

GOLF IRRIGATION

2025 Product Catalogue





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.

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Jesse Booker Southwestern Ontario

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■ Atlantic Canada

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

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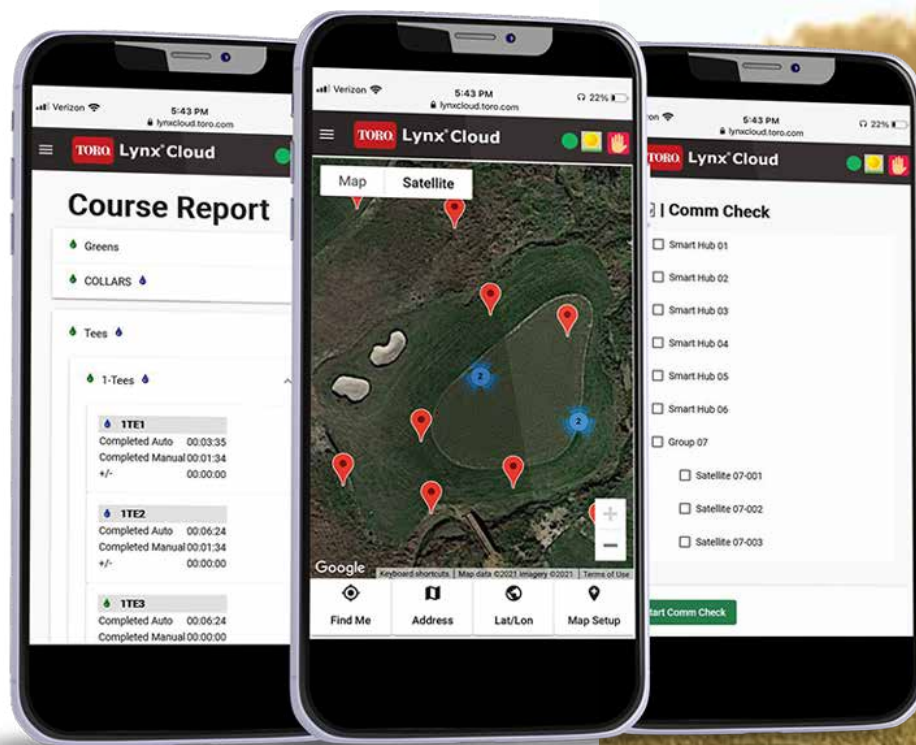
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Our purpose is to help our customers enrich the beauty, productivity and sustainability of the land. This is our legacy, our purpose, our commitment to both the customers we serve and the generations to come.

Control with Confidence



LYNX® Cloud



TURF CARE

TORO®



INFINITY® Series Sprinklers



LEARN MORE

The Toro logo, consisting of the word "TORO" in white, bold, sans-serif capital letters inside a red rounded square.

NEW!

PERFORMANCE SERIES

NOZZLES

FOR INFINITY® & FLEX800™ 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® and FLEX800™ Sprinklers take precision irrigation to an all new level.



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

Infinity Sprinklers - Complete

Part	Description	Pkg Qty	List (ea)
INF34-338-1	1" Full Circle, #33 nozzle, Std. Solenoid, 65' spacing	4	1,218.00
INF35-348-1	1" Part Circle, #34 nozzle, Std. Solenoid, 65' spacing	4	1,339.00
INF35-348-16	1" Part Circle, #34 nozzle, Std. Solenoid, Trjectory, 65' spacing	4	1,403.00
INF54-568-1	1.5" Full Circle, #56 nozzle, Std. Solenoid, 80' spacing	4	1,269.00
INF54-591-1	1.5" Full Circle, #59 nozzle, Std. Solenoid, 90' spacing	4	1,269.00
INF55-578-1	1.5" Part Circle, #57 nozzle, Std. Solenoid, 80' spacing	4	1,389.00
INF55-578-16	1.5" Part Circle, #57 nozzle, Std. Solenoid, Trjectory, 80' spacing	4	1,453.00

*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 17 & 19

- Sprinkler Tools: See page 80



Infinity Riserless Bodies (Pick 1)

Part	Description	Pkg Qty	List (ea)
INF30-1	1", Riserless body, Standard Solenoid	4	649.00
INF30-2	1", Riserless body, Spike Guard Solenoid	4	760.00
INF30-6	1", Riserless body, LSM Module & DC Latching Solenoid	4	1,375.00
INF50-1	1.5", Riserless body, Standard Solenoid	4	682.00
INF50-2	1.5", Riserless body, Spike Guard Solenoid	4	798.00
INF50-6	1.5", Riserless body, LSM Module & DC Latching Solenoid	4	1,411.00

Infinity Sprinkler Conversion Assemblies (Pick 1)

Part	Description	Pkg Qty	List (ea)
INFINITY Series Full Circle			
INF34-3134	INF34 #31-34 Nozzle (33 Installed)	5	571.00
INF34-3537	INF34 #35-37 Nozzle (35 Installed)	5	571.00
INF54 Series Full Circle			
INF54-5154	INF54 #51-54 Nozzle (53 Installed)	5	587.00
INF54-5558	INF54 #55-58 Nozzle (55 Installed)	5	587.00
INF54-59	INF54 #59 Nozzle (59 Installed)	5	587.00
INF35 Series Full Circle/Adjustable Part Circle			
INF35-3134	INF35 #31-34 Nozzle (33 Installed)	5	694.00
INF35-3537	INF35 #35-37 Nozzle (35 Installed)	5	694.00
INF55 Series Full Circle/Adjustable Part Circle			
INF55-5154	INF55 #51-54 Nozzle (53 Installed)	5	708.00
INF55-5558	INF55 #55-58 Nozzle (55 Installed)	5	708.00
INF55-59	INF55 #59 Nozzle (59 Installed)	5	708.00
The Following Premium Conversions Come with 7-30deg. Trajectory Adjustment			
INF35-6 Series Full circle/Adjustable Part Circle			
INF35-6-3134	INF35-6 #31-34 Nozzle (33 Installed)	5	756.00
INF35-6-3537	INF35-6 #35-37 Nozzle (35 Installed)	5	756.00
INF55-6 Series Full circle/Adjustable Part Circle			
INF55-6-5154	INF55-6 #51-54 Nozzle - Ribbed Body (53 Installed)	5	774.00
INF55-6-5558	INF55-6 #55-58 Nozzle - Ribbed Body (55 Installed)	5	774.00
INF55-6-59	INF55-6 #59 Nozzle - Ribbed Body (59 Installed)	5	774.00
Infinity and Flex Conversion are interchangeable.			

Infinity Markers

Part	Description	Pkg	List (ea)
118-6234	White with black edge film	1	26.00
118-6235	Yellow with black edge film	1	26.00





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	326.00
RAZOR-10-2	Set of 5 rings	1	326.00
RAZOR-10-3	Set of 5 rings	1	326.00
RAZOR-15-1	Set of 5 rings	1	326.00
RAZOR-15-2	Set of 5 rings	1	326.00
RAZOR-15-3	Set of 5 rings	1	326.00



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

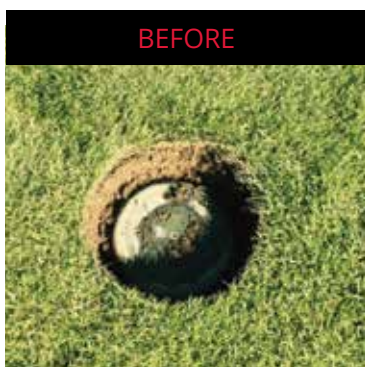
- ✓ Eliminates sprinkler interference
- ✓ Enhances course appearance
- ✓ Natural turf atop sprinkler
- ✓ Kit fits existing INFINITY sprinklers
- ✓ Easy access to arc adjustment, snap rings, riser removal assembly, valve and rock screen
- ✓ Smart Access® compartment enables access to Pilot valve, Lynx 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



Enhanced appearance
and increased efficiency

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 80



Electric Full Circle Sprinklers

Part	Description	Pkg Qty	List (ea)
FLEX800 34 Series Full Circle - 65' Spacing			
FLX34-338-1	1" Acme Inlet, Electric, Standard Solenoid	4	1,043.00
FLX34-338-2	1" Acme Inlet, Electric, Spike Guard Solenoid	4	1,154.00
FLX34-338-4	1" Acme Inlet, Electric, DC Latching Solenoid	4	1,142.00
FLX34-338-6	1" Acme Inlet, Electric, LSM Two-Wire Module	4	1,817.00
FLEX800 54 Series Full Circle - 80' Spacing			
FLX54-568-1	1.5" Acme Inlet, Electric, Standard Solenoid	4	1,090.00
FLX54-568-2	1.5" Acme Inlet, Electric, Spike Guard Solenoid	4	1,196.00
FLX54-568-4	1.5" Acme Inlet, Electric, DC Latching Solenoid	4	1,184.00
FLX54-568-6	1.5" Acme Inlet, Electric, LSM Two-Wire Module	4	1,831.00
See Chart on opposite page for optional nozzle sizes			

Sprinkler Conversion Assemblies & Riserless Bodies

Part	Description	Pkg Qty	List (ea)
FLEX800 34 Series Full Circle			
FLX34-3134	FLEX34 #31-34 Nozzle (33 Installed)	5	573.00
FLX34-3537	FLEX34 #35-37 Nozzle (35 Installed)	5	573.00
FLEX800 54 Series Full Circle			
FLX54-5154	FLEX54 #51-54 Nozzle (53 Installed)	5	593.00
FLX54-5558	FLEX54 #55-58 Nozzle (55 Installed)	5	593.00
FLX54-59	FLEX54 #59 Nozzle (59 Installed)	5	593.00
FLEX800 Riserless Bodies			
FLX30-46-1	1" Acme Inlet, Electric, Standard Solenoid	4	474.00
FLX30-46-2	1" Acme Inlet, Electric, Spike Guard Solenoid	4	579.00
FLX30-46-4	1" Acme Inlet, Electric, DC Latching Solenoid	4	569.00
FLX30-46-6	1" Acme Inlet, Electric, LSM Two-Wire Module	4	1,243.00
FLX50-46-1	1.5" Acme Inlet, Electric, Standard Solenoid	4	499.00
FLX50-46-2	1.5" Acme Inlet, Electric, Spike Guard Solenoid	4	607.00
FLX50-46-4	1.5" Acme Inlet, Electric, DC Latching Solenoid	4	593.00
FLX50-46-6	1.5" Acme Inlet, Electric, LSM Two-Wire Module	4	1,235.00
102-0950	Adapter Ring for 600/700 series 1.5" fairway sprinklers	1	27.85

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	Nozzle Set (35 to 37)	Nozzle Set 35	Nozzle Set 36	Nozzle Set 37
Color	(Yellow)	(Blue)	(Brown)	(Orange)	Color	(Green)	(Gray)	(Black)
Part #	102-0725	102-0726	102-0727	102-7002	Part #	102-0729	102-0730	102-4261
Stator #	102-6929 Blue				Stator #	102-1940 Red, Black (Circles)		
Front					Front			
Color	(Orange)	(Red)	(Red)	(Red)	Color	(Red)	(Red)	(Lt. Blue)
Part #	102-2926	102-4335	102-4335	102-4335	Part #	102-4335	102-4335	102-6700
Back Nozzle Positions					Back Nozzle Positions			
Color	(White)	(Red)	(Yellow)	(Orange)	Color	(Yellow)	(Beige)	(White)
Part #	102-6940	102-4335	102-6937	102-2926	Part #	102-6937	102-2929	102-6942
Full Circle Dual Trajectory 34								
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)
50	54	15.5	58	18.5	50			
65	55	18.0	60	21.1	65	75	37.4	
80	59	19.9	67	23.6	80	82	41.3	80
100	61	22.2	70	26.5	100	86	46.0	87

INF-FLX54 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)				
Front					Front					
Color	(Orange)	(Red)	(Red)	(Red)	Color	(Brown)	(Red)	(Lt. Blue)	(White)	(Red)
Part #	102-2926	102-4335	102-4335	102-4335	Part #	102-6883	102-4335	102-6700	102-6940	102-4335
Back Nozzle Positions					Back Nozzle Positions					
Color	(White)	(Red)	(Yellow)	(Orange)	Color	(White)	(Beige)	(White)	(Beige)	(Red)
Part #	102-6940	102-4335	102-6937	102-2926	Part #	102-6940	102-6942	102-6940	102-6942	102-6945
Full Circle Dual Trajectory 54					Full Circle Dual Trajectory 54					
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)
50	54	15.9	60	18.9	50					
65	55	18.1	62	21.6	65	75	40.8			
80	58	20.3	68	24.0	80	79	45.6	80	47.3	85
100	62	22.7	72	27.0	100	84	50.9	87	53.0	90

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.



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 80



Part Circle Sprinklers Electric - Standard

Part	Description	Pkg Qty	List (ea)
FLEX800 35 Series Adjustable Part Circle - 65' Spacing			
FLX35-348-1	1" Acme Inlet, Electric, Standard Solenoid	4	1,172.00
FLX35-348-2	1" Acme Inlet, Electric, Spike Guard Solenoid	4	1,277.00
FLX35-348-4	1" Acme Inlet, Electric, DC Latching Solenoid	4	1,265.00
FLX35-348-6	1" Acme Inlet, Electric, LSM Two-Wire Module	4	1,937.00
FLEX800 55 Series Adjustable Part Circle - 80' Spacing			
FLX55-578-1	1.5" Acme Inlet, Electric, Standard Solenoid	4	1,218.00
FLX55-578-2	1.5" Acme Inlet, Electric, Spike Guard Solenoid	4	1,323.00
FLX55-578-4	1.5" Acme Inlet, Electric, DC Latching Solenoid	4	1,311.00
FLX55-578-6	1.5" Acme Inlet, Electric, LSMTwo-Wire Module	4	1,957.00

See Chart on opposite page for optional nozzle sizes

Sprinkler Conversion Assemblies

Part	Description	Pkg Qty	List (ea)
FLEX800 35 Series Full Circle/Adjustable Part Circle			
FLX35-3134	FLEX35 #31-34 Nozzle (33 Installed)	5	696.00
FLX35-3537	FLEX35 #35-37 Nozzle (35 Installed)	5	696.00
FLEX800 55 Series Full Circle/Adjustable Part Circle			
FLX55-5154	FLEX55 #51-54 Nozzle - Ribbed Body (53 Installed)	5	716.00
FLX55-5558	FLEX55 #55-58 Nozzle - Ribbed Body (55 Installed)	5	716.00
FLX55-59	FLEX55 #59 Nozzle - Ribbed Body (59 Installed)	5	716.00
FLEX800 Riserless Bodies			
FLX30-46-1	1" Acme Inlet, Electric, Standard Solenoid	4	474.00
FLX30-46-2	1" Acme Inlet, Electric, Spike Guard Solenoid	4	579.00
FLX30-46-4	1" Acme Inlet, Electric, DC Latching Solenoid	4	569.00
FLX30-46-6	1" Acme Inlet, Electric, LSM Two-Wire Module	4	1,243.00
FLX50-46-1	1.5" Acme Inlet, Electric, Standard Solenoid	4	499.00
FLX50-46-2	1.5" Acme Inlet, Electric, Spike Guard Solenoid	4	607.00
FLX50-46-4	1.5" Acme Inlet, Electric, DC Latching Solenoid	4	593.00
FLX50-46-6	1.5" Acme Inlet, Electric, LSM Two-Wire Module	4	1,235.00

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	
								
Color	(White)		(Yellow)		(Blue)		(Brown)	
Part #	102-2208		102-0725		102-0726		102-0727	
Stator #	102-6929 Blue		102-1939 White					
Front								
Color	(Yellow)	(Beige)	(Green)	(Blue)	(Green)	(Blue)	(Green)	(Blue)
Part #	102-5670	102-6942	102-6531	102-2925	102-6531	102-6947	102-6531	102-6947
Back Nozzle Positions								
Color	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)
Part #	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335
Part Circle Dual Trajectory 35								
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)
50	43	8.2	52	13.8	57	17.9		
65	45	10.0	55	15.9	60	20.4	65	22.6
80	46	11.5	57	17.6	63	22.7	67	24.9
100	47	13.4	58	19.6	67	25.2	70	27.8

Nozzle Set (34 to 37)	Nozzle Set 34		Nozzle Set 35		Nozzle Set 36		Nozzle Set 37	
								
Color	(Orange)		(Green)		(Gray)		(Black)	
Part #	102-7002		102-0729		102-0730		102-4261	
Stator #	102-1939 White		118-7282 Red, Pink					
Front								
Color	(Yellow)	(Purple)	(White)	(Yellow)	(White)	(Yellow)	(White)	(Yellow)
Part #	102-5670	102-6699	102-6940	102-6946	102-6940	102-6946	102-6940	102-6946
Back Nozzle Positions								
Color	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)
Part #	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335
Part Circle Dual Trajectory 35								
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)
50								
65	70	25.6	75	34.2				
80	71	28.5	78	38	80	39.7	85	42.3
100	72	31.7	83	42.5	84	44.5	86	47.3

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)	(Green)	(Blue)	(Yellow)	(Yellow)					
Part #	102-5670	102-5671	102-6531	102-6947	102-6531	102-6947	102-5670	102-6884					
Back Nozzle Positions					Back Nozzle Positions								
Color	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)	(Red)			
Part #	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335			
Part Circle Dual Trajectory 55													
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	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	22.9	70	25.9	65	75	34.6		
80	57	17.8	64	23.1	68	25.4	71	29.0	80	79	38.5	80	40.0
100	59	19.8	68	25.8	72	28.6	73	32.4	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 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



PREMIUM SPRINKLERS

TORO.

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 80



FLX35-6

FLX55-6

Part Circle Sprinklers - Premium

Part	Description	Pkg Qty	List (ea)
FLEX800 35-6 Series Full circle/Adjustable Part Circle - 65' Spacing			
FLX35-348-16	1" Acme Inlet, Electric, Standard Solenoid w/Tru-jectory™	4	1,230.00
FLX35-348-26	1" Acme Inlet, Electric, Spike Guard Solenoid w/Tru-jectory™	4	1,333.00
FLX35-348-46	1" Acme Inlet, Electric, DC Latching Solenoid w/Tru-jectory™	4	1,325.00
FLX35-348-66	1" Acme Inlet, Electric, LSM Two-Wire Module, w/Tru-jectory™	4	1,999.00
FLEX800 55-6 Series Full circle/Adjustable Part Circle - 80' Spacing			
FLX55-578-16	1.5" Acme Inlet, Electric, Standard Solenoid w/Tru-jectory™	4	1,283.00
FLX55-578-26	1.5" Acme Inlet, Electric, Spike Guard Solenoid w/Tru-jectory™	4	1,387.00
FLX55-578-46	1.5" Acme Inlet, Electric, DC Latching Solenoid w/Tru-jectory™	4	1,370.00
FLX55-578-66	1.5" Acme Inlet, Electric, LSM Two-Wire Module, w/Tru-jectory™	4	2,013.00
See Chart on opposite page for optional nozzle sizes			

Premium Part Circle Conversion Assemblies w/7°-30° Tru-jectory Adjustment

Part	Description	Pkg Qty	List (ea)
FLEX800 35-6 Series Full circle/Adjustable Part Circle			
FLX35-6-3134	FLEX 35-6 #31-34 Nozzle (33 installed)	5	756.00
FLX35-6-3537	FLEX 35-6 #35-37 Nozzle (35 installed)	5	756.00
FLEX800 55-6 Series Full circle/Adjustable Part Circle			
FLX55-6-5154	FLEX 55-6 #51-54 Nozzle - Ribbed Body (53 installed)	5	782.00
FLX55-6-5558	FLEX 55-6 #55-58 Nozzle - Ribbed Body (55 installed)	5	782.00
FLX55-6-59	FLEX 55-6 #59 Nozzle - Ribbed Body (59 installed)	5	782.00
FLX55-6-5154R	FLEX 55-6 #51-54 Nozzle - Ribless Body (53 installed)	5	841.00
FLX55-6-5558R	FLEX 55-6 #55-58 Nozzle - Ribless Body (55 installed)	5	841.00
FLX55-6-59R	FLEX 55-6 #59 Nozzle - Ribless Body (59 installed)	5	841.00

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	
								
Color	(White)		(Yellow)		(Blue)		(Brown)	
Part #	102-2208		102-0725		102-0726		102-0727	
Stator #	102-6929 Blue		102-1939 White					
Front								
Color	(Blue)	(Gray)	(Black)	(Green)	(Gray)	(Dark Red)	(Gray)	(Dark Red)
Part #	102-2925	102-2910	102-6941	102-6697	102-6945	102-6698	102-6941	102-6698
Back Nozzle Positions								
Color	(Red)		(Red)		(Red)		(Red)	
Part #	102-4335		102-4335		102-4335		102-4335	
Part Circle Dual Trajectory 35								
Pressure (PSI)	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

Nozzle Set (34 to 37)	Nozzle Set 34		Nozzle Set 35		Nozzle Set 36		Nozzle Set 37	
								
Color	(Orange)		(Green)		(Gray)		(Black)	
Part #	102-7002		102-0729		102-0730		102-4261	
Stator #	102-1939 White		118-7282 Red, Pink					
Front								
Color	(Gray)	(Dark Red)	(White)	(Purple)	(White)	(Lt. Blue)	(White)	(Lt. Blue)
Part #	102-6941	102-6699	102-6940	102-6946	102-6940	102-6700	102-6940	102-6700
Back Nozzle Positions								
Color	(Red)		(Red)		(Red)		(Red)	
Part #	102-4335		102-4335		102-4335		102-4335	
Part Circle Dual Trajectory 35								
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)
50								
65	70	26.2	75	34.6				
80	73	28.6	79	38.6	80	41.5	85	43.8
100	76	32.0	84	43.1	85	46.5	90	49.3

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)	(Black)	(Red)		
Part #	102-6941	102-6697	102-6941	102-6698	102-6941	102-6698	102-6941	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												
Pressure (PSI)	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				

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)	
50											
65	75	35.1									
80	80	39.3	80	40.7	85	43.2	88	51.0	95	60.1	
100	85	43.9	88	46.1	90	49.8	98	56.3	100	66.3	

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.

Scan QR for Legacy
Nozzle Charts





SPRINKLERS

TORO.

B Series Sprinklers

- Constant velocity drive
- 3 1/2" pop up height
- Dual trajectory settings (25° or 15°) on FLEX34B and FLEX35B models
- Tru-jjectory™ 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 80



Part	Description	Pkg Qty	List (ea)
FLEX34B Series Full Circle			
FLX34B-42-3134	1" ACME Inlet, Check-o-matic	4	483.00
FLX34B-42-3538	1" ACME Inlet, Check-o-matic	4	483.00
FLX34B-02-3134	1" NPT Inlet, Check-o-matic	4	483.00
FLX34B-02-3538	1" NPT Inlet, Check-o-matic	4	483.00
FLEX35B Series Full circle/Adjustable Part Circle			
FLX35B-42-3134	1" ACME Inlet, Check-o-matic	4	585.00
FLX35B-42-3538	1" ACME Inlet, Check-o-matic	4	585.00
FLX35B-02-3134	1" NPT Inlet, Check-o-matic	4	585.00
FLX35B-02-3538	1" NPT Inlet, Check-o-matic	4	585.00
FLEX35-6B Series Full/Adj Part Circle w/Tru-jjectory Adjustment			
FLX35-6B-42-3134	1" ACME Inlet, Check-o-matic	4	585.00
FLX35-6B-42-3538	1" ACME Inlet, Check-o-matic	4	585.00

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)
Part #	102-2926	102-4335	102-4335	102-4335
Back Nozzle Positions				
Color	(White)	(Red)	(Yellow)	(Yellow)
Part #	102-6940	102-4335	102-6937	102-2928
Full Circle Dual Trajectory 34				
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)	Flow (GPM)
50	54	15.5	58	18.5
65	55	18.0	60	21.1
80	59	19.9	67	23.6
100	61	22.2	70	26.5

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)	(Lt. Blue)
Part #	102-4335	102-4335	102-6700
Back Nozzle Positions			
Color	(Yellow)	(Beige)	(White)
Part #	102-6937	102-2929	102-6940
Full Circle Dual Trajectory 34			
Pressure (PSI)	Radius (FT)	Flow (GPM)	Radius (FT)
50	54	15.5	58
65	55	18.0	60
80	59	19.9	67
100	61	22.2	70



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	70	25.6	75	34.2
65	45	10.0	55	15.9	65	71	28.5	78	38
80	46	11.5	57	17.6	80	72	31.7	83	42.5
100	47	13.4	58	19.6	100	73	32.0	84	43.1

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	70	26.2	75	34.6
65	45	8.3	55	15.9	65	73	28.6	79	38.6
80	46	9.2	59	17.6	80	76	32.0	84	43.1
100	48	10.1	61	19.5	100	77	32.0	85	43.8

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 80



Riserless bodies (Pick 1)		• See page 80 for Sprinkler Tools	
Part	Description	Pkg Qty	List (ea)
FLX30-01	1" Riserless body, NPT, N.O.	4	418.00
FLX30-41	1" Riserless body, Acme, N.O.	4	418.00
FLX50-01	1.5" Riserless body, NPT, N.O.	4	446.00
FLX50-41	1.5" Riserless body, Acme, N.O.	4	446.00

Sprinkler Conversion Assemblies (Pick 1)			
Part	Description	Pkg Qty	List (ea)
FLEX Series Full circle			
FLX34-3134	FLEX 34 #31-34 Nozzle (33 installed)	5	573.00
FLX34-3537	FLEX 34 #35-37 Nozzle (35 installed)	5	573.00
FLX54-5154	FLEX 34 #51-54 Nozzle (53 installed)	5	593.00
FLX54-5558	FLEX 54 #55-58 Nozzle (55 installed)	5	593.00
FLX54-59	FLEX 54 #59 Nozzle (59 installed)	5	593.00
FLEX Series Full circle/Adjustable Part Circle			
FLX35-3134	FLEX 35 #31-34 Nozzle (33 installed)	5	696.00
FLX35-3537	FLEX 35 #35-37 Nozzle (35 installed)	5	696.00
FLX55-5154	FLEX 35 #51-54 Nozzle (53 installed)	5	716.00
FLX55-5558	FLEX 55 #55-58 Nozzle (55 installed)	5	716.00
FLX55-59	FLEX 55 #59 Nozzle (59 installed)	5	716.00
102-0950	Adapter ring for 600/700 series 1.5" fairway sprinklers	1	27.85

FLEX800™ SERIES GOLF SPRINKLERS

Golf sprinklers with all the efficiency, proven performance features and benefits of the 800S and DT Series



FEATURES AVAILABLE IN INFINITY AND FLEX800 SERIES

TRAJECTORY ADJUSTMENT



24-position Trajectory or Dual trajectory to help fight the wind, avoid obstacles or reduce the radius.

NOZZLE BASE CLUTCHING



Hot spot watering has never been easier, simply turn, hold and shoot to put down as much water as needed.

LARGE NOZZLE SELECTION



From 20' to 100' we've got you covered! Toro provides the flexibility to optimize your system for maximum uniformity.

PART AND FULL CIRCLE MODELS



Align part circle sprinklers quickly and easily or adjust watering locations to suit seasonal needs.

CROSS REFERENCE GUIDE					Models Being Replaced										
New Model	Arc	Trajectory	Radius - Ft	Flow - gpm	634	664	734	764	765	864S	865S	834S	835S	DT34	DT35
FLX34-3134	Full Circle	25° or 15°	52' - 79'	12.9 - 34.9	X	X	X	X	X	X	X	X	X	X	X
FLX34-3537	Full Circle	25° or 15°	67' - 91'	32.1 - 46.9	X	X	X	X	X	X	X	X	X	X	X
FLX35-3134	Part/Full Circle	25° or 15°	52' - 74'	13.6 - 34.1			1	X	X	X	X	X	X	X	X
FLX35-3537	Part/Full Circle	25° or 15°	69' - 83'	33.1 - 47.3			1	X	X	X	X	X	X	X	X
FLX35-6-3134	Part/Full Circle	30° - 7°	46' - 80'	15.5 - 37.0			1	X	X	X	X	X	X	X	X
FLX35-6-3537	Part/Full Circle	30° - 7°	59' - 92'	32.4 - 45.3			1	X	X	X	X	X	X	X	X

1. Must have ribbed bodies manufactured after 1992 to use Part/Full circles.

New Model	Arc	Trajectory	Radius - Ft	Flow - gpm	654	655	670	684	690	754	784	785	884S	885S	854S	855S	DT54	DT55
FLX54-5154	Full Circle	25° or 15°	58' - 81'	13.2 - 36.7	2	2	2	2	4	2	2	2	X	X	X	X	X	X
FLX54-5558	Full Circle	25° or 15°	79' - 95'	34.2 - 55.4	2	2	2	2	4	2	2	2	X	X	X	X	X	X
FLX54-59	Full Circle	25° or 15°	96' - 99'	55.6 - 61.8	2	2	2	2	4	2	2	2	X	X	X	X	X	X
FLX55-5154	Part/Full Circle	25° or 15°	55' - 75'	14.0 - 34.5					4	2	2	2	X	X	X	X	X	X
FLX55-5558	Part/Full Circle	25° or 15°	73' - 90'	35.3 - 53.9					4	2	2	2	X	X	X	X	X	X
FLX55-59	Part/Full Circle	25° or 15°	82' - 92'	57.2 - 61.3					4	2	2	2	X	X	X	X	X	X
FLX55-6-5154	Part/Full Circle	30° - 7°	46' - 80'	13.9 - 38.2					4	2	2	2	X	X	X	X	X	X
FLX55-6-5558	Part/Full Circle	30° - 7°	59' - 95'	33.8 - 51.1					4	2	2	2	X	X	X	X	X	X
FLX55-6-59	Part/Full Circle	30° - 7°	77' - 100'	57.0 - 61.1					4	2	2	2	X	X	X	X	X	X

• See page 80 for Sprinkler Tools



SPRINKLERS



Common Replacement Parts

Part	Description	Pkg Qty	List (ea)
O-ring			
363-4102	O-ring, Riser, 1" heads	10	11.31
363-4103	O-ring, Riser, 1.5" heads	25	11.31
363-4167	O-ring, Nozzle Base, 1" & 1.5" heads	10	20.11
Drive Assy			
102-4502	Drive Assy – FC (full circle) – 600/700 series	12	239.71
102-4503	Drive Assy – FC – DT/800/Flex series	12	187.25
102-4504	Drive Assy – PC (part circle) – DT35/55,835/855,FLX35/55	12	242.89
Pilot Valve			
118-6167	Pilot Valve, w/o Solenoid, All Models	1	197.63
118-6168	Pilot Valve, w/Solenoid, Standard	1	371.78
118-6520	INFINITY Pilot Valve, w/o Solenoid, Standard	1	208.68
118-3747	Pilot Valve, w/Solenoid, Spikeguard	1	493.00
Bottom Valve			
89-1048	Bottom Valve, Electric 1" – 600/700 series	1	265.39
89-1046	Bottom Valve, Hydraulic 1" – 600/700 series	1	151.23
102-4003	Bottom Valve, Electric 1.5" – All Models	1	433.38
102-6310	Bottom Valve, Hydraulic 1.5" – All Models	1	351.02
102-0624	Bottom Valve, Electric 1" – DT/800/Flex	1	262.15
102-6313	Bottom Valve, Hydraulic 1" – DT/800/Flex	1	190.64
Riser			
102-0202	Riser, 1", DT/800/Flex	1	86.92
102-0203	Riser, 1.5", DT/800/Flex	1	88.32
89-7562	Riser, 1", 600/700 series	1	141.49
89-7563	Riser, 1.5", 600/700 series	1	211.86
Snap Ring			
89-1385	Snap Ring, Riser, 1", All Models	10	14.98
35-6119	Snap Ring, Riser, 1.5", All Models	10	34.27
89-4702	Snap Ring, Bottom Valve, 1", All Models	10	8.04
3-3304	Snap Ring, Bottom Valve, 1.5", All Models	10	13.29
Solenoids			
118-0248	Standard 24v solenoid (Red & Black wires)	1	167.67
102-3443	Low Wattage solenoid w/surge protection (Black wires)	1	178.51
102-2709	24v DC Latching solenoid (Red w/white stripe & Black wires)	1	193.44
118-7149SK	LSM/Solenoid assy for Infinity	1	910.57

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 80 for Sprinkler Tools

Nozzles			65 psi		80 psi			
Part #	Description	Color		Radius	gpm	Radius	gpm	Profile
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	



SPRINKLERS



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	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	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	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	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	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	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	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	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	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	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	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	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	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	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	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	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°



SPRINKLERS



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 80
- 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/adaptor

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	684.00
FLX55-6RB-5558	R Series Conversion with FLX55-6 riser assembly and high flow nozzle set #55-#58	5	684.00
FLX55RB-5154	R Series Conversion with FLX55 riser assembly and low flow nozzle set #51-#54	5	497.00
FLX55RB-5558	R Series Conversion with FLX55 riser assembly and high flow nozzle set #55-#58	5	497.00
FLX54RB-5154	R Series Conversion with FLX54 riser assembly and low flow nozzle set #51-#54	5	497.00
FLX54RB-5558	R Series Conversion with FLX54 riser assembly and high flow nozzle set #55-#58	5	497.00
SPIKEGUARD-RB	Toro solenoid adapter with Spike Guard™ solenoid for Rain Bird® Eagle 700, 900 or 1100 Series sprinklers	1	151.00

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) Δ	Precip. Rate (in/hr) □
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
	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
	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
	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
	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
	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
	100	56	12.8	0.90	0.78

NOZZLE PERFORMANCE DATA-HIGH FLOW MODELS

Nozzle	psi	Radius (ft)	gpm	Precip. Rate (in/hr) Δ	Precip. Rate (in/hr) □
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
	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
	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
	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
	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
	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
	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
	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	174.00
	T7PSS	1" Sport Rotor, Stainless Steel	10	231.00
	T7P-42	1" Sport Rotor w/ACME	10	191.00
	T7PSS-42	1" Sport Rotor, Stainless Steel w/ACME	10	247.00
	T7P-02L	1" Sport Rotor, Low Flow	10	174.00
	T7PSS-02L	1" Sport Rotor, Stainless Steel, Low Flow	10	231.00
	T7P-42L	1" Sport Rotor, ACME, Low Flow	10	191.00
	T7PSS-42L	1" Sport Rotor, Stainless Steel, ACME, Low Flow	10	247.00

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

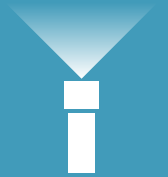


Flanged Cap

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	38.00
	590GF-6	6" Golf sprayhead with COM & X-Flow	50	78.00
	590GF-12	12" Golf sprayhead with COM & X-Flow	50	86.00



Bunker Misting Systems

	PRN-TA	Precision Rotating Nozzle (14' - 26' Adjustable)	20	23.10
	PRN-TF	Precision Rotating Nozzle (14' - 26' Full Circle)	20	23.10
	TVAN-X	Adjustable 570 Nozzle (X = size 8, 10, 12, 15, 17) Full list on pg 96	25	6.46
	X-FOT	Toro Precision Nozzle - Full Circle Male thread (X = size 8, 10, 12...)	25	11.31
<i>All the above accepts all Toro MPR, T-VAN, Precision, & 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	742.00
	P220G-27-04	1" Plastic valve with pressure regulator	1	567.00
	75-3494	1" Compression Cap	5	44.10
	75-30844	1" Coupling with Stop	5	54.60
	75-33044	1" Compression Male Adapter	5	33.60
	75-351442	1" x 0.5" service Tee, Compression x Fipt	5	80.85
	75-351444	1" x 1", Service Tee, Compression x Fipt	5	80.85
	75-31844	1" compression 90° elbow	5	55.65
	75-32044	1" service 90° elbow	5	76.65
	HDPEDR11010	1" DR11 Pipe, 500' roll	1	CALL FOR PRICING
	T532-212	0.5" Swing Joint	10	70.43



SPRINKLERS



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	2,279.00
	SSDS-HF-1000	DL2000 1000' Drip System (Bunker)—High Flow	3,634.00
	RGP-212-05	DL2000 500' (Roll, 0.5 GPH), 12" Spacing	838.00

	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	641.00
	GZK-25-LF-SG	P220G valve with SPIKE GUARD™ solenoid, 25 psi reg, low flow .1-8 gpm, 150 mesh SS filter	645.00
	GZK-25-MF-DCL	P220G valve with DC latching solenoid, 25 psi reg, medium flow 2-20 gpm, 150 mesh SS filter	645.00
	GZK-25-MF-SG	P220G valve with SPIKE GUARD solenoid, 25 psi reg, medium flow 2-20 gpm, 150 mesh SS filter	645.00
	GZK-40-MF-DCL	P220G valve with DC latching solenoid, 40 psi reg, medium flow 2-20 gpm, 150 mesh SS filter	645.00
	GZK-40-MF-SG	P220G valve with SPIKE GUARD solenoid, 40 psi reg, medium flow 2-20 gpm, 150 mesh SS filter	645.00

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	39.22
	FCH-H-FHT	Flush Valve - 0.75" FHT (Hose Thread), 0.8 gpm, 2 psi Sealing Pressure	10	9.06
	FJQ16	5/8" Figure-eight End Clamp	10	0.71
	SS6	0.75" Steel Soil Staple to Hold Tubing in Place	50	0.35
	REG100252-20	Pressure regulator, 1" 25 psi, 2-20 gpm	1	79.00
	ALFS75	Filter, 0.75", 150 mesh stainless screen	1	35.00
	ALFS100	Filter, 1", 150 mesh stainless screen	1	44.00
	AMP0004-2F	Filter Replacement, 150 mesh stainless screen	1	24.00



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
CLASS 200 SDR21	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

TEE (slip x slip x slip) 	Part	Description	Pkg	List	TEE (slip x slip x slip) 	Part	Description	Pkg	List
	401-005	1/2"	50	1.35		401-290	2 1/2" x 2 1/2" x 1 1/4"	10	26.70
	401-007	3/4"	50	1.56		401-291	2 1/2" x 2 1/2" x 1 1/2"	10	26.70
	401-010	1"	50	2.96		401-292	2 1/2" x 2 1/2" x 2"	10	26.70
	401-012	1 1/4"	25	4.57		401-333	3" x 3" x 1/2"	10	38.26
	401-015	1 1/2"	25	5.55		401-334	3" x 3" x 3/4"	10	38.26
	401-020	2"	25	8.14		401-335	3" x 3" x 1"	10	38.26
	401-025	2 1/2"	10	26.76		401-336	3" x 3" x 1 3/4"	10	38.26
	401-030	3"	10	35.16		401-337	3" x 3" x 1 1/2"	10	38.26
	401-040	4"	5	63.62		401-338	3" x 3" x+ 2"	10	38.19
	401-050	5"	4	153.64		401-420	4" x 4" x 2"	10	63.62
	401-060	6"	4	214.16		401-422	4" x 4" x 3"	5	63.62
	401-080	8"	2	496.64		401-528	6" x 6" x 2"	5	214.16
	REDUCING TEE (slip x slip x slip) 	401-101	3/4" x 3/4" x 1/2"	50		1.83	401-530	6" x 6" x 3"	5
401-122		1" x 1/2" x 1"	50	5.21	401-532	6" x 6" x 4"	5	214.16	
401-125		1" x 3/4" x 3/4"	50	5.21	401-582	8" x 8" x 4"	2	496.64	
401-126		1" x 3/4" x 1"	50	5.21	401-585	8" x 8" x 6"	2	496.64	
401-130		1" x 1" x 1/2"	50	3.11	ENLARGING TEE (slip x slip) 	401-102	3/4" x 3/4" x 1"	50	5.21
401-131		1" x 1" x 3/4"	50	3.37		401-132	1" x 1" x 1 1/4"	50	6.96
401-157		1 1/4" x 1" x 3/4"	25	7.11		401-133	1" x 1" x 1 1/2"	25	9.00
401-166		1 1/4" x 1 1/4" x 1/2"	25	5.03		401-213	1 1/2" x 1 1/2" x 2"	25	12.62
401-167		1 1/4" x 1 1/4" x 3/4"	25	5.03	TEE (slip x slip x FIPT) 	401-341	3" x 3" x 4"	10	65.65
401-168		1 1/4" x 1 1/4" x 1"	25	5.03		402-005	1/2"	50	1.83
401-209		1 1/2" x 1 1/2" x 1/2"	25	8.83		402-007	3/4"	50	2.82
401-210		1 1/2" x 1 1/2" x 3/4"	25	8.83		402-010	1"	50	5.21
401-211		1 1/2" x 1 1/2" x 1"	25	8.83		402-012	1 1/4"	25	8.28
401-239		2" x 1 1/2" x 1"	10	12.62		402-015	1 1/2"	25	10.79
401-241	2" x 1 1/2" x 1 1/2"	10	12.62	402-020		2"	10	13.67	
401-247	2" x 2" x 1/2"	10	8.68	402-030		3"	10	52.93	
401-248	2" x 2" x 3/4"	10	8.68	402-040	4"	4	80.90		
401-249	2" x 2" x 1"	10	8.68	FIPT MIPT slip sp Female Iron Pipe Thread Male Iron Pipe Thread Solvent Cement Socket Spigot	VISIT LASCO FITTINGS FOR MORE INFORMATION 				
401-250	2" x 2" x 1 1/4"	10	8.68						
401-251	2" x 2" x 1 1/2"	10	8.68						
401-287	2 1/2" x 2 1/2" x 1/2"	10	26.70						
401-288	2 1/2" x 2 1/2" x 3/4"	10	26.70						
401-289	2 1/2" x 2 1/2" x 1"	10	26.70	T.B.E. T.O.E. insert Threaded Both Ends Thread One End Barbed					



PIPES, FITTINGS & VALVES

LASCO
Fittings, Inc.

Schedule 40 Fittings

	REDUCING TEE (slip x slip x FIPT)								
	Part	Description	Pkg	List		Part	Description	Pkg	List
	402-074	1/2" x 1/2" x 3/4"	50	3.93		406-005	1/2"	50	1.09
	402-095	3/4" x 1/2" x 3/4"	50	2.73		406-007	3/4"	50	1.25
	402-101	3/4" x 3/4" x 1/2"	50	2.40		406-010	1"	50	2.21
	402-124	1" x 3/4" x 1/2"	50	5.21		406-012	1 1/4"	25	3.93
	402-125	1" x 3/4" x 3/4"	50	5.21		406-015	1 1/2"	25	4.20
	402-130	1" x 1" x 1/2"	50	3.64		406-020	2"	25	6.57
	402-131	1" x 1" x 3/4"	50	5.21		406-025	2 1/2"	10	20.02
	402-166	1 1/4" x 1 1/4" x 1/2"	25	8.68		406-030	3"	10	23.98
	402-167	1 1/4" x 1 1/4" x 3/4"	25	8.68		406-040	4"	5	42.85
	402-168	1 1/4" x 1 1/4" x 1"	25	8.68		406-060	6"	4	136.28
	402-209	1 1/2" x 1 1/2" x 1/2"	25	10.79		406-080	8"	3	350.95
	402-210	1 1/2" x 1 1/2" x 3/4"	25	10.79		406-101	3/4" x 1/2"	50	2.21
	402-211	1 1/2" x 1 1/2" x 1"	25	10.79		406-130	1" x 1/2"	50	3.28
	402-212	1 1/2" x 1 1/2" x 1 1/4"	25	10.79		406-131	1" x 3/4"	50	3.96
	402-239	2" x 1 1/2" x 1"	10	13.56		406-168	1 1/4" x 1"	25	6.25
	402-247	2" x 2" x 1/2"	10	13.56		406-211	1 1/2" x 1"	25	9.94
	402-248	2" x 2" x 3/4"	10	13.56		406-212	1 1/2" x 1 1/4"	25	9.94
	402-249	2" x 2" x 1"	10	13.56		406-249	2" x 1"	25	12.22
	402-250	2" x 2" x 1 1/4"	10	13.56		406-250	2" x 1 1/4"	25	12.22
	402-251	2" x 2" x 1 1/2"	10	13.56		406-251	2" x 1 1/2"	25	16.89
	402-287	2 1/2" x 2 1/2" x 1/2"	10	29.33		407-005	1/2"	50	1.35
	402-288	2 1/2" x 2 1/2" x 3/4"	10	29.33		407-007	3/4"	50	1.56
	402-289	2 1/2" x 2 1/2" x 1"	10	29.33		407-010	1"	50	2.96
	402-290	2 1/2" x 2 1/2" x 1 1/4"	10	29.33		407-012	1 1/4"	25	4.94
	402-291	2 1/2" x 2 1/2" x 1 1/2"	10	29.33		407-015	1 1/2"	25	5.48
	402-292	2 1/2" x 2 1/2" x 2"	10	29.33		407-020	2"	10	14.07
	402-333	3" x 3" x 1/2"	10	41.94		407-025	2 1/2"	10	34.82
	402-334	3" x 3" x 3/4"	10	41.94		407-030	3"	10	52.14
	402-335	3" x 3" x 1"	10	41.94		407-040	4"	5	79.04
	402-336	3" x 3" x 1 1/4"	10	41.94		407-074	1/2" x 3/4"	50	2.96
	402-337	3" x 3" x 1 1/2"	10	41.94		407-101	3/4" x 1/2"	50	1.63
	402-338	3" x 3" x 2"	10	41.94		407-130	1" x 1/2"	50	4.50
	402-417	4" x 4" x 1"	5	70.05		407-131	1" x 3/4"	50	4.50
	402-419	4" x 4" x 1 1/2"	5	70.05		407-168	1 1/4" x 1"	25	6.57
	402-420	4" x 4" x 2"	5	70.05		407-211	1 1/2" x 1"	25	10.95
	402-422	4" x 4" x 3"	5	70.05		407-212	1 1/2" x 1 1/4"	25	11.36
	405-005	1/2"	50	5.02		407-249	2" x 1"	25	18.87
	405-007	3/4"	50	7.86		407-250	2" x 1 1/4"	10	18.87
	405-010	1"	50	10.89		407-251	2" x 1 1/2"	10	18.87
	405-012	1 1/4"	25	15.06					
	405-015	1 1/2"	25	15.56					
	405-020	2"	25	46.00					

Schedule 40 Fittings

	Part					Part			
	Part	Description	Pkg Qty	List (ea)		Part	Description	Pkg Qty	List (ea)
90° ELL (FIPT x FIPT) 	408-005	1/2"	50	2.67	CROSS (slip) 	420-005	1/2"	50	4.20
	408-007	3/4"	50	3.96		420-007	3/4"	50	6.97
	408-010	1"	50	8.39		420-010	1"	50	8.68
	408-012	1 1/4"	25	8.98		420-012	1 1/4"	25	11.46
	408-015	1 1/2"	25	11.36		420-015	1 1/2"	25	13.00
	408-020	2"	10	17.22		420-020	2"	10	19.17
						420-025	2 1/2"	8	40.68
STREET ELL (sp x slip) 	409-005	1/2"	50	3.11	COUPLING (slip) 	420-030	3"	10	49.89
	409-007	3/4"	50	3.80		420-040	4"	5	73.93
	409-010	1"	50	6.57		429-005	1/2"	100	0.71
	409-012	1 1/4"	25	7.86		429-007	3/4"	50	1.00
	409-015	1 1/2"	25	8.68		429-010	1"	50	1.74
	409-020	2"	10	16.75		429-012	1 1/4"	25	2.40
STREET ELL (MIPT x FIPT) 	412-005	1/2"	50	3.23		429-015	1 1/2"	25	2.57
	412-007	3/4"	50	3.96		429-020	2"	25	3.96
	412-010	1"	50	6.73		429-025	2 1/2"	10	8.68
	412-012	1 1/4"	25	8.39		429-030	3"	10	13.58
	412-015	1 1/2"	25	9.09		429-040	4"	10	19.68
						429-050	5"	4	36.00
ELL 22 1/2° (slip) 	416-020	2"	25	11.01	COUPLING (FIPT x FIPT) 	429-060	6"	5	62.20
	416-025	2 1/2"	10	28.65		429-080	8"	4	116.13
	416-030	3"	10	44.43		430-005	1/2"	100	1.37
	416-040	4"	5	79.81		430-007	3/4"	52	2.57
	416-060	6"	5	197.02		430-010	1"	52	3.37
						430-005-45	1/2", Gray	100	1.56
ELL 45° (slip) 	417-005	1/2"	50	1.83	FEMALE ADAPTER (slip x FIPT) 	430-007-45	3/4", Gray	50	2.88
	417-007	3/4"	50	2.82		435-005	1/2"	100	1.25
	417-010	1"	50	3.37		435-007	3/4"	50	1.56
	417-012	1 1/4"	25	4.71		435-010	1"	50	1.83
	417-015	1 1/2"	25	5.89		435-012	1 1/4"	25	2.82
	417-020	2"	25	7.72		435-015	1 1/2"	25	3.23
	417-025	2 1/2"	10	20.06		435-020	2"	25	4.32
	417-030	3"	10	31.14		435-025	2 1/2"	10	10.95
	417-040	4"	5	55.84		435-030	3"	10	14.70
	417-050	5"	5	110.74		435-040	4"	5	24.34
	417-060	6"	4	137.93		435-050	5"	5	63.02
	417-080	8"	4	331.75		435-060	6"	4	89.59
						435-080	8"	4	168.90



PIPES, FITTINGS & VALVES

LASCO
Fittings, Inc.

Schedule 40 Fittings

MALE ADAPTER (MIPT x slip)	Part	Description	Pkg	List	REDUCER BUSHING (sp x slip) con't	Part	Description	Pkg	List
	Part	Description	Pkg	List		Part	Description	Pkg	List
	436-005	1/2"	100	1.00		437-290	2 1/2 x 1 1/4	10	7.88
	436-007	3/4"	50	1.09		437-291	2 1/2 x 1 1/2	10	7.88
	436-010	1"	50	1.97		437-292	2 1/2 x 2	10	7.88
	436-012	1 1/4"	25	2.40		437-335	3 x 1	10	11.64
	436-015	1 1/2"	25	3.23		437-336	3 x 1 1/4	10	11.64
	436-020	2"	25	4.21		437-337	3 x 1 1/2	10	11.64
	436-025	2 1/2"	10	12.48		437-338	3 x 2	10	11.64
	436-030	3"	10	18.22		437-339	3" x 2 1/2"	10	11.64
	436-040	4"	5	23.25		437-420	4" x 2"	10	26.01
	436-050	5"	5	38.31		437-421	4" x 2 1/2"	5	26.01
	436-060	6"	4	60.62		437-422	4" x 3"	5	26.01
	436-074	1/2" x 3/4"	50	1.97		437-488	5" x 3"	5	36.58
	436-080	8"	4	275.46		437-528	6" x 2"	5	64.37
	436-101	3/4" x 1/2"	50	1.83		437-530	6" x 3"	5	64.37
	436-102	3/4" x 1"	50	2.82		437-532	6" x 4"	5	64.37
	436-131	1" x 3/4"	50	6.05		437-534	6" x 5"	5	64.37
	436-132	1" x 1 1/4"	25	6.57	REDUCER BUSHING (Sp. x FIPT)	438-101	3/4" x 1/2"	100	1.83
	436-168	1 1/4" x 1"	25	7.41		438-130	1" x 1/2"	100	2.96
	436-169	1 1/4"x1 1/2"	25	7.41		438-131	1" x 3/4"	100	2.96
	436-212	1 1/2"x 1 1/4"	25	8.97		438-167	1 1/4" x 3/4"	25	4.50
	436-213	1 1/2" x 2"	10	8.97		438-168	1 1/4" x 1"	25	4.50
	436-251	2" x 1 1/2"	10	10.22		438-209	1 1/2" x 1/2"	25	5.21
	436-252	2" x 2 1/2"	10	15.91		438-210	1 1/2" x 3/4"	25	5.21
	436-293	2 1/2" x 3"	10	19.24		438-211	1 1/2" x 1"	25	5.21
	436-341	3" x 4"	10	30.80		438-212	1 1/2" x 1 1/4"	25	5.21
REDUCER BUSHING (sp x slip)	437-101	3/4" x 1/2"	100	1.16		438-247	2" x 1/2"	10	6.97
	437-130	1" x 1/2"	100	2.09		438-248	2" x 3/4"	10	6.97
	437-131	1" x 3/4"	100	2.09		438-249	2" x 1"	10	6.97
	437-166	1 1/4" x 1/2"	25	2.82		438-250	2" x 1 1/4"	10	6.97
	437-167	1 1/4" x 3/4"	25	2.82		438-251	2" x 1 1/2"	10	6.97
	437-168	1 1/4" x 1"	25	2.82		438-289	2 1/2" x 1"	10	10.12
	437-209	1 1/2" x 1/2"	25	2.98		438-290	2 1/2" x 1 1/4"	10	10.12
	437-210	1 1/2" x 3/4"	25	2.98		438-291	2 1/2" x 1 1/2"	10	10.12
	437-211	1 1/2" x 1"	25	2.98		438-292	2 1/2" x 2"	10	10.12
	437-212	1 1/2" x 1 1/4"	25	2.98		438-335	3" x 1"	10	11.64
	437-247	2" x 1/2"	10	4.94		438-336	3" x 1 1/4"	10	11.64
	437-248	2" x 3/4"	10	4.94		438-337	3" x 1 1/2"	10	11.64
	437-249	2" x 1"	10	4.94		438-338	3" x 2"	10	11.64
	437-250	2" x 1 1/4"	10	4.94		438-339	3" x 2 1/2"	10	11.64
	437-251	2" x 1 1/2"	10	4.94		438-420	4" x 2"	5	25.96
	437-287	2 1/2 x 1/2	10	10.00		438-421	4" x 2 1/2"	5	25.96
	437-288	2 1/2 x 3/4	10	10.00		438-422	4" x 3"	5	25.96
	437-289	2 1/2 x 1	10	7.88		438-490	5" x 4"	4	50.64
						438-532	6" x 4"	5	95.04

Schedule 40 Fittings

	Part	Description	Pkg Qty	List (ea)		Part	Description	Pkg Qty	List (ea)
REDUCER BUSHING (MIPT x FIPT) 	439-101	3/4" x 1/2"	50	3.23	PLUG (SP) 	449-005	1/2"	100	2.40
	439-130	1" x 1/2"	50	4.50		449-007	3/4"	100	2.82
	439-131	1" x 3/4"	50	4.50		449-010	1"	50	3.37
	439-166	1 1/4" x 1/2"	25	6.71		449-012	1 1/4"	25	4.50
	439-167	1 1/4" x 3/4"	25	6.71		449-015	1 1/2"	25	5.76
	439-168	1 1/4" x 1"	25	6.71		449-020	2"	25	7.12
	439-209	1 1/2" x 1/2"	25	8.14		449-025	2 1/2"	10	12.15
	439-210	1 1/2" x 3/4"	25	8.14		449-030	3"	10	16.07
	439-211	1 1/2" x 1"	25	8.14		449-040	4"	5	36.40
	439-212	1 1/2" x 1 1/4"	25	8.14	PLUG (MIPT) 	450-005	1/2"	100	2.98
	439-249	2" x 1"	10	8.68		450-007	3/4"	100	3.18
	439-250	2" x 1 1/4"	10	8.68		450-010	1"	50	5.21
	439-251	2" x 1 1/2"	10	8.68		450-012	1 1/4"	25	5.49
	439-292	2 1/2" x 2"	10	30.38		450-015	1 1/2"	25	5.85
	439-338	3" x 2"	5	35.90		450-020	2"	25	7.57
CAP (slip) 	447-005	1/2"	100	1.00		450-025	2 1/2"	10	10.53
	447-007	3/4"	100	1.16		450-030	3"	10	15.95
	447-010	1"	50	1.83		450-040	4"	5	35.99
	447-012	1 1/4"	25	2.57					
	447-015	1 1/2"	25	2.82					
	447-020	2"	25	3.37					
	447-025	2 1/2"	10	10.79					
	447-030	3"	10	11.75					
	447-040	4"	5	26.76					
	447-050	5"	5	44.97					
CAP (FIPT) 	447-060	6"	5	64.19					
	448-005	1/2"	100	2.09					
	448-007	3/4"	100	2.40					
	448-010	1"	50	3.64					
	448-012	1 1/4"	25	4.32					
	448-015	1 1/2"	25	4.50					
	448-020	2"	25	7.99					
	448-025	2 1/2"	10	11.75					
	448-030	3"	10	15.38					
	448-040	4"	5	27.03					



PIPES, FITTINGS & VALVES

LASCO
Fittings, Inc.

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	32.40		851-015	1 1/2	10	35.21
	306-020	2 Surge Guard 90° Elbow	25	19.49		851-020	2	10	46.84
	317-020	2 Surge Guard 45° Elbow	25	21.70		851-025	2 1/2	5	169.05
	301-025	2 1/2 Surge Guard Tee	10	67.88		851-030L	3	5	79.86
	306-025	2 1/2 Surge Guard 90° Elbow	10	54.84		851-040L	4	5	101.14
	317-025	2 1/2 Surge Guard 45° Elbow	10	34.24	851-060	6	5	159.01	
	365-025	2 1/2 Surge Guard 22 1/2° Elbow	10	41.14	FLANGE (solid ring - FIPT)	852-015	1 1/2	10	64.93
	ACME SERVICE FITTINGS (slip x ACME)	302-251	2 x 2 x 1 1/2 Service Tee	10	33.08		852-020	2	10
302-291		2 1/2 x 2 1/2 x 1 1/2 Service Tee	5	47.58		852-030	3	5	157.12
302-337		3 x 3 x 1 1/2 Service Tee	5	98.37		852-040	4	5	295.24
307-251		2 x 1 1/2 Service Elbow	10	26.45		854-020	2	10	46.79
307-291		2 1/2 x 1 1/2 Service Elbow	5	35.89		854-030	3	5	79.83
307-337		3 x 1 1/2 Service Elbow	5	73.13		854-040	4	5	100.96
598-251		2 x 1 1/2 Service Bushing	10	23.00	FLANGE GASKETS	854-050	5	5	158.85
ACME TAP TEE (GASKETED)		344-251	2 x 2 x 1 1/2	5	132.96		854-060	6	5
	344-291	2 1/2 x 2 1/2 x 1 1/2	5	177.65	854-080		8	5	258.70
	344-337	3 x 3 x 1 1/2	5	238.57	GKT-020		2	1	21.00
	344-419	4 x 4 x 1 1/2	5	309.23	GKT-025		2 1/2	1	25.20
	ACME TAP TEE (SADDLE)	364-251	2 x 1 1/2	5	93.51			GKT-030	3
364-337		3 x 1 1/2	5	127.64	GKT-040	4		1	50.40
364-419		4 x 1 1/2	5	154.51	GKT-060	6		1	77.70
TEE (slip x slip x slip)		801-015	1 1/2	5	52.09			GKT-080	7
	801-030	3	5	88.54	898-005		1/2	10	22.08
	801-040	4	5	102.60	898-007		3/4	10	30.92
	801-060	6	4	350.24	898-010		1	10	41.10
	801-080	8	2	812.31	898-012		1 1/4	5	78.44
					898-015		1 1/2	5	97.13
					898-020	2	5	149.39	
					898-030	3	5	378.99	
					UNION (O-Ring type) (slip x slip)	897-007	3/4	10	24.18
						897-010	1	10	27.60
						897-012	1 1/4	5	54.81
						897-015	1 1/2	5	62.06
						897-020	2	5	84.11
						897-030	3	5	156.65

Schedule 80 Fittings

COUPLINGS	Part	Description	Pkg Qty List (ea)		REDUCERS (SP x slip)	Part	Description	Pkg Qty List (ea)		
	829-010	1"	25	12.92			837-249	2 x 1	10	26.07
	829-015	1 1/2"	10	21.22	837-292		2 1/2 x 2	10	45.32	
	829-020	2"	10	22.77	837-338		3 x 2	5	71.88	
	829-025	2 1/2"	5	56.06	837-339		3 x 2 1/2	5	71.88	
	829-030	3"	5	64.38	837-422		4 x 3	5	99.52	
	829-040	4"	5	80.60	837-530		6 x 3	5	138.36	
	829-060	6"	5	173.44	837-532		6 x 4	5	138.36	
	829-080	8"	4	236.06						
MALE ADAPTERS	836-010	1"	25	20.72	REDUCERS (SP x FIPT)	838-249	2 x 1	10	26.65	
836-015	1 1/2"	10	34.79	838-251		2 x 1 1/2	10	26.65		
	836-020	2"	10	50.32		838-292	2 1/2 x 2	10	56.42	
	836-025	2 1/2"	5	57.18		838-338	3 x 2	5	104.49	
	836-030	3"	5	63.46		838-339	3 x 2 1/2	5	104.49	
	836-040	4"	5	112.93		838-420	4 x 2	5	160.51	
NIPPLES	884-020	1" x 2"	50	2.87	REDUCERS (MIPT x FIPT)	839-249	2 x 1	10	33.13	
	884-030	1" x 3"	50	3.32			839-251	2 x 1 1/2	10	33.13
	884-040	1" x 4"	50	3.91			839-338	3 x 2	5	60.95
	884-060	1" x 6"	50	5.38			839-339	3 x 2 1/2	5	60.95
	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 1 1/2	5	57.49
	886-030	1 1/2" x 3"	25	5.38		801-292	2 1/2 x 2 1/2 x 2	5	57.49	
	886-040	1 1/2" x 4"	25	6.17		801-337	3 x 3 x 1 1/2	5	80.80	
	886-060	1 1/2" x 6"	25	8.05		801-338	3 x 3 x 2	5	80.80	
	886-080	1 1/2" x 8"	25	9.67		801-420	4 x 4 x 2	5	130.57	
	887-025	2" x 2 1/2"	10	6.32		801-422	4 x 4 x 3	5	130.57	
	887-030	2" x 3"	10	6.72		801-530	6 x 6 x 3	5	260.85	
	887-040	2" x 4"	10	7.79		801-532	6 x 6 x 4	5	350.24	
	887-060	2" x 6"	10	10.25						
	887-080	2" x 8"	10	12.52						
CAPS (slip)	847-020	2"	10	40.52						
	847-030	3"	5	96.82						
	847-040	4"	5	163.28						
	847-060	6"	2	406.15						
ELBOWS (slip x slip)	865-020	2" - 22 1/2°	10	50.77						
	816-025	2 1/2" - 22 1/2°	5	208.00						
	817-025	2 1/2" - 45°	5	90.68						
	865-030	3" - 22 1/2°	5	130.12						
	817-030	3" - 45°	5	110.39						
	806-030	3" - 90°	5	48.11						



PIPES, FITTINGS & VALVES

LASCO
Fittings, Inc.

Swing Joints

SWING JOINTS						
	Part	Inlet (Inches)	Riser (Inches)	Outlet (Inches)	Pkg Qty	List (ea)
	G1M0-212	1 1/2 Acme	1 x 12	1 Acme	15	87.51
	G130-212	1 MPT	1 x 12	1 Acme	15	87.51
	G130-218	1 MPT	1 x 18	1 Acme	15	97.01
	G132-212	1 MPT	1 x 12	1 Mipt	15	87.51
	G132-218	1 MPT	1 x 18	1 Mipt	15	97.01
	G1MA-212	1 1/2 Acme	1 x 12	1 1/4 Acme	15	87.51
	G1MS-212	1 1/2 Acme	1 x 12	1 Brass MPT Q/C	15	178.43
	G1MS-218	1 1/2 Acme	1 x 18	1 Brass MPT Q/C	15	187.93
	G13S-212	1 MPT	1 x 12	1 Brass MPT Q/C	15	178.43
	G230-212	1 1/4 MPT	1 1/4 x 12	1 1/4 Acme	15	116.13
	G2M8-212	1 1/4 Acme	1 1/4 x 12	1 1/4 Acme	15	116.13
	G238-212	1 1/4 MPT	1 1/4 x 12	1 1/2 Acme	15	116.13
	G3M0-212	1 1/2 Acme	1 1/2 x 12	1 1/2 Acme	15	141.20
	G3M0-218	1 1/2 Acme	1 1/2 x 18	1 1/2 Acme	15	150.65
	G3MC-212	1 1/2 Acme	1 1/2 x 12	1 Acme	15	141.20
	G3MA-212	1 1/2 Acme	1 1/2 x 12	1 1/4 Acme	15	141.20
	G330-212	1 1/2 MPT	1 1/2 x 12	1 1/2 Acme	15	141.20
	G332-212	1 1/2 MPT	1 1/2 x 12	1 1/2 MPT	15	141.20
	G332-218	1 1/2 MPT	1 1/2 x 18	1 1/2 MPT	15	150.65
	REPLACEMENT PARTS					
	G100-002	1 Outlet Elbow (1 F Acme x 1 M Acme)			5	24.58
	G300-002	1 1/2 Outlet Elbow (1 1/2 F Acme x 1 1/2 M Acme)			5	42.86
	G102-000	1 Outlet Elbow (Acme x MIPT)			5	10.70
	G302-000	1 1/2 Outlet Elbow (Acme x MIPT)			5	23.36
	G102-211	1 x 1 1/2 Enlarging Outlet (Acme x MIPT)			5	29.86
	G108-211	1 x 1 1/2 Enlarging Outlet (Acme x ACME)			5	29.86
	G208-212	1 1/4 x 1 1/2 Enlarging Outlet (Acme x Acme)			5	38.38
	G302-133	1 1/2 x 1 Reducing Outlet (Acme x MIPT)			5	38.38
	G308-133	1 1/2 x 1 Reducing Outlet (Acme x Acme)			5	38.38
	G308-212	1 1/2 x 1 1/4 Reducing Outlet (Acme x Acme)			5	38.38
	G001-006	1 Inlet (Acme x Acme)			5	11.91
	G001-004	1 1/2 Inlet (Acme x Acme)			5	19.47
	G001-011	Male Brass Elbow for QC			5	62.97
	G001-014	1 1/2 x 1 Inlet (Acme x Acme)			5	11.91
	G001-016	1 1/2 x 1 1/4 Inlet (Acme x Acme)			5	14.67
	G130-000	1 Mipt x Acme Inlet			5	11.91
	G330-000	1 1/2 MIPT x Acme Inlet			5	19.47
	G100-208	1 x 8 Replacement Riser			5	38.67
	G100-212	1 X 12 Replacement Riser			5	45.22
	G100-218	1 x 18 Replacement Riser			5	50.31
	A36-132	1 1/4 Fem Acme x 1 Male Acme Adaptor			10	29.50

LASCO
Fittings, Inc.

Swing Joints Replacement Parts Cont'd

 RISERS	Part	Description (Inches)	Pkg Qty	List (ea)	 TEST CAP	Part	Description (Inches)	Pkg Qty	List (ea)
	G200-208	1 1/4 x 8 Riser	5	47.79		G548-010	1 Acme Test Cap	50	6.11
	G200-212	1 1/4 x 12 Riser	5	55.92		G548-012	1 1/4 Acme Test Cap	25	6.93
	G200-218	1 1/4 x 18 Riser	5	62.11		G548-015	1 1/2 Acme Test Cap	25	7.49
	G300-208	1 1/2 x 8 Riser	5	58.32	 O-RING	G53010	1 O-Ring for Acme Swing Joint	1	3.77
	G300-212	1 1/2 x 12 Riser	5	68.28		G53012	1.25 O-Ring for Acme Swing Joint	1	5.19
	G300-218	1 1/2 x 18 Riser	5	75.90		G53015	1 1/2 O-Ring for Acme Swing Joint	1	5.85
 ADAPTORS	G102-010	1 Acme x FIPT	25	12.45					
	G302-015	1 1/2 Acme x FIPT	25	18.31					
 EXTENSIONS	G587-002	1 x 7 Extension	15	19.14					
	G587-001	1 1/2x7 Extension	15	31.11					
 	305-015	1 1/2 Tee (Acme)	10	33.08					

TORO

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	175.00
	TSJ-15A10-18-3-10A	1 1/2 Acme	1 x 18	1 Acme	10	203.00
	TSJ-15A-12-3-15A	1 1/2 Acme	1 1/2 x 12	1 1/2 Acme	10	303.00
	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	328.00
	TSJ-15A10-12-3-10Q	1 1/2 Acme	1 x 12	1 Brass MPT Q/C	10	369.00
	TSJ-15A10-18-3-10Q	1 1/2 Acme	1 x 18	1 Brass MPT Q/C	10	384.00
	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	122.00
	TA90-015	1 1/2 Elbow (Acme x Female Swing)			50	171.00
	483-010	1 Elbow (FS x FS)			50	26.41
	483-015	1 1/2 Elbow (FS x FS)			50	51.51

DURA

Dura parts also can be used with Toro Swing Joints

 REPLACEMENT PARTS CONT....	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	499.80
	80301	3 x 3 x 2 1/2	622.65
	80302	3 x 3 x 2	601.65
	80400	4 x 4 x 4	647.85
	80401	4 x 4 x 3	639.45
	80402	4 x 4 x 2 1/2	622.65
	80403	4 x 4 x 2	610.05
	80600	6 x 6 x 6	1,046.85
	80601	6 x 6 x 4	982.80
	80602	6 x 6 x 3	822.15
	80603	6 x 6 x 2 1/2	822.15
	80604	6 x 6 x 2	801.15
	80800	8 x 8 x 8	1,517.25
	80801	8 x 8 x 6	1,504.65
	80802	8 x 8 x 4	1,491.00
	80803	8 x 8 x 3	1,046.85
	8080802	8 x 8 x 2 1/2	1,122.45
	8080801	8 x 8 x 2	1,105.65
	81000	10 x 10 x 10	2,339.40
	80430	4 x 3	279.30
	80432	4 x 2 1/2	270.90
	80434	4 x 2	270.90
	80632	6 x 4	478.80
	80634	6 x 3	432.60
	80636	6 x 2 1/2	499.80
	80638	6 x 2	491.40
	80832	8 x 6	568.05
	80834	8 x 4	568.05
	80836	8 x 3	589.05
	80838	8 x 2 1/2	589.05
	81030	10 x 8	995.40
	81032	10 x 6	995.40
	81034	10 x 4	995.40
	81036	10 x 3	626.85

Harco Restraints

PIPE-TO-PIPE			
	Part	Description (Inches)	List
	820115	2	282.45
	820215	2 1/2	352.80
	820315	3	531.30
	820415	4	653.10
	820615	6	852.60
	820815	8	1,069.95
	821015	10	2,009.70



**Leemco products
also available**



ELBOW			
	Part	Description (Inches)	List
  	80220	2 1/2 90°	266.70
	80320	3 90°	355.95
	80420	4 90°	414.75
	80620	6 90°	826.35
	80820	8 90°	1,063.65
	80322	3 45°	309.75
	80422	4 45°	381.15
	80622	6 45°	622.65
	80822	8 45°	974.40
	80324	3 22 1/2°	313.95
	80424	4 22 1/2°	381.15
	80624	6 22 1/2°	525.00
	80824	8 22 1/2°	940.80
	80426H	4 11 1/4°	453.60
	80626	6 11 1/4°	686.70
	80826	8 11 1/4°	940.80
   	Knuckle		
	60-100-02	2	151.20
	60-100-25	2 1/2	173.25
	60-100-03	3	186.90
	60-100-04	4	308.70
	Fitting to Pipe		
	820210	2 1/2	256.20
	820310	3	278.25
	820410	4	361.20
	820610	6	469.35
	820810	8	631.05
	CLAMSHELL - Fitting to Pipe		
	820411	4	361.20
	820611	6	469.35
	820811	8	631.05
	Valve to Pipe		
	820225	2 1/2	817.95
	820325	3	852.60
	820425	4	1,000.65
	820625	6	1,235.85
	820825	8	1,552.95

FITTING-TO - VALVE-TO-PIPE			
	Part	Description (Inches)	List
	820121	2	678.30
	820221	2 1/2	704.55
	820321	3	722.40
	820421	4	795.90
	820621	6	921.90
	820821	8	1,061.55



Harco Valves

 SWIVEL VALVES	Part	Description - Grip Rings	Pkg Qty	List (ea)
	8411062PN	2" x 6" gasket x male Swivel DI	1	1,218.00
	8412062PN	2 1/2" x 6" gasket x male Swivel DI	1	1,831.00
	8413062PN	3" x 6" gasket x male Swivel DI	1	1,787.00
	8414062PN	4" x 6" gasket x male Swivel DI	1	2,120.00
 SWIVEL VALVES	8411062PR	2" x 6" gasket x male Swivel SS	1	1,218.00
	8412062PR	2 1/2" x 6" gasket x M Swivel SS	1	1,831.20
	8413062PR	3" x 6" gasket x male Swivel SS	1	1,787.10
	8414062PR	4" x 6" gasket x male Swivel SS	1	2,119.95
 SWIVEL EXTENSION (Male Swivel x Female Swivel)	Part	Description	Pkg Qty	List (ea)
	87106	6"	1	122.85
	87112	12"	1	199.50
 SWIVEL VALVE TEES	8015405	2"	1	276.15
	8025405	2 1/2"	1	276.15
	8035405	3"	1	414.75
	8045405	4"	1	474.60
	8065405	6"	1	618.45
	8085405	8"	1	885.15
	8105405	10"	1	1,767.15
 CROSSOVER RINGS	82103	3" D.I.	1	156.45
	82104	4" D.I.	1	156.45
	82106	6" D.I.	1	203.70
 ACME TAP TEE	H110815A	2" x 1 1/2"	16	141.75
	H110715A	2 1/2" x 1 1/2"	16	189.00
	H110615A	3" x 1 1/2"	16	254.10
 SWIVEL ADAPTER	875-025-08	2" Msvl x 2" Fnpt	1	211.00



VISIT HARCO FITTINGS
FOR MORE INFORMATION



PIPES, FITTINGS & VALVES



PVC Gasketted Fittings

	Part	Description (Inches)	Pkg Qty	List (ea)
TAP TEE 	H110810	2 x 2 x 1 G x G x Fipt	12	141.75
	H110815	2 x 2 x 1 1/2 G x G x Fipt	12	141.75
	H110710	2 1/2 x 2 1/2 x 1 G x G x Fipt	12	189.00
	H110715	2 1/2 x 2 1/2 x 1 1/2 G x G x Fipt	12	189.00
	H110610	3 x 3 x 1 G x G x Fipt	12	254.10
	H110615	3 x 1 1/2 G x G x Fipt	12	254.10
	H110510	4 x 4 x 1 G x G x Fipt	8	328.65
	H110515	4 x 4 x 1 1/2 G x G x Fipt	8	328.65
	H110415	6 x 6 x 1 1/2 G x G x Fipt	6	423.15
TEE 	H01-030	3 Tee GxGxG	1	284.55
	H01-040	4 Tee GxGxG	1	446.25
	H01-060	6 Tee GxGxG	1	980.70
	H01-080	8 Tee GxGxG	1	1,732.50
	H01-292	2 1/2 x 2 1/2 x 2 GxGxG	1	268.80
	H01-338	3 x 3 x 2 GxGxG	1	284.55
	H01-339	3 x 3 x 2 1/2 GxGxG	1	284.55
	H01-420	4 x 4 x 2 GxGxG	1	437.85
	H01-421	4 x 4 x 2 1/2 GxGxG	1	437.85
	H01-422	4 x 4 x 3 GxGxG	1	437.85
	H01-528	6 x 6 x 2 GxGxG	1	980.70
	H01-530	6 x 6 x 3 GxGxG	1	980.70
	H01-532	6 x 6 x 4 GxGxG	1	980.70
	H01-582	8 x 8 x 4 GxGxG	1	1,654.80
	H01-585	8 x 8 x 6 GxGxG	1	1,693.65
90° ELBOW 	H06-030	3 90° Elbow GxG	1	185.85
	H06-040	4 90° Elbow GxG	1	318.15
	H06-060	6 90° Elbow GxG	1	583.80
	H06-080	8 90° Elbow GxG	1	1,137.15
45° ELBOW 	H17-030	3 45° Elbow GxG	1	185.85
	H17-040	4 45° Elbow GxG	1	318.15
	H17-060	6 45° Elbow GxG	1	583.80
	H17-080	8 45° Elbow GxG	1	1,137.15
REDUCERS 	H37-338	3 x 2 Reducer PExG	1	157.50
	H37-339	3x2 1/2 Reducer PExG	1	165.90
	H37-420	4 x 2 Reducer PExG	1	182.70
	H37-421	4 x 2 1/2 Reducer PExG	1	191.10
	H37-422	4 x 3 Reducer PExG	1	191.10
	H37-530	6 x 3 Reducer PExG	1	344.40
	H37-532	6 x 4 Reducer PExG	1	526.05
	H37-585	8 x 6 Reducer PExG	1	892.50



Repair Fittings

KWIK REPAIR COUPLERS 	Part	Description (Inches)	Pkg Qty	List (ea)
	KRC429-015	1/2	1	24.00
	KRC429-020	2	1	35.00
	KRC429-025	2 1/2	1	53.00
	KRC429-030	3	1	77.00
	KRC429-040	4	1	117.00
TELESCOPING-COUPLING 	22310-R	1	25	31.00
	22315-R	1 1/2	15	32.00
	22320-R	2	10	48.00
	22325-R	2 1/2	10	79.00
	22330-R	3	5	111.00
	22340-R	4	5	158.00
COMPRESSION COUPLING 	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
HARCO REPAIR COUPLING 	H10290	1-1/2	24	89.25
	H10280	2	24	98.70
	H10270	2 1/2	24	108.15
	H10260	3	24	135.45
	H10250	4	12	243.60
	H10240	6	6	427.35
	H10230	8	4	880.95
DUCTILE IRON REPAIR FITTINGS 	80340	3"	1	304.50
	80440	4"	1	384.30
	80640	6"	1	599.55
	80840	8"	1	741.30



Vitauglic 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	305.00
	P220-26-06	P220G Series Plastic Valve, 1 1/2"	12	431.00
	P220-26-08	P220G Series Plastic Valve, 2"	4	609.00
	P220G-27-04	P220G Series Plastic Valve, 1" w/pressure regulator	24	567.00
	P220G-27-04DL	P220G-DL Series Plastic Valve	24	567.00
	P220G-27-06	P220G Series Plastic Valve, 1 1/2" w/pressure regulator	12	672.00
	P220G-27-06DL	P220G-DL Series Plastic Valve	12	672.00
	P220G-27-08	P220G Series Plastic Valve, 2" w/pressure regulator	4	873.00
	P220G-27-08DL	P220G-DL Series Plastic Valve	4	873.00
	P220GS-27-04	P220G Plastic Scrubber Valve, 1" w/pressure regulator	24	742.00
	P220GS-27-04DL	P220G-DL Plastic Scrubber Valve	24	742.00
	P220GS-27-06	P220G Plastic Scrubber Valve, 1 1/2" w/pressure regulator	12	873.00
	P220GS-27-06DL	P220G-DL Plastic Scrubber Valve	12	873.00
	P220GS-27-08	P220G Plastic Scrubber Valve, 2" w/pressure regulator	4	1,076.00
	P220GS-27-08DL	P220G-DL Plastic Scrubber Valve	4	1,076.00

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												
1½"	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)
HEAVY DUTY GATE	GU-1.5	1 1/2 Threaded	1	538.00
	GU-2	2 Threaded	1	712.00
	GU-2 1/2	2 1/2 Threaded	1	1,364.00
	GU-3	3 Threaded	1	1,212.00
	B510T04	3/4" Threaded	10	35.00
	B510T05	1" Threaded	10	52.00
	B510T07	1 1/2 Threaded	5	93.00
	V10101N-SC	1 Slo-Close valve	1	394.80
	V17101N-SC	1 1/2 Slo-Close valve	1	501.90
	V20101N-SC	2 Slo-Close valve	1	775.95
	VALVE KEY-1	Valve Key for 1" valves	1	9.66
	V417681	44" Valve Key for 2" valves	1	725.30
 MUELLER	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
 Leemco, INC. Piping Solutions	LMV-11BB	2" Bell x Bell Push-On, Self-restrained	1	1,313.00
	LMV-22BB	2.5" Bell x Bell Push-On, Self-restrained	1	1,379.00
	LMV-33BB	3" Bell x Bell Push-On, Self-restrained	1	1,493.00
	LMV-44BB	4" Bell x Bell Push-On, Self-restrained	1	2,081.00
	LMV-66BB	6" Bell X Bell Push-On, Self-restrained	1	2,625.00
	Many other Leemco products available. Call for details.			
	10RT020	2 Gasket x gasket	1	676.00
	10RT025	2 1/2 Gasket x gasket	1	795.00
	10RT030	3 Gasket x gasket	1	981.00
	10RT040	4 Gasket x gasket	1	1,192.00
	10RT060	6 Gasket x gasket	1	1,709.00
	10RT080	8 Gasket x gasket	1	2,944.00
	*Bonnet Assemblies available for all valves.			
	UT69000	60 Valve Key Wrench	1	225.00
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	44.00
	B750T06	1 1/4 Threaded	24	68.00
	B750T07	1 1/2 Threaded	16	91.00
	B750T08	2 Threaded	8	141.00
	B750T09	2 1/2 Threaded	4	323.00
	B750T10	3 Threaded	1	435.00
 BALL VALVES-PVC	2411-020W	2 Threaded	1	30.00
	2411-025W	2 1/2 Threaded	1	71.00
	2411-030W	3 Threaded	1	122.00
	2412-020W	2 Slip	1	30.00
	2412-025W	2 1/2 Slip	1	71.00
	2412-030W	3 Slip	1	122.00

Hydraulic Tubing & Fittings

	Part	Description (Inches)	List (ea)
	900-14	Hydraulic Tubing 2000' Coil (Single Foot p/n = 900-14-1)	1,434.00
	1-1107	1/8 x 1/4 Tubing Adapter	45.12
	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	4.50
	900-30	Tubing Coupler, Brass	8.00
	900-40	Tubing Retainer	2.00
	900-50	Tubing Tee, Brass	26.00
	900-70	Tubing Plug, Plastic	2.00
	850-21	1/4" Plastic Coupler	2.96
	850-22	1/4" Plastic Tee	9.75
	9-8364	Supply Line Filter	179.39

Pressure Reducing Valves

	Part	Description (Inches)	Pkg Qty	List (ea)
	LFN55BM1-U	1 Threaded With Union	1	358.00
	BPRV015	1 1/2 Pressure Reducing	1	1,060.00
	BPRV020	2 Pressure Reducing	1	2,132.00

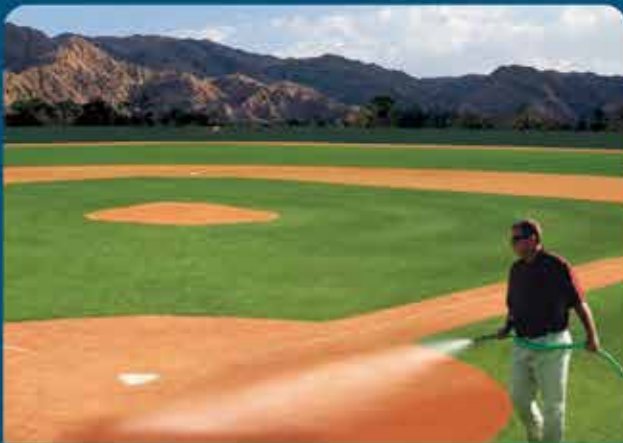


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HARDWARE & ACCESSORIES



NDS Pro Series Valve Boxes

	Part	Description (Inches)	Pkg Qty	List (ea)
	VB007B-S	7 Round Economy, Black (with Lid)	1	10.79
	VB007	7 Round Standard, Green (with Lid)	1	29.00
	VBC007	7 Round Lid only	1	14.00
	VB010	10 Round Standard, Green (with Lid)	1	63.00
	VBC010	10 Round Lid only	1	34.00
	VB012	Standard Rectangular 12 x 17 (with Lid)	1	163.00
	VBC012	12 x 17 Rectangular Lid only	1	51.00
	VB1420	Jumbo Rectangular 15 x 21 (with Lid)	1	237.00
	VB1420EL	Jumbo Rectangular Extension – 6 high (with Lid)	1	425.00
	VBC1420	15 x 21 Rectangular Lid only	1	164.00
	VB1730	Super Jumbo Rectangular 17 x 30 (with Lid)	1	1,201.00
	VBC1730	17 x 30 Rectangular Lid only	1	507.00
NDS Valve Boxes available in Green, Black, Purple, and Grey.				
	Accessories			
	Part	Description	Pkg Qty	List (ea)
	VBLOCK	Locking Bolt	1	9.00

Toro Valve Boxes

	Part	Description (Inches)	Pkg Qty	List (ea)
	TVB-6RND-X	6 Round (With Lid)	1	24.00
	TVB-6LID-X	6 Round Lid Only	1	12.00
	TVB-7RND-X	7 Round (With Lid)	1	70.00
	TVB-7LID-X	7 Round Lid Only	1	22.00
	TVB-10RND-X	10 Round (With Lid)	1	94.00
	TVB-10LID-X	10 Round Lid Only	1	32.00
	TVB-1217-12-X	12 x 17 x 12 Rectangular (With Lid)	1	183.00
	TVB-1217-EXT6BOX-X	12 x 17 x 6 Rectangular Extension Only	1	153.00
	TVB-1217LID-X	12 x 17 Rectangular Lid Only	1	74.00
	TVB-1521-12-X	15 x 21 x 12 Jumbo Rectangular (With Lid)	1	338.00
	TVB-1521-EXT6BOX-X	15 x 21 x 6 Jumbo Extension Only	1	298.00
	TVB-1521LID-X	15 x 21 Jumbo Rectangular Lid Only	1	151.00
	X = Colour: Green (G), Gray (GY), Tan (T), Black (BK), Brown (BR)			

*Carson Valve Boxes Available Upon Request

Wire & Electrical Accessories

POWER WIRE	Part	Description	Pkg	List (ea)
	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	
COMMUNICATION CABLE 	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	
MAXI WIRE 	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	78.00
PE SATELLITE WIRE 	CTWU-14X-PE-2500	*14 Gauge Solid-Spec.	2500ft	Call for pricing
	CTWU-12W-PE-2500	12 Gauge Solid White	2500ft	
	*Specify Colour: Black, Blue, Green, Red, Yellow, Orange			
GDC TWO-WIRE CABLE-JACKETED 	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
TRACER WIRE 	RWU90-YELLOW	14 Gauge Solid Yellow	2500ft	
WIRE CONNECTORS 	DBR/Y-6	3M Direct Burial Splice Kit, 18-12 Gauge	100	3.93
	DBO/B-6	3M Direct Burial Splice Kit, 18-12 Gauge	100	6.12
	DBR/Y-600	3M Direct Burial Splice Kit	25	6.67
	82-A1	3M Comm Cable Splice Kit, for 2-way splice	1	121.00
	82-A2	3M Comm Cable Splice Kit for 3-way splice	1	235.00
	85-10	3M Splice Kit, for 12-14G Power Cable	1	130.00
	85-12	3M Splice Kit, for 8-12G Power Cable	1	140.00
	3570	3M Scotchlok Seal Connector	1	18.99
	DBSR AQUA-100	King Direct Bury Splice Kit - Tracer Wire	1	9.80
	20630	King Splice Kit - Infinity Head	2	5.52
	90120	Yellow Dry Conn Waterproof Lug	5	34.10
	98105	Dry Conn DB Power Connect	3	71.52
*OTHER COLORS AVAILABLE				



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	100.00
	1820001C6	5/8" Ground Rod, 10' w/15' #6 insulated wire	1	220.00
	1820017C6	5/8" Ground Rod, 10' w/25' #6 insulated wire	1	295.00
	B-137-16	Driving Sleeve for above	1	373.80
	GT1-161LPLUS	1-2 #6 Wires	1	61.95
	NT1-161LPLUS	1-3 #6 Wires	1	71.40
	PLUSCU	Control Unit	1	973.35
	HDC58	Heavy Duty Clamp	1	21.00
	ESB2	Split Bolt for #6 gauge wire	1	30.45
	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	132.00
	POWER SET	Grounding Material 50 lbs	1	500.00
	POWER FILL	Grounding Material 50lbs	1	444.00
	GROUND PLATE	4"x36" Ground Plate	1	383.00
	GROUND PLATE-L	4"x96" Ground Plate	1	648.00



PVC Cements & Primers

PVC CEMENTS	Part	Description	Pkg Qty	List (ea)
	711HP	1/2 Pint, Grey	24	37.49
	711P	Pint, Grey	12	65.05
	711Q	Quart, Grey	12	111.35
	711G	Gallon, Grey	6	371.54
	725P	Pint, Wet 'R' Dry	12	59.54
	725Q	Quart, Wet 'R' Dry	12	95.92
PRIMER	P-70HP	1/2 Pint, Purple	24	30.87
	P-70P	Pint, Purple	12	54.02
	P-70Q	Quart, Purple	12	86.00
	P-70G	Gallon, Purple	6	287.75
	P-75Q	Quart, Wet 'R' Dry,	12	87.10
ACCESSORIES	DQ-150	Dauber w/cap for quart	100	5.51
	BCP	Brush	100	44.10
	CM-150	Adjustable dauber	50	22.05
	LUBE 1	1 kg Gasket Lube	12	25.20
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	10.82
	TEFLON TAPE 3/4	3/4" x 520"	10	2.00
	80510	Permatex Thread Sealant	12	38.68



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
REELCRAFT 	CH37118L	1" Hand Crank Reel with gooseneck (Hose not included)	1	1,958.00
Complete Reelcraft line available: Find it at www.reelcraft.com				
STANDARD HOSE 	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	309.00
	HOSE-2	0.75 x 50' Green, 375psi Burst Rating	1	193.00
PREMIUM ULTRA LIGHT WEIGHT HOSE - UNDERHILL 	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.			
FEATHERWEIGHT ULTRAMAX HOSE 	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 ACCESSORIES 	HOSE NOZZLE 1"	Red Fog Nozzle	1	47.25
	HOSE NOZZLE 3/4"	Green Fog Nozzle	1	38.85
	HOSE WASHER 1"	1" Hose Washers	1	1.51
UNDERHILL NOZZLES* 	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
HOSE ADAPTORS 	FM1010	1" Female NPT x 1" Male GHT	5	62.00
	DMH1010	1" Male NPT x 1" Male GHT	5	44.00
	BA-796	3/4" Male GHT x 3/4" Female NPT Adapter	1	14.00
	BA-776	3/4" Male GHT x 3/4" Male NPT Adapter	1	16.00



Additional Underhill products available upon request.

*Kochek Nozzles still available



HARDWARE & ACCESSORIES

Brass Impact Sprinklers

FULL CIRCLE 	Part	Description (Inches)	Pkg Qty	List (ea)
	403-11-06	3/4 Male Base	1	91.00
	350SA1408	1" FC, 7/32"-1/8" Dual nozzle	1	215.00
	405-24-14	1 1/4 Male Base	1	605.00
PART CIRCLE 	65P	1/2 Plastic	1	16.00
	432-10	1/2 Male Base	1	120.00
	433-10-06	3/4 Male Base	1	192.00
	434-18-08	1 Male Base	1	357.00
	435-24-14	1 1/4 Male Base	1	870.00
COUPLINGS 	G30-168	1 1/4 x 1 Galvanized Coupling	1	15.06
	G30-010	1 Galvanized Coupling	1	10.00
NIPPLES 	G884-030	1 x 3 Galvanized Nipple	1	8.00
	G884-040	1 x 4 Galvanized Nipple	1	10.00
	G884-060	1 x 6 Galvanized Nipple	1	13.00

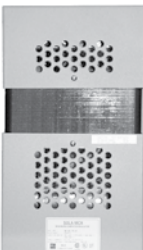
Quick Couplers

VALVE KEYS 	Part	Description (Inches)	Pkg Qty	List (ea)
	463-01	For 473-00 3/4 M x 1/2 F Top Thread	1	119.00
	464-01	For 474-00 3/4 F x 1" M QC Key	1	248.00
	464-02	For 474-00 1 Female Top Thread	1	205.00
	465-01	For 475-00 1 M x 3/4 F Top Thread (Industry Standard)	1	124.00
QUICK COUPLING VALVES 	473-00	3/4 Steel Cover	1	185.00
	474-00	1 Steel Cover (Repair Kit = #QCV100BKIT)	1	262.00
	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	372.00
	475-00T	1 Inlet x 1 1/4 Steel Cover (Toro)	1	314.00
	475-01	1 Inlet x 1 1/4 Vinyl Cover (Toro)	1	336.00
HOSE SWIVELS 	HS-075	3/4 x 3/4 FPT x MHT	1	139.00
	HS-100	1 x 3/4 FPT x MHT	1	160.00
	HS-101	1 x 1 FPT x MHT	1	100.00
AQUA-QUIK 	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	7.00
	58030	1/2 Ring Base	1	46.00
	RB2210	1" Metal Roller Base	2	322.00

Electrical Accessories

POWER CONDITIONERS 	Part	Description	Pkg Qty	List (ea)
	MCR120	120 VA Power Conditioner 120 Volt Output Only	1	2,352.00
	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
DATALINE PROTECTORS 	407T	AC Line Equipment Protector 7 Amps.	1	1,088.00
	DLPT-10-10	Signal Line Protector	1	653.00

Satellite Fuses

	Part	Description	Pkg Qty	List (ea)
	AGC-.5	1/2 amp Fast Blow	1	3.90
	AGC-7.5	7.5 amp Fast Blow	1	2.49
	GDL-3.2	3.2 amp Slow Blow	1	10.17
	GDB4-A	4 amp fuse for RDR card	1	5.24
	ATC-1	1 amp Blade Style	1	5.45
	ATC-3	3 amp Blade Style	1	4.16
	270WMT	Wire Marking Tags (25/bag)	25	122.00 (Per bag)



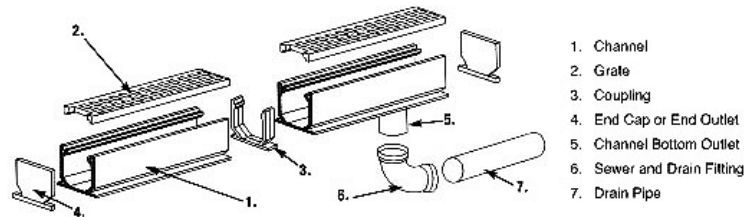
HARDWARE & ACCESSORIES



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	94.00
	NDS400	4 Spee-D Channel Drain	1	136.00
	NDS245	Spee-D Channel Strainer	1	49.00
	NDS247	Spee-D Channel End Cap	1	30.00
	NDS248	Spee-D Channel Coupling	1	31.00
	NDS249	Spee-D 3" & 4" Offset End Outlet	1	37.00
	NDS800	5 x 39 3/8" Deep Profile Drain	1	226.00
	NDS812	5 Deep End Cap	1	36.00
	NDS813	5 Deep End Outlet	1	40.00
	NDS814	5 x 20 Grate Gray	1	104.00
	NDS815	5 x 20 Grate Green	1	110.00
	NDS820	5 x 20 Shallow Profile Channel	1	165.00
	NDS821	5 Shallow End Cap	1	81.00
	NDS822	5 Shallow End Outlet	1	169.00



Drainage Pipe & Fittings

	Part	Description	Skid Qty	List per ft
	PBDS30	3" x 10' CAS MPVC Sleeving (SDR35)	1120	4.16
	PBDS40	4" x 10' CAS MPVC Sleeving (SDR35)	630	4.78

Fittings

	Part	Description (Inches)	Pkg Qty	List (ea)
	BD37-422	4 x 3 Reducer Bushing Sp x H	20	35.70
	BD29-422	4 x 3 Reducer Coupling H x H	30	29.40
	BD29-030	3 Coupling w/Pipe Stop H x H	50	16.80
	BD29-040	4 Coupling w/Pipe Stop H x H	40	18.90
	BD16-030	3 22 1/2° Elbow (1/16 Bend) H x H	40	40.95
	BD16-040	4 22 1/2° Elbow (1/16 Bend) H x H	30	34.65
	BD17-030	3 45° Elbow (1/8 Bend) H x H	30	27.30
	BD17-040	4 45° Elbow (1/8 Bend) H x H	25	32.55
	BD06-030	3 90° Elbow (1/4 Bend) H x H	30	39.90
	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	50.40
	BD01-040	4 x 4 x 4 Sanitary Tee H x H x H	20	65.10



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	35.00
		NDS430	Pop-up Drain Emitter w/Elbow/Universal Adaptor	1	131.00
SPEE-D® BASINS & GRATES		NDS101	6 Round-1 Outlet	10	71.00
		NDS201	6 Round-2 Outlets	10	71.00
		NDS50	6 Round Grate Green	10	38.00
		NDS20	8 Round Grate Green	10	54.00
		NDS80	6 Atrium Grate Green	1	64.00
CATCH BASINS & GRATES		NDS900	9 Square-2 Outlets	4	97.00
		NDS900-4	9 Square-4 Outlets	4	130.00
		NDS900GRKIT	9 Catch Basin Kit with Green Grate	1	159.98
		NDS990	9 Square Grate Green	8	125.00
		NDS916	9 x 9 x 6 Extension	4	109.00
		NDS1200	12 Square-2 Outlets	4	151.00
		NDS1200NGB	12 Next Generation Basin	4	224.00
		NDS1203	12 Square-3 Outlets	4	246.00
		NDS1204	12 Square-4 Outlets	4	259.00
		NDS1200GRKIT	12 Catch Basin Kit with Green Grate	1	215.38
		NDS1212	12 Square Grate Green	8	161.00
		NDS1280	12 Atrium Grate Green	1	245.00
		NDS1216	12 x 12 x 6 Square Extension Blk	8	112.00
		NDS1800	18 Square-2 Outlets	1	795.00
		NDS1812	18 Square Grate	4	641.00
		NDS1206	Universal Plug	20	20.00
		NDS1207	Open Side for 1200NGB Universal Outlet	8	16.79
		NDS1208	Plug Side for 1200NGB Closes one inlet/outlet	8	22.00
		NDS1243	3, 4 Outlet Connector	20	25.00
		NDS1266	6 Outlet Connector	20	34.00
		NDS13	4 Round Grate Green	25	16.00
		4C06	4 Drainage Corrugated End Cap	1	39.00

Additional drainage products available upon request: Find them at www.ndspro.com



GOLF CONTROL SYSTEMS

TORO

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

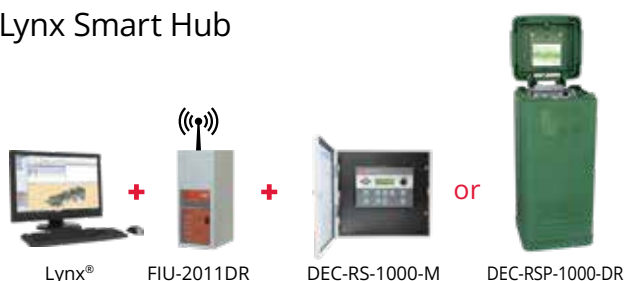


Lynx Smart Hub

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 76		
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



LTC Pro Satellite

- Intuitive user interface simplifies faceplate functions
- Enhanced manual operations
 - Runtimes to the second
 - Stackable multi-manuals
 - Start/Pause/Stop
- Can upgrade 1 satellite at a time
(full system must be upgraded prior to a Lynx upgrade)
- Compatible with SitePro and LYNX



Wireline Satellite

Part	Description	List (ea)
LTCR16P6M4	*16 Station Elec. Satellite w/ Modem M4	CALL FOR PRICING
LTCR40P6M4	*40 Station Elec. Satellite w/ Modem M4	
*Satellites expandable with the following parts		
102-0641	(M3) Board with Switches	CALL FOR PRICING
102-0642	(M4) Board with Gold Level Surge & Switches	
102-0654	8 Station Output Card	
118-2736	**Long ribbon cable, output to distributor brd.	
102-0638	8 Station Terminal Block Clip	
**Required on 8-station cards on the backside of 40-64 station satellites.		

Two-Way Radio Satellite

Part	Description	List (ea)
LTCR16P6R4	*16 Station Elec. Satellite w/ Radio	CALL FOR PRICING
LTCR40P6R4	*40 Station Elec. Satellite w/ Radio	
*Satellites expandable with the following parts		
102-0654	8 Station Output Card	CALL FOR PRICING
118-2736	**Long ribbon cable, output to distributor brd.	
102-0638	8 Station Terminal Block Clip	
102-0641	(M3) Board with Switches	
102-0642	(M4) Board with Gold Level Surge & Switches	
**Required on 8-station cards on the backside of 40-64 station satellites.		



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



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	



OSMAC RDR Hydraulic Satellite

- Can be used with a SitePro or Lynx Central
- Expandable modular design (16-48 stations)

Hydraulic Radio Satellite

Part	Description	Price
RDR16P01N0	16 Station Narrow Band Hydraulic Satellite	CALL FOR PRICING
RDR24P01N0	24 Station Narrow Band Hydraulic Satellite	
RDR32P01N0	32 Station Narrow Band Hydraulic Satellite	
RDR40P01N0	40 Station Narrow Band Hydraulic Satellite	
RDR48P01N0	48 Station Narrow Band Hydraulic Satellite	



GOLF CONTROL SYSTEMS

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



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

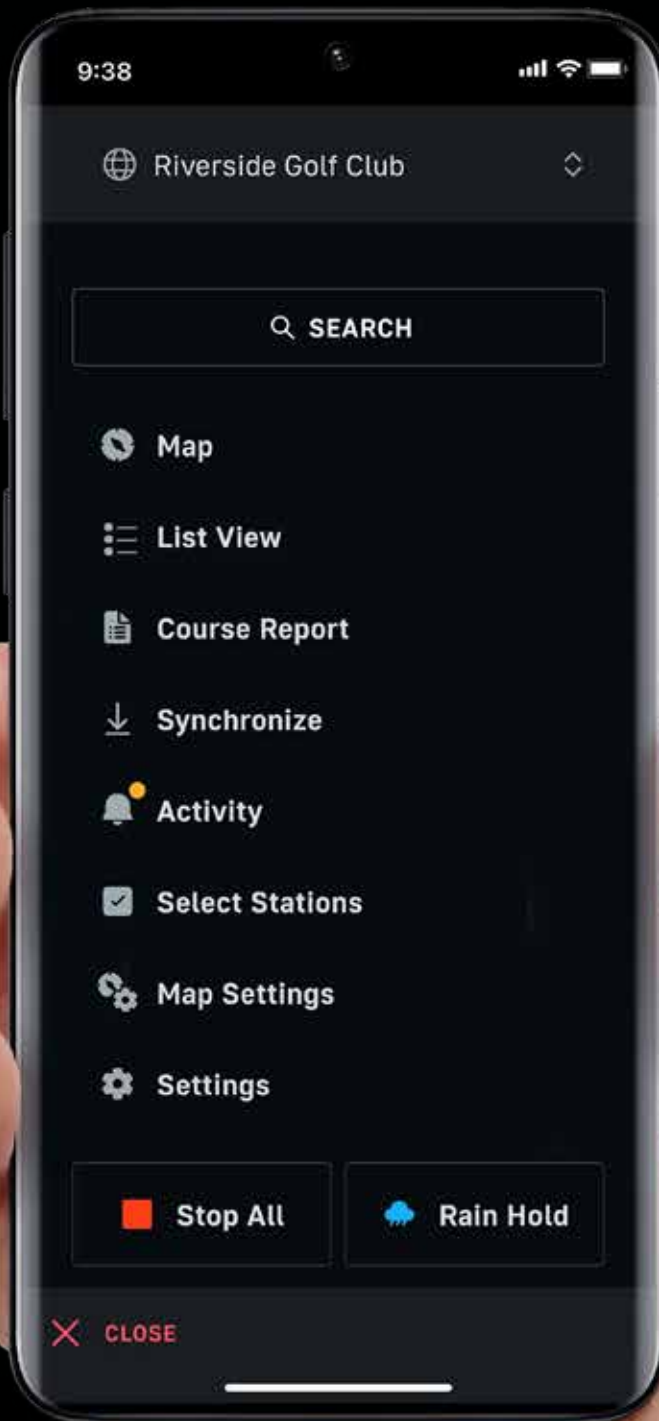
- Converts electric station output to existing hydraulic system
- Available in 4, 12 and 16 station converter

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	CALL FOR PRICING
	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	



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.

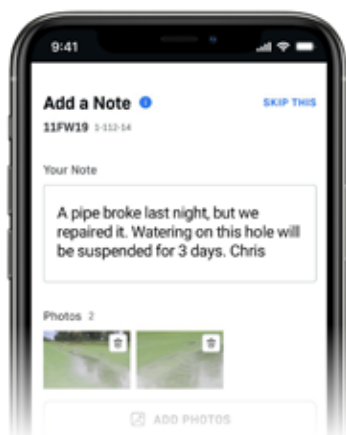
COMING SOON

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.

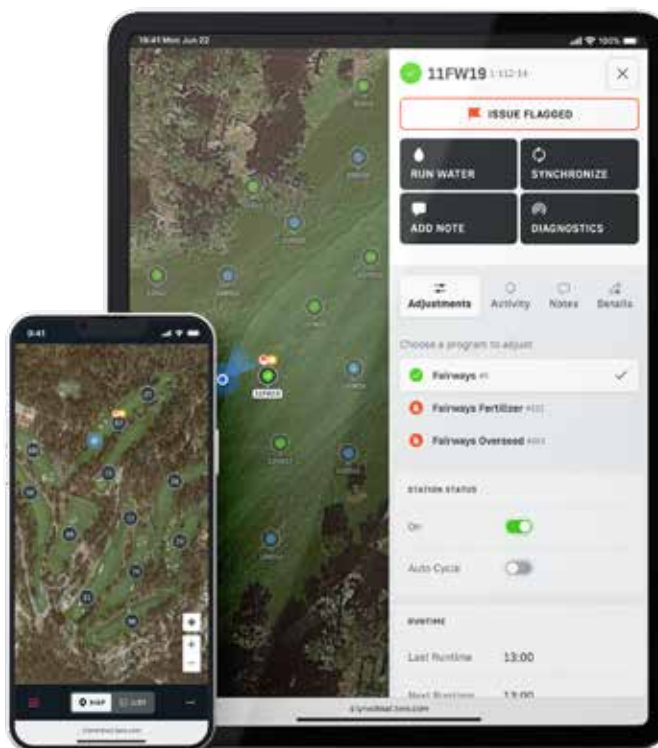
CLEAN, SIMPLE AND INTUITIVE.

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.



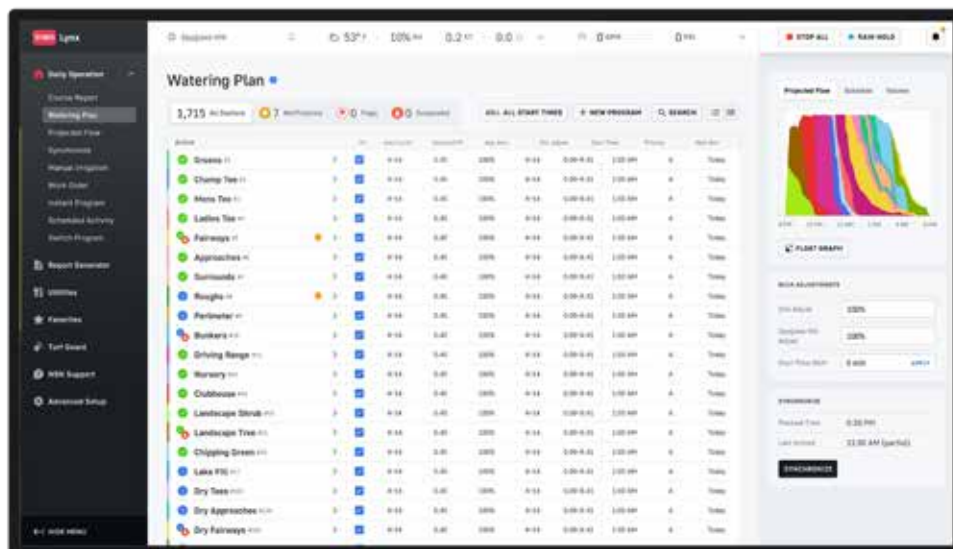
NEED IT? NOTE IT!

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

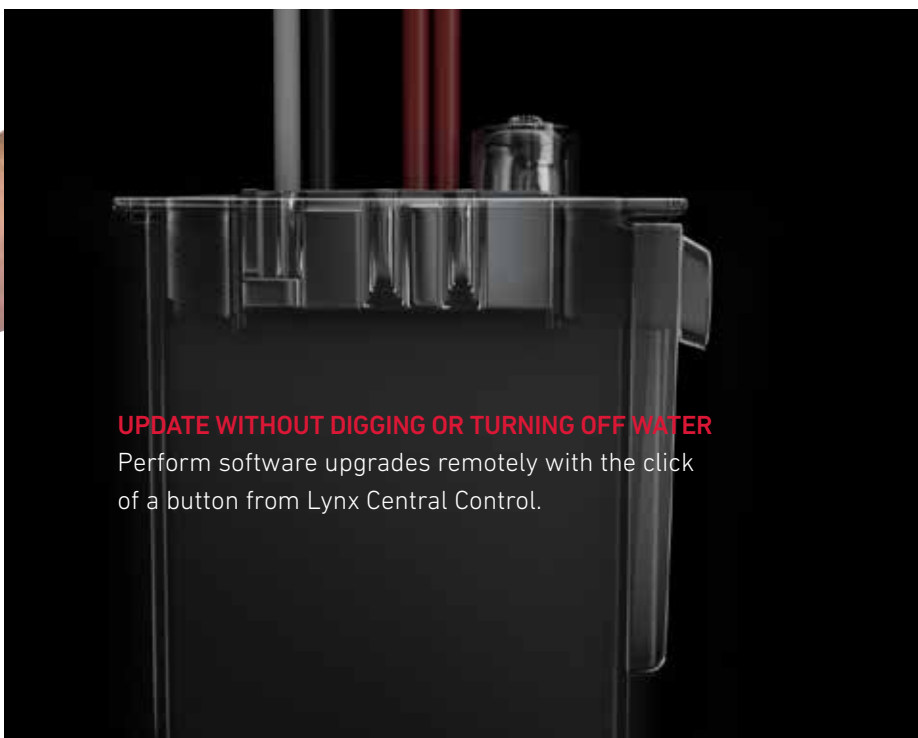
Creates a convenient connection point for soil, flow and status sensors.

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
3163.00 List



1 of # VP-SEN-BRD-KIT
2201.00 List



For Lynx Smart Satellite

4804.00 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	2,341.00		TE525-ET Campbell Scientific Tipping Bucket	2,315.00
Temperature Sensor	Part #	List (ea)	Shield	Part #	List (ea)
	TEMP-SEN-KIT	555.00		7714 Davis Radiation Shield	580.00
Flow Meter	Part #	List (ea)	Flow Sensor	Part #	List (ea)
	FS-INSERT-B Data Industrial Series 2	2,963.00		FS-B100 (1")	2,674.00
				FS-B150 (1.5")	3,031.00
				FS-B200 (2")	3,552.00
				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



R102-0238



R102-0612



R102-0682



R102-0681

For more information, visit: 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	GDC 2 Wire	R118-6133	LSH Radio Module Assy
	R102-8390	M4 Surge Board (Lead Free)		R102-7696	Mother Board - Green
	R89-9896	Earth Ground Bus Bar		R102-7693	Daughter Board - Green
OSMAC G3	R89-9894	24Vac Bus Bar		R102-5918	Stand Alone TM
	R118-2986	Timing Mechanism		R118-0582	Mother Board - Blue
LTC 1.1	R91-0537	Timing Mechanism with Terminal		R118-0584	Daughter Board - Blue
	R91-0777	Modem Board		R118-4728	Smart Hub TM
LTC 2.0	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	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 Jeremy Phillips 416-347-4601 jeremy.phillips@turfcare.ca Eric Rondeau 514-248-9020 eric.rondeau@turfcare.ca 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		
	R102-0681	8-output module			
	R102-0682	Pump Common Module			
	R102-0612	Distribution Bd.			
	R102-9124	LTC-VP Distribution Brd.			
Vari-Time	ELECMECHFP	30 Min Syringe TM (120V)	Availability May Change Without Notice.		
VT II	R9-5128	Central Timer			
	R9-7624	Receiver Assembly			
VT 4	R35-6220	VT 4 TM			
NW8	RTM N8K	Timing Mechanism			
	R35-6166	Power Supply			
	R35-8646	Modem Board			

TORO

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:



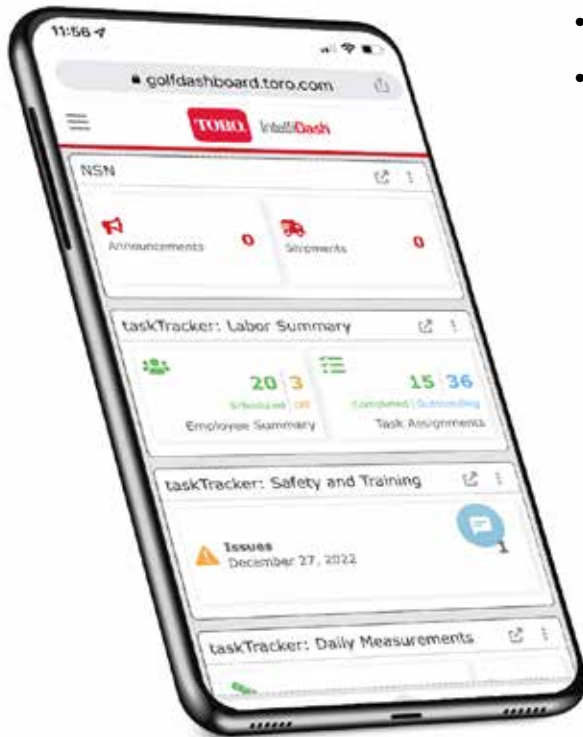
Golf Irrigation

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	330.45
	995-08	1" Valve Removal Tool (600, 700, 800, DT, FLEX Series)	1	332.49
	995-09	1.5" Valve Removal Tool (600, 700, 800, DT, FLEX Series)	1	292.66
	118-1844	1" Valve Insertion Tool (Infinity)	1	93.86
	118-1843	1.5" Valve Insertion Tool (Infinity)	1	99.05
	995-101	1.5" Valve Insertion Tool (600, 700, 800, DT, FLEX Series)	1	586.44
	995-76	1" Valve Insertion Tool (600, 700, 800, DT, FLEX Series)	1	522.60
	995-15	Selector Tool (Flag Key)	1	14.93
	995-55	Riser Hold Up Tool (700 Series)	1	13.17
	995-102	Riser Hold Up Tool (800 Series + DT)	1	47.11
	995-79	Nut Driver 7/16" (for Inner Nozzle) (760, 780, 800S Series)	1	84.30
	995-80	Nut Driver 1/2" (for 363-3137 Jam Nut) (760, 780, 860S, 880S)	1	90.89
	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	118.69
	995-105	Nut Driver 5/16" (for FLEX, DT, and 800 Series) (Trajectory Adjustment, Inner & Intermediate Nozzles)	1	62.73
	995-82	Arc Adjustment Tool, 3/32" (T-Handle Hex Wrench) (760, 780, 860, 880)	1	74.63
	995-83	Multi-Purpose Tool	1	88.44
	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
	TTTC-007	*TurboTrim Golf Sprinkler Head Trimmer - 7" cutting blade Toro: 730, 760, 860, 830, 834S, DT34/35, 835, 630	1	197.00
	TTTC-008	*TurboTrim Golf Sprinkler Head Trimmer - 8" cutting blade Toro: 670, 750, 780, 854, 855, 880, DT54/55, 650, Infinity Series	1	197.00
	TTTC-100	* Handle (Not included with above)	1	527.00



Landscape Tools

Part	Description	Pkg Qty	Net (ea)
S600	Round point shovel	1	63.00
S601	Square Point shovel	1	63.00
S702	5" trenching shovel	1	72.00
S703	4" trenching shovel	1	72.00
S604	Drain spade	1	70.00
S605	Garden spade	1	57.00
S605D	Garden spade, 'D' handle	1	58.00
S708	3" cleanout shovel	1	73.00
S709	4" cleanout shovel	1	73.00
PM5	Pick	1	55.00
TP8	8" x 8" Tamper	1	108.00
SB24	Street broom	1	79.00
PR24	Leaf rake	1	50.00
BR16	Bow rake	1	57.00
PS200	18" snow scoop	1	57.00
PP100	24" snow pusher	1	61.00
LF29535	Landscape Fabric 3' x 50'	1	24.75



S600



S601



TP8



S604



S605



S702



S708



S605D



PM5



BR16



PR24



SB24



LF29535



TOOLS

Electrical Troubleshooting

	Part	Description	Net (ea)
	P521	Wire, Pipe, Solenoid Locator	1,558.00
	P2003	Ground Fault Locator	2,720.00
	P24BK	Station Master Pro Kit Wire Locator chatter mode assists in finding valves	452.00
	PRO95	RMS Advanced Leakage Multimeter	479.00

Miscellaneous Tools

	Part	Description	Pkg Qty	Net (ea)
	RP6347	Core Sampler	1	82.54
	48072	36" x 72" Syphon King Pump	1	62.16
	48050	Syphon King Junior Pump	1	31.51
	TK300	Turf Knife	1	18.00
	WIRE STRIPPER	Wire Strippers	1	31.60
	GS13	13" Hand Saw	1	30.00
	BGS13	Replacement Blade	1	26.00
	DM-200A	Digital Multimeter 750Vac	1	453.00
	DBH15	Dead Blow Hammer	1	28.00
	GJP120	Adjustable Wrench	1	42.00
	I-TOOL	Irrigation Multi-Tool	1	88.00
	P200EP	Inductive Amplifier	1	158.00
	RS32	Rope Saw	1	10.00
	FLAGS	Toro Marking Flags (Sold in bundles of 100)	1	0.38



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.

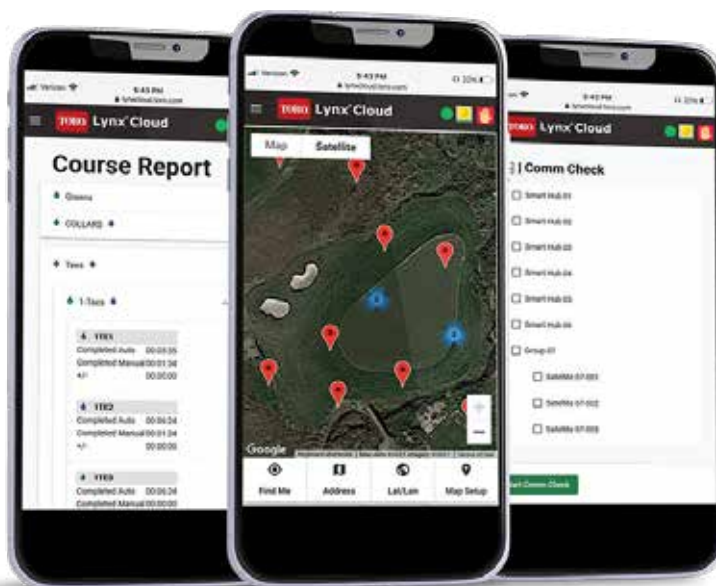


	Part	Description	Pkg Qty	NET
	6435	TDR 350 Soil Moisture Meter w/case	1	2,721.00
	7073	GARMIN 72H GPS	1	611.00
	7073-CABLE	Serial Interface Cable for Garmin	1	143.00
	6453BT	Fieldscout Bluetooth Device	1	301.18
	6490S	Turf Firmness Meter	1	2,441.00
	3000ET	WatchDog Wireless ET Pup Station w/built-in Solar Panel	1	3,999.00
	3910T	WatchDog Toro Retriever for Lynx (base station for radio communication)	1	2,004.00
	3654P9	Spec 9 Software	1	323.00

TDR Rods

	Part	Description	NET
	6428FS4	Two 1.5" Rods	126.00
	6429FS4	Two 3" Rods	126.00
	6431FS4	Two 4.8" Rods	135.00

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
Lightening 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. Lightening strikes and improper electrical termination will void warranty.

Fountain must be removed from water and disconnected from float.



TURF CARE
Helping your business grow.

Contact the Golf Irrigation Team Today:

golfirrigationorders@turfcare.ca

905-836-0988 x7088

neil.juniper@turfcare.ca

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**
MCI
FLOWTRONEX

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 | 343-550-7354 | 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.



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



AUXILIARY PRODUCTS

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**



Irrigation Mapping Services with Autocad and GPS

AUTOCAD DESIGN SERVICES

SELECT OR COMBINE:

- 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



MAPPING SERVICES WITH GPS

STANDARD COURSE FEATURES:

- Greens, Tees and Fairways
- Practice & Clubhouse Areas
- Bunkers and Cart Paths

STANDARD IRRIGATION FEATURES:

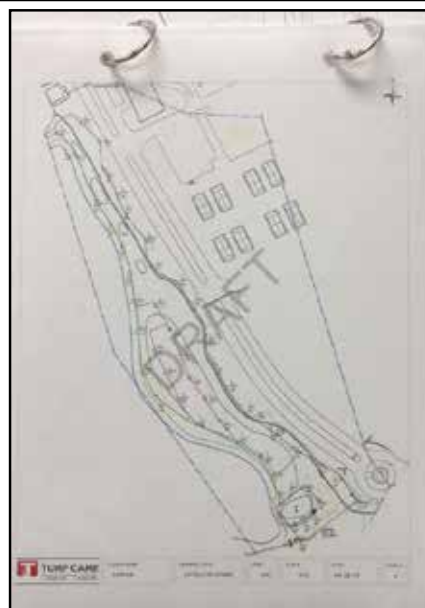
- Sprinklers & Quick Couplers
- Valves
- Satelites / Controllers / Splice
- Extra Features, Inquire with Sales



BOOKLETS

FORMATS TO CHOOSE FROM:

Satelite 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**

Spectrum
Technologies, Inc.



TURF CARE

Helping your business grow.

IRRIGATION & LIGHTING PRODUCTS

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



LANDSCAPE IRRIGATION

TORO

2 YEAR WARRANTY

570 MPR Nozzles

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	6.46



RED – 5' Series 0° Trajectory

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

GREEN – 8' Series 5° Trajectory

Noz.		PSI	GPM	Rad.	Prec.Rate £ r	
8-Q		30-40 40-75	0.22 0.25	8' 8'	1.54 1.75	1.33 1.51
8-T		30-40 40-75	0.29 0.35	8' 8'	1.52 1.84	1.32 1.59
8-H		30-40 40-75	0.44 0.50	8' 8'	1.54 1.75	1.33 1.51
8-TT		30-40 40-75	0.59 0.70	8' 8'	1.55 1.84	1.34 1.59
8-TQ		30-40 40-75	0.64 0.70	8' 8'	1.49 1.63	1.29 1.41
8-F		30-40 40-75	0.85 1.00	8' 8'	1.49 1.75	1.29 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 40-75	0.48 0.53	12' 12'	1.49 1.65	1.29 1.43
12-T		30-40 40-75	0.64 0.70	12' 12'	1.49 1.63	1.29 1.41
12-H		30-40 40-75	0.96 1.05	12' 12'	1.49 1.63	1.29 1.41
12-TT		30-40 40-75	1.28 1.40	12' 12'	1.49 1.63	1.29 1.41
12-TQ		30-40 40-75	1.44 1.60	12' 12'	1.49 1.66	1.29 1.44
12-F		30-40 40-75	1.92 2.10	12' 12'	1.49 1.63	1.29 1.41

BLACK – 15' Series 28° Trajectory

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

ORANGE – Special Patterns

Noz.	PSI	GPM	WxL/Larg.	Prec.Rate
4X15-EST	30-40 40-75	0.43 0.50	4' x 15' 4' x 15'	1.38 1.61
4X30-CST	30-40 40-75	0.86 1.00	4' x 30' 4' x 30'	1.38 1.61
9X18-SST	30-40 40-75	1.10 1.20	9' x 18' 9' x 18'	1.31 1.43
4X30-SST	30-40 40-75	0.88 1.00	4' x 30' 4' x 30'	1.41 1.61
2X6-SST	30-40 40-75	0.10 0.12	2' x 6' 2' x 6'	1.38 1.10
4X18-SST	30-40 40-75	0.50 0.59	4' x 18' 4' x 18'	1.34 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	11.31
X-XNT	Non-Toro Precision Nozzle (i.e. 8-HNT, 12-FNT etc.)	25	11.31

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	26.57
MP1000T-PC	Adjustable 90° - 210°, 8' - 15'	10	26.57
MP2000T-F	Full circle 360°, 13' - 21'	10	26.57
MP2000T-PC	Adjustable 90° - 210°, 13' - 21'	10	26.57
MP3000T-F	Full circle 360°, 22' - 30'	10	26.57
MP3000T-PC	Adjustable 90° - 210°, 22' - 30'	10	26.57
10562	Adjustment tool	1	1.05 NET

Female Thread

Part	Description	Pkg	List
MP1000-F	Full circle 360°, 8' - 15'	10	23.18
MP1000-PC	Adjustable 90° - 210°, 8' - 15'	10	23.18
MP2000-F	Full circle 360°, 13' - 21'	10	23.18
MP2000-PC	Adjustable 90° - 210°, 13' - 21'	10	23.18
MP3000-F	Full circle 360°, 22' - 30'	10	23.18
MP3000-PC	Adjustable 90° - 210°, 22' - 30'	10	23.18
10562	Adjustment tool	1	1.05 NET

MP1000

ARC		PSI	Rad. Ft.	GPM	in/hr. £	in/hr. r
90°	MAROON/MARRAN = 90-210°	25	-	-	-	-
		30	12.0	0.16	0.43	0.50
		35	13.0	0.18	0.40	0.46
		40	13.5	0.19	0.39	0.45
		45	14.0	0.20	0.39	0.45
		50	14.5	0.21	0.38	0.43
180°		55	15.0	0.22	0.37	0.43
		25	-	-	-	-
		30	12.0	0.32	0.43	0.50
		35	13.0	0.35	0.40	0.46
		40	13.5	0.37	0.39	0.45
		45	14.0	0.40	0.39	0.45
210°		50	14.5	0.41	0.38	0.43
		55	15.0	0.43	0.37	0.43
360°	MAROON/MARRAN = 360°	25	-	-	-	-
		30	12.0	0.37	0.43	0.50
		35	13.0	0.41	0.40	0.46
		40	13.5	0.43	0.39	0.45
		45	14.0	0.46	0.39	0.45
		50	14.5	0.48	0.38	0.43
		55	15.0	0.50	0.37	0.43

MP2000

	PSI	Rad. Ft.	GPM	in/hr. £	in/hr. r
BLACK/NOIR = 90-120°	25	17	0.31	0.41	0.48
	30	18	0.33	0.39	0.45
	35	19	0.37	0.39	0.46
	40	20	0.40	0.39	0.44
	45	21	0.42	0.37	0.42
	50	22	0.44	0.35	0.40
	55	22	0.47	0.37	0.43
	25	16	0.58	0.44	0.50
	30	17	0.63	0.42	0.49
	35	18	0.69	0.41	0.47
	40	19	0.74	0.39	0.45
	45	20	0.78	0.38	0.43
RED/ROUGE = 360°	50	21	0.83	0.36	0.41
	55	21	0.85	0.37	0.43
	25	16	0.68	0.44	0.50
	30	17	0.74	0.42	0.49
	35	18	0.80	0.41	0.47
	40	19	0.86	0.39	0.45
	45	20	0.92	0.38	0.43
	50	21	0.97	0.36	0.41
	55	21	1.01	0.37	0.43
	25	16	1.16	0.44	0.50
	30	17	1.27	0.42	0.49
	35	18	1.37	0.41	0.47
	40	19	1.47	0.39	0.45
	45	20	1.56	0.38	0.43
	50	21	1.64	0.36	0.41
	55	21	1.70	0.37	0.43

MP3000

	PSI	Rad. Ft.	GPM	in/hr. £	in/hr. r
BLUE/BLEU = 90-210°	25 **	25	0.69	0.43	0.49
	30	27	0.74	0.39	0.45
	35	28	0.80	0.39	0.45
	40	30	0.86	0.37	0.43
	45	30	0.91	0.39	0.45
	50	30	0.96	0.41	0.47
	55	30	1.01	0.43	0.50
	25	25	1.44	0.44	0.51
	30	27	1.58	0.42	0.48
	35	28	1.70	0.42	0.48
	40	30	1.82	0.39	0.45
	45	30	1.93	0.41	0.48
GRAY/GRIS = 360°	50	30	2.04	0.44	0.50
	55	30	2.13	0.46	0.53
	25	25	1.68	0.44	0.51
	30	27	1.84	0.42	0.48
	35	28	1.99	0.42	0.48
	40	30	2.12	0.39	0.45
	45	30	2.25	0.41	0.48
	50	30	2.37	0.43	0.50
	55	30	2.49	0.46	0.53
	25	25	2.88	0.44	0.51
	30	27	3.15	0.42	0.48
	35	28	3.40	0.42	0.48
	40	30	3.64	0.39	0.45
	45	30	3.86	0.41	0.48
	50	30	4.07	0.44	0.50
	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	23.10
PRN-TF	Full circle, Toro thread	20	23.10
PRNTOOL	Adjustment tool	20	57.28

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



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	9.85
570Z-3P	3" pop-up	100	10.15
570Z-4P	4" pop-up	50	6.60
570Z-6P	6" pop-up	50	20.89
570Z-6PSI	6" pop-up, side inlet	50	26.31
570Z-12P	12" pop-up	25	39.71
570Z-12PSI	12" pop-up, side inlet	25	48.00

Pressure Regulating

Part	Description	Pkg	List
570Z-4PR	4" w/ Pressure Reg.	50	20.89

X-Flow

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

Part	Description	Pkg	List
570Z-4PXF	4" with X-Flow	50	14.39
570Z-6PXF	6" with X-Flow	50	33.21
570Z-12PXF	12" with X-Flow	25	48.00
570Z-12PXF SI	12" with X-Flow, side inlet	25	54.00

Accessories

Part	Description	Pkg	List
570-6X	6" riser extender	100	6.31
570SR-18	18" stationary riser	100	10.44
570S	Shrub adapter	100	1.97
570CV	570 check valve	25	4.08

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	42.00
HS100	Shrub adapter	25	3.00



570-6X



570S

Irritrol



VALVES

TORO.


220 Brass

Part	Description (inches)	Pkg Qty	List (ea)
220-27-04	1 w/ pressure regulator	5	1,058.00
220-27-06	1.5 w/pressure regulator	4	1,413.00
220-27-08	2 w/pressure regulator	2	1,567.00

P220 Plastic



Part	Description (inches)	Pkg Qty	List (ea)
P220-26-04	1 in-line/angle	24	305.00
P220-26-06	1.5 in-line/angle	12	431.00
P220-26-08	2 in-line/angle	4	609.00
P220-26-00	3 in-line/angle	4	1,143.00

Accessories



Part	Description	Pkg Qty	List (ea)
EZR-100	EZ-Reg pressure regulator	5	195.00
R811-24VACG	24 VAC solenoid	10	57.00
501-12ABCC	120 VAC solenoid	1	82.00

Irritrol.
3 YEAR WARRANTY


2000 Series

Part	Description	Pkg Qty	List (ea)
2400T	2400T 1" FPT x FPT	20	57.00
2400T-B	2400T 1" MPT x Barb	20	57.00
2400TF	2400T 1" FPT x FPT w/Flow Control	20	61.00
2600T	2600T 1" Angle	20	81.00
2500TF	2500T 1" FPT x FPT w/Flow Control	20	68.00

102P Series



Part	Description (inches)	Pkg Qty	List (ea)
102P1	1 Normally Open or Closed	1	523.00
102P1.5	1.5 Normally Open or Closed	1	602.00
102P2	2 Normally Open or Closed	1	803.00



RESIDENTIAL ROTORS

TORO

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

5 YEAR WARRANTY

Part	Description	Pkg Qty	List (ea)
T5S-RS	Shrub model - Rapid Set	20	44.00
T5HP-RS	Hi-pop - Rapid Set	10	130.00
T5P-1.5RS	T5 with RapidSet, 1.5 gal	20	34.00
T5P-3.0RS	5" Rotor, 3.0 gallons	20	43.00
102-7714	Check valve	25	56.90
102-6527	Adjustment tool assembly	1	21.80



*While supplies last

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	968.00
TSM-4	4 station module	1	221.00
TSM-4F	4 station flow module	1	442.00
TSM-8	8 station module	1	442.00



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	486.00
EVO-4OD	4-station outdoor	531.00
EMOD-4	4-station expansion module	148.00
EMOD-12	12-sta. expansion module	498.00
EVO-SC	Smart Connector	252.00
PSS-SEN	Precision Soil Sensor	286.00
EVO-WS	ET sensor	237.41
EVO-HH	Maintenance remote	212.40
EVO-AR	Auxiliary relay	343.26



DDCWP

- Battery-powered, waterproof
- 2, 4, 6 or 8 stations (fixed)
- Compatible with wired rain sensors
- 3 programs, 3 start times per program
- Takes two 9V batteries
- Use with DC latching solenoids (not included)

Part	Description	List
DDCWP-2-9V	2 station controller	433.66
DDCWP-4-9V	4 station controller	509.67
DDCWP-6-9V	6 station controller	575.76
DDCWP-8-9V	8 station controller	663.53
DCL	DC latching solenoid	112.00



CONTROLLERS, RAIN SENSORS & BACKFLOW PREVENTORS

K
RAIN



BL-KR

Part	Description	List
BLUE-1	1 station, irrigation controller	369.00
BLUE-2	2 station, irrigation controller	482.00
BLUE-4	4 station, irrigation controller	604.00
BL-KR6	6 station, irrigation controller	611.00

Irritrol



Rain Sensors

Part	Description	List
RS1000	Irritrol Wireless Rain Sensor	284.00
RSBATT-TX	Battery pack	21.00
RS500	Irritrol wired rain sensor	85.00



Dual Check Backflow Preventers

Part	Description (inches)	List
BDC07	0.75 dual check	110.00
BDC10	1 dual check	120.00



LANDSCAPE IRRIGATION

DRIP IRRIGATION

TORO.



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	66.00

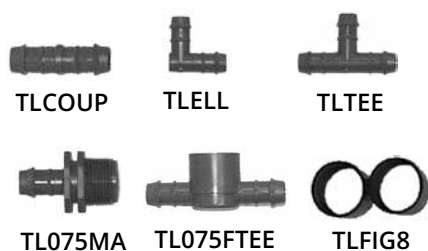
DL2000 With Rootguard

Part	Description (inches)	List
RGP-412-01	12 spacing 1.0 GPH, 100'	282.00
RGP-412-05	12 spacing 1.0 GPH, 500'	838.00

LOC-EZE Fittings



Part	Description (inches)	Pkg Qty	List (ea)
*FAM16	0.50 male adapter	100	1.27
*FTF16	Tee Loc x Loc x 0.50 FTP	100	4.32
*FJJ16	0.75 MHT with cap end	100	3.73
*FCC16	Coupling Loc x Loc	100	1.48
*FEE16	Elbow Loc x Loc	100	1.89
*FTT16	Tee Loc x Loc x Loc	100	1.74
*FTS16	Tee Loc x Loc x Hose swivel	100	3.99
FJQ16	Fig. 8 line end	100	0.71
SS6	Stake 6" Soil Staple	50	0.35
FCH-H-FIPT	0.75 FTP flush valve	-	9.06
YD-500-34	0.50 Air relief valve	-	39.22
* Fits 16 & 17mm OD		For 18mm OD see Tri-Loc on pg. 107	



NETAFIM Fittings

Part	Description (inches)	Pkg Qty	List (ea)
TLCROSS	Cross	25	2.46
TLCOUP	Coupling	25	0.59
TLELL	Elbow	25	0.75
TLTEE	Tee	25	0.83
TL050MA	0.50 male adapter	25	1.56
TL075MA	0.75 male adapter	25	1.65
TL075FTEE	0.75 FTP combo tee	25	4.00
TLFIG8	Fig. 8 line end	25	0.52
TLSOV	Ball valve	10	10.00



Toro Tri-Loc

Part	Description (inches)	Pkg Qty	List (ea)
TL-M50	Tri-Loc 1/2 MPT adapter	1	3.63
TL-T-F50	Tri-Loc Tee 1/2 FTP	1	8.00
TL-CAP	3/4 MHT Cap	1	4.26
TL-C	Tri-Loc Coupling Loc x Loc	1	3.43
TL-E	Tri-Loc Elbow Loc x Loc	1	4.45
TL-T	Tri-Loc Tee Loc x Loc x Loc	1	6.27
TL-T-M50	Tri-Loc 1/2 MPT Tee Loc x Loc x Hose swivel	1	8.00
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	164.05
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	126.00
HRZ100	1 filter & regulator only	65.00

Y-Filters



Part	Description (inches)	List
ALFD75	0.75 disc	67.00
ALFD100	1 disc	79.71
ALFS75	0.75 screen	35.00
ALFS100	1 screen	44.00
ALFS150	1.5 screen	68.00

Pressure Regulator



Part	Description (inches)	List
PRV075LF20	0.75 , 20 psi	31.00
PRV075HF25	0.75 , 20 psi	34.00

20 & 45 psi models also available.



LANDSCAPE IRRIGATION

MAXIJET

MICRO IRRIGATION

MAXIJET



MSBCLP

Nozzles

Part	Description	List
MAU040W	40° 10.5 GPH, blue	0.65
MAU090W	90° 10.5 GPH, blue	0.65
MAU180W	180° 10.5 GPH, blue	0.65
MAU340W	340° 10.5 GPH, blue	0.65
MAG040W	40° 16.0 GPH, green	0.65
MAG090W	90° 16.0 GPH, green	0.65
MAG180W	180° 16.0 GPH, green	0.65
MAG340W	340° 16.0 GPH, green	0.65
MAR040W	40° 23.5 GPH, red	0.65
MAR090W	90° 23.5 GPH, red	0.65
MAR180W	180° 23.5 GPH, red	0.65
MAR340W	340° 23.5 GPH, red	0.65
MAG36DI	360°, 45° down, 16 GPH green	0.91
MAG3601	320°, 16.0 GPH, flat, green	0.91
MAG368X	360°, 13.5 GPH, green	3.26

Micro Spray Assembly



MJBBXT6

Part	Description	List
MJBBXT6	Threaded adapter THD x Barb	0.61
MSBCLP	13" clip stake	2.03
MSR8	8" riser	0.41

Accessories



MJBBMV9



MEB



MVB500

Part	Description	List
MBBT	Shrub adapter	2.26
MBDADRB	Adjustable dripper, barbed	1.83
MBDAST	5" adjustable dripper stake	2.73
MEB	Vinyl collar stake assembly	0.28
MJBBMV9	Mister valve	1.73
MJBBT7	Tee	0.63
MJBBXB6	Barbed adapter	0.39
MJBTXT	Threaded adapter THD x THD	0.39
MSBBRB	13" clip stake, w/coupling	2.03
MVB500	500' vinyl tubing	276.00
MVB500BKT	Tubing in bucket	324.00
MJPPT	Pro-Punch tool	14.20 NET

1/4" Tubing, Fittings & Emitters



DAK15



DAK05



61032



FEE0400



FCC0400



FTT0400

1/4" Tubing

Part	Description (inches)	List
61071	100' vinyl distribution tubing	34.00
K010-0204	0.25 x 100' clear	36.00
SDB252-6-100	0.25 x 100' 6" spacing	125.00

Manifolds

Part	Description	List
61005	2 port	5.00
61006	4 port, adjustable flow	23.00
61008	8 port, adjustable flow	28.00
61010	Riser adapter	5.00

Stakes

Part	Description	List
61268	12 90° red	3.00
67137	12 180° blue	3.00
61238	12 360° brown	4.00
61229	12 centre strip, black	4.00
67105	6 bubbler	14.00
DAK15	Varistake w/spike	1.02
10-F-01	Flag stake	18.00
T-DL-MP9	Toro Flag stake	40.99

Emitters

Part	Description	List
61032	Mist sprayer	10.00
61037W	Multi stream in-line dripper	14.00
61230	Multi stream dripper	9.00
DAK05	Varis emitter	0.43
BD10	1.0 GPH, button dripper	0.85
BD20	2.0 GPH, button dripper	0.85
PC5	0.5 GPH, pressure comp. dripper	1.65
PC10	1.0 GPH, pressure comp. dripper	1.70
PC20	2.0 GPH, pressure comp. dripper	1.65
WPC10	0.5 GPH dripper	1.65

Fittings

Part	Description	List
61051D	0.25 strap	8.00
61054D	0.25 clamp	10.00
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	65.00



LANDSCAPE IRRIGATION

ELECTRICAL ACCESSORIES

Wire Connectors

Part	Description	Pkg Qty	List (ea)
KING W	White, cal. 14-22g, 30V	25	2.51
KING W-150	White, cal. 14-22g, 30V	150	1.81
KING W-500	White, cal. 14-22g, 30V	500	1.62
KING G	Grey, cal. 12-22g, 30V	20	3.20
KING G-100	Grey, cal. 12-22g, 30V	100	2.30
KING G-500	Grey, cal. 12-22g, 30V	500	2.07
KING B	Blue, cal. 6-12g, 30V	10	3.99
316-IR	Crimp connector	30	1.77
DBR/Y-6	Cal. 10-18g, 600V splice kit	100	3.93
BVS-1	Snaploc cal. 18-20g,	25	3.94



KING W



316-IR



BVS-1



DBR/Y-6

Accessories

Part	Description (inches)	List
ELECTRICAL TAPE	0.75 x 66' electrical tape	3.60
DUCT TAPE	2 x 180' duct tape	30.13
CABLE TIES 11"	8.5" black cable ties	0.19
9VBATT	9 volt battery	7.40
WIRE STRIPPER	Ergonomic wire stripper	31.60
DWS1024SA	KwikCUT Tools - Self adjusting wire stripper	38.00
POWER	6' power supply cord	20.00



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

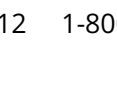


**Due to market volatility,
prices are subject to change.*

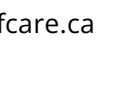
BLU-LOCK PIPE & FITTINGS

Blu-Lock™

1/2" BLU-LOCK

	Part	Description (inches)	Pkg Qty	List (ea)
	37980	100' tubing	-	86.00
	37900	Blu-Lock x funny pipe	25	3.19
	37901	0.75 insert x Blu-Lock	25	3.09
	37902	1 insert x Blu-Lock	25	3.09
	37903	0.75 insert tee x Blu-Lock	25	4.01
	37904	1 insert tee x Blu-Lock	25	4.01
	37970	Elbow 0.50 MIPT x Blu-Lock	25	2.00
	37971	Elbow 0.75 MIPT x Blu-Lock	25	2.00
	37972	Elbow 0.50 FIPT x Blu-Lock	25	2.00
	37973	Elbow 0.75 FIPT x Blu-Lock	25	3.00
	37974	0.50 male adapter	25	2.13
	37975	0.75 male adapter	25	2.13
	37976	BL coupling	25	4.00
	37977	BL tee	25	5.22
	37979	Elbow swing joint adapter	25	2.46

3/4" BLU-LOCK

	Part	Description (inches)	Pkg Qty	List (ea)
	37382	0.75 x 100' Blu-Lock tubing	-	102.00
	37388	0.75 x 300' Blu-Lock tubing	-	276.00
	37370	0.75 BL tee	10	6.00
	37372-O	0.75 BL x 0.50 FIPT tee	10	5.36
	37373	0.75 BL x 0.50 BL tee	10	6.00
	37374	0.75 BL elbow	10	5.00
	37375	0.75 BL x 0.50 FIPT elbow	10	3.00
	37376	0.75 BL coupling	10	4.00
	37377-O	0.75 BL x 0.50 BL coupling	10	4.00
	37378	0.75 BL x 0.75 MIPT adapter	10	3.00
	37379	0.75 BL x 0.75 FIPT adapter	10	3.00
	37380	0.75 BL cap	10	3.00
	37383-O	0.75 BL x 1 MIPT adapter	10	3.00
	37387	0.75 bullhead 0.50 BL x 0.50 BL x 0.75 BL	10	7.00

FUNNY PIPE & TOOLS

FUNNY PIPE

	Part	Description (inches)	Pkg Qty	List (ea)
	850-25	0.50 x 100' Funny Pipe	-	99.00
	850-20	Coupling/union	25	0.42
	850-31	0.50 male elbow	25	0.25
	850-32	0.75 male elbow	25	0.27
	850-34	0.50 female elbow	25	0.49
	850-35	0.50 male adapter	25	0.40
	850-36	0.75 male adapter	25	0.51
	850-37	Tee	25	0.42
	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	19.00
	1098	Standard jaw single action	15.09
	1098-C	Standard jaw compound action	65.58



PIPE & FITTINGS



CLAMPS

OETIKER 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



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" stainless steel	10	3.00



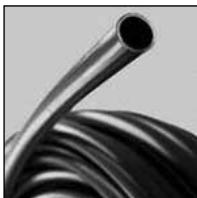
POLYETHYLENE PIPE

Irrigation 2000, 100 Psi



Part	Description (inches)	List
(per roll)		
PMT75007-1	0.75 x 100'	56.00
PMT75007	0.75 x 400'	222.00
PMT75010-1	1 x 100'	75.00
PMT75010	1 x 300'	224.00
PMT75012	1.25 x 300'	405.00
PMT75015	1.5 x 250'	450.00
PMT75020	2 x 100'	264.00

CSA 75 PSI Red Stripe



Part	Description (inches)	List
(per roll)		
PC75074	0.75 x 400'	529.00
PC75103	1 x 300'	664.65
PC75123	1.25 x 300'	1,157.10
PC75152	1.5 x 250'	1,296.75
PC75201	2 x 100'	853.65

STD. 75 PSI White Stripe



Part	Description (inches)	List
(per roll)		
Stocked in Montreal only,		
PS75051	0.50 x 100'	71.40
PS75054	0.50 x 400'	283.50
PS75071	0.75 x 100'	102.90
PS75074	0.75 x 400'	412.65
PS75101	1 x 100'	161.70
PS75103	1 x 300'	486.15
PS75123	1.25 x 300'	731.85
PS75151	1.5 x 100'	324.45
PS75152	1.5 x 250'	808.50
PS75201	2 x 100'	476.70



PIPE & 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		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				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" x1 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	COMBINATION REDUCING (Insert x FIPT)	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			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" x1"	25	6.43				1413-101	3/4" x 1/2"	10	6.89
	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	8.40	
	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		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
	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

COUPLING (Insert x Insert)	Part	Description	Pkg	List
	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
POLY STRETCH COUPLINGS	PSC-07	3/4"	-	13.41
	PSC-10	1"	-	14.42
	PSC-15	1 1/2"	-	24.83
COUPLING RE- DUCER (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
FEMALE ADAPTER (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
MALE ADAPTER (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
RED. MALE ADAPTER (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
RED. MALE ADAPTER (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
	1449-005	1/2"	100	2.78
INSERT PLUG (Insert)	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	6.00
KCMA1436-010	1 male adapt.	10	6.00
KCT1401-010	1 tee	10	9.00
KCE1406-010	1 elbow	10	8.00





PIPE & FITTINGS

SADDLES

SNAP-TAP Saddles



• Only available in 75-piece plastic buckets

Part	Description	Pkg	List
SN100C	1" x 1/2"	75	5.92
SN100D	1" x 3/4"	75	8.27
SN22510	3/4" - 1 1/4" x 1/2"	75	6.23

BLU-LOCK Saddles



Part	Description	Pkg	List
BLS75	3/4" Nitro saddle body	25	3.33
BLS100	1" Nitro saddle body	25	3.33
BLS-BL	1/2" BL Nitro saddle tap	25	3.33

DAWN Saddles



Part	Description	Pkg	List
KT007C	3/4" x 1/2" Kwik-Tap	10	8.00
KT007D	3/4" x 3/4" Kwik-Tap	10	8.00
KT010C	1" x 1/2" Kwik-Tap	10	8.00
KT010D	1" x 3/4" Kwik-Tap	10	8.00
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	8.00
D75D	3/4" x 3/4"	10	8.00
D100C	1" x 1/2"	10	8.00
D100D	1" x 3/4"	10	8.00
D125C	1 1/4" x 1/2"	10	9.00
D125D	1 1/4" x 3/4"	10	9.00

HDPE Saddles



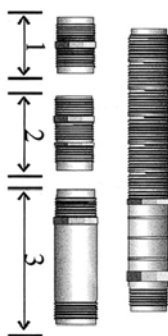
Part	Description	Pkg	List
364-251	2 x 1.5 ACME Tap T saddle	5	93.51
G330-000	1.5 MIPT x ACME inlet	5	19.47

PVC Saddles



Part	Description	Pkg	List
CA2X1	2" x 1"	10	160.00
CA3X1.5	3" x 1 1/2"	10	210.00
CA3X2	3" x 2"	10	219.00
CA4X1.5	4" x 1 1/2"	10	276.00
CA4X2	4" x 2"	10	276.00
CA6X2	6" x 2"	10	389.00

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	0.86
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	23.00
T135	1.5 pipe cutter	27.00
SS200	2 pipe cutter	36.00
BT100	1 replacement blade	11.00
BT135	1.5 replacement blade	11.00
SSB200	2 replacement blade	15.00
RS32	Rope saw	10.00
GS13	13 hand saw	30.00
BGS13	Replacement saw blade	26.00





Irrigation Tools

Pipe Tools

Part	Description (inches)	Net
26973	0.50 nipple extractor	8.31
26974	0.75 nipple extractor	10.25

Clamp Tools

Part	Description (inches)	Net
1098	Standard pincer	15.09
CT112	12 Pinch Clamp Crimping tool	19.00

Multi-Tool

Part	Description	Net
I-TOOL	Irrigation Multi-Tool	88.00

Gauges

Part	Description	Net
995-01	Flow & pressure gauge	266.44
995-50	Pitot tube	17.34
5-308	Toro pressure gauge	249.00
5-309	Replacement flow gauge	134.81
91130	Economy pressure gauge	14.00
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:

PIPE SIZE (inches)	WATER FLOW IN GPM
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

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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