

TORO

The INFINITY® & FLEX800™ Series

SPRINKLERS **ULTIMATE**



Toro® at St Andrews Links Trust, Scotland

THE BATTLE OF MAN VS. NATURE.

The St Andrews that one sees as a player is not the one we see as greenkeepers. Players here can observe a spectacle of nature, one of the world's greatest places for a round of golf.

Comprising 6,721 yards of thrilling tees, fairways and greens on a famous venue with 600 years of history, we see a pristine piece of land carved from the coastal landscape. A place where a single day can sometimes have all four seasons and where nature will take over once again the minute we stop paying attention.

It's this everyday battle that drives my team and I – fighting the elements, keeping the forces of nature at bay, while at the same time paving the way for the 50,000 rounds these holy grounds of golf host every single year. We can only achieve this with the help of highly advanced irrigation systems, like those designed by Toro®.

Choose your arsenal wisely

Players expect nothing less than perfection from St Andrews, no matter what the conditions are. They also expect to play whenever they want to. To us, this makes the INFINITY® Series from Toro® the ultimate sprinklers. They do not only play a key role in our sophisticated and extremely efficient water management, but also make our work easier as they are accessible directly from the top via Smart Access®. Just pull three screws and you can reach all crucial parts without having to put a shovel down.

When there's no downtime, there's no interruption for the players. And since we don't have to dig up the ground, there's always a flawless field to play on.

This forward thinking regarding what greenkeepers want is why we rely on Toro® here at 'The Home of Golf'.



Gordon McKie

Course Manager, Old Course, St Andrews Links Trust

THE SPRINKLERS YOU'D BUILD IF YOU BUILT SPRINKLERS.

One of our greatest areas of expertise is golf course irrigation. A Toro® sprinkler is always packed with ideas. Make your work count over and over with the sensational INFINITY® sprinkler family with Smart Access®.

LSM Communication Lights

Diagnostic visible from the cover through the LSM spyhole.

Check Flow™ Pilot Valve

Simply turn the sprinkler on and off at the top.

LSM 2-Wire Module

Get superior diagnostics, precision of watering by the second and much more.

Protective Enclosure

All parts and wire connections are safe from the elements.



Smart Access®

Solenoid, pilot valve and module all within hand's reach, no digging required.

The image shows a black, multi-sectioned sprinkler head with various attachments. A small pot containing green grass is attached to one of the sections. Lines connect specific parts of the sprinkler to numbered callouts on the right side of the image.

- # Largest Nozzle Selection in the World**
Benefit from infinite flexibility on both front and back nozzles.
- # Soft Synthetic Material**
Lowers the risk of injuries and allows easy access, to make adjustments from the top.
- # Stealth Turf Cup**
Grown turf enhances the pitch appearance and improves labour efficiency.
- # Versatile Trajectory Adjustment**
Perfectly adapt the sprinkler to any terrain and wind conditions.
- # Ratcheting Riser**
Define the arc of the sprinkler with a simple hand gesture.
- # Nozzle Base Clutching**
Turn, hold and shoot to put down as much water as needed on a hot spot.



SMART ACCESS® REWARD YOURSELF BY THE SHOVEL-LOAD.



Access all sprinkler components from the top

without disturbing your turf or your golfers. Access at any time and under full water pressure.

Reduce the workload of your crew

Tasks that used to take 30 or 40 minutes are reduced to only a few with virtually no downtime.

Be ready for easy technology upgrades

INFINITY® has the capacity for adding new capabilities.

INFINITY® SERIES



THEY SAID IT
COULDN'T BE DONE
**THAT'S WHAT
MADE US DO IT.**

INFINITY® 35-6/55-6

with TruJectory™ and 40°-330° circle

The INFINITY® 35-6/55-6 Series allows you to put water precisely where you want it for maximum distribution uniformity. The Part- and Full-circle drive allows you to simply and economically adjust the area of coverage to match your seasonal watering needs or meet water-rationing mandates in seconds, with no disassembly or additional parts required.

TruJectory™ adjustment of the main nozzle – 24 positions from 7°-30°

This patented feature puts water exactly where you want it. Adjust from the top of the sprinkler in seconds, wet or dry. This flexibility lets you tackle any obstacle on the course – wind, trees, bunkers, mounds and more.



INFINITY® 35/55

with Dual Trajectory and a 40°-330° circle

The INFINITY® 35/55 Series features a dual trajectory main nozzle that provides exceptional nozzle performance at the 25° standard angle position and great performance in windy applications at the 15° low angle position. The Part- and Full-circle drive and ratcheting riser allow you to adjust the area of coverage to match your watering needs or to meet water-rationing mandates in seconds, with no additional parts required.

Arc adjustment – 40°-330° and true Full-circle in One

One sprinkler for every location on the course. These unique sprinklers can be used in full-circle today and part-circle tomorrow.



INFINITY® 34/54

with Dual Trajectory and Full-circle

The INFINITY® 34/54 is a premium full-circle golf sprinkler series. The dual trajectory main nozzle provides exceptional nozzle performance at the 25° standard angle position and great performance in windy applications at the 15° low angle position. The consistency of the constant velocity Full-circle drive ensures even water application across the coverage area every time you water.

Indestructible stainless steel valve seat

Eliminates body damage from rocks and debris. This indestructible stainless steel seat is moulded to the body and virtually eliminates body replacements due to seat damage.

Curious about the overall efficiency of this system?
Take a look at page 20.

Toro®'s own TruJectory™

PICK THE RIGHT **PLAYERS.**



Let's face it: we actually love it when nature acts according to its own whims, whether that involves rugged terrain or unpredictable weather conditions. That's what challenges us at Toro® to find the best possible solutions for mastering these tasks.

Take our unique TruJectory™ concept, which allows you to precisely deliver water into tricky spaces. Furthermore, TruJectory™ helps to define the entire shape of a landscape. Consider, for example, a windy links golf course. Use an angle so flat that you spray underneath the wind. Simply adjust the main nozzle degree by degree to tackle any obstacle – not only wind but also trees, bunkers and mounds. Never put too much or too little water on the turf. Guarantee playability at all times.

And yes, you'll find this only in a Toro® sprinkler!



FLEX800™ SERIES



ENTER
HIGH-END.

FLEX800™ 35-6/55-6 with TruJectomy™ and 40°-330° circle

The FLEX800™ 35-6/55-6 Series allows you to put water precisely where you want it for maximum distribution uniformity. The Part- and Full-circle drive allows you to simply and economically adjust the area of coverage to match your seasonal watering needs or to meet water-rationing mandates in seconds, with no disassembly or additional parts required.

TruJectomy™ adjustment of the main nozzle – 24 positions from 7°-30°

This patented feature puts water exactly where you want it. Adjust from the top of the sprinkler in seconds, wet or dry. This flexibility lets you tackle any obstacle on the course – wind, trees, bunkers, mounds and more.



FLEX800™ 35/55

with Dual Trajectory and 40°–330° circle

The FLEX800™ 35/55 Series features a dual trajectory main nozzle that provides exceptional nozzle performance at the 25° standard angle position and great performance in windy applications at the 15° low angle position. The Part- and Full-circle drive and ratcheting riser allow you to adjust the area of coverage to match your watering needs or meet water-rationing mandates in seconds, with no additional parts required.

Arc adjustment – 40°–330° and true Full-circle in One

One sprinkler for every location on the course. These unique sprinklers can be a full-circle today and part-circle tomorrow.



FLEX800™ 34/54

with Dual Trajectory and Full-circle

The FLEX800™ 34/54 is the Toro® premium full-circle golf sprinkler series. The dual trajectory main nozzle provides exceptional nozzle performance at the 25° standard angle position and great performance in windy applications at the 15° low angle position. The consistency of the constant velocity Full-circle drive ensures even water application across the coverage area each time you water.

Indestructible stainless steel valve seat

Eliminates body damage from rocks and debris. This indestructible stainless steel seat is moulded to the body and virtually eliminates body replacements due to seat damage.

FLEX800™ B-SERIES



FOR THE
CONNOISSEURS
**OF THE GOOD
AND SIMPLE.**

FLEX800™ B-Series FLX35-6B with TruJectory™ and 40°-330° circle

The B-Series is specifically designed for block systems. With their small exposed diameters, these sprinklers are not visible on the course. Yet they are equipped with all the functionality Toro® sprinklers have to offer while being subtly hidden on the turf. The B-Series is perfect for high traffic areas like tees, greens and surrounds.

TruJectory™ adjustment of the main nozzle – 24 positions from 7°-30°

This patented feature puts water exactly where you want it. Adjust from the top of the sprinkler in seconds, wet or dry. This flexibility lets you tackle every obstacle on the course – wind, trees, bunkers, mounds and more.



FLEX800™ B-Series FLX35B

with Dual Trajectory and 40°-330° circle

Put the water exactly where you need it and nowhere it doesn't belong. With the Arc Adjustment and the ratcheting riser, you can easily determine the circle and the position of your irrigation in next to no time. The two trajectory angles allow you to spray underneath the wind or to employ a higher arc.

Arc adjustment – 40°-330° and true Full-circle in One

One sprinkler for every location on the course. These unique sprinklers can be a full-circle today and a part-circle tomorrow.



FLEX800™ B-Series FLX34B

with Dual Trajectory and Full-circle

The Constant Velocity Full-circle drive ensures consistent rotation speeds for even water application across the coverage area. This sprinkler is the correct choice for plain areas where a reliable water supply is needed.

Indestructible stainless steel valve seat

Eliminates body damage from rocks and debris. This indestructible stainless steel seat is moulded to the body and virtually eliminates body replacements due to seat damage.

EXTENSION KITS



UPGRADE TO
**INVISIBLE
PERFECTION.**

INFINITY® RAZOR™ kits

Extend the frequency of levelling sprinklers

Over time the application of topdressing and settling can result in the sprinkler being in a depression below grade level. This can interfere in the natural roll of the ball, create trip hazards and take away from the natural beauty of the course.

The Razor kits raise the top of the sprinkler in 1/2" increments up to 1 1/2" (3 stages) without digging.



Each **RAZOR™ kit** consists of 3 stages



INFINITY® Stealth® Cup

Natural turf to eliminate sprinkler interference

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 labour efficiency by minimizing trimming efforts around the sprinklers.



The **Stealth® Cup** consists of 4 parts



INFINITY® and FLEX800™ turf covers

Artificial turf eliminating sprinkler interference

The FLXINF-TURFCAP can be installed onto an INFINITY or FLEX sprinkler head with just one screw. The INF21 Ring perfectly matches INFINITY sprinkler bodies, the FLX50-RING is suited for 1.5" FLEX sprinklers.

The synthetic turf offers the same rebound properties as real grass and does not interfere in the natural roll of the ball.



INF21-RING w/ FLXINF-TURFCUP

FLX50-RING w/ FLXINF-TURFCUP

The Unique Features of Toro®



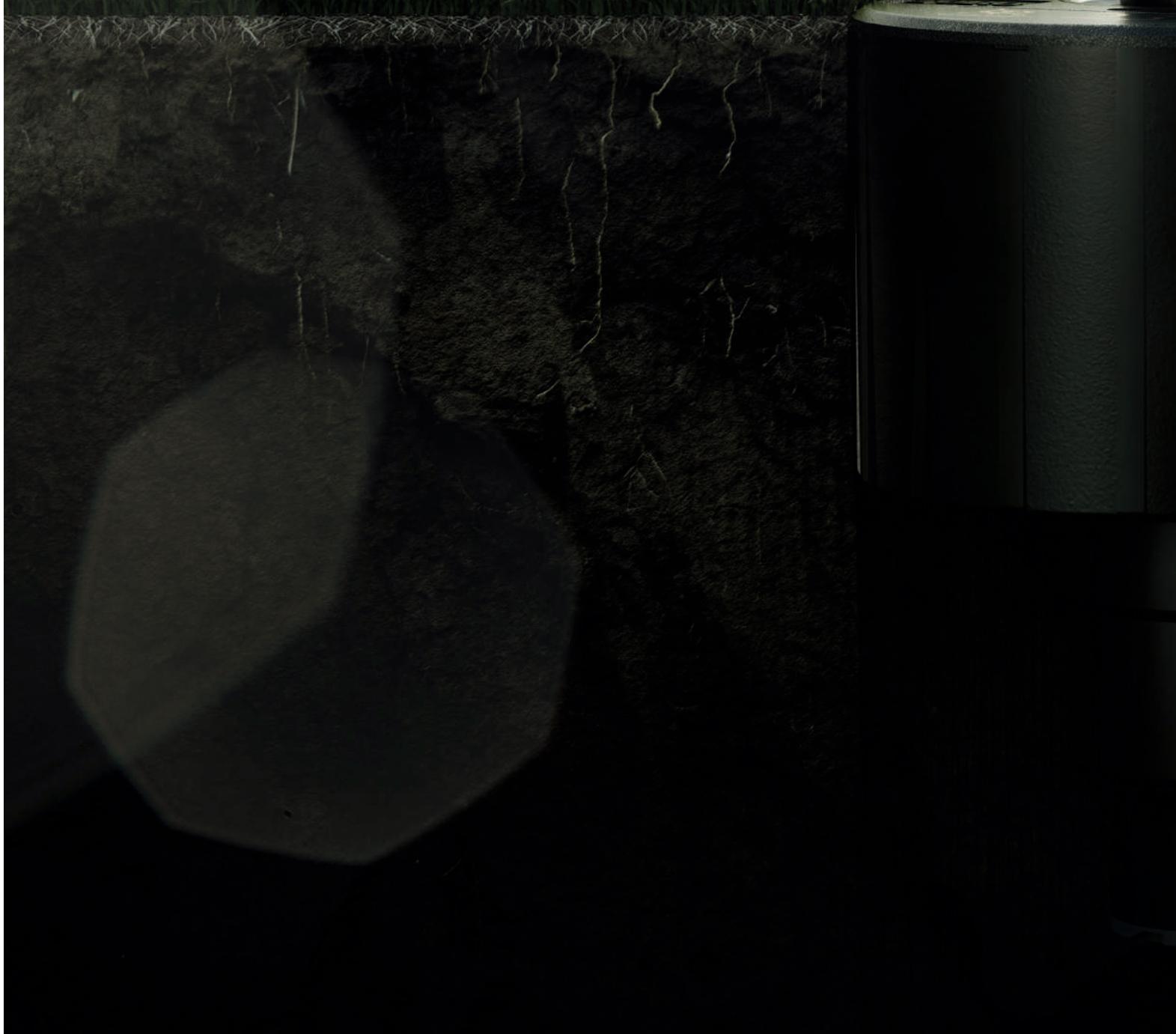
THE DIFFERENCE BETWEEN GOOD AND REVOLUTIONARY.

	INFINITY® 35-6/55-6 35/55	INFINITY® 34/54	FLEX800™ 35-6/55-6 35/55	FLEX800™ 34/54	B-Series 35-6/55-6 35/55	B-Series 34/54
#01 Smart Access®	✓	✓	○	○	○	○
#02 Trajectory Adjustment	✓	✓	✓	✓	✓	✓
#03 Easy Arc Adjustment	✓	○	✓	○	✓	○
#04 Ratcheting Riser	✓	○	✓	○	✓	○
#05 Largest Nozzle Selection	✓	✓	✓	✓	✓	✓
#06 Sturdy Construction	✓	✓	✓	✓	✓	✓
#07 Nozzle Base Clutching	✓	○	✓	○	✓	○

The Efficiency of Toro®

INVEST MORE TO **SPEND LESS.**

Our holistic philosophy includes economic as well as environmental aspects of turf maintenance. Nature must be preserved at all costs. Our developments ensure that costs are kept at bay in the long-run. Outstanding quality and reliable service always pays off.





THE 6 RULES OF **TORO® EFFICIENCY.**

1. Toro® makes the players happy

Digging up sprinklers can leave unsightly scars on the turf and can even disrupt play. If there's no disturbance, more players can play more golf.

2. Toro® makes your crew happy

Instead of a shovel, all you need is a screwdriver to access sprinkler components for maintenance. This efficiency adds up, providing your crew with more time for other tasks on the golf course.

3. Toro® makes your club happy

The INFINITY® Series bodies use risers from the existing Toro® 800S Series and DT Series sprinklers; as such, you can keep your costs down while gaining the Smart Access® advantage.

4. Toro® makes everyone happy in the future

Technological advancements are no longer associated with new sprinklers. Simply add new components to your INFINITY® with a minimum of installation work.

5. Toro® makes the environment happy

What you get with a Toro® system is highly efficient energy and water tools; state-of-the-art technology that provides sustainable solutions for using resources responsibly.

6. Toro® makes investors happy

Thanks to the advanced configuration options and adjustment possibilities of the system, you can apply water exactly as you need to. All this will help you save money and keep your total cost of ownership (TCO) down.

The perfect Toro® for all areas

THE WHERE DEFINES THE WHICH.



FOR DEMANDING AREAS

Tackle every obstacle on the golf course – wind, trees, bunkers, mounds, etc.

INF35-6

Smart Access®



INF55-6

Smart Access®



FLX35-6



FLX55-6



FOR MODERATE AREAS

Apply water to exactly the right spot at exactly the right angle; don't be limited by slopes or branches.

INF35

Smart Access®



INF55

Smart Access®



FLX35



FLX55





FOR PLAIN AREAS

Where a consistent and reliable full-circle water supply is needed, these sprinklers do an outstanding job.

INF34

Smart Access®



INF54

Smart Access®



FOR TEES AND THEIR SURROUNDINGS

There are areas on a course that are best supplied by block systems. Get the best from Toro® for this task.

FLX35-6B



FLX 35B



FLX34



FLX54



FLX34B





Dr. James R. Watson, the man behind Toro's® cutting-edge turf and water management research in the company's Center for Advanced Turf Technology.



Toro® is for the Pros. Major tournaments like The Open rely on the company's perfect turf management systems.



St Andrews – the Old Course – probably the first golf course in the world and certainly the most famous, has been a Toro® partner for decades.

HOW WE GOT TO KNOW EVERYTHING WE KNOW.

In 1919, John Samuel Clapper and his co-workers were bold enough to mount cutting units to a tractor for the Minikahda Club in Minneapolis. Their goal: replace turf-tackling horse-drawn mowers. They didn't realize it then, but they created an entire new industry called "turf maintenance equipment". Their innovation was significant and marked a new pinnacle in technological advancement in this field.

Cultivating Science

And our company didn't stop there. Developing a taste for ground-breaking innovations, Toro® aimed to understand turf to its very roots. That's when the legendary Dr James R. Watson and his Center for Advanced Turf Technology (CATT) came into play. A visionary, Dr Watson promoted the holistic conjunction of meticulous turf science and smart water management. The research and development conducted at Toro®'s own institute in Minnesota is what has made Toro® truly unique for decades.

The Whole-in-One Company

John Samuel Clapper and Dr James R. Watson are only two of the many ingenious people that have made Toro® famous. Today, Toro® remains the first and only company in the world to offer a complete system of turf maintenance products including mowers, rollers, rakes and irrigation. Viewing turf as a whole living unit is deeply embedded in Toro's® DNA. When you see a famous park or venue and marvel at its perfect turf, you can be sure that Toro's® unique approach lies behind it. Wimbledon, Disney World and many others are included here.



The famous Minikahda Mower from 1921. Mounting five lawn mowers onto the front of a farm tractor, Toro® initialized the motorized golf course equipment industry.

When it comes to golf, St Andrews Links in Scotland, also known as "The Home of Golf", undoubtedly stands out as one of the most distinguished golf courses in the world, but it is also one of the most complicated to maintain. Consequently, Toro® systems have been selected to help overcome nature's challenges and to maintain this famous venue in top class.

You will find all the experience and expertise we have gathered over decades in each and every Toro® product. Count on it.

Specifications

THE MAGIC BEHIND THE MAGIC.





SPECIFICATIONS | INF35-6/INF55-6 | FLX35-6/FLX55-6

FEATURES

- Trajectory: 24 positions from 7° – 30° in 1° increments
- Part/Full circle sprinklers
- Ratcheting riser
- Nozzle base clutching
- Pop-up height to nozzle: 8,25 cm (3.25")

OPERATING SPECIFICATIONS

Inlet:

- INF/FLX35-6: 25 mm (1") ACME
- INF/FLX55-6: 40 mm (1.5") ACME

Radius:

- INF/FLX35-6: 12,8 – 28,0 m (42' – 92')
- INF/FLX55-6: 15,9 – 30,5 m (52' – 100')

Flow Rate:

- INF/FLX35-6: 26,9-171,5 LPM (7,1 – 45,3 GPM)
- INF/FLX55-6: 52,6-231,3 LPM (13,9 – 61,1 GPM)

Precipitation Rates:

- INF/FLX35-6:
 - Minimum: 9 mm/hr (0.37"/hr);
 - Maximum: 13,5 mm/hr (0.53"/hr)
- INF/FLX55-6:
 - Minimum: 11 mm/hr (0.43"/hr);
 - Maximum: 15 mm/hr (0.60"/hr)

Pilot Valve:

- Selectable at 3,4; 4,5; 5,5; and 6,9 Bar (50, 65, 80 and 100 psi)

Recommended Operating Pressure Range:

- 4,5-6,9 Bar (65-100 psi)
- Maximum: 10,3 Bar (150 psi)
- Minimum: 2,8 Bar (40 psi)

Activation type

- Standard Solenoid:
 - 24 VAC, 50/60Hz
 - Inrush: 0,30 A
 - Holding 0,20 A
- Spike Guard Solenoid:
 - 24 VAC, 50/60Hz
 - Inrush: 0,12 A
 - Holding 0,10 A
- Nickel-Plated Spike Guard Solenoid:
 - 24 VAC, 50/60Hz
 - Inrush: 0,12 A
 - Holding 0,10 A
- DC Latching Solenoid (DCLS)
 - Momentary low voltage pulse
- Lynx Smart Module with DCLS
 - Momentary low voltage pulse

DIMENSIONS

INF: Smart Access® Cover and Compartment

Diameter / FLX: Body Diameter

- INF35-6: 19 cm (7.5") / FLX35-6: 16,5 cm (6.5")
- INF55-6: 19 cm (7.5") / FLX55-6: 19 cm (7.5")
- Body height:
 - INF/FLX35-6: 25 cm (10")
 - INF/FLX55-6: 29 cm (11.38")
- Weight:
 - INF35-6: 1,95 kg (4.31 lbs.) / FLX35-6: 1,35 kg (2.98 lbs.)
 - INF55-6: 2,33 kg (5.13 lbs.) / FLX55-6: 1,68 kg (3.70 lbs.)
 - Weight integrated with Lynx Smart Module:
 - INF35-6: 2,27kg (5.00 lbs.)
 - FLX35-6: 1,64kg (3.63 lbs.)
 - INF55-6: 2,63kg (5.82 lbs.)
 - FLX55-6: 1,95kg (4.30 lbs.)

WARRANTY

- Two years; Five years when installed with Toro® Swing Joints

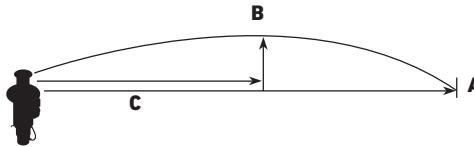
NOZZLE SELECTION

- INF/FLX35-6 has eight nozzle variations (30, 31, 32, 33, 34, 35, 36 & 37)
- INF/FLX55-6 has nine nozzle variations (51, 52, 53, 54, 55, 56, 57, 58 & 59)
- Four in-line nozzles, rotating stream pattern
- One back nozzle position
- Stator variations INF35-6/INF55-6 - 3

TRAJECTORY PERFORMANCE

Nozzle/Bar/LPM	#31/51 Nozzle @ 4,5 Bar						#32/52 Nozzle @ 4,5 Bar					
Trajectory	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°
"A" Radius	14,0	14,0	15,2	15,5	16,2	16,5	15,2	14,0	14,9	14,9	15,2	15,5
"B" Spray Height	1,2	1,2	1,5	1,8	2,4	3,0	3,4	4,0	4,0	4,6	0,9	1,2
"C" Distance from Head	7,6	7,9	7,6	8,2	7,9	9,8	10,1	11,6	10,1	12,2	10,1	12,4
Nozzle/Bar/LPM	#33/53 Nozzle @ 4,5 Bar						#34/54 Nozzle @ 4,5 Bar					
Trajectory	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°
"A" Radius	16,5	17,1	18,0	18,9	20,1	20,7	18,6	17,7	18,3	19,2	20,4	22,6
"B" Spray Height	1,2	1,5	1,5	1,8	2,1	2,7	4,0	4,6	1,2	1,5	1,2	1,8
"C" Distance from Head	7,0	9,1	8,5	10,1	9,8	10,4	10,7	10,7	11,3	10,7	11,3	7,3
Nozzle/Bar/LPM	#35/55 Nozzle @ 4,5 Bar						#36/56 Nozzle @ 5,5 Bar					
Trajectory	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°
"A" Radius	18,0	18,6	18,9	19,5	20,1	21,3	23,2	22,6	23,5	19,5	21,9	20,7
"B" Spray Height	1,2	1,8	1,5	1,8	2,1	2,7	3,4	4,6	5,2	1,5	2,1	2,7
"C" Distance from Head	9,1	10,4	9,8	11,0	11,0	13,1	13,1	13,7	13,1	13,7	7,6	11,6
Nozzle/Bar/LPM	#37/57 Nozzle @ 5,5 Bar						#58 Nozzle @ 5,5 Bar					
Trajectory	7°	10°	15°	20°	25°	30°	7°	10°	15°	20°	25°	30°
"A" Radius	19,8	21,9	21,0	22,6	23,8	23,5	25,0	25,3	26,2	27,1	25,6	25,9
"B" Spray Height	1,5	2,1	2,7	4,3	5,5	6,7	1,8	2,1	3,0	4,6	5,5	6,7
"C" Distance from Head	9,1	11,9	12,5	14,0	15,2	14,0	11,6	12,2	13,1	14,3	15,8	14,6
Nozzle/Bar/LPM	#59 Nozzle @ 5,5 Bar						B					
Trajectory	7°	10°	15°	20°	25°	30°	B	C	A	B	C	A
"A" Radius	23,5	23,8	25,6	27,1	29,3	28,0						
"B" Spray Height	2,1	2,4	3,4	4,9	6,4	7,6						
"C" Distance from Head	12,8	13,4	13,7	14,3	16,2	14,9						

Information is for reference only. Actual results may vary.



SPECIFICATIONS | INF35/INF55 | FLX35/FLX55

FEATURES

- Dual Trajectory adjustment on main nozzle - 25° or 15°
- Part/Full circle sprinklers
- Radius reduction screw 363-4839 for fine tuning
- Ratcheting riser
- Nozzle base clutching
- Pop-up height to nozzle: 8,25 cm (3.25")

OPERATING SPECIFICATIONS

Inlet:

- INF/FLX35-: 25 mm (1") ACME
- INF/FLX55: 40 mm (1.5") ACME

Radius:

- INF/FLX35: 13,1 – 25,3 m (43' – 83')
- INF/FLX55: 16,7 – 28,0 m (55' – 92')

Flow Rate:

- INF/FLX35: 31,0-179,0 LPM
(8.2 – 47.8 GPM)
- INF/FLX55: 53,0-232,0 LPM
(14.1 – 61.3 GPM)

Precipitation Rates:

- INF/FLX35:
Minimum: 10,4 mm/hr (0.41"/hr);
Maximum: 11,4 mm/hr (0.45"/hr)
- INF/FLX55:
Minimum: 11,7 mm/hr (0.46"/hr);
Maximum: 14,7 mm hr (0.58"/hr)

Pilot Valve:

Selectable at 3,4; 4,5; 5,5; and 6,9 Bar
(50, 65, 80 and 100 psi)

Recommended Operating Pressure Range:

- 4,5-6,9 Bar (65-100 psi)
- Maximum: 10,3 Bar (150 psi)
- Minimum: 2,8 Bar (40 psi)

Activation type

- Standard Solenoid:
 - 24 VAC, 50/60Hz
 - Inrush: 0.30 A
 - Holding 0.20 A
- Spike Guard Solenoid:
 - 24 VAC, 50/60Hz
 - Inrush: 0.12 A
 - Holding 0.10 A
- Nickel-Plated Spike Guard Solenoid:
 - 24 VAC, 50/60Hz
 - Inrush: 0.12 A
 - Holding 0.10 A
- DC Latching Solenoid (DCLS)
 - Momentary low voltage pulse
- Lynx Smart Module with DCLS
 - Momentary low voltage pulse

NOZZLE SELECTION

- INF/FLX35 has eight nozzle variations (30, 31, 32, 33, 34, 35, 36 & 37)
- INF/FLX55 has nine nozzle variations (51, 52, 53, 54, 55, 56, 57, 58 & 59)
- Three in-line nozzles, rotating stream pattern
- Two back nozzle position
- Stator variations INF35/INF55 - 3

DIMENSIONS

INF: Smart Access® Cover and Compartment

Diameter / FLX: Body Diameter

- INF35: 19 cm (7.5") /
FLX35: 16,5 cm (6.5")
- INF55: 19 cm (7.5") /
FLX55: 19 cm (7.5")
- Body height:
 - INF/FLX35: 25 cm (10")
 - INF/FLX55: 29 cm (11.38")
- Weight:
 - INF35: 1,93 kg (4.26 lbs.) /
FLX35: 1,31 kg (2.89 lbs.)
 - INF55: 2,30 kg (5.08 lbs.) /
FLX55: 1,62 kg (3.57 lbs.)
 - Weight: (FLX35/FLX55 with integrated GDC)
 - FLX35: 1,62 kg (3.57 lbs.)
 - FLX55: 1,93 kg (4.26 lbs.)
 - Weight integrated with Lynx Smart Module:
 - INF35: 2,24kg (4.95 lbs.)
 - FLX35: 1,62kg (3.58 lbs.)
 - INF55: 2.59kg (5.71 lbs.)
 - FLX55: 1,93kg (4.26 lbs.)

WARRANTY

- Two years; Five years when installed with Toro® Swing Joints

INF35/INF55 SPECIFYING INFORMATION

INFX5-XXX-XX					
Body Inlet	Arc	Nozzle	Pressure Regulation*	Activation Type	Optional
INFX	5	XX	X	X	X

Example: When specifying an INF35 Series Sprinkler with #34 nozzle, pressure regulation at 65 psi and Spike Guard™ you would specify: INF35-346-2

* All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.
Note: Not all models available.

FLX35/FLX55 SPECIFYING INFORMATION

FLXX5-XXX-X					
Body Inlet	Arc	Nozzle	Pressure Regulation*	Activation Type	
FLXX	5	XX	X	X	

Example: When specifying an FLX35 Series Sprinkler with #34 nozzle, pressure regulation at 65 psi and Spike Guard™ you would specify: FLX35-346-2

* All sprinklers are equipped with the selectable pilot valve that allows settings at 3,4; 4,5; 5,5; and 6,9 Bar (50, 65, 80 and 100 psi).
Note: Not all models available. Nickel-plated, corrosion-resistant models are available upon request.

SPECIFICATIONS | INF35/INF55 | FLX35/FLX55

INF35/FLX35 SERIES PERFORMANCE DATA – 25°

Front Nozzle Position		Nozzle Set 30 (White) 102-2208	Nozzle Set 31 (Yellow) 102-6906	Nozzle Set 32 (Blue) 102-0726	Nozzle Set 33 (Brown) 102-6907	Nozzle Set 34 (Orange) 102-0728	Nozzle Set 35 (Green) 102-6955	Nozzle Set 36 (Grey) 102-6935	Nozzle Set 37 (Black) 102-6936									
Back Nozzle Position		  Red Plug 102-4335																
Base Pressure		Bar	kPa	kg/cm²	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM
3,4	340	3,47	13,1	31	16,2	52,2	17,1	69,3	18,6	82,1	-	-	-	-	-	-	-	-
4,5	450	4,59	13,7	37,9	16,2	58,7	18	77,6	19,5	92,4	20,7	106,7	22	129,1	-	-	-	-
5,5	550	5,61	14	43,5	17,4	65,5	18,9	85,9	20,4	102,6	21,7	117,7	22,9	143,1	23,8	152,5	24,4	166,5
6,9	690	7,04	14,3	50,7	18	72,3	19,8	94,2	21,4	112,8	22,6	129,1	24,1	154,8	24,7	165,8	25,3	179
Stator		102-6929 Blue						102-1939 Yellow						102-1940 White				
Conversions		INF35-3134/FLX35-3134												INF35-3537/FLX35-3537				

INF55/FLX55 SERIES PERFORMANCE DATA – 25°

Front Nozzle Position		Nozzle Set 51 (Yellow) 102-6906	Nozzle Set 52 (Blue) 102-0726	Nozzle Set 53 (Brown) 102-6907	Nozzle Set 54 (Orange) 102-0728	Nozzle Set 55 (Green) 102-6955	Nozzle Set 56 (Grey) 102-6935	Nozzle Set 57 (Black) 102-6936	Nozzle Set 58 (Red) 102-6909	Nozzle Set 59 (Beige) 102-4259								
Back Nozzle Position		  Red Plug 102-4335																
Base Pressure		Bar	kPa	kg/cm²	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM	Radius	LPM
3,4	340	3,47	16,7	53,4	17,3	70	18,9	84,4	20,1	97,6	-	-	-	-	-	-	-	-
4,5	450	4,59	17,4	59,8	18,2	79,1	19,8	95	21	108,6	22,3	135,8	-	-	-	-	-	-
5,5	550	5,61	18	66,2	18,5	87,4	20,7	105,2	21,9	119,9	23,1	150,3	24,4	163,2	25,2	182,5	25,9	189,3
6,9	690	7,04	18,6	73	19,2	95,7	21,7	114,7	22,8	130,6	24,4	164,6	25,2	185,5	26,8	194,9	27,4	204
Stator		102-1939 Yellow						102-1940 White						102-1941 White				
Conversions		INF55-5154/FLX55-5154												INF55-5558/FLX55-5558				

Radius shown in meters. Toro recommends the use of a 30-mm swing joint at flows over 95-LPM. Sprinkler radius of throw 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 3,4; 4,5; 5,5; and 6,9 Bar.

(-) Not recommended at these pressures.

SPECIFICATIONS | INF34/INF54 | FLX34/FLX54

FEATURES

- Dual Trajectory adjustment on main nozzle - 25° or 15°
- Constant velocity full circle drive
- Radius reduction screw can effectively reduce the sprinkler throw down to 9 meters
- Pop-up height to nozzle: 8,25 cm (3.25")

OPERATING SPECIFICATIONS

Inlet:

- INF/FLX34: 25 mm (1") ACME
- INF/FLX54: 40 mm (1.5") ACME

Radius:

- INF/FLX34: 15,9/15,8 – 27,8 m (52' – 91')
- INF/FLX54: 15,9/15,8 – 30,2 m (52' – 99')

Flow Rate:

- INF/FLX34: 49,2/48,8-177,5 LPM
(13.0 – 46.9 GPM)
- INF/FLX54: 50,0-233,9 LPM
(13.2 – 61.8 GPM)

Precipitation Rates:

- INF/FLX34:
Minimum: 8,4 mm/hr (0.33"/hr);
Maximum: 13,9/14,0 mm/hr (0.55"/hr)
- INF/FLX54:
Minimum: 8,4 mm/hr (0.33"/hr);
Maximum: 15,5 mm/hr (0.61"/hr)

Pilot Valve:

Selectable at 3,4; 4,5; 5,5; and 6,9 Bar
(50, 65, 80 and 100 psi)

Recommended Operating Pressure Range:

- 4,5-6,9 Bar (65-100 psi)
- Maximum: 10,3 Bar (150 psi)
- Minimum: 2,8 Bar (40 psi)

Activation type

- Standard Solenoid:
 - 24 VAC, 50/60Hz
 - Inrush: 0.30 A
 - Holding 0.20 A
- Spike Guard Solenoid:
 - 24 VAC, 50/60Hz
 - Inrush: 0.12 A
 - Holding 0.10 A
- Nickel-Plated Spike Guard Solenoid:
 - 24 VAC, 50/60Hz
 - Inrush: 0.12 A
 - Holding 0.10 A
- DC Latching Solenoid (DCLS)
 - Momentary low voltage pulse
- Lynx Smart Module with DCLS
 - Momentary low voltage pulse

NOZZLE SELECTION

- FLX34 has seven nozzle variations (31, 32, 33, 34, 35, 36 & 37)
- FLX54 has nine nozzle variations (51, 52, 53, 54, 55, 56, 57, 58 & 59)
- Three opposing nozzles, rotating stream pattern
- Two additional front nozzle positions

DIMENSIONS

INF: Smart Access® Cover and Compartment Diameter / FLX: Body Diameter

- INF34: 19 cm (7.5") /
FLX34: 16,5 cm (6.5")
- INF54: 19 cm (7.5") /
FLX54: 19,1 cm (7.5")
- Body height:
INF34: 25 cm (10") /
FLX34: 25,4 cm (10")
- INF54: 29 cm (11.38") /
FLX54: 28,9 cm (11.375")
- Weight:
INF34: 1,91 kg (4.22 lbs.) /
FLX34: 1,35 kg (2.98 lbs.)
- INF54: 2,28 kg (5.04 lbs.) /
FLX54: 1,68 kg (3.70 lbs.)
- Weight integrated with Lynx Smart Module:
INF34: 2,24kg (4.95 lbs.)
- FLX34: 1,61kg (3.65 lbs.)
- INF54: 2,59kg (5.71 lbs.)
- FLX54: 1,92kg (4.24 lbs.)

WARRANTY

- Two years; Five years when installed with Toro® Swing Joints

INF34/INF54 SPECIFYING INFORMATION

INFX4-XXX-XX				
Body Inlet	Arc	Nozzle	Pressure Regulation*	Activation Type
INFX	4	XX	X	X

3 - 25 mm (1")
5 - 40 mm (1.5")

4-Full Circle

INF34 - 31, 32, 33, 34, 35, 36, 37
INF54 - 51, 52, 53, 54, 55, 56, 57, 58, 59

6 - 65 psi (4,5 bar)
8 - 80 psi (5,5 bar)
1 - 100 psi (6,9 bar)

1 - Standard Solenoid
2 - Spike Guard™ Solenoid
3 - Nickel-plated Spike Guard Solenoid
4 - DC Latching Solenoid (DCLS)
5 - Integrated GDC Module w/DCLS
6 - Integrated LYNX Smart Module w/DCLS

Example: When specifying an INF34 Series Sprinkler with #34 nozzle, pressure regulation at 65 psi and Spike Guard™ you would specify: INF34-346-2

* All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.
Note: Not all models available.

FLX34/FLX54 SPECIFYING INFORMATION

FLXX4-XXX-X				
Body Inlet	Arc	Nozzle	Pressure Regulation*	Activation Type
FLXX	4	XX	X	X

3 - 25 mm (1")
5 - 40 mm (1.5")

4-Full Circle

FLX34 - 31, 32, 33, 34, 35, 36, 37
FLX54 - 51, 52, 53, 54, 55, 56, 57, 58, 59

6 - 65 psi (4,5 bar)
8 - 80 psi (5,5 bar)
1 - 100 psi (6,9 bar)

1 - Standard Solenoid
2 - Spike Guard™ Solenoid
3 - Nickel-plated Spike Guard Solenoid
4 - DC Latching Solenoid (DCLS)
5 - Integrated GDC Module w/DCLS
6 - Integrated LYNX Smart Module w/DCLS

Example: When specifying an FLX35 Series Sprinkler with #34 nozzle, pressure regulation at 65 psi and Spike Guard™ Solenoid you would specify: FLX34-346-2

* Electric models only. All sprinklers are equipped with the selectable pilot valve that allows settings at 3,4; 4,5; 5,5; and 6,9 Bar (50, 65, 80 and 100 psi).
Note: Not all models available. Nickel-plated, corrosion-resistant models are available upon request.

SPECIFICATIONS | INF34/INF54 | FLX34/FLX54

INF34/FLX34 SERIES PERFORMANCE DATA – 25°

		Nozzle Set 31 (Yellow) 102-0725	Nozzle Set 32 (Blue) 102-7001	Nozzle Set 33 (Brown) 102-0727	Nozzle Set 34 (Orange) 102-7002	Nozzle Set 35 (Green) 102-6908	Nozzle Set 36 (Grey) 102-0730	Nozzle Set 37 (Black) 102-4261
Front Nozzle Position								
Back Nozzle Position								
Base Pressure								
Bar	kPa	kg/cm ²	Radius	LPM	Radius	LPM	Radius	LPM
3,4	340	3,47	17,4	49,2	17,7	58,7	19,5	82,9
4,5	450	4,59	17,7	55,3	18,3	68,1	20,7	92,4
5,5	550	5,61	18,3	61,3	19,2	77,6	22	106,4
6,9	690	7,04	18,9	67,8	20,1	88,6	22,9	112,8
Radius		Radius	Radius	Radius	Radius	Radius	Radius	Radius
LPM		LPM	LPM	LPM	LPM	LPM	LPM	LPM
102-6929 Blue		102-1940 White						
Conversions		INF34-3134/FLX34-3134						

INF54/FLX54 SERIES PERFORMANCE DATA – 25°

		Nozzle Set 51 (Yellow) 102-0725	Nozzle Set 52 (Blue) 102-7001	Nozzle Set 53 (Brown) 102-0727	Nozzle Set 54 (Orange) 102-7002	Nozzle Set 55 (Green) 102-6908	Nozzle Set 56 (Grey) 102-0730	Nozzle Set 57 (Black) 102-4261	Nozzle Set 58 (Red) 102-4260	Nozzle Set 59 (Beige) 102-4259
Front Nozzle Position										
Back Nozzle Position										
Base Pressure										
Bar	kPa	kg/cm ²	Radius	LPM	Radius	LPM	Radius	LPM	Radius	
3,4	340	3,47	17,7	50	18	59,4	19,5	83,3	21,4	
4,5	450	4,59	18,3	56	18,6	66,2	20,7	93,9	22,6	
5,5	550	5,61	18,6	62,1	19,5	75,7	22	104,5	23,8	
6,9	690	7,04	19,2	68,5	20,4	89,3	22,9	115,1	24,7	
Radius		Radius	Radius	Radius	Radius	Radius	Radius	Radius	Radius	
LPM		LPM	LPM	LPM	LPM	LPM	LPM	LPM	LPM	
102-6929 Blue		102-1940 White							102-1941 White	
Conversions		INF54-5154/FLX54-5154							INF54-5558/FLX54-5558	

Radius shown in meters. Toro recommends the use of a 30 mm swing joint at flows over 95-LPM. Sprinkler radius of throw 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 3,4; 4,5; 5,5; and 6,9 Bar.

(-) Not recommended at these pressures.

SPECIFICATIONS | FLEX800™ B Series

FEATURES

- Ratcheting riser - Part circle models
- Nozzle base clutching - Part circle models
- Radius reduction screw 363-4839 for fine tuning. Standard on FLX35B; optional on FLX34B and not available on FLX35-6B models
- Pop-up height to nozzle: 8,25 cm (3,25")

OPERATING SPECIFICATIONS

Inlet:

- 25 mm (1") NPT, BSP or ACME

Radius:

- FLX35-6B: 9 m - 29 m (29' - 95')
- FLX35B: 9 m - 27 m (29' - 90')
- FLX34B: 17 m - 29 m (57' - 95')

Flow Rate:

- FLX35-6B: 26,8 - 198,7 LPM
(7,1 - 52,5 GPM)
- FLX35B: 31,0 - 213,1 LPM
(8,2 - 56,3 GPM)
- FLX34B: 49,2 - 209,7 LPM
(13,0 - 55,4 GPM)

Precipitation Rates:

- FLX35-6B: 8,6 - 14,2 mm/hr
(0,34 in/hr - 0,56 in/hr)
- FLX35B: 9,3 - 17,0 mm/hr
(0,37 in/hr - 0,67 in/hr)
- FLX34B: 8,3 - 14,9 mm/hr
(0,33 in/hr - 0,59 in/hr)

Recommended Operating Pressure Range:

- 4,4-6,9 Bar (65-100 psi)

TRAJECTORY

- FLX35-6B - 7° - 30° in 1° increments; 24 positions
- FLX35B - 15° or 25° in 2 positions
- FLX34B - 15° or 25° in 2 positions

CHECK-O-MATIC

feature prevents low head drainage up to 10" of elevation change

NOZZLE SELECTION

Nozzle Variations

- FLX35-6B - nine variations
(30, 31, 32, 33, 34, 35, 36, 37 & 38)
- FLX35B - nine variations
(30, 31, 32, 33, 34, 35, 36, 37 & 38)
- FLX34B - eight variations (31, 32, 33, 34, 35, 36, 37 & 38)
- Back nozzle capability on part circle models standard
- FLX35-6B - one position available
- FLX35B - two positions available
- FLX34B - two additional front nozzle positions
- Main-less capability for short radius applications

Stator variations:

- FLX35-6B, FLX35B: 3
- FLX34B: 2

DIMENSIONS

- Body Diameter: 15,2 cm (6")
- Body height: 21,6 cm (8,5")
- Weight:
FLX35-6B: 0,9 kg (1.99 lbs)
FLX35B: 0,9 kg (1.99 lbs)
FLX34B: 0,89 kg (1.97 lbs)

WARRANTY

- Two years; Five years when installed with Toro® Swing Joints

SPECIFYING INFORMATION

FLX3XB-X2-XXXX					
Series	Arc	System	Thread Type	Valve Type	Nozzle
FLX3	X	B	X	2	XXXX
FLX3 - FLEX800™ B Series	4-Full Circle (DT only) 5-Part-/Full-Circle 5-6-Part/Full-Circle with TruJectory	B-Block	0 - NPT 4 - ACME 5 - BSP	Check-O-Matic	3134 - Includes nozzles 31, 32, 33, 34 3538 - Includes nozzles 35, 36, 37, 38

Example: When specifying a FLEX800 B Series Sprinkler with full circle - NPT threads and #34 nozzle, you would specify: FLX34B-02-3134

* Electric models only. All sprinklers are equipped with the selectable pilot valve that allows settings at 3,4; 4,5; 5,5; and 6,9 Bar (50, 65, 80 and 100 psi).

Note: Not all models available. Nickel-plated, corrosion-resistant models are available upon request.



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