
MAG340W	340° 16.0 GPH, green	0.66
MAR040W	40° 23.5 GPH, red	0.66
MAR090W	90° 23.5 GPH, red	0.66
MAR180W	180° 23.5 GPH, red	0.66
MAR340W	340° 23.5 GPH, red	0.66
MAG36DI	360°, 45° down, 16 GPH green	0.92
MAG3601	320°, 16.0 GPH, flat, green	0.92
MAG368X	360°, 13.5 GPH, green	3.29
Micro Spray Assembly		
Part	Description	List
MJBBXT6	Threaded adapter THD x Barb	0.62
MSBCLP	13" clip stake	2.06
MSR8	8" riser	0.42
Accessories		
Part	Description	List
MBBT	Shrub adapter	2.28
MBDADRB	Adjustable dripper, barbed	1.17
MBDAST	5" adjustable dripper stake	1.82
MEB	Vinyl collar stake assembly	0.28
MJBMMV9	Mister valve	1.75
MJBBT7	Tee	0.64
MJBBXB6	Barbed adapter	0.40
MJBTXT	Threaded adapter THD x THD	0.40
MSBBRB	13" clip stake, w/coupling	2.06
MVB500	500' vinyl tubing	278.62
MVB500BKT	Tubing in bucket	327.04
MJPPT	Pro-Punch tool	12.29 NET

## 1/4" Tubing, Fittings & Emitters



1/4" Tubing		
Part	Description (inches)	List
61071	100' vinyl distribution tubing	35.00
K010-0204	0.25 x 100' clear	22.00
SDB252-6-100	0.25 x 100' 6" spacing	126.89



Manifolds		
Part	Description	List
61005	2 port	6.00
61006	4 port, adjustable flow	25.00
61008	8 port, adjustable flow	30.00
61010	Riser adapter	6.00



DAK15

Stakes		
Part	Description	List
61268	12 90° red	4.00
67137	12 180° blue	4.00
61238	12 360° brown	4.00
61229	12 centre strip, black	4.00
67105	6 bubbler	10.00
DAK15	Varistake w/spike	1.04
10-F-01	Flag stake	18.00
T-DL-MP9	Toro Flag stake	41.60



DAK05



61032



FEE0400

Emitters		
Part	Description	List
61032	Mist sprayer	11.00
61037W	Multi stream in-line dripper	15.00
61230	Multi stream dripper	10.00
DAK05	Varis emitter	0.44
BD10	1.0 GPH, button dripper	1.00
BD20	2.0 GPH, button dripper	1.00
PC5	0.5 GPH, pressure comp. dripper	1.96
PC10	1.0 GPH, pressure comp. dripper	1.96
PC20	2.0 GPH, pressure comp. dripper	1.96
WPC10	0.5 GPH dripper	1.96



FCC0400



FTT0400

Fittings		
Part	Description	List
61051D	0.25 strap	8.00
61054D	0.25 clamp	11.00
FCC0400	0.25 coupling	0.12
FEE0400	0.25 elbow	0.24
FTT0400	0.25 tee	0.24
FPG02	Goof plug	0.24
61800	92-piece assortment	71.00



# LANDSCAPE IRRIGATION

## ELECTRICAL ACCESSORIES

### Wire Connectors

Part	Description	Pkg Qty	List (ea)
KING W	White, cal. 14-22g, 30V	25	2.71
KING W-150	White, cal. 14-22g, 30V	150	2.00
KING W-500	White, cal. 14-22g, 30V	500	1.76
KING G	Grey, cal. 12-22g, 30V	20	3.46
KING G-100	Grey, cal. 12-22g, 30V	100	2.52
KING G-500	Grey, cal. 12-22g, 30V	500	2.24
KING B	Blue, cal. 6-12g, 30V	10	4.34
316-IR	Crimp connector	30	1.92
DBR/Y-6	Cal. 10-18g, 600V splice kit	100	4.20
BVS-1	Snaploc cal. 18-20g,	25	4.27



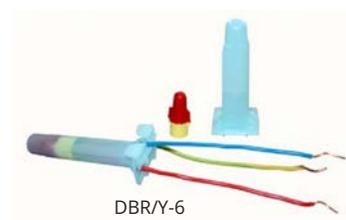
KING W



316-IR



BVS-1



DBR/Y-6

### Accessories

Part	Description (inches)	List
ELECTRICAL TAPE	0.75 x 66' electrical tape	3.92
DUCT TAPE	2 x 180' duct tape	32.68
CABLE TIES 11"	8.5" black cable ties	0.20
9VBATT	9 volt battery	3.35
WIRE STRIPPER	Ergonomic wire stripper	34.27
DWS1024SA	KwikCUT Tools - Self adjusting wire stripper	39.35
POWER	6' power supply cord	22.00



DUCT TAPE



WIRE STRIPPER



DWS1024SA

# WIRE

## Multi-Cond. Sprinkler Wire

20 Gauge		
Part	Description	List
W 20/2	2 conductors, 150m	Call for pricing
W 20/3	3 conductors, 150m	
W 20/4	4 conductors, 150m	
W 20/5	5 conductors, 150m	
W 20/6	6 conductors, 150m	
W 20/7	7 conductors, 150m	
W 20/8	8 conductors, 150m	
W 20/10	10 conductors, 150m	
W 20/12	12 conductors, 150m	
18 Gauge		
Part	Description	List
W 18/2	2 conductors, 150m	Call for pricing
W 18/3	3 conductors, 150m	
W 18/4	4 conductors, 150m	
W 18/5	5 conductors, 150m	
W 18/6	6 conductors, 150m	
W 18/7	7 conductors, 150m	
W 18/8	8 conductors, 150m	
W 18/10	10 conductors, 150m	
W 18/12	12 conductors, 150m	

## Signal and Common Wire

Part	Description	List
CTWU-14X-PE-2500	Calibre 14 gauge - spec. colour, 750m	Call for pricing
CTWU-14X-PE-1000	Calibre 14 gauge - spec. colour, 300m	
CTWU-12W-PE-2500	Calibre 12 gauge, white, 750m	
CTWU-12W-PE-1000	Calibre 12 gauge, white, 300m	

Specify colour/couleur: B: Black  
 BL: Blue  
 BR: Brown  
 G: Green  
 O: Orange  
 R: Red  
 Y: Yellow



*\*Due to market volatility, prices are subject to change.*

## BLU-LOCK PIPE & FITTINGS

**Blu-Lock™**

### 1/2" BLU-LOCK

	Part	Description (inches)	Pkg Qty	List (ea)
	37980	100' tubing	-	93.49
	37900	Blu-Lock x funny pipe	25	3.43
	37901	0.75 insert x Blu-Lock	25	3.33
	37902	1 insert x Blu-Lock	25	3.33
	37903	0.75 insert tee x Blu-Lock	25	4.33
	37904	1 insert tee x Blu-Lock	25	4.33
	37970	Elbow 0.50 MIPT x Blu-Lock	25	2.14
	37971	Elbow 0.75 MIPT x Blu-Lock	25	2.14
	37972	Elbow 0.50 FIPT x Blu-Lock	25	2.71
	37973	Elbow 0.75 FIPT x Blu-Lock	25	3.00
	37974	0.50 male adapter	25	2.28
	37975	0.75 male adapter	25	2.28
	37976	BL coupling	25	3.86
	37977	BL tee	25	5.66
	37979	Elbow swing joint adapter	25	2.71

### 3/4" BLU-LOCK

	Part	Description (inches)	Pkg Qty	List (ea)
	37382	0.75 x 100' Blu-Lock tubing	-	110.77
	37388	0.75 x 300' Blu-Lock tubing	-	300.31
	37370	0.75 BL tee	10	6.71
	37372-O	0.75 BL x 0.50 FIPT tee	10	5.36
	37373	0.75 BL x 0.50 BL tee	10	6.71
	37374	0.75 BL elbow	10	5.05
	37375	0.75 BL x 0.50 FIPT elbow	10	3.71
	37376	0.75 BL coupling	10	4.76
	37377-O	0.75 BL x 0.50 BL coupling	10	4.52
	37378	0.75 BL x 0.75 MIPT adapter	10	3.33
	37379	0.75 BL x 0.75 FIPT adapter	10	3.05
	37380	0.75 BL cap	10	3.33
	37383-O	0.75 BL x 1 MIPT adapter	10	3.33
	37387	0.75 bullhead 0.50 BL x 0.50 BL x 0.75 BL	10	7.38



## FUNNY PIPE & TOOLS

### FUNNY PIPE

	Part	Description (inches)	Pkg Qty	List (ea)
	850-25	0.50 x 100' Funny Pipe	-	100.60
	850-20	Coupling/union	25	0.44
	850-31	0.50 male elbow	25	0.27
	850-32	0.75 male elbow	25	0.30
	850-34	0.50 female elbow	25	0.51
	850-35	0.50 male adapter	25	0.42
	850-36	0.75 male adapter	25	0.53
	850-37	Tee	25	0.44
	SW1429-129	1 poly X funny pipe coupling	10	3.00
	SW1401-129	1 poly X funny pipe tee	10	4.00

### Hand Installation Pincers

	Part	Description	Net
	CT112	12" Pinch Clamp Crimping Tool	19.64
	1098	Standard jaw single action	17.80
	1098-C	Standard jaw compound action	72.00



# PIPE & FITTINGS



## CLAMPS

### Crimp Clamps



Part	Description (inches)	Pkg Qty	List (ea)
198R	0.50 standard 75	100	0.38
210R	0.50 CSA	100	0.39
256R	0.75 standard 75	100	0.41
271R	0.75 CSA	100	0.43
331R	1 standard 75	100	0.45
346R	1 CSA	100	0.47
908R-42.5	1.25 standard 75	100	1.27
908R-44.0	1.25 CSA	100	1.28
908R-50.0	1.5 standard 75	100	1.33
908R-51.5	1.5 CSA	100	1.34
908R-65.0	2 CSA	100	1.48

### Gear Clamps (Stainless Steel)



Part	Description (inches)	Pkg Qty	List (ea)
HF-SS08	1/2" stainless steel	10	3.00
HF-SS10	1/2" stainless steel	10	3.00
HF-SS12	3/4" stainless steel	10	3.00
HF-SS16	1" stainless steel	10	3.00
HF-SS20	1 1/4" stainless steel	10	3.00
HF-SS24	1 1/4", 1 1/2" stainless steel	10	3.00
HF-SS28/30	1 1/2" stainless steel	10	3.00
HF-SS32	1 1/2", 2" stainless steel	10	3.00
HF-SS36	2" Gear Clamp	10	3.00



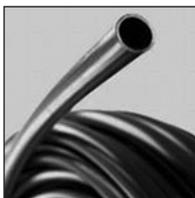
## POLYETHYLENE PIPE

### Irrigation 2000, 100 Psi



Part	Description (inches)	List
(per roll)		
PMT75007-1	0.75 x 100'	51.00
PMT75007	0.75 x 400'	204.00
PMT75010-1	1 x 100'	63.00
PMT75010	1 x 300'	189.00
PMT75012	1.25 x 300'	375.00
PMT75015	1.5 x 250'	430.00
PMT75020	2 x 100'	251.00

### CSA 75 PSI Red Stripe



Part	Description (inches)	List
(per roll)		
PC75074	0.75 x 400'	408.43
PC75103	1 x 300'	512.46
PC75123	1.25 x 300'	892.16
PC75152	1.5 x 250'	999.71
PC75201	2 x 100'	657.62

### STD. 75 PSI White Stripe



Part	Description (inches)	List
(per roll) Stocked in Montreal only,		
PS75051	0.50 x 100'	54.81
PS75054	0.50 x 400'	219.23
PS75071	0.75 x 100'	79.41
PS75074	0.75 x 400'	317.66
PS75101	1 x 100'	124.92
PS75103	1 x 300'	428.59
PS75123	1.25 x 300'	564.39
PS75151	1.5 x 100'	249.58
PS75152	1.5 x 250'	623.95
PS75201	2 x 100'	367.11



# PIPE & FITTINGS



## INSERT FITTINGS

### Insert Fittings

TEE (Insert)	Part	Description	Pkg	List	COMBINATION TEE (Insert x Insert x FIPT)	Part	Description	Pkg	List	
	1401-005	1/2"	50	3.35		1403-005	1/2"	50	4.64	
	1401-007	3/4"	50	3.65		1403-007	3/4"	50	6.32	
	1401-010	1"	25	4.72		1403-010	1"	25	8.08	
	1401-012	1 1/4"	10	7.38		1403-015	1 1/2"	10	11.80	
	1401-015	1 1/2"	10	8.36		1406-005	1/2"	50	3.05	
	1401-020	2"	10	16.53		1406-007	3/4"	50	3.73	
REDUCING TEE (Insert x Insert x Reducing Insert)	1401-074	1/2" x 1/2" x 3/4"	25	9.05		1406-010	1"	25	4.13	
	1401-101	3/4" x 3/4" x 1/2"	25	4.12		1406-012	1 1/4"	10	4.64	
	1401-102	3/4" x 3/4" x 1"	25	10.41		1406-015	1 1/2"	10	5.44	
	1401-130	1" x 1" x 1/2"	25	4.83		1406-020	2"	10	7.64	
	1401-131	1" x 1" x 3/4"	25	4.86		90° REDUCING ELBOW (Insert x Reducing Insert)	1406-101	3/4" x 1/2"	25	3.54
	1401-132	1" x 1" x 1 1/4"	25	14.54			1406-131	1" x 3/4"	25	4.36
	1401-167	1 1/4" x 1 1/4" x 3/4"	25	6.32	COMBINATION REDUCING (Insert x FIPT)		1407-005	1/2" x 1/2"	50	3.46
	1401-168	1 1/4" x 1 1/4" x 1"	25	6.32			1407-007	3/4" x 3/4"	50	3.73
	1401-209	1 1/2" x 1 1/2" x 1/2"	10	11.01			1407-010	1" x 1"	25	4.83
	1401-210	1 1/2" x 1 1/2" x 3/4"	10	11.01			1407-101	3/4" x 1/2"	50	3.54
	1401-211	1 1/2" x 1 1/2" x 1"	10	11.01			1407-130	1" x 1/2"	25	3.73
	1401-212	1 1/2" x 1 1/2" x 1 1/4"	10	11.01			1407-131	1" x 3/4"	25	4.36
	1401-249	2" x 2" x 1"	10	15.68		1407-167	1 1/4" x 3/4"	25	6.43	
	1401-251	2" x 2" x 1 1/2"	10	16.91		1407-211	1 1/2" x 1"	10	7.31	
REDUCING TEE (Insert x Insert x Reducing Insert)	1401-094	3/4" x 1/2" x 1/2"	25	4.50	COMBINATION 90° ELBOW (Insert x MIPT)	1413-005	1/2"	50	3.85	
	1401-125	1" x 3/4" x 3/4"	25	7.84		1413-007	3/4"	50	5.34	
	1401-202	1 1/2" x 1 1/4" x 1"	10	11.30		1413-010	1"	25	6.99	
COMBINATION TEE (Insert x Insert x FIPT)	1402-005	1/2" x 1/2" x 1/2"	50	3.65			1413-015	1 1/2"	10	12.35
	1402-007	3/4" x 3/4" x 3/4"	50	5.44			1413-020	2"	10	19.48
	1402-010	1" x 1" x 1"	25	6.43			1413-101	3/4" x 1/2"	10	2.79
	1402-012	1 1/4" x 1 1/4" x 1 1/4"	10	9.45			1413-130	1" x 1/2"	10	8.33
	1402-101	3/4" x 3/4" x 1/2"	25	4.50			1413-131	1" x 3/4"	10	3.40
	1402-130	1" x 1" x 1/2"	25	5.95	COMB. ELBOW W/ SIDE INSERT		1414-007	3/4" x 3/4" x 3/4"	5	9.70
	1402-131	1" x 1" x 3/4"	25	5.95			1414-101	3/4" x 3/4" x 1/2"	5	6.79
	1402-166	1 1/4" x 1 1/4" x 1/2"	25	8.08			1414-130	1" x 1" x 1/2"	5	10.45
	1402-167	1 1/4" x 1 1/4" x 3/4"	25	8.95		1414-131	1" x 1" x 3/4"	5	10.45	
	1402-168	1 1/4" x 1 1/4" x 1"	25	9.45	COMB. TEE W/ SIDE INLET	1416-007	3/4" x 3/4" x 3/4" x 3/4"	5	8.76	
	1402-209	1 1/2" x 1 1/2" x 1/2"	10	12.45		1416-101	3/4" x 3/4" x 3/4" x 1/2"	5	8.76	
	1402-210	1 1/2" x 1 1/2" x 3/4"	10	14.78		CROSS (Insert)	1420-007	3/4"	25	8.79
	1402-211	1 1/2" x 1 1/2" x 1"	10	14.78			1420-010	1"	25	10.90
	1402-248	2" x 2" x 3/4"	10	17.68						
	1402-249	2" x 2" x 1"	10	19.43						
	1402-251	2" x 2" x 1 1/2"	10	20.36						
	COMBINATION TEE (Insert x Insert x FIPT)	1402-094	3/4" x 1/2" x 1/2"	25	5.94					
1402-124		1" x 3/4" x 1/2"	25	7.42						
1402-125		1" x 3/4" x 3/4"	25	8.82						
1402-156		1 1/4" x 1" x 1/2"	25	10.93						
1402-157		1 1/4" x 1" x 3/4"	25	12.79						



### Insert Fittings

	Part	Description	Pkg	List	
<b>COUPLING</b> (Insert x Insert) 	1429-005	1/2"	50	1.57	
	1429-007	3/4"	50	1.89	
	1429-010	1"	50	1.98	
	1429-012	1 1/4"	25	2.90	
	1429-015	1 1/2"	25	3.43	
	1429-020	2"	10	6.54	
<b>POLY STRETCH COUPLINGS</b> 	PSC-07	3/4"	-	13.41	
	PSC-10	1"	-	14.42	
	PSC-15	1 1/2"	-	24.83	
<b>COUPLING REDUCER</b> (Insert x Reducer Insert) 	1429-101	3/4" x 1/2"	50	2.53	
	1429-130	1" x 1/2"	50	3.47	
	1429-131	1" x 3/4"	50	2.63	
	1429-168	1" 1/4" x 1"	25	4.13	
	1429-211	1 1/2" x 1"	25	6.24	
	1429-212	1 1/2" x 1 1/4"	25	4.86	
	1429-249	2" x 1"	10	8.82	
	1429-251	2" x 1 1/2"	10	7.81	
<b>FEMALE ADAPTER</b> (Insert x FIPT) 	1435-005	1/2"	50	6.85	
	1435-007	3/4"	50	7.42	
	1435-010	1"	50	8.21	
	1435-015	1 1/2"	25	12.79	
	1435-020	2"	10	16.27	
<b>MALE ADAPTER</b> (Insert x MIPT) 	1436-005	1/2"	50	1.56	
	1436-007	3/4"	50	1.89	
	1436-010	1"	50	1.94	
	1436-012	1 1/4"	20	3.09	
	1436-015	1 1/2"	25	3.43	
	1436-020	2"	10	6.58	
	1436-101	3/4" x 1/2"	50	4.39	
<b>RED. MALE ADAPTER</b> (MIPT x Red. Insert) 	1436-131	1" x 3/4"	50	4.50	
	1436-168	1 1/4" x 1"	25	5.73	
	1436-211	1 1/2" x 1"	25	6.99	
	1436-212	1 1/2" x 1 1/4"	25	6.99	
	1436-251	2" x 1 1/2"	10	11.75	
	1436-074	1/2" x 3/4"	50	4.86	
<b>RED. MALE ADAPTER</b> (Red. MIPT x Insert) 	1436-102	3/4" x 1"	50	5.07	
	1436-132	1" x 1 1/4"	25	6.11	
	1436-133	1" x 1 1/2"	25	9.24	
	1436-169	1 1/4" x 1 1/2"	10	9.24	
	1436-213	1 1/2" x 2"	10	11.83	
	<b>INSERT PLUG</b> (Insert) 	1449-005	1/2"	100	2.78
		1449-007	3/4"	100	2.90
1449-010		1"	50	3.90	
1449-012		1 1/4"	25	4.94	
1449-015		1 1/2"	25	5.41	
1449-020		2"	10	9.53	

### Clampless Insert Fittings

- Fits Irrigation 2000 1" pipe
- No tools or clamps required

Part	Description	Pkg Qty	List (ea)
KCC1429-010	1 coupling	10	7.00
KCMA1436-010	1 male adapt.	10	6.00
KCT1401-010	1 tee	10	10.00
KCE1406-010	1 elbow	10	9.00





# PIPE & FITTINGS

## SADDLES

### SNAP-TAP Saddles



• Only available in 75-piece plastic buckets

Part	Description	Pkg	List
SN100C	1" x 1/2"	75	6.43
SN100D	1" x 3/4"	75	8.99
SN22510	3/4" - 1 1/4" x 1/2"	75	6.74

### BLU-LOCK Saddles



Part	Description	Pkg	List
BLS75	3/4" Nitro saddle body	25	3.62
BLS100	1" Nitro saddle body	25	3.62
BLS-BL	1/2" BL Nitro saddle tap	25	3.62

### DAWN Saddles



Part	Description	Pkg	List
KT007C	3/4" x 1/2" Kwik-Tap	10	9.00
KT007D	3/4" x 3/4" Kwik-Tap	10	9.00
KT010C	1" x 1/2" Kwik-Tap	10	9.00
KT010D	1" x 3/4" Kwik-Tap	10	9.00
KT012C	1 1/4" x 1/2" Kwik-Tap	10	14.00
KT012D	1 1/4" x 3/4" Kwik-Tap	10	14.00
KT015C	1 1/2" x 1/2" Kwik-Tap	10	15.00
KT015D	1 1/2" x 3/4" Kwik-Tap	10	15.00
KT025C	3/4" x 1/2" CSA Kwik-Tap	10	9.00
KT025D	3/4" x 3/4" CSA Kwik-Tap	10	9.00
KT032C	1" x 1/2" CSA Kwik-Tap	10	9.00
KT032D	1" x 3/4" CSA Kwik-Tap	10	9.00
D75C	3/4" x 1/2"	10	9.00
D75D	3/4" x 3/4"	10	9.00
D100C	1" x 1/2"	10	9.00
D100D	1" x 3/4"	10	9.00
D125C	1 1/4" x 1/2"	10	10.00
D125D	1 1/4" x 3/4"	10	10.00

### HDPE Saddles



Part	Description	Pkg	List
364-251	2 x 1.5 ACME Tap T saddle	5	97.45
G330-000	1.5 MIPT x ACME inlet	5	19.74

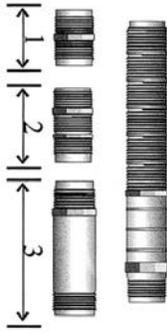
### PVC Saddles



Part	Description	Pkg	List
CA2X1	2" x 1"	10	177.00
CA3X1.5	3" x 1 1/2"	10	232.00
CA3X2	3" x 2"	10	243.00
CA4X1.5	4" x 1 1/2"	10	305.00
CA4X2	4" x 2"	10	305.00
CA6X2	6" x 2"	10	431.00



# NIPPLES



## Cut-Off Nipples

Part	Description (inches)	Pkg Qty	List (ea)
N-011	0.50 x 6	50	1.06
N-012	0.75 x 6	25	2.42
N-013	0.50 x 0.75 x 6	40	2.00

## Schedule 80



Part	Description (inches)	Pkg Qty	List (ea)
5075	0.50 x 0.75 x Close (Transition)	50	3.19
882-005	0.50 x Close	50	0.84
882-020	0.50 x 2	50	1.87
882-040	0.50 x 4	50	2.35
882-060	0.50 x 6	50	3.12
882-080	0.50 x 8	50	3.62
882-100	0.50 x 10	50	4.32
882-120	0.50 x 12	50	4.90
882-180	0.50 x 18	50	6.70
882-240	0.50 x 24	50	8.05
882-360	0.50 x 36	50	26.53
882-480	0.50 x 48	50	28.53
883-005	0.75 x Close	50	0.36
883-020	0.75 x 2	50	1.94
883-060	0.75 x 6	50	3.69
883-120	0.75 x 12	50	5.91
883-180	0.75 x 18	50	7.92
883-240	0.75 x 24	50	10.08
884-005	1 x Close	50	2.74
884-020	1 x 2	50	2.87
884-040	1 x 4	50	3.91
884-060	1 x 6	50	5.38
884-080	1 x 8	50	6.32
884-120	1 x 12	50	8.48
885-020	1.25 x 2	25	3.66
886-005	1.5 x Close	25	4.32
886-020	1.5 x 2	25	4.63
886-030	1.5 x 3	25	5.38
887-020	2 x Close	10	5.67
887-025	2 x 2 1/2	10	6.32

## Pipe Cutters



Part	Description (inches)	Net
T100	1 pipe cutter	23.94
T135	1.5 pipe cutter	28.48
SS200	2 pipe cutter	38.06
BT100	1 replacement blade	11.32
BT135	1.5 replacement blade	12.00
SSB200	2 replacement blade	12.88
RS32	Rope saw	10.00
GS13	13 hand saw	31.76
BGS13	Replacement saw blade	26.79





## Irrigation Tools

### Pipe Tools



Part	Description (inches)	Net
26973	0.50 nipple extractor	9.00
26974	0.75 nipple extractor	11.00

### Clamp Tools



Part	Description (inches)	Net
1098	Standard pincer	17.80
CT112	12 Pinch Clamp Crimping tool	19.64

### Multi-Tool



Part	Description	Net
I-TOOL	Irrigation Multi-Tool	95.78

### Gauges



Part	Description	Net
995-01	Flow & pressure gauge	282.43
995-50	Pitot tube	17.60
5-308	Toro pressure gauge	265.36
5-309	Replacement flow gauge	345.43
91130	Economy pressure gauge	15.00
PG25-160-G	Glycerine filled pressure gauge - 160 PSI	15.00





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# i TECHNICAL INFORMATION

## Scheduling Recommendations Tip

To deliver 0.1" applications of water, run sprayhead zones for 5 minutes and rotor zones for 20 minutes. Use repeat cycles and seasonal adjustments to achieve optimum irrigation benefit.

Water retention capacities will vary by soil type and are generally measured in inches-of-water per inch-of-soil thickness as shown in the table below.

Soil Type	Inches of water per inch of soil	Turf/soil intake rate in/hr
Sand	0.083	0.30 to 0.50
Loam	0.125	0.15 to 0.30
Clay	0.083	0.05 to 0.15

## Electrical Troubleshooting Tip

Take the resistance readings of valve wire runs to identify solenoid or wire problems.

A good solenoid/wire has a resistance of 20-60 ohms. If measured resistance is below 20 ohms, a short exists in the solenoid. If resistance is above 60 ohms a partial (poor) connection or open circuit is the issue.

Maximum one-way distance (ft.) between controller and valve (+/-)

Gnd Wire	Valve Wire Sizing						
	18	16	14	12	10	8	6
18	1020	1260	1470	1640	1770	1860	1930
16	1260	1630	2000	2330	2610	2810	2960
14	1470	2000	2590	3180	3710	4150	4480
12	1640	2330	3180	4120	5050	5900	6590
10	1770	2610	3710	5050	6540	8030	9380
8	1860	2810	4150	5900	8030	10400	12770
6	1930	2960	4480	6590	9380	12770	16540

Pressure loss per 100' of polyethelene pipe (lbs./sq. in.)

GPM	1/2"	3/4"	1"	1 1/4"	1 1/2"
1	0.487	0.124	0.038	0.010	0.005
2	1.759	0.448	0.138	0.036	0.017
3	3.728	0.949	0.293	0.077	0.036
4	6.351	1.617	0.499	0.132	0.062
5	9.609	2.444	0.755	0.199	0.094
6	13.459	3.426	1.058	0.279	0.132
7		4.557	1.408	0.371	0.175
8		5.836	1.803	0.475	0.224
9		7.259	2.242	0.591	0.279
10		8.823	2.726	0.718	0.339
11		10.526	3.252	0.856	0.404
12		12.367	3.820	1.006	0.475
13			4.431	1.16	0.551
14			5.083	1.338	0.632
15			5.775	1.521	0.718
20			9.839	2 1/291	1.224
25				3.917	1.850
30				5.490	2 1/293
35				7.304	3.450

GPM	2"	2 1/2"	3"	4"
40	0.854	0.341	0.131	0.039
50	1.307	0.516	0.199	0.058
60	1.832	0.723	0.278	0.082
70	2.437	0.961	0.370	0.109
80	3.121	1.231	0.474	0.139
90	3.881	1.531	0.590	0.173
100	4.718	1.861	0.717	0.211
120	6.613	2.609	1.005	0.295
140	8.798	3.471	1.337	0.393
160	11.266	4.444	1.712	0.503
180		5.528	2.130	0.626
200		6.719	2 1/288	0.761
220		8.016	3.088	0.908
240		9.417	3.628	1.067
260		10.922	4.208	1.237
280		12 1/229	4.827	1.419
300			5.485	1.613

## PIPE SIZE FLOW TABLE

Maximum Flow for a Given Pipe Size:

To keep the velocity below 5 ft/sec maximum:

<b>PIPE SIZE (inches)</b>	<b>WATER FLOW IN GPM</b>
2	40
2.5	80
3	120
4	200
6	380
8	750
10	1,000
12	1,600
14	2,000
16	2,500

This is a rule of thumb estimate for PVC pipe in new condition. In older pipes, velocities are higher for these flow rates. Therefore, it may be necessary to maintain lower flow rates for proper hydraulic operation of your system.

The above flow values are based on Class 200 SDR 21 PVC pipe. The information is located on page 41 of the Toro Golf Design Manual. Toro #490-2981. All flows are based on a velocity of 5 Feet/Second



# TECHNICAL INFORMATION

## Spike Guard™ Low Wattage Solenoid

Product	Solenoids	Assumes 24 VAC, 50/60 Hz Output			
		120 VAC, 60 Hz		240 VAC, 50 Hz	
		Inrush	Holding	Inrush	Holding
Network VP Satellite	0	—	0.20	0.21	0.20
	1	0.24	0.22	0.22	0.21
	2	0.26	0.24	0.23	0.22
	3	0.29	0.27	0.24	0.23
	4	0.31	0.29	0.25	0.24
	5	0.33	0.31	0.26	0.26
	6	0.35	0.33	0.28	0.27
	7	0.39	0.37	0.29	0.28
	8	0.41	0.39	0.30	0.30
	9	0.43	0.41	0.32	0.31
	10	0.46	0.44	0.34	0.33
	11	0.47	0.46	0.35	0.35
	12	0.49	0.48	0.36	0.36
	13	0.52	0.50	0.37	0.38
	14	0.54	0.52	0.38	0.39
	15	0.56	0.54	0.40	0.40
	16	0.58	0.56	0.43	0.42
	17	0.60	0.58	0.44	0.43
	18	0.61	0.60	0.46	0.45
	19	0.63	0.62	0.47	0.46
	20	0.66	0.64	0.49	0.48
	21	0.68	0.66	0.50	0.49
	22	0.70	0.68	0.51	0.50
	23	0.74	0.70	0.53	0.52
	24	0.76	0.72	0.54	0.53
	25	0.79	0.74	0.55	0.54
	26	0.80	0.75	0.57	0.56
	27	0.85	0.77	0.58	0.57
	28	0.90	0.79	0.59	0.58
	29	0.93	0.81	0.60	0.59
	30	0.96	0.82	0.61	0.60
	31	1.01	0.84	0.62	0.61
32	1.04	0.86	0.64	0.62	
Network LTC Satellite and Network LTC Plus Satellite	0	0.15	0.15	0.08	0.08
	1	0.17	0.17	0.10	0.10
	2	0.20	0.19	0.11	0.11
	3	0.22	0.21	0.13	0.13
	4	0.25	0.23	0.15	0.14
	5	0.27	0.25	0.17	0.16
	6	0.29	0.27	0.18	0.17
	7	0.32	0.29	0.20	0.19
	8	0.34	0.31	0.22	0.20
	9	0.37	0.33	0.23	0.22
	10	0.39	0.35	0.25	0.23
	11	0.41	0.37	0.27	0.25
	12	0.44	0.39	0.28	0.26
E-osmac Satellite	0	0.05	0.05	0.03	0.03
	1	0.07	0.07	0.05	0.05
	2	0.10	0.09	0.06	0.06
	3	0.12	0.11	0.08	0.08
	4	0.15	0.13	0.10	0.09
	5	0.17	0.15	0.12	0.11
	6	0.19	0.17	0.13	0.12
	7	0.22	0.19	0.15	0.14
	8	0.24	0.21	0.17	0.15
	9	0.27	0.23	0.18	0.17
10	0.29	0.25	0.20	0.18	
11	0.31	0.27	0.22	0.20	
12	0.34	0.29	0.23	0.21	
13	0.36	0.31	0.25	0.23	
14	0.39	0.33	0.27	0.24	
15	0.41	0.35	0.29	0.26	
16	0.44	0.37	0.30	0.27	

### Conversion Information

- All gallons per minute are shown in U.S.
- To convert to imperial gallons per minute, multiply by 0.833
- To convert to liters per minute, multiply by 3.78
- To convert pounds per square inch (psi) to atmospheres, divide by 14.7
- To convert pounds per square inch (psi) to kilograms per square centimeter (kg/cm2), divide by 14.22
- To convert feet to meters, divide by 3.28

### Sprinkler Spacing

- Square Spacing
  - No wind - 55% of diameter
  - 4 mph wind - 50% of diameter
  - 6,4 kph wind - 50% of diameter
  - 8 mph wind - 45% of diameter
  - 12,8 kph - 45% of diameter
- Triangular Spacing
  - No wind - 60% of diameter
  - 4 mph wind - 55% of diameter
  - 6,4 kph wind - 55% of diameter
  - 8 mph wind - 50% of diameter
  - 12,8 kph - 50% of diameter
- Single Row Spacing
  - No wind - 50% of diameter
  - 4 mph wind - 50% of diameter
  - 6,4 kph wind - 50% of diameter
  - 8 mph wind - 45% of diameter
  - 12,8 kph - 45% of diameter

\*Design in consideration of the worst condition.

### Precipitation Rate Formulas

- Square-spaced sprinklers in pattern: 

$$\frac{\text{gpm of full-circle} \times 96.3}{(\text{Spacing})^2}$$
- Triangular-spaced sprinklers in pattern: 

$$\frac{\text{gpm of full-circle} \times 96.3}{(\text{Spacing})^2 (.866)}$$
- Area and flow: 

$$\frac{\text{Total gpm of full-circle} \times 96.3}{\text{Total irrigated square feet of zone}}$$
- Single row: 

$$\frac{\text{gpm of full-circle} \times 96.3}{(\text{Spacing}) (\text{Scallop})}$$

### Winterizing Specifications

In freezing climates, valves should be properly winterized to prevent freeze-related damage.

# TERMS & CONDITIONS

## Conditions

Minimum invoice charge is \$25.00.

## Payment Terms

Golf Courses: Net 20 days.

Above terms apply unless otherwise specified and subject to approved credit. Interest of 1.5 % per month is charged on overdue accounts.

## Pricing

Prices are subject to change without notice.

Prices shown are list prices unless otherwise specified.

Trade discounts apply throughout.

Prices are GST, PST (or HST) and/or QST extra if and when applicable.

## Delivery Of Goods

Orders received in our facilities before 12 P.M. are guaranteed to be shipped on the same day, subject to product availability. Our standard shipping company, Federal Express, guarantees next day delivery to most centers. All shipped orders via FedEx or Purolator will be subject to a shipping charge. Dangerous goods (PVC cement), heavy items (wire) and large dimensional products (pipe and valve boxes) will carry additional charges. Back orders will remain open until filled unless notified otherwise.

## Product Returns

Claims for shortages/errors made on packing slips must be made within seven (7) days of receipt of order. All product returns must be in new resalable condition, in original packaging. Any goods not in new, resalable condition will be returned to the customer at the customer's expense. No returns will be authorized in months December through February.

For a return to be processed, the following must be adhered to:

1. Obtain a Returned Merchandise (RM) Authorization number prior to returning any product and include RM with returned product.
2. Shipment must be prepaid to your closest Turf Care location within 30 days after RM authorization is issued.
3. Any product returned to Turf Care without an RM will be refused or returned to customer.
4. A re-stocking fee of 15% will apply with minimum re-stocking fee of 10.00.

## Special Orders

All special non-stock orders must be prepaid and may not be cancelled or product returned.

## Warranty

All products are subject to manufacturer's warranties. Product exchanges will be made, no credit will be applied to accounts.





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  @TurfCareProdCA

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Newmarket, ON  
L3Y 7B6  
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or 416-798-7353  
Toll Free: 1-800-561-TURF  
(8873)  
Fax: 905-836-0995

### **MONTREAL IRRIGATION & COMMERCIAL**

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Local, Irrigation: x5710  
Toll Free: 1-855-290-0518  
Fax: 450-218-4550

### **KANATA**

240 Terence Matthews Cres.  
Unit 110, Kanata, ON  
K2M 2C4  
Local: 450-218-4544

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