



Agricultural Irrigation Products

2026



Supporting growers since 1933 with The Intelligent Use of Water™

RAIN BIRD'S PROFESSIONAL CUSTOMER SATISFACTION POLICY

Rain Bird will repair or replace at no charge any Rain Bird professional product that fails in normal use within the Customer Satisfaction Policy period stated below. You must return it to the dealer or distributor where you bought it.

Product failures due to acts of God including without limitation, lightning and flooding, are not covered by this Customer Satisfaction Policy.

This commitment to repair or replace is our sole and total warranty.

WE'RE HERE FOR YOU.

Toll-Free, Rain Bird Customer Service:
1-800-HELLO-AG | 1-800-435-5624
agcustomerservice@rainbird.com

Thank you for choosing Rain Bird. We welcome any suggestions you may have for making your partnership with Rain Bird AG a pleasant, effective and positive experience.

Our Comprehensive Warranties Make it Easy to Choose Rain Bird.

GritX™ Pressure
Compensating
Dripline



Micro Bird®, LFX™, LF™ and
Brass Impact Sprinklers



Plastic Impact
Sprinklers



All Other
Agricultural Products



Rain Bird will not under any circumstances be liable for incidental or consequential damages, no matter how they occur.



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From row crops to orchards, we are proud to offer a complete portfolio of irrigation solutions.

This includes a variety of precision irrigation products from dripline to sprinklers and more.

Install Rain Bird. Install Confidence.



Drip Irrigation

GritX™ Pressure Compensating Dripline 7

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Pressure Compensating On-line Emitters 17

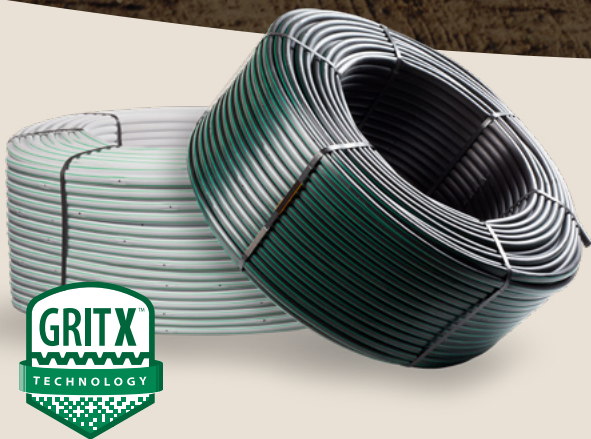
Accessories 19

Charts 20



Keep grit in your **bloodline**, not your **dripline**.

Oak Ridge Winery, family-owned and operated for five generations. Oakridgewinery.com



Multigenerational operations are built on grit, so keep it in your bloodline, not your dripline. Rain Bird's GritX™ Driplines feature self-flushing emitters that eliminate any worry of clogged lines and uneven watering. Designed for quick and easy installation, GritX Driplines improve labor efficiency and water usage. Take your irrigation to a new level of dependability with GritX Driplines.

Improve irrigation efficiency with Rain Bird GritX™ Pressure Compensating Dripline. Our self-flushing GritX™ emitters are low profile with large inlet and outlet holes as well as a wide flow path to ensure that any grit that gets in can pass through without clogging. Combined with our expertise in manufacturing to ensure precise emitter spacing, you can count on Rain Bird GritX™ PC Dripline to put water where you need it.



WORKMANSHIP



ENVIRONMENTAL
STRESS CRACKING
(ESCR)

FEATURES

- GritX™ self flushing emitters feature a wide and tall tortuous path as well as a large, flexible diaphragm to ensure that any grit that gets into your lines also gets out
- Emitter spacing is measured to your precise specification to ensure your irrigation system is delivering the right amount of water where you need it
- Durable, kink free tubing means easy installation and long-lasting performance
- Dual green stripes help identify and orient emitters for installation
- Available with Vine Clips, factory installed

OPERATING RANGE

Operating Pressure	7–60 psi	0.5–4 bar
Flow Rate	0.31–1.0 gph	1.2–4.0 lph
Filtration	120 mesh	125 micron
Water Temperature (up to)	110°F	43.3°C
Ambient Temperature (up to)	150°F	65.6°C

APPLICATIONS

ORCHARDS



Walnuts



Pistachios



Almonds



Pecans



Citrus

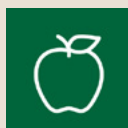


Avocados

TRELLIS



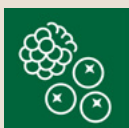
Grapes



Apples



Stonefruit

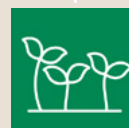


Berries



Cherries

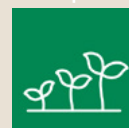
LOCATIONS



Agriculture



Greenhouse

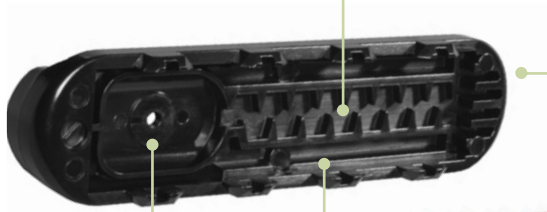


Nursery

GritX™ PC Emitter



Wide emitter flow channel to let debris pass instead of plugging the emitter



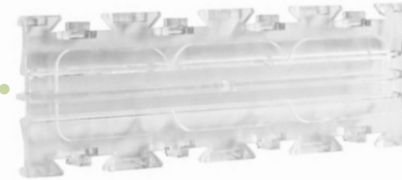
Large inlet area lets debris pass instead of plugging emitter filter



Dual-flushing emitter design clears grit and debris to provide reliable supply of water to crops

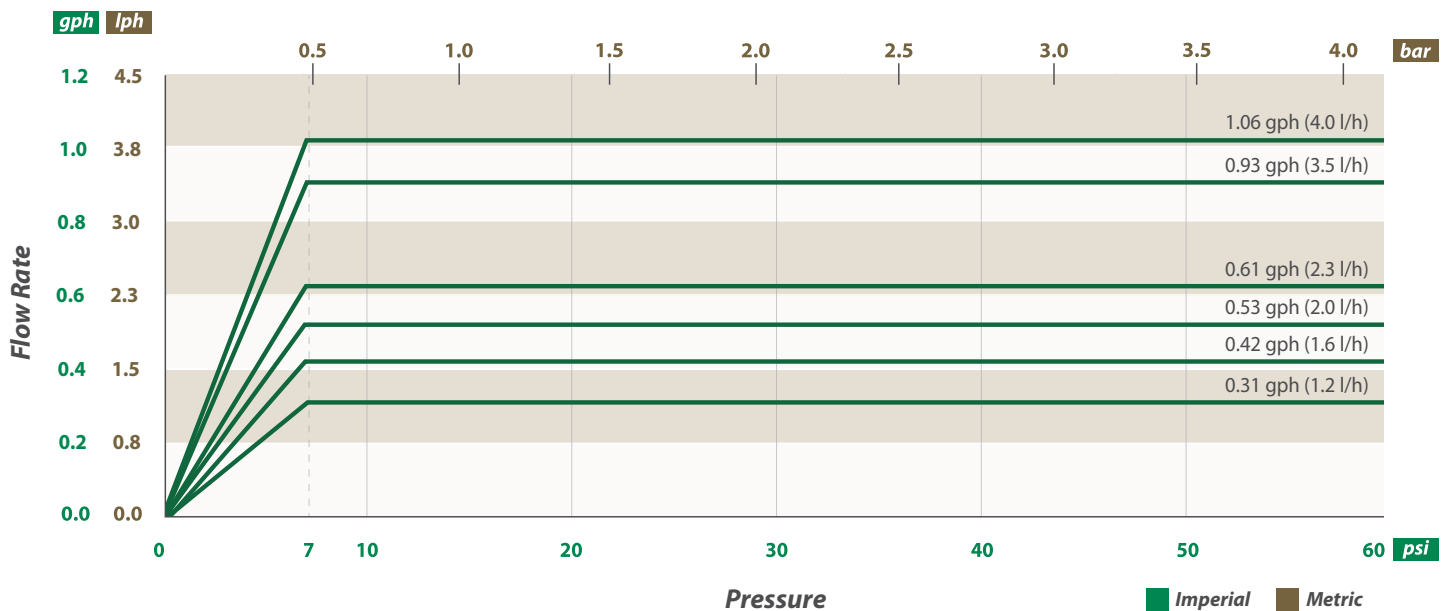
Low profile design draws cleanest available water and reduces friction loss

Reinforced structure improves emitter robustness



Chemical-resistant silicone diaphragm for longer life

GritX™ PC Flow Chart



EMITTER PERFORMANCE DATA	0.31 gph (1.2 l/h)	0.42 gph (1.6 l/h)	0.53 gph (2.0 l/h)	0.61 gph (2.3 l/h)	0.93 gph (3.5 l/h)	1.06 gph (4.0 l/h)
Coefficient of Variation (Cv)	0.036	0.037	0.035	0.028	0.034	0.035
Constant (k)	0.35	0.41	0.53	0.63	0.94	1.01
Exponent (x)	0.026	0.019	0.017	0.007	0.005	0.004

	16 mm	18 mm	20 mm
Barb Loss Factor (Kd)	1.40	0.85	0.41

HOW TO ORDER

GX

Model

1635

Tube Diameter

1635 = 16mm 0.035 wall
1645 = 16mm 0.045 wall
1840 = 18mm 0.040 wall
1845 = 18mm 0.045 wall
1850 = 18mm 0.050 wall
2040 = 20mm 0.040 wall
2048 = 20mm 0.048 wall
2050 = 20mm 0.050 wall

5

Emitter
Flow Rate

2 = 0.26 gph
3 = 0.31 gph
4 = 0.42 gph
5 = 0.53 gph
6 = 0.61 gph
9 = 0.93 gph
1 = 1.06 gph

18 or M020

Emitter
Spacing*

18 = 18"
24 = 24"
30 = 30"
36 = 36"
42 = 42"
48 = 48"
60 = 60"

24

Vine Clip
Spacing (optional)

24 = 24"
30 = 30"
36 = 36"
42 = 42"

W

Color
(optional)

W = White

*You may specify any emitter spacing from 6 to 96 inches (0.15 to 2.4 meters)



PACKAGING DATA



Pallet*

16 Coils

	FEET	METERS
Standard Coil Length	1,000	305

COIL DIMENSIONS*	IN	METERS
Length	31	0.8
Width	16	0.4
Height	12	0.3

	LBS	KILOS
Coil Weight*	40	18.14

PALLET DIMENSIONS*	FEET	METERS
Length	5.2	1.6
Width	5.2	1.6
Height	4.5	1.4

	LBS	KILOS
Pallet Weight*	645	293

*Actuals will vary depending on your specification.
Average dimensions based on 18 mm dripline.

**Call 1-800-HELLO-AG for specific
pallet weights and dimensions.**

Vine Clips

Factory installed Rain Bird® Vine Clips make it easy to attach dripline to various vine or trellis applications, reducing labor and installation time in the field.



- ✓ Improves control of water placement
- ✓ Easily adjustable to direct water droplets on plant
- ✓ Unparalleled strength on the wire
- ✓ Low profile for mechanical harvesting



Rain Bird Vine Clips - Available Factory Installed

Clip Plugs

Rain Bird® Clip Plugs enable easy customization of water flow for greater precision and efficiency.



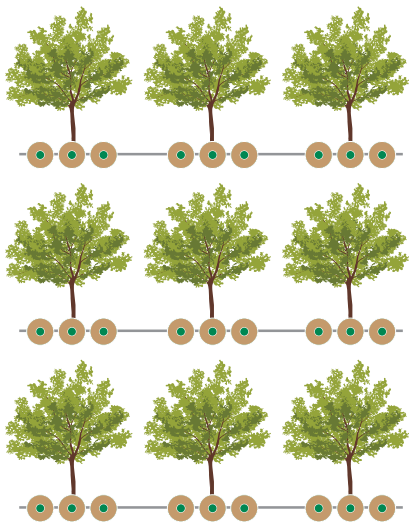
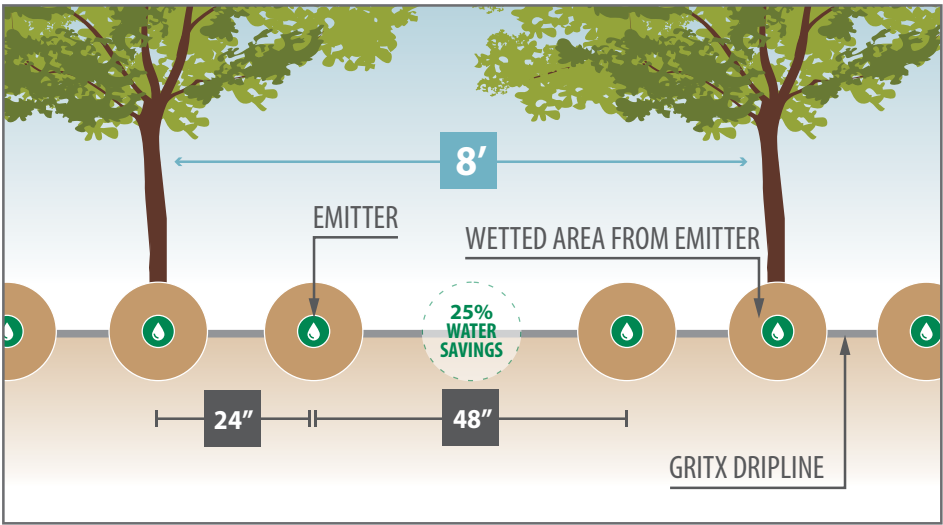
- ✓ Ratchet closure ensures clip will not fall off in field
- ✓ Durable construction withstands harsh conditions
- ✓ Easy to install and remove



Save 25% (or More) on Irrigation Costs with Smart Spacing

Smart Spacing allows growers to specify repeating patterns of variable spacing between emitters to deliver water to the plants and not the areas between them. Save water and energy while reducing chemical consumption with Smart Spacing.

HOW IT WORKS:



In the example above, the order is for 18mm Heavywall Dripline with 0.53 gph emitters that features “Smart Spacing”. There is a repeating pattern of 2 short spaces with emitters spaced 24” apart followed by 1 long space of 48”.

Another way to think about this example is that we’re “skipping” every 4th emitter, so you’re using 25% less water and simultaneously cutting irrigation expenses by 25% when you install GritX with Smart Spacing.

 HOW TO ORDER											
GX	18	5	S	24	X	2	L	48	X	1	W
Model	Tube Diameter	Emitter Flow Rate	Short Space Designator	Short Space Between Emitters*	Short Space Repeats	Long Space Designator	Long Space Between Emitters*	Long Space Repeats	Color (optional)		
	1635 = 16 mm 0.035 wall 1645 = 16 mm 0.045 wall 1845 = 18 mm 0.045 wall 2048 = 20 mm 0.048 wall	2 = 0.26 gph 3 = 0.31 gph 4 = 0.42 gph 5 = 0.53 gph 6 = 0.61 gph 9 = 0.93 gph 1 = 1.06 gph		18 = 18" 24 = 24" 30 = 30" 36 = 36" 42 = 42" 48 = 48" 60 = 60"	2 3		18 = 18" 24 = 24" 30 = 30" 36 = 36" 42 = 42" 48 = 48" 60 = 60"	1 2 3	W = White		
*You may specify any emitter spacing from 6 to 96 inches (0.15 to 2.4 meters)											

GritX™ DSV PRESSURE COMPENSATING DRIPLINE



Improve irrigation efficiency and precision with Rain Bird® GritX™ Dual Seal Valve Pressure Compensating Dripline. Featuring our reliable and self-flushing GritX Dual Seal Valve Emitter it offers a built in check valve with anti-drain and anti-siphon functionality to ensure that you're irrigating what you want when you want with precision.



WORKMANSHIP



ENVIRONMENTAL
STRESS CRACKING
(ESCR)

FEATURES

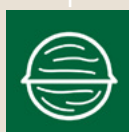
- GritX self-flushing emitter ensures consistent and reliable watering
- Dual Seal Valve provides both anti-drain and anti-siphon benefits
- Provides 3 psi [0.2 bar] of holdback
- Durable, kink free tubing means easy installation and long-lasting performance
- Dual green stripes help identify and orient emitters for installation

OPERATING RANGE

Operating Pressure	15–60 psi	1–4 bar
Opening Pressure	10 psi	0.7 bar
Closing Pressure	3 psi	0.2 bar
Holdback	7 feet	2 meters
Flow Rate	0.46 gph	1.7 lph
Filtration	120 mesh	125 micron
Water Temperature (up to)	110°F	43.3°C
Ambient Temperature (up to)	150°F	65.6°C

APPLICATIONS

ORCHARDS



Walnuts



Pistachios



Almonds



Pecans



Citrus



Avocados

TRELLIS



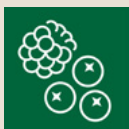
Grapes



Apples



Stonefruit



Berries



Cherries

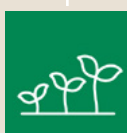
LOCATIONS



Agriculture

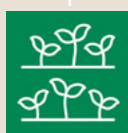


Greenhouse

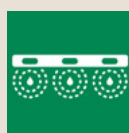


Nursery

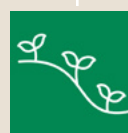
INSTALLATION



Flat Land



Pulse Irrigation



Undulating Land

GritX™ DSV Emitter

Deep emitter pathway allows grit to pass through instead of plugging the emitter



Low profile design draws in clean water and reduces friction loss



Chemical resistant, flexible diaphragm pushes grit out of the emitter



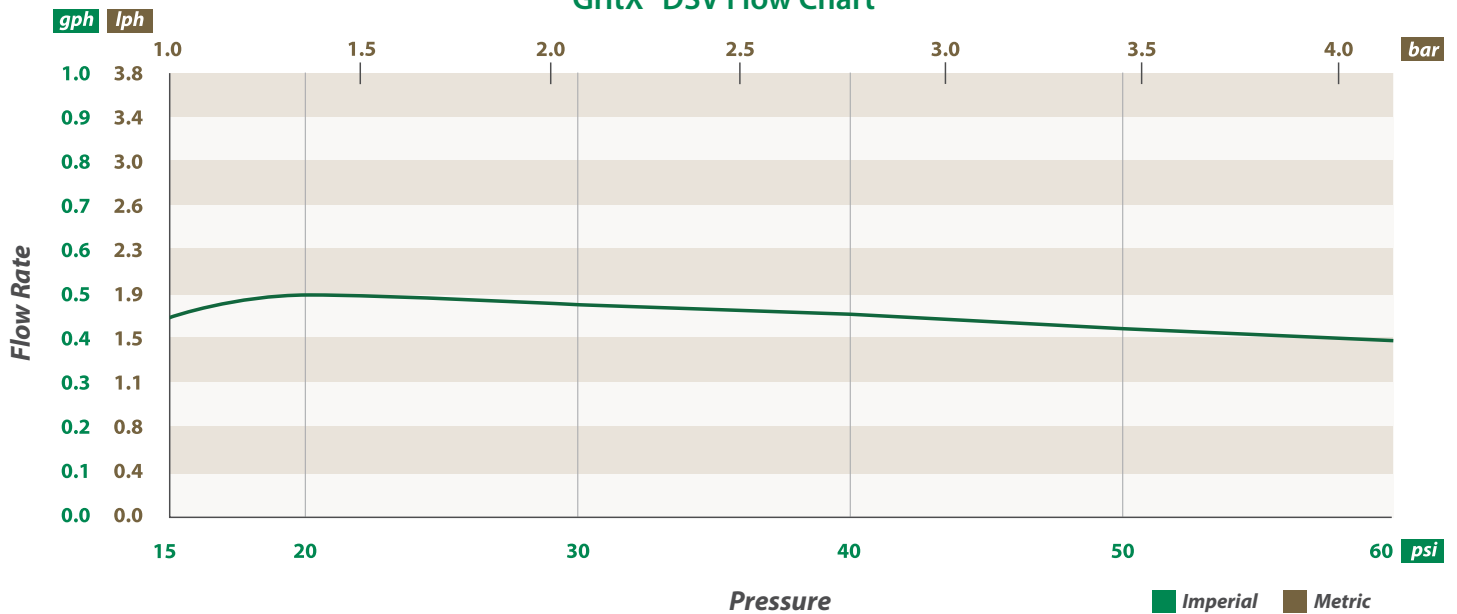
Dual Seal Valve anti-drain and anti-siphon functionality holds back water while irrigation is off while also preventing debris from flowing back into the emitter



Emitter cover



GritX™ DSV Flow Chart



EMITTER PERFORMANCE DATA

	0.46 gph	1.7 lph
Constant (k)	0.66	1.85
Exponent (x)	-0.11	-0.11

	16 mm	18 mm	20 mm
Barb Loss Factor (Kd)	0.90	0.54	0.27

✎ HOW TO ORDER

GXDSV

Model

1645

Tube Diameter

1635 = 16mm 0.035 wall
1645 = 16 mm 0.045 wall
1845 = 18 mm 0.045 wall
2048 = 20 mm 0.048 wall

4

Emitter
Flow Rate

4 = 0.46 gph

18 or M020

Emitter
Spacing*

18 = 18"
24 = 24"
30 = 30"
36 = 36"
42 = 42"
48 = 48"
60 = 60"

W

Color
(optional)

W = White

*You may specify any emitter spacing from 6 to 96 inches (0.15 to 2.4 meters)



GritX™ DSV in White - Citrus Orchard Retrofit, Installation in Progress

📦 PACKAGING DATA

📦 Pallet* 16 Coils

	FEET	METERS
Standard Coil Length	1,000	305

COIL DIMENSIONS*	IN	METERS
Length	31	0.8
Width	16	0.4
Height	12	0.3

	LBS	KILOS
Coil Weight*	40	18.14

PALLET DIMENSIONS*	FEET	METERS
Length	5.2	1.6
Width	5.2	1.6
Height	4.5	1.4

	LBS	KILOS
Pallet Weight*	645	293

*Average dimensions based on 18 mm dripline.
Actuals will vary depending on your specification.

**Call 1-800-HELLO-AG for specific
pallet weights and dimensions.**

Product Spotlight: Vine Clips

Rain Bird® Vine Clips make it a snap to attach dripline to various vine or trellis applications, reducing labor and installation time in the field.



Ask about pre-installed vine clips

Ordering Vine Clips pre-installed on big reels can split installation time in half, providing significant savings in labor costs.



GritX™ SDI PRESSURE COMPENSATING DRIPLINE



Improve irrigation efficiency and precision with Rain Bird® GritX™ Subsurface Drip Irrigation Pressure Compensating Dripline. Ensure against root intrusion with our reliable, self-flushing GritX SDI Emitter featuring Copper Shield™ Technology to inhibit roots from growing into the emitter while the Dual Seal Valve provides added protection of anti-siphon functionality to ensure roots do not follow water back into the emitter outlet.



WORKMANSHIP



ENVIRONMENTAL
STRESS CRACKING
(ESCR)

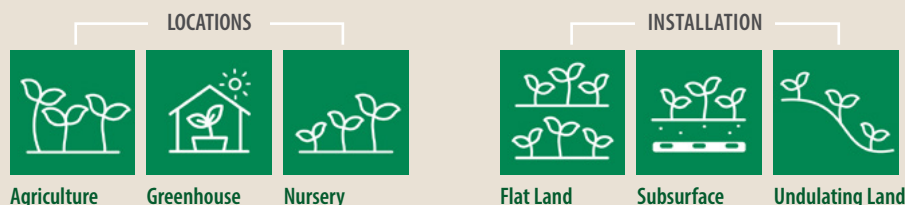
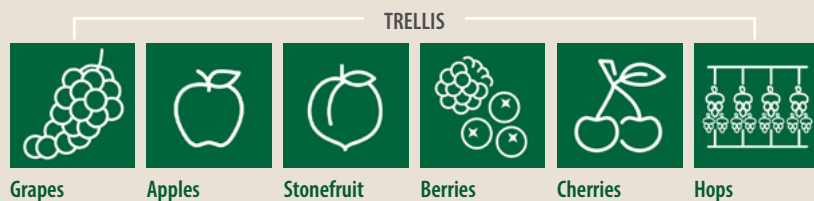
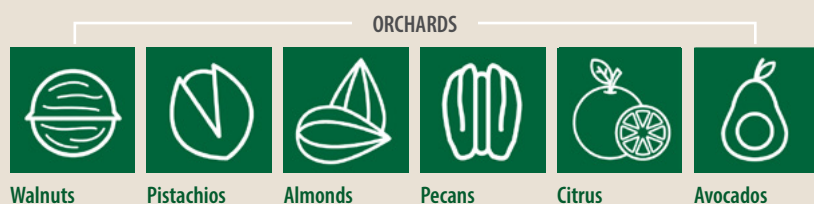
FEATURES

- GritX self-flushing emitter ensures consistent and reliable watering
- Copper Shield™ Technology stops roots from growing into the emitter
- Dual Seal Valve provides anti-drain and anti-siphon benefits to prevent roots from growing into the emitter outlet
- Durable, kink free tubing means easy installation and long-lasting performance
- Dual green stripes help identify and orient emitters for installation

OPERATING RANGE

Operating Pressure	15–60 psi	1–4 bar
Opening Pressure	10 psi	0.7 bar
Closing Pressure	3 psi	0.2 bar
Holdback	7 feet	2 meters
Flow Rate	0.46 gph	1.7 lph
Filtration	120 mesh	125 micron
Water Temperature (up to)	110°F	43.3°C
Ambient Temperature (up to)	150°F	65.6°C

APPLICATIONS



GritX™ SDI Emitter

Deep emitter pathway allows grit to pass through instead of plugging the emitter

FRONT



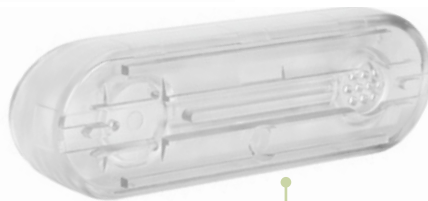
Low profile design draws in clean water and reduces friction loss



Chemical resistant, flexible diaphragm pushes grit out of the emitter



Dual Seal Valve anti-drain and anti-siphon functionality holds back water while irrigation is off while also preventing debris from flowing back into the emitter



Emitter cover

BACK

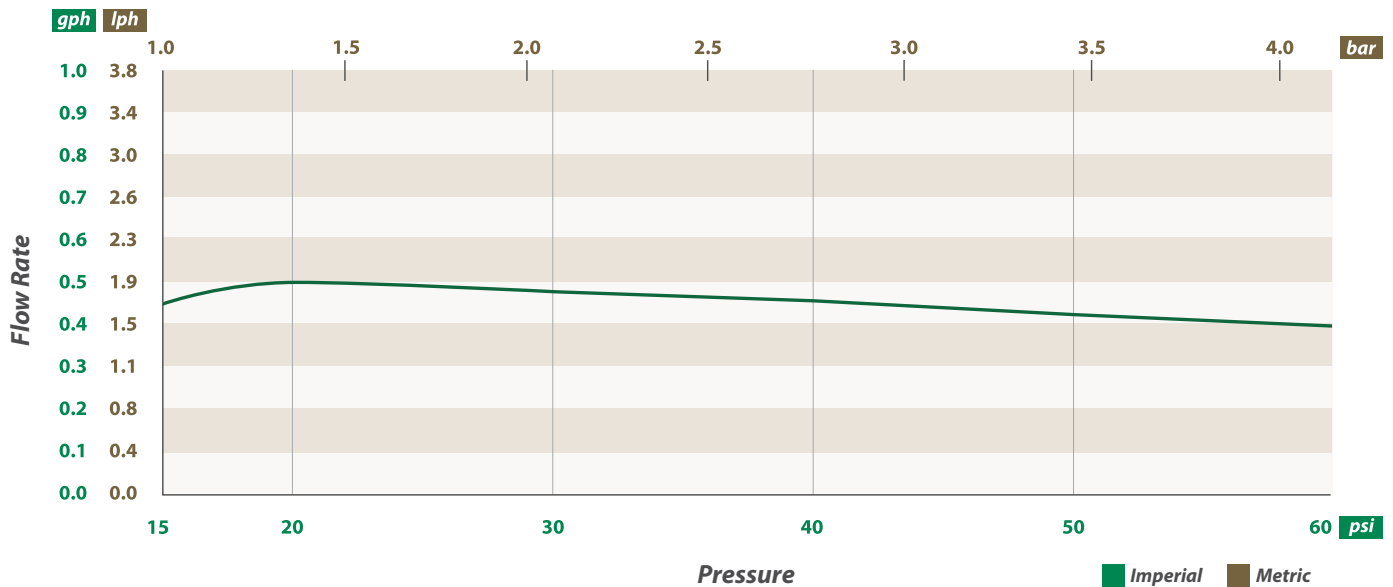


Copper Shield™ Technology prevents roots from growing into the emitter



Structural barrier prevents roots from growing into the “dead zone” by blocking the flow path

GritX™ SDI Flow Chart



EMITTER PERFORMANCE DATA

0.46 gph

1.7 lph

Constant (k)

0.66

1.85

Exponent (x)

-0.11

-0.11

16 mm

18 mm

20 mm

Barb Loss Factor (Kd)

0.90

0.54

0.27



✎ HOW TO ORDER

GXSDI

Model

1645

Tube Diameter

1635 = 16 mm 0.035 wall

1645 = 16 mm 0.045 wall

1845 = 18 mm 0.045 wall

2048 = 20 mm 0.048 wall

4

Emitter Flow Rate

4 = 0.46 gph

18 or M020

Emitter Spacing*

18 = 18"

24 = 24"

30 = 30"

36 = 36"

42 = 42"

48 = 48"

60 = 60"

*You may specify any emitter spacing from 6 to 96 inches (0.15 to 2.4 meters)

📦 PACKAGING DATA

🚚 Pallet*

16 Coils

FEET METERS

Standard Coil Length 1,000 305

COIL DIMENSIONS* **IN METERS**

Length 31 0.8

Width 16 0.4

Height 12 0.3

LBS KILOS

Coil Weight* 40 18.14

PALLET DIMENSIONS* **FEET METERS**

Length 5.2 1.6

Width 5.2 1.6

Height 4.5 1.4

LBS KILOS

Pallet Weight* 645 293

*Average dimensions based on 18 mm dripline.
Actuals will vary depending on your specification.

**Call 1-800-HELLO-AG for specific
pallet weights and dimensions.**



PRESSURE COMPENSATING ON-LINE EMITTERS

TECHNICAL SPECIFICATIONS



Ensure uniform water flow in scenarios where the system has a large variation in pressure, or you wish to improve system precision. Pressure Compensating On-Line Emitters consistently deliver uniform flow across 15–50 psi (1–3.4 bar).

The barbed outlet connects to all ¼" distribution tubing so emitters can be used as a companion to various micro-sprinklers for maximum efficiency.

PC EMITTER DESIGN



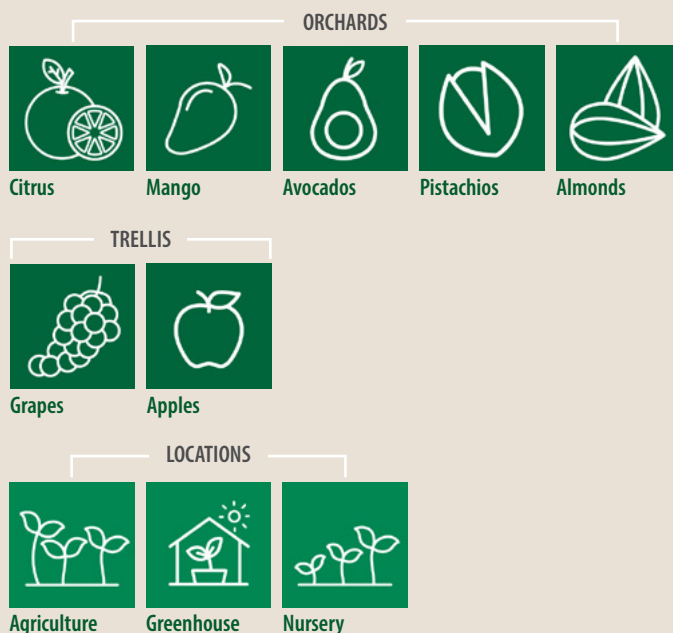
FEATURES

- Pressure-compensating design for uniform flow from 15 to 50 psi (1 to 3.4 bar)
- Barbed outlet fits any ¼" distribution tubing to direct water for maximum accuracy
- Silicone diaphragm made to withstand long-term exposure to agriculture chemicals
- Turbulent flow path keeps grit in suspension and facilitates superior debris flushing
- Self-piercing inlet for one-step, tool-free installation
- Outlet barbs color-coded by flow rate save labor costs

OPERATING RANGE

 Operating Pressure	15–50 psi	1–3.4 bar
 Flow Rate	0.5–24.0 gph	1.9–90.9 l/h
 Filtration	150 - 200 mesh	74 - 105 micron

APPLICATIONS



Pressure Compensating On-Line Emitters



Model: PCEM05SPB
Flow Rate: 0.5 gph (1.9 l/h)



Model: PCEM10SPB
Flow Rate: 1 gph (3.8 l/h)



Model: PCEM20SPB
Flow Rate: 2 gph (7.6 l/h)



Model: PCMOD05B
Flow Rate: 5 gph (18.9 l/h)



Model: PCMOD07B
Flow Rate: 7 gph (26.5 l/h)



Model: PCMOD10B
Flow Rate: 10 gph (37.9 l/h)



Model: PCMOD12B
Flow Rate: 12 gph (45.4 l/h)



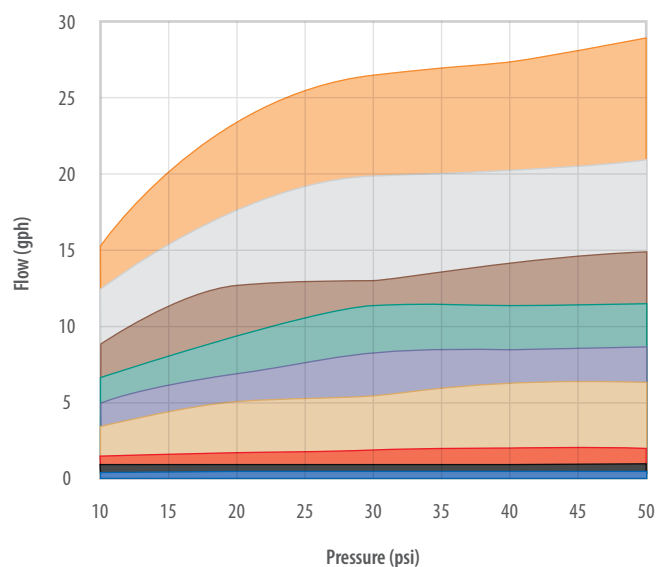
Model: PCMOD18B
Flow Rate: 18 gph (68.1 l/h)



Model: PCMOD24B
Flow Rate: 24 gph (90.9 l/h)

All models sold in
box quantity of 8,000 or
pallet quantity of 144,000

Emitter Flow Curve



Maximize water efficiency with:

1/4" Tubing



1,000 ft. Coil - Model Q10520MX

Micro Bird®



(See Pairings Below)

Tubing Goof Plug



EMAGP

Accessories for Dripline

Vine Clips



Rain Bird® Vine Clips make it a snap to attached dripline to various vine or trellis applications to ensure precision water placement. A low-profile design and durable construction make these clips ideal for vineyards that employ mechanical harvesting. Compatible with 10 gauge wire and higher.

16-18 mm
MODEL# CLIP1618
20 mm
MODEL# CLIP20



Clip Plugs

Rain Bird® Clip Plugs enable easy customization of water flow. The unique ratchet closing mechanism ensures a tight fit, prevents leaks and allows you the flexibility to use these same clips on driplines ranging from 16-20 mm in diameter.

MODEL# H5CLIPPLUG

Tubing

Tubing Goof Plug



Rain Bird® Tubing Goof Plugs allow you to close off unwanted holes or mistakes. Whether you're moving a sprinkler or on-line emitter that was barbed into PE Tubing, or just trying to close up an accidental hole-punch this goof plug is a great solution.

5 mm Goof Plug
MODEL# LFXP
10 mm Goof Plug
MODEL# LF10P



Distribution Tubing

Rain Bird® distribution tubing increases installation flexibility by allowing growers to adjust and customize the output device location.

5 mm Blank Tubing - 500' Coil
MODEL# LFXT550
10 mm Blank Tubing - 1,000' Coil
MODEL# LFXT1010
1,000 ft. Coil 1/4"
MODEL# Q10520MX

Models						
Nominal Diameter		Wall Thickness	Max. Pressure	Packaging	Length	Model Number
Inside	Outside					
0.17" (4.3mm)	0.25" (6.3mm)	0.04" (1mm)	60 psi (4.14 bar)	Coil	1,000 ft. (305 m)	Q10520MX
0.20" (5.1mm)	0.30" (7.6mm)	0.05" (1.3mm)	60 psi (4.14 bar)	Coil	500 ft. (152 m)	LFXT550
0.35" (9.0mm)	0.50" (12.8mm)	0.075" (1.9mm)	60 psi (4.14 bar)	Coil	1,000 ft. (305 m)	LFXT1010

GritX™ PC 16 mm Dripline - 0.26 gph

Max. Lateral Length (feet)

GritX™ PC - 16 mm - 0.26 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	512	550	587	622	654	686	715	795	861	920
	25	590	637	680	724	765	803	840	939	1,029	1,108
	30	653	707	757	806	854	898	940	1,059	1,166	1,260
	35	707	767	823	878	930	980	1,028	1,161	1,281	1,388
	40	756	820	882	940	997	1,052	1,105	1,251	1,383	1,504
	45	800	867	933	996	1,057	1,115	1,173	1,332	1,477	1,608
	50	839	912	981	1,048	1,112	1,176	1,235	1,404	1,558	1,700
	55	875	952	1,025	1,096	1,164	1,230	1,293	1,473	1,638	1,788
	60	909	988	1,065	1,140	1,211	1,281	1,348	1,536	1,708	1,868
Flat	20	591	645	699	750	800	849	898	1,038	1,169	1,292
	25	662	722	783	840	897	952	1,008	1,161	1,309	1,452
	30	720	787	853	916	977	1,038	1,098	1,266	1,428	1,580
	35	771	842	911	980	1,047	1,111	1,175	1,359	1,530	1,696
	40	816	892	966	1,038	1,109	1,178	1,245	1,440	1,624	1,796
	45	857	937	1,014	1,090	1,164	1,237	1,308	1,512	1,705	1,888
	50	894	977	1,060	1,138	1,216	1,290	1,365	1,578	1,782	1,972
	55	929	1,015	1,100	1,182	1,263	1,342	1,420	1,641	1,852	2,052
	60	962	1,052	1,139	1,224	1,309	1,388	1,470	1,698	1,918	2,124
Downhill 2%	20	672	742	812	882	951	1,020	1,088	1,290	1,491	1,688
	25	734	810	886	960	1,034	1,106	1,178	1,392	1,603	1,812
	30	788	868	948	1,026	1,103	1,181	1,258	1,482	1,701	1,916
	35	834	918	1,001	1,084	1,166	1,246	1,325	1,560	1,789	2,012
	40	876	965	1,051	1,136	1,222	1,304	1,388	1,632	1,869	2,100
	45	915	1,007	1,096	1,184	1,272	1,360	1,445	1,695	1,939	2,180
	50	950	1,045	1,137	1,230	1,320	1,409	1,498	1,758	2,009	2,252
	55	983	1,080	1,177	1,270	1,365	1,456	1,548	1,812	2,072	2,324
	60	1,013	1,113	1,212	1,310	1,406	1,500	1,593	1,866	2,132	2,388

Minimum operating pressure = 7 psi

GritX™ PC 16 mm Dripline - 0.31 gph

Max. Lateral Length (feet)

GritX™ PC - 16 mm - 0.31 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	464	500	534	566	598	628	655	729	798	856
	25	531	575	616	656	693	730	765	858	942	1,020
	30	588	637	684	730	771	814	853	963	1,064	1,152
	35	636	690	743	792	841	887	930	1,053	1,166	1,268
	40	680	737	794	848	899	950	998	1,134	1,257	1,368
	45	717	780	840	898	953	1,006	1,058	1,203	1,337	1,460
	50	753	818	882	942	1,001	1,059	1,115	1,269	1,411	1,544
	55	785	853	920	984	1,047	1,106	1,165	1,329	1,481	1,620
	60	815	887	957	1,024	1,088	1,153	1,213	1,386	1,544	1,692
Flat	20	527	575	622	668	713	758	800	924	1,043	1,152
	25	590	643	697	748	800	849	898	1,038	1,169	1,292
	30	642	702	759	816	871	924	978	1,131	1,274	1,412
	35	687	750	812	874	934	992	1,048	1,212	1,365	1,512
	40	726	795	860	926	988	1,050	1,110	1,284	1,449	1,604
	45	764	835	904	972	1,038	1,104	1,165	1,347	1,523	1,684
	50	797	872	944	1,014	1,083	1,150	1,218	1,407	1,589	1,760
	55	828	905	981	1,054	1,127	1,197	1,265	1,464	1,652	1,832
	60	857	937	1,016	1,092	1,166	1,239	1,310	1,515	1,712	1,896
Downhill 2%	20	591	652	713	772	832	891	950	1,125	1,299	1,468
	25	647	713	779	844	908	971	1,035	1,221	1,404	1,580
	30	695	765	834	904	971	1,038	1,105	1,299	1,491	1,680
	35	737	812	884	956	1,027	1,097	1,168	1,371	1,572	1,764
	40	776	852	928	1,004	1,079	1,150	1,223	1,437	1,642	1,844
	45	809	890	970	1,048	1,125	1,199	1,275	1,494	1,708	1,916
	50	840	923	1,007	1,088	1,166	1,246	1,323	1,548	1,771	1,984
	55	870	957	1,041	1,124	1,207	1,288	1,368	1,599	1,827	2,044
	60	897	987	1,074	1,160	1,244	1,328	1,408	1,647	1,880	2,104

Minimum operating pressure = 7 psi

GritX™ PC 16 mm Dripline - 0.42 gph

Max. Lateral Length (feet)

GritX™ PC - 16 mm - 0.42 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	389	420	451	480	507	532	558	627	690	744
	25	444	482	517	552	585	616	645	729	805	876
	30	489	532	572	610	648	684	718	816	903	984
	35	528	575	620	662	702	742	780	888	987	1,076
	40	564	613	660	706	750	793	835	951	1,061	1,156
	45	594	647	699	746	793	840	885	1,008	1,124	1,232
	50	623	678	732	784	834	882	930	1,062	1,183	1,300
	55	650	707	763	818	871	922	970	1,110	1,239	1,360
	60	674	735	792	850	904	957	1,010	1,155	1,292	1,420
Flat	20	431	472	510	548	585	621	658	759	854	948
	25	483	528	572	614	657	695	735	852	959	1,064
	30	525	575	622	668	715	758	803	927	1,047	1,160
	35	563	615	666	716	765	812	860	993	1,120	1,244
	40	596	652	706	758	810	861	910	1,053	1,187	1,316
	45	626	683	741	796	852	905	958	1,107	1,250	1,384
	50	653	713	774	832	888	945	1,000	1,155	1,306	1,444
	55	678	742	803	864	923	982	1,038	1,200	1,355	1,504
	60	702	768	832	894	956	1,015	1,075	1,245	1,404	1,556
Downhill 2%	20	474	523	570	618	665	712	758	894	1,029	1,160
	25	522	575	627	678	728	779	828	975	1,117	1,256
	30	561	618	673	728	782	835	888	1,041	1,194	1,340
	35	597	657	715	772	828	884	940	1,101	1,260	1,412
	40	627	690	752	812	871	929	988	1,155	1,320	1,480
	45	656	722	785	848	910	971	1,030	1,206	1,376	1,540
	50	683	750	816	880	945	1,008	1,070	1,251	1,425	1,596
	55	707	777	845	912	977	1,043	1,108	1,293	1,474	1,648
	60	729	802	871	940	1,008	1,076	1,140	1,332	1,519	1,696

Minimum operating pressure = 7 psi

GritX™ PC 16 mm Dripline - 0.53 gph

Max. Lateral Length (feet)

GritX™ PC - 16 mm - 0.53 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	339	367	394	420	444	469	490	555	609	660
	25	386	418	451	480	509	539	565	642	711	772
	30	425	462	497	532	563	595	628	714	795	864
	35	458	498	537	574	611	646	680	774	865	944
	40	488	530	572	612	652	691	725	831	924	1,016
	45	515	560	605	648	689	728	768	879	980	1,076
	50	539	587	634	678	722	765	808	924	1,033	1,136
	55	561	612	660	708	754	798	843	966	1,078	1,188
	60	582	635	686	734	782	828	875	1,005	1,124	1,236
Flat	20	371	405	438	470	503	534	565	651	735	812
	25	414	453	491	528	563	597	633	732	826	912
	30	452	493	534	574	613	651	690	798	900	996
	35	483	528	572	616	657	698	738	855	963	1,068
	40	512	558	605	652	696	740	783	906	1,022	1,132
	45	537	587	636	684	730	777	823	951	1,075	1,192
	50	560	613	664	714	763	812	858	993	1,120	1,244
	55	582	637	689	742	793	842	893	1,032	1,166	1,292
	60	602	658	715	768	821	873	923	1,068	1,208	1,340
Downhill 2%	20	402	443	482	522	561	600	640	753	865	972
	25	443	487	532	574	618	658	700	822	942	1,056
	30	477	525	572	618	663	707	753	882	1,008	1,128
	35	509	558	607	656	704	751	798	933	1,068	1,192
	40	536	588	640	690	741	791	838	981	1,120	1,252
	45	560	615	669	722	774	826	875	1,023	1,166	1,304
	50	582	638	695	750	804	859	910	1,062	1,211	1,356
	55	603	662	721	776	832	889	943	1,101	1,253	1,400
	60	623	683	743	802	860	917	973	1,134	1,292	1,444

Minimum operating pressure = 7 psi

GritX™ PC 16 mm Dripline - 0.61 gph

Max. Lateral Length (feet)

GritX™ PC - 16 mm - 0.61 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	311	337	363	386	410	432	453	513	567	616
	25	354	385	414	442	470	495	520	591	658	716
	30	389	423	457	488	518	548	578	657	732	800
	35	420	457	493	528	561	593	625	714	795	872
	40	447	487	524	562	598	632	668	762	851	936
	45	471	513	554	594	633	670	705	807	903	992
	50	492	537	579	622	663	702	740	849	949	1,044
	55	513	560	605	648	691	733	773	885	991	1,092
	60	533	580	627	672	717	761	803	921	1,033	1,136
Flat	20	338	368	400	430	459	488	515	594	672	744
	25	378	413	447	480	514	546	578	666	753	832
	30	411	450	488	524	559	595	628	726	819	908
	35	440	482	523	562	600	637	673	780	879	976
	40	467	510	552	594	635	674	713	825	931	1,032
	45	489	535	581	624	667	709	750	867	980	1,088
	50	510	558	605	652	696	740	783	906	1,022	1,136
	55	531	580	629	676	724	770	813	942	1,064	1,180
	60	549	602	651	700	750	796	843	975	1,103	1,220
Downhill 2%	20	365	400	436	472	507	544	578	678	777	876
	25	402	442	480	520	559	595	633	744	851	952
	30	434	477	519	560	600	642	680	798	910	1,020
	35	461	507	552	596	639	681	723	846	966	1,080
	40	486	533	581	626	672	716	760	888	1,012	1,132
	45	509	558	607	656	702	749	795	927	1,057	1,180
	50	530	580	631	682	730	779	825	966	1,099	1,228
	55	548	602	655	706	756	807	855	999	1,138	1,268
	60	566	622	675	728	780	833	883	1,029	1,173	1,308

Minimum operating pressure = 7 psi

GritX™ PC 16 mm Dripline - 0.93 gph

Max. Lateral Length (feet)

GritX™ PC - 16 mm - 0.93 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	240	262	282	300	321	338	355	405	448	492
	25	273	297	321	342	364	385	405	462	518	564
	30	299	325	352	376	401	425	448	513	571	628
	35	321	350	380	406	433	457	483	555	620	680
	40	342	373	403	432	462	488	515	591	662	728
	45	360	393	425	456	485	516	543	624	700	772
	50	377	412	446	478	509	539	570	654	735	808
	55	392	428	464	496	531	562	593	684	767	844
	60	407	443	480	516	550	583	615	708	798	880
Flat	20	255	280	303	326	347	369	390	453	511	564
	25	287	313	339	364	390	413	438	507	571	632
	30	312	342	370	398	425	450	478	552	623	692
	35	333	365	396	426	455	483	513	591	669	740
	40	353	387	420	450	481	511	543	627	707	784
	45	371	407	440	474	507	539	570	660	746	824
	50	387	423	460	494	529	562	595	687	777	864
	55	402	440	477	514	548	583	618	717	809	896
	60	416	455	493	532	568	604	640	741	837	928
Downhill 2%	20	272	298	325	350	377	401	428	501	571	640
	25	300	330	359	388	416	443	470	549	627	704
	30	324	357	387	418	449	478	508	594	676	756
	35	345	380	413	446	477	509	540	630	718	800
	40	365	400	435	470	503	537	568	663	756	844
	45	381	418	455	492	527	560	595	693	788	880
	50	398	437	475	512	548	583	620	723	823	916
	55	413	452	491	530	568	604	643	747	851	948
	60	426	467	508	548	587	625	663	774	879	980

Minimum operating pressure = 7 psi

GritX™ PC 16 mm Dripline - 1.06 gph

Max. Lateral Length (feet)

GritX™ PC - 16 mm - 1.06 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	222	242	260	278	295	313	328	375	417	456
	25	251	273	295	316	336	355	375	429	480	524
	30	275	300	325	348	371	392	413	474	529	580
	35	296	323	348	374	399	422	445	510	574	628
	40	315	343	370	398	425	450	475	546	613	672
	45	332	362	391	420	446	474	500	576	648	712
	50	347	378	409	440	468	497	525	603	679	748
	55	360	393	425	458	488	518	548	630	707	780
	60	374	408	442	474	507	537	568	654	735	812
Flat	20	234	257	279	298	319	338	358	414	469	520
	25	263	287	312	334	358	380	403	465	525	580
	30	287	313	339	364	390	413	438	507	574	636
	35	306	335	363	390	418	443	470	543	613	680
	40	324	355	385	414	442	469	498	576	651	720
	45	341	372	403	434	464	495	523	606	683	760
	50	356	388	422	454	485	516	545	633	714	792
	55	369	403	438	472	505	537	568	657	742	824
	60	383	418	453	488	522	555	588	681	770	852
Downhill 2%	20	248	272	295	320	342	366	390	456	522	584
	25	275	302	328	354	379	404	430	501	571	640
	30	297	325	354	382	410	436	463	540	616	688
	35	317	347	378	408	436	464	493	576	655	732
	40	333	367	398	430	459	490	520	606	690	768
	45	350	383	416	450	481	513	545	636	721	804
	50	365	400	435	468	501	534	568	660	749	836
	55	378	413	449	486	520	553	588	684	777	868
	60	390	428	466	502	537	572	608	708	802	896

Minimum operating pressure = 7 psi

GritX™ PC 18 mm Dripline - 0.26 gph

Max. Lateral Length (feet)

GritX™ PC - 18 mm - 0.26 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	651	695	737	774	810	842	873	954	1,022	1,076
	25	759	815	865	914	960	1,003	1,043	1,152	1,243	1,324
	30	848	912	972	1,028	1,083	1,134	1,183	1,314	1,428	1,528
	35	923	995	1,062	1,126	1,187	1,246	1,300	1,452	1,586	1,704
	40	990	1,068	1,142	1,212	1,281	1,344	1,405	1,575	1,722	1,856
	45	1,050	1,133	1,214	1,290	1,363	1,433	1,500	1,683	1,848	1,996
	50	1,104	1,193	1,280	1,360	1,439	1,512	1,585	1,782	1,960	2,124
	55	1,155	1,248	1,338	1,426	1,508	1,587	1,663	1,875	2,065	2,240
	60	1,202	1,300	1,395	1,486	1,573	1,657	1,738	1,959	2,163	2,348
Flat	20	794	865	933	1,000	1,066	1,129	1,190	1,368	1,533	1,692
	25	890	970	1,047	1,122	1,194	1,265	1,335	1,533	1,722	1,900
	30	969	1,057	1,140	1,222	1,302	1,379	1,455	1,674	1,876	2,072
	35	1,038	1,132	1,221	1,310	1,395	1,479	1,560	1,794	2,013	2,224
	40	1,100	1,198	1,294	1,388	1,478	1,566	1,653	1,902	2,135	2,356
	45	1,155	1,258	1,360	1,458	1,554	1,647	1,738	1,998	2,244	2,476
	50	1,206	1,313	1,419	1,522	1,623	1,720	1,815	2,088	2,345	2,588
	55	1,253	1,365	1,476	1,582	1,686	1,787	1,885	2,169	2,440	2,692
	60	1,296	1,413	1,527	1,638	1,746	1,850	1,953	2,247	2,524	2,788
Downhill 2%	20	942	1,040	1,139	1,236	1,333	1,428	1,523	1,809	2,090	2,368
	25	1,023	1,128	1,232	1,334	1,437	1,538	1,638	1,935	2,230	2,520
	30	1,094	1,203	1,313	1,420	1,528	1,633	1,738	2,049	2,352	2,652
	35	1,155	1,270	1,384	1,496	1,608	1,717	1,828	2,148	2,461	2,768
	40	1,211	1,330	1,448	1,566	1,681	1,794	1,908	2,238	2,562	2,880
	45	1,262	1,385	1,507	1,628	1,746	1,864	1,980	2,322	2,653	2,980
	50	1,308	1,437	1,562	1,686	1,809	1,930	2,050	2,400	2,741	3,072
	55	1,352	1,483	1,613	1,740	1,868	1,990	2,113	2,472	2,821	3,160
	60	1,392	1,528	1,661	1,792	1,922	2,049	2,173	2,541	2,898	3,244

Minimum operating pressure = 7 psi

GritX™ PC 18 mm Dripline - 0.31 gph

Max. Lateral Length (feet)

GritX™ PC - 18 mm - 0.31 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	594	635	675	712	745	777	808	888	956	1,012
	25	689	740	788	834	878	919	958	1,062	1,152	1,232
	30	767	827	882	936	986	1,034	1,080	1,206	1,313	1,412
	35	834	900	963	1,022	1,079	1,132	1,185	1,326	1,453	1,568
	40	893	965	1,032	1,098	1,159	1,220	1,278	1,434	1,575	1,704
	45	947	1,023	1,096	1,166	1,233	1,297	1,360	1,530	1,687	1,824
	50	995	1,077	1,153	1,228	1,300	1,370	1,435	1,620	1,785	1,936
	55	1,038	1,125	1,206	1,286	1,363	1,435	1,505	1,701	1,880	2,040
	60	1,080	1,170	1,256	1,340	1,419	1,496	1,570	1,776	1,964	2,136
Flat	20	708	772	832	892	949	1,006	1,063	1,218	1,369	1,508
	25	794	865	933	1,000	1,066	1,129	1,190	1,368	1,537	1,696
	30	864	942	1,018	1,090	1,161	1,230	1,298	1,494	1,677	1,848
	35	926	1,008	1,089	1,168	1,244	1,318	1,393	1,599	1,796	1,984
	40	980	1,068	1,153	1,238	1,317	1,398	1,475	1,695	1,904	2,104
	45	1,029	1,122	1,212	1,300	1,385	1,468	1,550	1,782	2,002	2,212
	50	1,074	1,172	1,267	1,358	1,447	1,533	1,618	1,863	2,093	2,312
	55	1,116	1,218	1,316	1,410	1,504	1,594	1,683	1,935	2,177	2,404
	60	1,155	1,260	1,362	1,460	1,558	1,650	1,743	2,004	2,254	2,488
Downhill 2%	20	825	910	996	1,080	1,164	1,246	1,328	1,572	1,813	2,052
	25	900	990	1,080	1,170	1,259	1,346	1,433	1,689	1,943	2,188
	30	963	1,058	1,153	1,248	1,341	1,433	1,523	1,791	2,055	2,312
	35	1,019	1,118	1,219	1,316	1,413	1,510	1,605	1,881	2,153	2,420
	40	1,068	1,173	1,276	1,378	1,480	1,580	1,678	1,965	2,244	2,520
	45	1,113	1,223	1,329	1,436	1,541	1,643	1,743	2,040	2,328	2,612
	50	1,157	1,268	1,379	1,488	1,595	1,701	1,805	2,112	2,408	2,696
	55	1,196	1,312	1,425	1,538	1,647	1,757	1,863	2,178	2,482	2,776
	60	1,232	1,352	1,469	1,584	1,697	1,808	1,918	2,238	2,548	2,852

Minimum operating pressure = 7 psi

GritX™ PC 18 mm Dripline - 0.42 gph

Max. Lateral Length (feet)

GritX™ PC - 18 mm - 0.42 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	504	542	576	610	641	670	698	774	840	896
	25	581	625	667	708	748	784	820	915	998	1,076
	30	644	695	744	790	834	877	918	1,029	1,131	1,220
	35	698	753	809	860	910	957	1,003	1,128	1,243	1,344
	40	746	807	865	922	975	1,027	1,078	1,215	1,341	1,456
	45	788	853	917	976	1,034	1,090	1,143	1,293	1,432	1,556
	50	827	897	963	1,026	1,088	1,148	1,205	1,365	1,512	1,644
	55	863	937	1,007	1,074	1,138	1,202	1,260	1,431	1,586	1,728
	60	897	973	1,047	1,116	1,185	1,251	1,313	1,491	1,656	1,808
Flat	20	581	633	684	732	780	826	873	1,002	1,124	1,240
	25	651	708	766	820	875	926	978	1,125	1,264	1,392
	30	708	772	834	894	953	1,010	1,065	1,227	1,376	1,520
	35	759	827	895	958	1,021	1,083	1,143	1,314	1,477	1,632
	40	804	877	946	1,016	1,081	1,148	1,210	1,392	1,565	1,728
	45	845	920	996	1,066	1,138	1,206	1,273	1,464	1,645	1,816
	50	881	962	1,040	1,114	1,187	1,260	1,330	1,530	1,719	1,900
	55	915	998	1,080	1,158	1,235	1,309	1,383	1,590	1,789	1,976
	60	948	1,033	1,117	1,198	1,278	1,356	1,430	1,647	1,852	2,044
Downhill 2%	20	660	727	792	858	923	987	1,050	1,239	1,425	1,608
	25	722	793	865	936	1,005	1,073	1,140	1,341	1,537	1,728
	30	776	852	926	1,000	1,075	1,146	1,218	1,428	1,631	1,832
	35	821	902	981	1,058	1,135	1,211	1,285	1,506	1,719	1,924
	40	863	947	1,029	1,110	1,190	1,269	1,348	1,575	1,796	2,008
	45	902	988	1,074	1,158	1,242	1,323	1,403	1,638	1,866	2,088
	50	936	1,027	1,115	1,202	1,287	1,372	1,455	1,698	1,932	2,160
	55	969	1,062	1,153	1,242	1,330	1,419	1,503	1,752	1,995	2,228
	60	999	1,095	1,190	1,282	1,372	1,461	1,548	1,806	2,051	2,292

Minimum operating pressure = 7 psi

GritX™ PC 18 mm Dripline - 0.53 gph

Max. Lateral Length (feet)

GritX™ PC - 18 mm - 0.53 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	441	475	508	538	568	595	620	690	753	808
	25	507	547	585	622	657	691	723	810	889	960
	30	561	607	649	692	732	770	808	909	1,001	1,084
	35	606	657	704	750	795	838	878	993	1,096	1,192
	40	647	702	754	802	852	896	943	1,065	1,180	1,284
	45	684	742	798	850	901	950	998	1,134	1,257	1,368
	50	717	778	836	892	947	1,001	1,050	1,194	1,323	1,444
	55	747	812	873	932	990	1,045	1,098	1,248	1,390	1,516
	60	777	843	908	970	1,029	1,087	1,143	1,302	1,446	1,584
Flat	20	500	543	587	630	670	709	750	861	966	1,068
	25	560	608	658	706	752	796	840	966	1,085	1,200
	30	609	663	717	768	819	868	918	1,053	1,183	1,308
	35	653	710	768	824	878	931	983	1,131	1,271	1,404
	40	690	753	814	872	930	987	1,040	1,197	1,348	1,488
	45	725	790	854	916	977	1,036	1,095	1,260	1,414	1,564
	50	758	825	893	958	1,021	1,083	1,143	1,317	1,477	1,632
	55	786	858	928	994	1,062	1,125	1,188	1,368	1,537	1,700
	60	815	888	961	1,030	1,099	1,164	1,230	1,416	1,593	1,760
Downhill 2%	20	557	613	667	722	776	828	883	1,038	1,190	1,340
	25	612	672	732	790	847	905	960	1,128	1,288	1,448
	30	657	722	785	848	908	968	1,028	1,203	1,372	1,540
	35	698	765	832	898	962	1,024	1,088	1,272	1,449	1,620
	40	734	805	875	942	1,010	1,076	1,143	1,332	1,516	1,696
	45	767	840	913	984	1,053	1,122	1,190	1,389	1,579	1,764
	50	797	873	948	1,022	1,094	1,167	1,235	1,440	1,635	1,828
	55	825	905	983	1,058	1,133	1,206	1,278	1,488	1,691	1,884
	60	852	933	1,012	1,092	1,168	1,244	1,318	1,533	1,740	1,940

Minimum operating pressure = 7 psi

GritX™ PC 18 mm Dripline - 0.61 gph

Max. Lateral Length (feet)

GritX™ PC - 18 mm - 0.61 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	408	438	469	498	524	551	575	645	704	756
	25	467	503	541	574	607	639	668	753	826	896
	30	515	557	598	636	674	709	745	840	928	1,008
	35	557	603	647	690	732	772	810	918	1,015	1,104
	40	594	643	691	738	782	826	868	984	1,089	1,188
	45	627	680	732	780	828	875	920	1,044	1,159	1,264
	50	657	713	768	820	871	919	965	1,098	1,222	1,336
	55	686	745	801	856	908	959	1,010	1,149	1,278	1,400
	60	711	773	832	890	945	999	1,050	1,197	1,334	1,460
Flat	20	455	497	535	574	611	649	683	786	882	976
	25	510	555	600	644	685	728	768	882	991	1,096
	30	555	605	655	702	748	793	838	963	1,082	1,192
	35	594	648	700	752	802	849	898	1,032	1,159	1,280
	40	630	687	743	796	849	901	950	1,095	1,229	1,356
	45	662	722	779	836	893	945	998	1,149	1,292	1,428
	50	690	753	814	874	932	987	1,043	1,200	1,351	1,492
	55	717	783	847	908	969	1,027	1,085	1,248	1,404	1,552
	60	743	810	876	940	1,003	1,064	1,123	1,293	1,453	1,608
Downhill 2%	20	504	553	603	652	700	747	795	933	1,068	1,200
	25	554	608	662	714	765	817	868	1,017	1,159	1,300
	30	596	653	711	766	821	877	930	1,086	1,239	1,388
	35	633	693	754	814	871	929	985	1,149	1,309	1,464
	40	666	730	794	854	914	975	1,033	1,206	1,372	1,532
	45	696	763	829	892	956	1,017	1,078	1,257	1,428	1,596
	50	725	793	862	928	992	1,057	1,120	1,305	1,481	1,652
	55	750	822	891	960	1,027	1,094	1,160	1,347	1,530	1,708
	60	774	848	920	990	1,060	1,127	1,195	1,389	1,579	1,756

Minimum operating pressure = 7 psi

GritX™ PC 18 mm Dripline - 0.93 gph

Max. Lateral Length (feet)

GritX™ PC - 18 mm - 0.93 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	318	343	369	392	414	436	458	516	567	612
	25	362	392	422	448	475	502	525	594	658	716
	30	398	432	464	496	524	555	583	660	732	800
	35	429	467	502	536	568	600	630	717	798	872
	40	458	497	535	572	607	642	675	768	854	936
	45	482	523	565	604	641	677	713	813	907	992
	50	504	548	592	632	672	712	748	855	952	1,044
	55	527	572	616	660	702	742	780	891	994	1,092
	60	546	593	640	684	728	770	813	927	1,036	1,136
Flat	20	345	377	407	436	464	492	520	597	672	740
	25	387	422	457	488	520	553	583	672	753	832
	30	422	460	497	532	568	602	635	732	823	908
	35	452	492	532	570	609	646	683	786	882	976
	40	479	522	563	604	646	684	723	831	935	1,032
	45	503	548	592	636	678	719	758	873	984	1,088
	50	524	572	618	664	709	751	793	912	1,026	1,136
	55	545	593	642	690	735	779	825	948	1,068	1,180
	60	564	615	666	714	761	807	853	984	1,106	1,224
Downhill 2%	20	374	410	446	480	516	551	583	684	781	872
	25	413	452	491	530	568	604	640	747	851	952
	30	444	487	530	570	611	651	690	804	914	1,020
	35	473	518	563	606	650	691	733	852	970	1,080
	40	498	547	592	638	683	728	770	897	1,019	1,132
	45	522	572	620	668	715	761	805	936	1,061	1,184
	50	543	595	645	694	743	791	838	972	1,103	1,228
	55	563	617	669	720	769	819	868	1,008	1,141	1,272
	60	582	637	691	744	795	845	895	1,038	1,176	1,312

Minimum operating pressure = 7 psi

GritX™ PC 18 mm Dripline - 1.06 gph

Max. Lateral Length (feet)

GritX™ PC - 18 mm - 1.06 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	294	318	341	362	384	404	425	480	529	572
	25	335	362	389	414	440	464	488	552	613	668
	30	368	398	429	458	485	513	538	612	679	744
	35	396	430	462	494	524	555	583	663	739	808
	40	422	458	493	526	559	593	623	711	791	864
	45	444	483	521	556	592	625	658	750	837	916
	50	465	505	545	584	620	656	690	789	882	964
	55	485	527	568	608	646	684	720	825	921	1,008
	60	503	547	589	630	672	709	748	855	956	1,052
Flat	20	317	345	374	400	427	453	478	549	616	680
	25	356	387	418	448	479	506	535	615	693	764
	30	387	422	457	490	522	553	583	672	756	836
	35	414	452	488	524	559	593	625	720	809	896
	40	438	478	517	556	592	628	663	765	858	948
	45	461	503	543	584	622	660	698	804	903	1,000
	50	482	525	568	610	650	688	728	840	945	1,044
	55	500	545	590	634	676	716	758	873	980	1,084
	60	518	565	611	656	700	742	783	903	1,015	1,124
Downhill 2%	20	341	373	405	438	470	502	530	621	707	792
	25	377	413	447	482	518	551	585	681	774	868
	30	407	445	484	520	557	593	630	732	833	928
	35	432	473	515	554	594	630	668	777	882	984
	40	456	500	543	584	624	665	705	819	928	1,036
	45	477	523	567	610	652	695	735	855	970	1,080
	50	497	545	590	636	680	723	765	888	1,008	1,120
	55	516	563	612	658	704	749	793	921	1,043	1,160
	60	533	583	633	680	728	772	820	951	1,078	1,196

Minimum operating pressure = 7 psi

GritX™ PC 20 mm Dripline - 0.26 gph

Max. Lateral Length (feet)

GritX™ PC - 20 mm - 0.26 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	798	843	884	922	958	987	1,018	1,092	1,148	1,196
	25	945	1,003	1,058	1,108	1,155	1,199	1,238	1,344	1,432	1,504
	30	1,065	1,135	1,201	1,262	1,317	1,372	1,423	1,554	1,666	1,764
	35	1,167	1,247	1,322	1,392	1,458	1,519	1,578	1,734	1,869	1,988
	40	1,259	1,347	1,430	1,508	1,582	1,650	1,718	1,896	2,051	2,188
	45	1,340	1,435	1,525	1,610	1,692	1,769	1,840	2,040	2,212	2,364
	50	1,413	1,517	1,613	1,706	1,792	1,876	1,953	2,169	2,359	2,528
	55	1,482	1,592	1,694	1,792	1,885	1,974	2,058	2,289	2,496	2,680
	60	1,545	1,660	1,769	1,872	1,972	2,065	2,155	2,403	2,622	2,820
Flat	20	1,043	1,130	1,214	1,294	1,374	1,449	1,525	1,737	1,936	2,128
	25	1,170	1,268	1,362	1,454	1,543	1,629	1,713	1,953	2,177	2,388
	30	1,275	1,383	1,485	1,586	1,681	1,776	1,868	2,130	2,377	2,608
	35	1,368	1,482	1,593	1,700	1,805	1,906	2,005	2,286	2,552	2,800
	40	1,449	1,570	1,689	1,802	1,913	2,021	2,125	2,424	2,706	2,972
	45	1,523	1,652	1,775	1,894	2,011	2,123	2,235	2,550	2,846	3,124
	50	1,590	1,725	1,854	1,980	2,102	2,219	2,335	2,664	2,975	3,268
	55	1,653	1,793	1,929	2,058	2,184	2,308	2,428	2,772	3,094	3,396
	60	1,713	1,857	1,997	2,132	2,264	2,392	2,515	2,871	3,206	3,520
Downhill 2%	20	1,301	1,432	1,564	1,692	1,822	1,951	2,078	2,457	2,832	3,204
	25	1,404	1,543	1,681	1,816	1,952	2,086	2,218	2,610	2,996	3,380
	30	1,493	1,638	1,782	1,924	2,065	2,203	2,340	2,745	3,143	3,536
	35	1,572	1,723	1,874	2,020	2,165	2,308	2,450	2,868	3,276	3,676
	40	1,644	1,802	1,954	2,106	2,256	2,403	2,550	2,979	3,399	3,808
	45	1,710	1,872	2,031	2,186	2,340	2,492	2,643	3,084	3,511	3,932
	50	1,772	1,938	2,101	2,262	2,420	2,576	2,728	3,180	3,616	4,044
	55	1,821	2,000	2,167	2,332	2,494	2,653	2,810	3,270	3,717	4,152
	60	1,821	2,023	2,226	2,396	2,563	2,725	2,885	3,357	3,812	4,256

Minimum operating pressure = 7 psi

GritX™ PC 20 mm Dripline - 0.31 gph

Max. Lateral Length (feet)

GritX™ PC - 20 mm - 0.31 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	734	778	818	856	891	922	950	1,026	1,089	1,140
	25	864	920	972	1,020	1,066	1,108	1,148	1,251	1,341	1,416
	30	969	1,035	1,098	1,156	1,209	1,260	1,310	1,440	1,551	1,644
	35	1,061	1,135	1,205	1,270	1,333	1,391	1,448	1,599	1,729	1,844
	40	1,140	1,222	1,300	1,372	1,441	1,507	1,570	1,740	1,890	2,020
	45	1,212	1,302	1,384	1,464	1,541	1,610	1,680	1,866	2,034	2,180
	50	1,278	1,373	1,463	1,548	1,629	1,706	1,780	1,983	2,163	2,324
	55	1,338	1,438	1,535	1,624	1,712	1,792	1,873	2,088	2,282	2,460
	60	1,395	1,500	1,601	1,696	1,788	1,874	1,958	2,187	2,394	2,584
Flat	20	930	1,008	1,084	1,156	1,226	1,295	1,360	1,551	1,729	1,900
	25	1,044	1,132	1,216	1,298	1,376	1,454	1,528	1,743	1,943	2,136
	30	1,139	1,233	1,326	1,416	1,502	1,587	1,668	1,902	2,121	2,332
	35	1,220	1,323	1,421	1,518	1,610	1,701	1,790	2,040	2,279	2,500
	40	1,293	1,402	1,507	1,608	1,707	1,804	1,898	2,163	2,415	2,652
	45	1,359	1,473	1,584	1,692	1,794	1,897	1,995	2,277	2,541	2,792
	50	1,419	1,538	1,656	1,766	1,876	1,981	2,085	2,379	2,657	2,916
	55	1,476	1,600	1,720	1,838	1,950	2,060	2,168	2,475	2,762	3,036
	60	1,527	1,657	1,782	1,902	2,019	2,135	2,245	2,562	2,863	3,144
Downhill 2%	20	1,136	1,248	1,362	1,474	1,584	1,694	1,803	2,127	2,447	2,764
	25	1,230	1,350	1,469	1,586	1,703	1,818	1,933	2,268	2,601	2,924
	30	1,311	1,438	1,562	1,684	1,805	1,925	2,045	2,394	2,734	3,072
	35	1,383	1,515	1,645	1,772	1,898	2,021	2,145	2,505	2,856	3,200
	40	1,449	1,585	1,720	1,852	1,980	2,109	2,235	2,607	2,968	3,324
	45	1,508	1,648	1,788	1,924	2,058	2,189	2,320	2,703	3,073	3,432
	50	1,563	1,708	1,852	1,992	2,130	2,266	2,398	2,790	3,168	3,540
	55	1,614	1,763	1,910	2,054	2,195	2,336	2,473	2,871	3,259	3,636
	60	1,662	1,817	1,967	2,114	2,258	2,401	2,540	2,949	3,346	3,728

Minimum operating pressure = 7 psi

GritX™ PC 20 mm Dripline - 0.42 gph

Max. Lateral Length (feet)

GritX™ PC - 20 mm - 0.42 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	630	672	710	744	778	807	835	912	977	1,028
	25	735	785	832	878	919	959	995	1,095	1,183	1,256
	30	821	878	933	986	1,036	1,083	1,125	1,248	1,351	1,444
	35	894	958	1,021	1,080	1,135	1,188	1,238	1,377	1,498	1,608
	40	959	1,030	1,098	1,162	1,222	1,281	1,338	1,491	1,628	1,748
	45	1,017	1,093	1,166	1,236	1,302	1,365	1,425	1,593	1,743	1,880
	50	1,070	1,152	1,228	1,304	1,374	1,442	1,508	1,686	1,848	1,996
	55	1,119	1,205	1,287	1,366	1,441	1,512	1,580	1,773	1,946	2,104
	60	1,164	1,255	1,342	1,424	1,502	1,577	1,650	1,854	2,037	2,204
Flat	20	764	828	889	950	1,008	1,064	1,118	1,275	1,421	1,564
	25	857	930	999	1,066	1,131	1,195	1,258	1,434	1,600	1,756
	30	935	1,013	1,089	1,162	1,235	1,304	1,370	1,563	1,747	1,916
	35	1,002	1,087	1,168	1,246	1,324	1,398	1,470	1,677	1,873	2,056
	40	1,062	1,152	1,238	1,322	1,404	1,482	1,560	1,779	1,988	2,184
	45	1,116	1,210	1,302	1,390	1,476	1,559	1,640	1,872	2,090	2,296
	50	1,166	1,263	1,360	1,452	1,541	1,629	1,713	1,956	2,184	2,400
	55	1,212	1,315	1,414	1,510	1,603	1,694	1,783	2,034	2,272	2,496
	60	1,254	1,362	1,463	1,564	1,660	1,755	1,845	2,109	2,356	2,588
Downhill 2%	20	903	992	1,078	1,164	1,250	1,335	1,418	1,665	1,911	2,148
	25	983	1,077	1,170	1,262	1,352	1,442	1,530	1,788	2,044	2,292
	30	1,052	1,152	1,249	1,344	1,439	1,533	1,625	1,896	2,160	2,420
	35	1,112	1,217	1,318	1,418	1,517	1,615	1,710	1,992	2,265	2,532
	40	1,167	1,275	1,381	1,486	1,588	1,689	1,788	2,079	2,363	2,636
	45	1,217	1,328	1,439	1,546	1,653	1,757	1,860	2,160	2,450	2,732
	50	1,262	1,378	1,492	1,604	1,712	1,820	1,925	2,235	2,531	2,820
	55	1,305	1,425	1,542	1,656	1,768	1,878	1,988	2,304	2,608	2,904
	60	1,346	1,468	1,588	1,706	1,820	1,934	2,045	2,370	2,681	2,984

Minimum operating pressure = 7 psi

GritX™ PC 20 mm Dripline - 0.53 gph

Max. Lateral Length (feet)

GritX™ PC - 20 mm - 0.53 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	558	595	631	664	696	723	750	825	889	940
	25	647	692	735	776	815	852	888	981	1,064	1,136
	30	719	772	821	868	914	957	998	1,110	1,208	1,296
	35	782	840	895	948	999	1,048	1,093	1,218	1,334	1,436
	40	837	900	961	1,018	1,073	1,127	1,178	1,317	1,442	1,556
	45	887	955	1,019	1,082	1,140	1,197	1,253	1,404	1,540	1,664
	50	932	1,003	1,073	1,138	1,203	1,262	1,320	1,482	1,631	1,764
	55	974	1,050	1,122	1,192	1,259	1,323	1,385	1,557	1,712	1,856
	60	1,013	1,092	1,168	1,242	1,311	1,379	1,443	1,626	1,789	1,944
Flat	20	657	712	766	816	867	915	963	1,098	1,225	1,344
	25	737	798	860	918	973	1,029	1,080	1,233	1,376	1,512
	30	804	872	937	1,000	1,062	1,122	1,180	1,347	1,502	1,652
	35	861	935	1,005	1,072	1,140	1,204	1,265	1,446	1,614	1,772
	40	914	990	1,065	1,138	1,207	1,276	1,343	1,533	1,712	1,880
	45	960	1,040	1,120	1,196	1,270	1,342	1,410	1,611	1,799	1,976
	50	1,002	1,087	1,170	1,248	1,326	1,402	1,475	1,683	1,880	2,068
	55	1,041	1,130	1,216	1,298	1,378	1,456	1,533	1,752	1,957	2,148
	60	1,079	1,170	1,260	1,346	1,428	1,510	1,588	1,815	2,027	2,228
Downhill 2%	20	759	833	906	976	1,047	1,115	1,185	1,389	1,586	1,780
	25	830	908	986	1,062	1,138	1,211	1,283	1,497	1,708	1,912
	30	890	973	1,054	1,136	1,213	1,293	1,368	1,593	1,810	2,024
	35	944	1,030	1,117	1,200	1,283	1,363	1,443	1,677	1,904	2,124
	40	990	1,082	1,172	1,258	1,343	1,428	1,513	1,755	1,988	2,216
	45	1,034	1,128	1,221	1,312	1,400	1,489	1,573	1,824	2,065	2,300
	50	1,074	1,172	1,267	1,360	1,452	1,542	1,633	1,890	2,139	2,376
	55	1,112	1,212	1,311	1,408	1,502	1,594	1,685	1,950	2,205	2,452
	60	1,146	1,250	1,351	1,450	1,547	1,643	1,735	2,007	2,268	2,520

Minimum operating pressure = 7 psi

GritX™ PC 20 mm Dripline - 0.61 gph

Max. Lateral Length (feet)

GritX™ PC - 20 mm - 0.61 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	516	552	587	618	648	674	703	774	837	888
	25	597	640	682	720	756	791	825	915	994	1,064
	30	663	712	759	804	845	887	925	1,032	1,127	1,212
	35	720	775	827	876	923	968	1,010	1,131	1,239	1,336
	40	770	828	886	938	990	1,041	1,088	1,218	1,337	1,448
	45	815	878	939	996	1,051	1,104	1,155	1,299	1,428	1,544
	50	855	923	986	1,048	1,107	1,164	1,218	1,371	1,509	1,636
	55	894	965	1,032	1,096	1,159	1,218	1,275	1,437	1,582	1,720
	60	929	1,003	1,074	1,142	1,207	1,269	1,330	1,500	1,652	1,796
Flat	20	600	650	699	746	791	835	880	1,002	1,120	1,228
	25	674	730	785	838	888	938	988	1,128	1,257	1,380
	30	734	795	856	914	971	1,024	1,078	1,230	1,372	1,508
	35	786	853	917	980	1,040	1,099	1,155	1,320	1,474	1,620
	40	833	903	972	1,038	1,103	1,164	1,225	1,398	1,561	1,716
	45	876	950	1,021	1,092	1,159	1,225	1,288	1,470	1,642	1,804
	50	915	992	1,067	1,140	1,211	1,279	1,348	1,539	1,719	1,888
	55	951	1,032	1,109	1,186	1,259	1,330	1,400	1,599	1,785	1,964
	60	984	1,068	1,150	1,228	1,304	1,379	1,450	1,656	1,852	2,036
Downhill 2%	20	686	750	816	878	940	1,003	1,065	1,245	1,421	1,592
	25	750	820	889	958	1,025	1,092	1,155	1,347	1,533	1,716
	30	806	880	953	1,026	1,096	1,167	1,235	1,434	1,631	1,820
	35	854	933	1,010	1,086	1,159	1,232	1,305	1,512	1,715	1,912
	40	897	980	1,060	1,140	1,216	1,293	1,368	1,584	1,796	1,996
	45	938	1,023	1,107	1,188	1,268	1,346	1,425	1,650	1,866	2,076
	50	975	1,063	1,150	1,234	1,317	1,398	1,478	1,710	1,932	2,148
	55	1,008	1,100	1,190	1,276	1,361	1,444	1,528	1,764	1,995	2,216
	60	1,041	1,135	1,227	1,316	1,404	1,489	1,573	1,818	2,055	2,280

Minimum operating pressure = 7 psi

GritX™ PC 20 mm Dripline - 0.93 gph

Max. Lateral Length (feet)

GritX™ PC - 20 mm - 0.93 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	408	438	466	492	518	541	565	627	686	736
	25	468	503	537	568	600	628	658	735	805	868
	30	518	557	594	632	665	700	733	822	900	976
	35	560	603	645	684	724	761	795	894	984	1,068
	40	597	643	689	732	774	814	853	960	1,061	1,148
	45	630	680	730	776	819	863	903	1,020	1,127	1,224
	50	662	715	766	814	862	908	950	1,074	1,187	1,292
	55	690	745	799	850	899	947	993	1,125	1,243	1,352
	60	717	775	831	884	936	985	1,035	1,170	1,295	1,412
Flat	20	456	495	532	568	602	637	670	765	854	936
	25	512	555	596	638	676	714	753	858	959	1,052
	30	558	605	651	696	739	779	820	936	1,047	1,148
	35	599	648	699	746	791	835	880	1,005	1,124	1,232
	40	633	687	739	790	839	887	933	1,065	1,190	1,308
	45	666	723	777	830	882	933	980	1,122	1,253	1,376
	50	696	755	812	868	921	975	1,025	1,173	1,309	1,440
	55	723	785	845	902	958	1,013	1,065	1,218	1,362	1,496
	60	749	813	875	934	992	1,050	1,105	1,263	1,411	1,552
Downhill 2%	20	506	553	600	644	689	733	778	903	1,029	1,148
	25	557	608	658	708	756	803	850	987	1,117	1,248
	30	600	655	708	760	813	861	913	1,056	1,194	1,332
	35	638	695	752	806	860	915	965	1,119	1,264	1,404
	40	671	732	790	848	906	961	1,015	1,173	1,327	1,472
	45	702	765	827	886	945	1,003	1,060	1,224	1,383	1,532
	50	731	795	860	922	984	1,043	1,100	1,272	1,435	1,588
	55	756	823	891	954	1,018	1,080	1,140	1,314	1,481	1,644
	60	782	852	919	986	1,051	1,113	1,175	1,356	1,530	1,692

Minimum operating pressure = 7 psi

GritX™ PC 20 mm Dripline - 1.06 gph

Max. Lateral Length (feet)

GritX™ PC - 20 mm - 1.06 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	378	407	433	458	481	504	528	588	641	688
	25	432	467	497	528	557	583	610	684	749	808
	30	477	515	550	584	618	649	678	762	840	908
	35	516	557	596	634	670	705	738	831	917	992
	40	551	595	636	678	715	754	790	891	984	1,068
	45	582	628	673	716	758	798	835	945	1,043	1,136
	50	611	660	706	752	795	838	880	993	1,099	1,196
	55	636	688	737	786	832	875	918	1,041	1,152	1,256
	60	660	715	766	816	865	910	955	1,083	1,201	1,308
Flat	20	419	455	488	522	553	586	615	702	784	860
	25	470	510	548	586	622	656	690	789	882	968
	30	513	557	598	638	678	716	755	861	963	1,056
	35	549	597	642	684	728	768	808	924	1,033	1,132
	40	582	632	680	726	771	814	858	981	1,096	1,204
	45	612	663	715	764	810	856	903	1,029	1,152	1,264
	50	639	693	746	798	847	896	943	1,077	1,204	1,324
	55	665	720	776	828	880	931	980	1,119	1,253	1,376
	60	687	747	803	858	912	964	1,015	1,161	1,295	1,424
Downhill 2%	20	461	503	545	586	626	667	705	822	931	1,040
	25	507	555	600	644	689	730	773	897	1,015	1,132
	30	548	597	645	694	741	786	830	963	1,089	1,208
	35	582	635	686	736	787	833	880	1,020	1,152	1,280
	40	614	668	722	776	828	877	928	1,071	1,208	1,340
	45	642	700	755	810	865	917	968	1,116	1,260	1,396
	50	668	728	787	842	899	952	1,005	1,161	1,309	1,452
	55	692	753	814	874	930	987	1,043	1,200	1,355	1,500
	60	716	778	842	902	960	1,017	1,075	1,239	1,397	1,544

Minimum operating pressure = 7 psi

GritX™ DSV PC 16 mm Dripline - 0.46 gph

Max. Lateral Length (feet)

GritX™ DSV - 16 mm - 0.46 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	269	287	303	318	334	345	360	393	420	444
	25	359	385	411	436	457	481	500	555	606	648
	30	422	455	486	516	544	572	598	672	735	792
	35	471	510	546	580	613	646	675	762	837	908
	40	515	555	596	634	672	707	743	837	924	1,004
	45	551	597	640	682	722	761	800	903	1,001	1,088
	50	585	633	680	726	769	810	850	963	1,068	1,164
	55	615	667	717	764	810	854	898	1,020	1,131	1,232
	60	644	698	750	800	849	896	943	1,071	1,190	1,300
Flat	20	327	355	383	410	436	462	485	558	623	688
	25	408	443	479	512	546	579	610	699	784	864
	30	467	507	548	586	624	660	698	801	896	988
	35	513	558	603	646	687	728	768	882	987	1,092
	40	552	602	649	696	741	784	828	951	1,068	1,176
	45	588	640	691	740	789	835	883	1,014	1,138	1,252
	50	620	675	730	782	832	882	930	1,068	1,201	1,324
	55	650	707	765	818	871	924	975	1,119	1,257	1,388
	60	677	737	796	854	910	964	1,015	1,167	1,313	1,448
Downhill 2%	20	389	430	469	510	550	590	628	747	865	980
	25	461	507	552	598	641	686	730	858	987	1,112
	30	513	563	614	662	711	758	805	945	1,082	1,216
	35	557	612	664	716	769	819	870	1,017	1,162	1,304
	40	594	652	708	764	817	873	925	1,080	1,232	1,380
	45	627	688	746	806	862	919	975	1,137	1,295	1,448
	50	659	722	783	844	904	961	1,020	1,188	1,351	1,512
	55	686	752	816	878	940	1,001	1,060	1,236	1,404	1,568
	60	713	780	847	912	975	1,038	1,100	1,281	1,456	1,624

Minimum operating pressure = 15 psi

GritX™ DSV PC 18 mm Dripline - 0.46 gph

Max. Lateral Length (feet)

GritX™ DSV - 18 mm - 0.46 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	333	352	370	386	401	413	425	459	483	504
	25	458	488	517	544	570	595	618	678	728	772
	30	545	583	620	656	689	719	750	831	903	964
	35	612	658	702	742	782	819	855	951	1,040	1,116
	40	671	722	770	816	860	903	943	1,056	1,155	1,244
	45	722	777	831	882	930	975	1,020	1,146	1,257	1,360
	50	767	827	886	940	992	1,043	1,090	1,227	1,348	1,460
	55	809	873	935	992	1,049	1,104	1,155	1,299	1,432	1,552
	60	848	915	981	1,042	1,103	1,160	1,215	1,368	1,509	1,640
Flat	20	435	472	508	542	576	609	640	729	816	896
	25	545	592	636	680	722	763	803	915	1,022	1,124
	30	623	677	728	778	826	873	918	1,050	1,173	1,288
	35	686	745	801	856	910	961	1,013	1,158	1,292	1,420
	40	740	803	865	924	982	1,038	1,093	1,248	1,397	1,536
	45	788	855	920	984	1,044	1,106	1,163	1,329	1,488	1,636
	50	831	902	972	1,038	1,103	1,167	1,228	1,404	1,572	1,728
	55	870	945	1,018	1,088	1,157	1,223	1,288	1,473	1,645	1,812
	60	908	985	1,062	1,134	1,205	1,274	1,343	1,536	1,719	1,888
Downhill 2%	20	549	607	664	720	778	833	890	1,062	1,232	1,404
	25	641	705	768	830	893	954	1,015	1,200	1,383	1,564
	30	710	778	847	914	982	1,048	1,113	1,308	1,502	1,692
	35	767	840	913	984	1,055	1,125	1,195	1,398	1,600	1,800
	40	816	893	970	1,046	1,120	1,192	1,265	1,479	1,687	1,896
	45	860	942	1,021	1,100	1,177	1,253	1,330	1,551	1,768	1,980
	50	900	985	1,069	1,150	1,231	1,309	1,388	1,617	1,841	2,060
	55	938	1,025	1,111	1,196	1,278	1,360	1,443	1,677	1,908	2,136
	60	974	1,063	1,153	1,240	1,326	1,409	1,493	1,737	1,974	2,204

Minimum operating pressure = 15 psi

GritX™ DSV PC 20 mm Dripline - 0.46 gph

Max. Lateral Length (feet)

GritX™ DSV - 20 mm - 0.46 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	392	412	427	442	455	469	480	507	525	544
	25	557	590	620	648	674	698	720	780	830	868
	30	671	713	754	792	826	859	890	975	1,047	1,108
	35	761	812	860	906	947	987	1,028	1,131	1,222	1,304
	40	837	895	950	1,002	1,051	1,097	1,140	1,263	1,369	1,464
	45	905	968	1,029	1,086	1,140	1,192	1,240	1,377	1,498	1,608
	50	965	1,033	1,098	1,162	1,220	1,276	1,330	1,482	1,617	1,736
	55	1,020	1,093	1,164	1,230	1,294	1,356	1,413	1,575	1,722	1,856
	60	1,071	1,150	1,225	1,294	1,363	1,428	1,490	1,665	1,820	1,964
Flat	20	557	602	644	686	726	763	803	909	1,012	1,108
	25	698	753	809	860	910	959	1,008	1,143	1,271	1,392
	30	800	863	926	986	1,042	1,099	1,155	1,311	1,456	1,596
	35	881	952	1,021	1,086	1,151	1,213	1,273	1,446	1,607	1,760
	40	951	1,028	1,102	1,172	1,242	1,309	1,375	1,563	1,736	1,904
	45	1,013	1,095	1,173	1,250	1,324	1,395	1,465	1,665	1,852	2,028
	50	1,068	1,155	1,239	1,318	1,398	1,472	1,548	1,758	1,957	2,144
	55	1,121	1,212	1,298	1,384	1,465	1,545	1,623	1,842	2,051	2,248
	60	1,169	1,263	1,355	1,442	1,528	1,612	1,693	1,923	2,142	2,344
Downhill 2%	20	746	823	898	976	1,053	1,129	1,205	1,437	1,673	1,912
	25	858	943	1,027	1,108	1,192	1,272	1,355	1,599	1,845	2,096
	30	945	1,035	1,124	1,212	1,300	1,386	1,473	1,728	1,985	2,244
	35	1,017	1,112	1,206	1,298	1,391	1,482	1,570	1,839	2,107	2,372
	40	1,080	1,180	1,278	1,374	1,469	1,566	1,658	1,938	2,212	2,488
	45	1,137	1,240	1,342	1,442	1,543	1,640	1,738	2,025	2,310	2,592
	50	1,188	1,295	1,401	1,506	1,608	1,710	1,810	2,106	2,398	2,688
	55	1,236	1,347	1,456	1,564	1,668	1,773	1,878	2,181	2,482	2,776
	60	1,281	1,395	1,507	1,618	1,727	1,834	1,940	2,253	2,559	2,860

Minimum operating pressure = 15 psi

GritX™ SDI PC 16 mm Dripline - 0.46 gph

Max. Lateral Length (feet)

GritX™ SDI - 16 mm - 0.46 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	269	287	303	318	334	345	360	393	420	444
	25	359	385	411	436	457	481	500	555	606	648
	30	422	455	486	516	544	572	598	672	735	792
	35	471	510	546	580	613	646	675	762	837	908
	40	515	555	596	634	672	707	743	837	924	1,004
	45	551	597	640	682	722	761	800	903	1,001	1,088
	50	585	633	680	726	769	810	850	963	1,068	1,164
	55	615	667	717	764	810	854	898	1,020	1,131	1,232
	60	644	698	750	800	849	896	943	1,071	1,190	1,300
Flat	20	327	355	383	410	436	462	485	558	623	688
	25	408	443	479	512	546	579	610	699	784	864
	30	467	507	548	586	624	660	698	801	896	988
	35	513	558	603	646	687	728	768	882	987	1,092
	40	552	602	649	696	741	784	828	951	1,068	1,176
	45	588	640	691	740	789	835	883	1,014	1,138	1,252
	50	620	675	730	782	832	882	930	1,068	1,201	1,324
	55	650	707	765	818	871	924	975	1,119	1,257	1,388
	60	677	737	796	854	910	964	1,015	1,167	1,313	1,448
Downhill 2%	20	389	430	469	510	550	590	628	747	865	980
	25	461	507	552	598	641	686	730	858	987	1,112
	30	513	563	614	662	711	758	805	945	1,082	1,216
	35	557	612	664	716	769	819	870	1,017	1,162	1,304
	40	594	652	708	764	817	873	925	1,080	1,232	1,380
	45	627	688	746	806	862	919	975	1,137	1,295	1,448
	50	659	722	783	844	904	961	1,020	1,188	1,351	1,512
	55	686	752	816	878	940	1,001	1,060	1,236	1,404	1,568
	60	713	780	847	912	975	1,038	1,100	1,281	1,456	1,624

Minimum operating pressure = 15 psi

GritX™ SDI PC 18 mm Dripline - 0.46 gph

Max. Lateral Length (feet)

GritX™ SDI - 18 mm - 0.46 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	333	352	370	386	401	413	425	459	483	504
	25	458	488	517	544	570	595	618	678	728	772
	30	545	583	620	656	689	719	750	831	903	964
	35	612	658	702	742	782	819	855	951	1,040	1,116
	40	671	722	770	816	860	903	943	1,056	1,155	1,244
	45	722	777	831	882	930	975	1,020	1,146	1,257	1,360
	50	767	827	886	940	992	1,043	1,090	1,227	1,348	1,460
	55	809	873	935	992	1,049	1,104	1,155	1,299	1,432	1,552
	60	848	915	981	1,042	1,103	1,160	1,215	1,368	1,509	1,640
Flat	20	435	472	508	542	576	609	640	729	816	896
	25	545	592	636	680	722	763	803	915	1,022	1,124
	30	623	677	728	778	826	873	918	1,050	1,173	1,288
	35	686	745	801	856	910	961	1,013	1,158	1,292	1,420
	40	740	803	865	924	982	1,038	1,093	1,248	1,397	1,536
	45	788	855	920	984	1,044	1,106	1,163	1,329	1,488	1,636
	50	831	902	972	1,038	1,103	1,167	1,228	1,404	1,572	1,728
	55	870	945	1,018	1,088	1,157	1,223	1,288	1,473	1,645	1,812
	60	908	985	1,062	1,134	1,205	1,274	1,343	1,536	1,719	1,888
Downhill 2%	20	549	607	664	720	778	833	890	1,062	1,232	1,404
	25	641	705	768	830	893	954	1,015	1,200	1,383	1,564
	30	710	778	847	914	982	1,048	1,113	1,308	1,502	1,692
	35	767	840	913	984	1,055	1,125	1,195	1,398	1,600	1,800
	40	816	893	970	1,046	1,120	1,192	1,265	1,479	1,687	1,896
	45	860	942	1,021	1,100	1,177	1,253	1,330	1,551	1,768	1,980
	50	900	985	1,069	1,150	1,231	1,309	1,388	1,617	1,841	2,060
	55	938	1,025	1,111	1,196	1,278	1,360	1,443	1,677	1,908	2,136
	60	974	1,063	1,153	1,240	1,326	1,409	1,493	1,737	1,974	2,204

Minimum operating pressure = 15 psi

GritX™ SDI PC 20 mm Dripline - 0.46 gph

Max. Lateral Length (feet)

GritX™ SDI - 20 mm - 0.46 gph

		Emitter Spacing (inches)									
Uphill 2%	Inlet Pressure (psi)	18	20	22	24	26	28	30	36	42	48
	20	392	412	427	442	455	469	480	507	525	544
	25	557	590	620	648	674	698	720	780	830	868
	30	671	713	754	792	826	859	890	975	1,047	1,108
	35	761	812	860	906	947	987	1,028	1,131	1,222	1,304
	40	837	895	950	1,002	1,051	1,097	1,140	1,263	1,369	1,464
	45	905	968	1,029	1,086	1,140	1,192	1,240	1,377	1,498	1,608
	50	965	1,033	1,098	1,162	1,220	1,276	1,330	1,482	1,617	1,736
	55	1,020	1,093	1,164	1,230	1,294	1,356	1,413	1,575	1,722	1,856
	60	1,071	1,150	1,225	1,294	1,363	1,428	1,490	1,665	1,820	1,964
Flat	20	557	602	644	686	726	763	803	909	1,012	1,108
	25	698	753	809	860	910	959	1,008	1,143	1,271	1,392
	30	800	863	926	986	1,042	1,099	1,155	1,311	1,456	1,596
	35	881	952	1,021	1,086	1,151	1,213	1,273	1,446	1,607	1,760
	40	951	1,028	1,102	1,172	1,242	1,309	1,375	1,563	1,736	1,904
	45	1,013	1,095	1,173	1,250	1,324	1,395	1,465	1,665	1,852	2,028
	50	1,068	1,155	1,239	1,318	1,398	1,472	1,548	1,758	1,957	2,144
	55	1,121	1,212	1,298	1,384	1,465	1,545	1,623	1,842	2,051	2,248
	60	1,169	1,263	1,355	1,442	1,528	1,612	1,693	1,923	2,142	2,344
Downhill 2%	20	746	823	898	976	1,053	1,129	1,205	1,437	1,673	1,912
	25	858	943	1,027	1,108	1,192	1,272	1,355	1,599	1,845	2,096
	30	945	1,035	1,124	1,212	1,300	1,386	1,473	1,728	1,985	2,244
	35	1,017	1,112	1,206	1,298	1,391	1,482	1,570	1,839	2,107	2,372
	40	1,080	1,180	1,278	1,374	1,469	1,566	1,658	1,938	2,212	2,488
	45	1,137	1,240	1,342	1,442	1,543	1,640	1,738	2,025	2,310	2,592
	50	1,188	1,295	1,401	1,506	1,608	1,710	1,810	2,106	2,398	2,688
	55	1,236	1,347	1,456	1,564	1,668	1,773	1,878	2,181	2,482	2,776
	60	1,281	1,395	1,507	1,618	1,727	1,834	1,940	2,253	2,559	2,860

Minimum operating pressure = 15 psi

Micro Sprinklers

Micro Bird® Jet 49

Accessories 52



A photograph of an orchard with rows of trees. In the foreground, a Rain Bird Micro Bird Jet irrigation system is shown. It consists of a black plastic riser pipe with a blue and black snap-fit nozzle at the top. A black flexible hose is connected to the side of the riser pipe and loops around its base. In the background, another similar system is visible, spraying water onto the ground between the trees.

BUILT TO LAST. DESIGNED TO GROW.

The new Micro Bird® Jet from Rain Bird is a simple and dependable irrigation solution. Featuring interchangeable snap-fit nozzles and deflectors, the system is built to grow with your orchard. No tools needed. Its rugged construction matched with the flexibility of different spray patterns makes Micro Bird Jet the easy choice for any operation.

MICRO BIRD® JET

TECHNICAL SPECIFICATIONS



Use water, chemicals, and energy more efficiently with Micro Bird Jet. Its rugged construction matched with the flexibility of different spray patterns makes Micro Bird the smart choice for dependable irrigation. Featuring our signature Snap-Fit Assembly and exclusive reversible deflectors, this system is easy to maintain and built to grow with your operation — no tools necessary.



No Tools Required
Snap-Fit Assembly

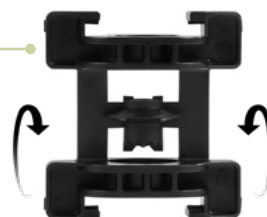
FEATURES

- Reversible, dual-pattern deflector can be flipped to adjust wetted area dependent on crop maturation
- Snap-fit nozzles and deflectors for convenient assembly, disassembly, and cleaning without tools
- Large, color-coded parts make installation and maintenance easy
- Ultraviolet (UV) stabilized resin resists damage from sun and chemicals
- Large stakes provide optimal stability and height
- Order pre assembled from the factory or as individual components for field customization

MICRO BIRD® JET DESIGN

Dual-Pattern Deflector

Designed to grow with your crop



Nozzle



Stake Head



5 mm Tubing Barb

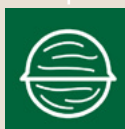
¼" Tubing Barb

OPERATING RANGE

Pressure	10–30 psi	0.7–2.1 bar
Flow Rate	3.7–37.5 g/h	14–142 l/h
Throw Distance	3–33 ft	0.9–10.1 m

APPLICATIONS

ORCHARDS



Walnuts



Pecans



Almonds



Bananas



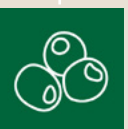
Citrus



Avocados



Stonefruit

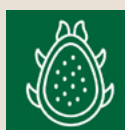


Olives

TRELLIS



Blueberries



Dragon Fruit

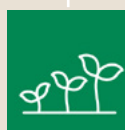
LOCATIONS



Agriculture

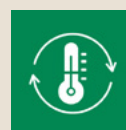


Greenhouse



Nursery

USEFUL FOR



Climate Control

PERFORMANCE DATA (in feet)															
Filtration	Nozzle	Pressure (psi)	Flow Rate (gph)	A		B		C	D	E	F		G		M
															
				360° Star Bird™		Butterfly		120° Fan Spray	360° 24 Stream	Establishing Down Spray	Notched Star Bird™		Rectangular		Fill In
				Diameter		Length	Width	Approx. Radius	Approx. Diameter	Approx. Diameter	Diameter		Length	Width	Diameter
				Short Stream	Long Stream						Short Stream	Long Stream			
150-MESH FILTRATION RECOMMENDED	 MBJ05 .026" (0.66 mm) Yellow	10	3.7	8.5	11.5	9	8	4.5	10.5	3	8.5	11.5	11	7	10
		15	4.5	9.5	13.5	10.5	10	5	11.5	3	9.5	13.5	13	8	11.5
		20	5	11	14.5	12	11	5.5	12.5	3	11	14.5	14.5	9	12.5
		25	5.9	11.5	15	12.5	11.5	5.5	13	3	11.5	15	15	9.5	13.5
		30	6.5	12	15.5	13	12	5.5	13.5	3	12	15.5	16.5	10	14
	 MBJ08 .033" (0.84 mm) Orange	10	5.5	9.5	14.5	9	9	4.5	13	3	9.5	14.5	13	7.5	11.5
		15	7	11	15.5	12	11	5	14	3	11	15.5	15.5	9	13.5
		20	8	14	17	14	13	5	15	3	14	17	17	10	15.5
		25	9	15	17.5	15	14	5.5	16	3	15	17.5	18	10.5	16
		30	10	16	18	16	15	6	17	3	16	18	19	11	17
	 MBJ12 .04" (1.02 mm) Blue	10	8.5	12	17.5	13	10	5	14	3	12	17.5	15	9	15
		15	10.5	14.5	19.5	17	12	5.5	15	3	14.5	19.5	18	11	17.5
		20	12	16	22	19	15	6.5	17	3	16	22	20	11.5	19
		25	13.5	17	23	20	15.5	7.5	18	3	18	23	21.5	12	20
		30	15	18	24.5	21	16.5	8	19.5	3	19	24.5	23	13	21
	 MBJ14 .044" (1.12 mm) Violet	10	9.7	15	20	16.5	12.5	5	14	3	13	18	16	10	14
		15	12	17.5	22.5	20	15	6	15.5	3	15	21	19	12	17
		20	14	19	25	21	16	7	18	3	19	25	21	13	19
		25	15.5	20	25.5	21.5	16.5	7.5	20	3	20	25.5	22.5	14	20
		30	17.2	21	26	23	17.5	8	21	3	21	26	24	15	21
100-MESH FILTRATION RECOMMENDED	 MBJ17 .049" (1.24 mm) Green	10	12.5	15	21	17	10	5.5	15.5	3	14	20	15	10	17
		15	15	18	24	19.5	12	5.5	17	3	17	22.5	18.5	12	20
		20	17	20	27	21	13.5	6	19	3	20	26.5	22	14	23
		25	19.5	22	28	23.5	15.5	6.5	19	3	21	27	23	15	25
		30	22	23	29	25	16.5	7	20	3	22	28	24	15	25.5
	 MBJ24 .058" (1.47 mm) Red	10	17	14.5	22	19	10	6.5	17.5	3	14.5	22	20	13	19
		15	21	18.5	26.5	23	12	7	20.5	3	18.5	26.5	23	15	22
		20	24	22	31	24	15	7.5	23	3	22	31	26	17	25
		25	27	23	32	26	16	7.5	24.5	3	23	32	28	19	27
		30	30	24	33	27	17	8	26.5	3	24	33	29	20	29
	 MBJ30 .067" (1.70 mm) White	10	21	15.5	23	19	11	7.5	19	3	15.5	23	21	14.5	19
		15	26.5	19	28	23	13	8.5	20	3	19	28	26	17	24.5
		20	30	22	31	24	16	9	25	3	22	31	28.5	19.5	28
		25	33.5	24	32	24.5	16	9.5	27	3	24	32	30.5	21.5	30
		30	37.5	25.5	35	25.5	16	9.5	29	3	25.5	35	31	22	33

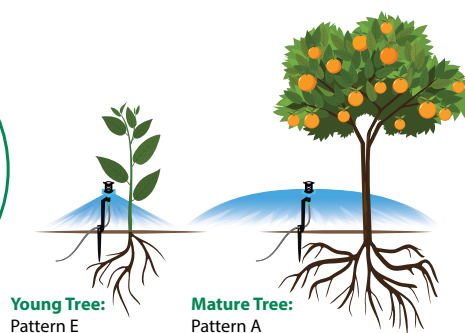
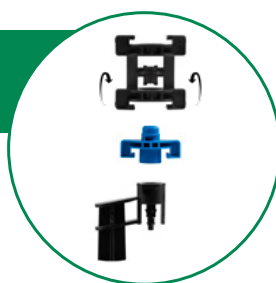
GENERAL NOTE: Performance data is obtained under ideal test conditions and will be affected by wind, hydraulic conditions, and other factors. Measurements taken using an 8" riser.

BOLD GREEN numbers reflect flow rate at nominal, 20 PSI. **Shaded combinations are not recommended.**

Micro Bird® Deflectors are Reversible: Flip for Flexibility

The most popular combination is E-A.
E is for plant establishment and A is for when plants have matured.

Select the deflector combination you want and flip to change the spray pattern. When you place your order, you'll indicate which pattern you'd like to start with pre-installed.



This chart illustrates all Micro Bird Jet deflector patterns with suggestions for installation.

	A	360° Star Bird™ 12 long and short streams provide 360° coverage, allowing water to efficiently reach roots while avoiding tree trunks and navigating around berms.
	C	120° Fan Spray Great for row ends and to help establish young trees or bushes.
	E	Establishing Down Spray This focused down spray helps nurture young trees by keeping water in close to the root zone as it develops.
	G	Rectangular Great for narrow plantings, installed between trees to water inside the row. Stake placement is critical with this pattern to ensure plants are watered while keeping aisles dry and accessible.

	B	Butterfly 4 long streams provide coverage between rows with two notches to ensure water does not collect around the tree trunk.
	D	360° 24 Stream 24 streams provide 360° coverage for maximum wetted area.
	F	Notched Star Bird™ 12 long and short streams provide 300° coverage. Stake placement is critical with this notched star pattern, which helps ensure water is focused on the root zone and not the tree trunk.
	M	Fill In 14 even streams provide 360° coverage great for mature trees with large root zones that require even watering.

GENERAL NOTE: Performance data is obtained under ideal conditions and will be affected by wind, hydraulic conditions, and other factors. Images taken after 20 minutes using the Blue 12 GPH nozzle running at 20 PSI in an enclosed space. Measurements taken using an 8" riser.

HOW TO ORDER

MBJ

Core Family

Micro Bird® Jet

AA

Deflector (Down x Up)

AA – A x A Pattern DE – D x E Pattern
AC – A x C Pattern EA – E x A Pattern
AE – A x E Pattern ED – E x D Pattern
BC – B x C Pattern EF – E x F Pattern
BE – B x E Pattern EG – E x G Pattern
DC – D x C Pattern EM – E x M Pattern

08

Nozzle

05 – Yellow, 5 gph / 18.9 l/h
08 – Orange, 8 gph / 30.3 l/h
12 – Blue, 12 gph / 45.4 l/h
14 – Violet, 14 gph / 53.1 l/h
17 – Green, 17 gph / 64.4 l/h
24 – Red, 24 gph / 90.8 l/h
30 – White, 30 gph / 113.6 l/h

036

Lead Length

36 – 36", 91.4 cm
Custom lead lengths available. Call for quote.

X

Barb

X – Do not assemble with transfer barb

Note: You can specify any combination of deflector patterns.

The first letter should indicate which pattern is installed facing down and will run first.

PACKAGING DATA

FACTORY-ASSEMBLED QUANTITIES

 CASE: 75

 PALLET: 1,800

PART QUANTITIES

PART	MINIMUM ORDER	CASE QUANTITY	PALLET QUANTITY
Nozzles	150	2,400	57,600
Deflectors	150	2,400	57,600
Stakes	100	100	2,400
Sprinkler & Stake Assemblies	75	75	1,800

Accessories for Micro Bird® Jet

Stake Assembly



MODEL# MBJ036
or MBJ036X no barb

*Custom lead lengths available.
Call for quote.*

Stake

MODEL# MBJSTAKE



Clip Plugs

MODEL# Q10520MX

Nominal Diameter (Inside): 0.17" (4.3 mm)
Nominal Diameter (Outside): 0.25" (6.3 mm)
Wall Thickness: 0.04" (1 mm)
Maximum Pressure: 60 PSI (4.14 bar)
Packaging: Coil
Length: 1,000 ft (305 m)



Barb

MODEL# MBBARB



MICRO BIRD® JET HEADLOSS

				Length of 1/4" Tube (Feet)														
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Yellow	10	3.7	PSI Loss	0.02	0.03	0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.18	0.20	0.22	0.23
			FT of Loss	0.04	0.07	0.11	0.14	0.18	0.21	0.25	0.28	0.32	0.36	0.39	0.43	0.46	0.50	0.53
	15	4.5	PSI Loss	0.02	0.04	0.07	0.09	0.11	0.13	0.15	0.18	0.20	0.22	0.24	0.27	0.29	0.31	0.33
			FT of Loss	0.05	0.10	0.15	0.20	0.26	0.31	0.36	0.41	0.46	0.51	0.56	0.61	0.66	0.72	0.77
	20	5	PSI Loss	0.03	0.05	0.08	0.11	0.13	0.16	0.19	0.22	0.24	0.27	0.30	0.32	0.35	0.38	0.40
			FT of Loss	0.06	0.12	0.19	0.25	0.31	0.37	0.43	0.50	0.56	0.62	0.68	0.75	0.81	0.87	0.93
	25	5.9	PSI Loss	0.04	0.07	0.11	0.15	0.18	0.22	0.26	0.29	0.33	0.37	0.40	0.44	0.48	0.51	0.55
			FT of Loss	0.08	0.17	0.25	0.34	0.42	0.51	0.59	0.68	0.76	0.84	0.93	1.01	1.10	1.18	1.27
	30	6.5	PSI Loss	0.04	0.09	0.13	0.17	0.22	0.26	0.31	0.35	0.39	0.44	0.48	0.52	0.57	0.61	0.66
			FT of Loss	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01	1.11	1.21	1.31	1.41	1.51
Orange	10	5.5	PSI Loss	0.03	0.06	0.10	0.13	0.16	0.19	0.22	0.26	0.29	0.32	0.35	0.39	0.42	0.45	0.48
			FT of Loss	0.07	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74	0.82	0.89	0.96	1.04	1.11
	15	7	PSI Loss	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75
			FT of Loss	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16	1.27	1.39	1.51	1.62	1.74
	20	8	PSI Loss	0.06	0.13	0.19	0.26	0.32	0.39	0.45	0.51	0.58	0.64	0.71	0.77	0.83	0.90	0.96
			FT of Loss	0.15	0.30	0.45	0.59	0.74	0.89	1.04	1.19	1.34	1.48	1.63	1.78	1.93	2.08	2.23
	25	9	PSI Loss	0.08	0.16	0.24	0.32	0.40	0.48	0.56	0.64	0.72	0.80	0.88	0.96	1.04	1.12	1.20
			FT of Loss	0.18	0.37	0.55	0.74	0.92	1.11	1.29	1.48	1.66	1.85	2.03	2.21	2.40	2.58	2.77
	30	10	PSI Loss	0.10	0.19	0.29	0.39	0.49	0.58	0.68	0.78	0.87	0.97	1.07	1.17	1.26	1.36	1.46
			FT of Loss	0.22	0.45	0.67	0.90	1.12	1.35	1.57	1.79	2.02	2.24	2.47	2.69	2.92	3.14	3.36
Blue	10	8.5	PSI Loss	0.07	0.14	0.22	0.29	0.36	0.43	0.50	0.57	0.65	0.72	0.79	0.86	0.93	1.01	1.08
			FT of Loss	0.17	0.33	0.50	0.66	0.83	1.00	1.16	1.33	1.49	1.66	1.83	1.99	2.16	2.32	2.49
	15	10.5	PSI Loss	0.11	0.21	0.32	0.43	0.53	0.64	0.74	0.85	0.96	1.06	1.17	1.28	1.38	1.49	1.59
			FT of Loss	0.25	0.49	0.74	0.98	1.23	1.47	1.72	1.96	2.21	2.45	2.70	2.95	3.19	3.44	3.68
	20	12	PSI Loss	0.14	0.27	0.41	0.54	0.68	0.82	0.95	1.09	1.22	1.36	1.50	1.63	1.77	1.91	2.04
			FT of Loss	0.31	0.63	0.94	1.26	1.57	1.89	2.20	2.51	2.83	3.14	3.46	3.77	4.09	4.40	4.72
	25	13.5	PSI Loss	0.17	0.34	0.51	0.68	0.85	1.02	1.18	1.35	1.52	1.69	1.86	2.03	2.20	2.37	2.54
			FT of Loss	0.39	0.78	1.17	1.56	1.95	2.35	2.74	3.13	3.52	3.91	4.30	4.69	5.08	5.47	5.86
	30	15	PSI Loss	0.21	0.41	0.62	0.82	1.03	1.23	1.44	1.65	1.85	2.06	2.26	2.47	2.67	2.88	3.09
			FT of Loss	0.48	0.95	1.43	1.90	2.38	2.85	3.33	3.80	4.28	4.75	5.23	5.70	6.18	6.65	7.13

MICRO BIRD® JET HEADLOSS

				Length of 1/4" Tube (Feet)														
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Violet	10	9.7	PSI Loss	0.09	0.18	0.28	0.37	0.46	0.55	0.64	0.73	0.83	0.92	1.01	1.10	1.19	1.28	1.38
			FT of Loss	0.21	0.42	0.64	0.85	1.06	1.27	1.48	1.70	1.91	2.12	2.33	2.54	2.76	2.97	3.18
	15	12	PSI Loss	0.14	0.27	0.41	0.54	0.68	0.82	0.95	1.09	1.22	1.36	1.50	1.63	1.77	1.91	2.04
			FT of Loss	0.31	0.63	0.94	1.26	1.57	1.89	2.20	2.51	2.83	3.14	3.46	3.77	4.09	4.40	4.72
	20	14	PSI Loss	0.18	0.36	0.54	0.72	0.91	1.09	1.27	1.45	1.63	1.81	1.99	2.17	2.35	2.53	2.72
			FT of Loss	0.42	0.84	1.25	1.67	2.09	2.51	2.93	3.35	3.76	4.18	4.60	5.02	5.44	5.86	6.27
	25	15.5	PSI Loss	0.22	0.44	0.66	0.87	1.09	1.31	1.53	1.75	1.97	2.19	2.40	2.62	2.84	3.06	3.28
			FT of Loss	0.50	1.01	1.51	2.02	2.52	3.03	3.53	4.04	4.54	5.05	5.55	6.06	6.56	7.07	7.57
	30	17.2	PSI Loss	0.27	0.53	0.80	1.06	1.33	1.59	1.86	2.12	2.39	2.65	2.92	3.18	3.45	3.71	3.98
			FT of Loss	0.61	1.22	1.84	2.45	3.06	3.67	4.29	4.90	5.51	6.12	6.74	7.35	7.96	8.57	9.19
Green	10	12.5	PSI Loss	0.15	0.29	0.44	0.59	0.73	0.88	1.03	1.17	1.32	1.47	1.61	1.76	1.91	2.05	2.20
			FT of Loss	0.34	0.68	1.02	1.36	1.70	2.03	2.37	2.71	3.05	3.39	3.73	4.07	4.41	4.75	5.09
	15	15	PSI Loss	0.21	0.41	0.62	0.82	1.03	1.23	1.44	1.65	1.85	2.06	2.26	2.47	2.67	2.88	3.09
			FT of Loss	0.48	0.95	1.43	1.90	2.38	2.85	3.33	3.80	4.28	4.75	5.23	5.70	6.18	6.65	7.13
	20	17	PSI Loss	0.26	0.52	0.78	1.04	1.30	1.56	1.82	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
			FT of Loss	0.60	1.20	1.80	2.40	3.00	3.60	4.19	4.79	5.39	5.99	6.59	7.19	7.79	8.39	8.99
	25	19.5	PSI Loss	0.33	0.67	1.00	1.34	1.67	2.01	2.34	2.68	3.01	3.34	3.68	4.01	4.35	4.68	5.02
			FT of Loss	0.77	1.55	2.32	3.09	3.86	4.64	5.41	6.18	6.95	7.73	8.50	9.27	10.04	10.82	11.59
	30	22	PSI Loss	0.42	0.84	1.25	1.67	2.09	2.51	2.93	3.35	3.76	4.18	4.60	5.02	5.44	5.85	6.27
			FT of Loss	0.97	1.93	2.90	3.86	4.83	5.80	6.76	7.73	8.69	9.66	10.63	11.59	12.56	13.52	14.49
Red	10	17	PSI Loss	0.26	0.52	0.78	1.04	1.30	1.56	1.82	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
			FT of Loss	0.60	1.20	1.80	2.40	3.00	3.60	4.19	4.79	5.39	5.99	6.59	7.19	7.79	8.39	8.99
	15	21	PSI Loss	0.38	0.77	1.15	1.53	1.92	2.30	2.69	3.07	3.45	3.84	4.22	4.60	4.99	5.37	5.75
			FT of Loss	0.89	1.77	2.66	3.54	4.43	5.32	6.20	7.09	7.98	8.86	9.75	10.63	11.52	12.41	13.29
	20	24	PSI Loss	0.49	0.98	1.47	1.97	2.46	2.95	3.44	3.93	4.42	4.91	5.40	5.90	6.39	6.88	7.37
			FT of Loss	1.13	2.27	3.40	4.54	5.67	6.81	7.94	9.08	10.21	11.35	12.48	13.62	14.75	15.89	17.02
	25	27	PSI Loss	0.61	1.22	1.83	2.44	3.06	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
			FT of Loss	1.41	2.82	4.23	5.65	7.06	8.47	9.88	11.29	12.70	14.11	15.53	16.94	18.35	19.76	21.17
	30	30	PSI Loss	0.74	1.49	2.23	2.97	3.71	4.46	5.20	5.94	6.68	7.43	8.17	8.91	9.65	10.40	11.14
			FT of Loss	1.72	3.43	5.15	6.86	8.58	10.29	12.01	13.72	15.44	17.16	18.87	20.59	22.30	24.02	25.73

PSI GPH				Length of 1/4" Tube (Feet)														
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
White	10	21	PSI Loss	0.38	0.77	1.15	1.53	1.92	2.30	2.69	3.07	3.45	3.84	4.22	4.60	4.99	5.37	5.75
			FT of Loss	0.89	1.77	2.66	3.54	4.43	5.32	6.20	7.09	7.98	8.86	9.75	10.63	11.52	12.41	13.29
	15	26.5	PSI Loss	0.59	1.18	1.77	2.36	2.95	3.54	4.13	4.72	5.31	5.90	6.49	7.08	7.67	8.26	8.85
			FT of Loss	1.36	2.73	4.09	5.45	6.82	8.18	9.54	10.91	12.27	13.63	15.00	16.36	17.72	19.09	20.45
	20	30	PSI Loss	0.74	1.49	2.23	2.97	3.71	4.46	5.20	5.94	6.68	7.43	8.17	8.91	9.65	10.40	11.14
			FT of Loss	1.72	3.43	5.15	6.86	8.58	10.29	12.01	13.72	15.44	17.16	18.87	20.59	22.30	24.02	25.73
	25	33.5	PSI Loss	0.91	1.82	2.73	3.64	4.56	5.47	6.38	7.29	8.20	9.11	10.02	10.93	11.84	12.76	13.67
			FT of Loss	2.10	4.21	6.31	8.42	10.52	12.63	14.73	16.84	18.94	21.05	23.15	25.26	27.36	29.46	31.57
	30	37.5	PSI Loss	1.12	2.25	3.37	4.49	5.61	6.74	7.86	8.98	10.10	11.23	12.35	13.47	14.60	15.72	16.84
			FT of Loss	2.59	5.19	7.78	10.37	12.97	15.56	18.15	20.75	23.34	25.94	28.53	31.12	33.72	36.31	38.90



High Performance Sprinklers

LFX™ Low Flow Sprinklers 58

Uniformity Select 64

LF™ Series Sprinklers..... 65

Part List 70



LOW-FLOW SMART WATERING



Ideal for a variety of situations, Rain Bird® LFX™ Sprinklers are built to be efficient and flexible, delivering unmatched water distribution at any trajectory.

FEATURES:

- 3-part snap-fit assembly sprinklers for easy assembly and in-field maintenance
- Rain Curtain™ technology and Flow Control Nozzles for uniform water distribution without waste
- Made of high-quality resin with fully sealed brake mechanisms to safeguard against debris, insects and grit

LFX™ LOW FLOW SPRINKLER

TECHNICAL SPECIFICATIONS



The Rain Bird® LFX™ Low Flow Sprinkler was designed for efficiency. It offers market-leading distribution uniformity and performance consistency, reliable durability and operational simplicity with its Snap-Fit Assembly and interchangeable brake assemblies and nozzles.



No Tools Required
Snap-Fit Assembly

FEATURES

- Ensures even distribution with Rain Curtain™ Technology
- Provides gentle close-in watering to prevent wash out
- Easy installation and field maintenance without tools
- Durable acetal material withstands harsh field conditions
- Color-coded for quick identification and easy switch out to adapt to different irrigation requirements

LFX DESIGN

Brake Assembly with Deflector



LFX300



LFX600



Nozzle

Available with flow control nozzles

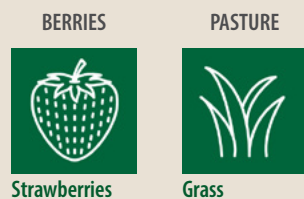
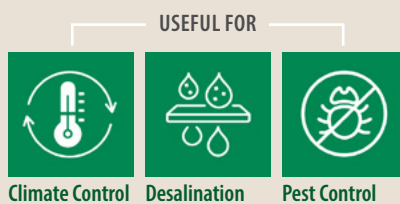
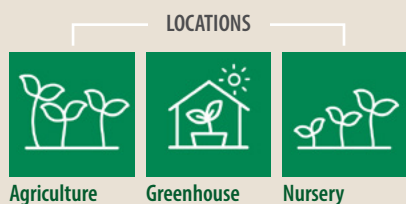
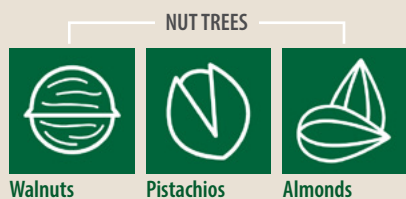
Body

ACME or 1/2" MNPT

OPERATING RANGE

	Pressure	25 - 50 psi	1.72 - 3.45 bar
	Flow Rate	0.28 - 2.12 gpm	62 - 469 lph
	Radius of Throw	18 - 31 ft	5.5 - 9.4 meters

APPLICATIONS



PACKAGING DATA

LFX300 FACTORY-ASSEMBLED QUANTITIES

 BAG: 50  CASE: 300  Pallet: 9,600

PART QUANTITIES

PART	MINIMUM ORDER	CASE QUANTITY
Nozzles	200	3,600
Brake Assemblies	200	3,600
Bodies	200	400

LFX600 FACTORY-ASSEMBLED QUANTITIES

 BAG: 50  CASE: 300  Pallet: 9,600

PART QUANTITIES

PART	MINIMUM ORDER	CASE QUANTITY
Nozzles	200	1,600
Brake Assemblies	200	3,600
Bodies	200	400

How to Order

LF03

Core Family

LF03 - LFX300

N

Body

A - Female ACME Thread
N - ½" Male NPT Thread

09R

Deflector

09R - 9° Red
09W - 9° White
150 - 15° Orange

40

Nozzle

40 - Light Blue
45 - Light Purple
50 - Dark Green
55 - Light Yellow
60 - Light Red
F1 - FC 0.35 gpm
F2 - FC 0.50 gpm
F3 - FC 0.43 gpm

LF06

Core Family

LF06 - LFX600

N

Body

A - Female ACME Thread
N - ½" Male NPT Thread

15P

Deflector

09B - 9° Blue
12P - 12° Pink
15P - 15° Purple
15G - 15° Gold

78

Nozzle

65 - Gray
70 - White
78 - Dark Blue
86 - Orange
94 - Purple
102 - Yellow
F4 - FC 0.75 gpm
F5 - FC 1.0 gpm

Sprinkler Body Options



NPT Male Pipe Thread

R1/2" (13 mm)

SPECIFICATION: N



Female ACME Thread

SPECIFICATION: A

Stream Splitters



Edge Guard / Road Guard

Reduce water waste by converting any LFX full circle sprinkler to a 190° irrigation pattern.

MODEL# LFXG



One-Sided Stream Splitter

Direct water away from unwanted areas by creating a 30° dry wedge.

MODEL# LFXSS1



Two-Sided Stream Splitter

Direct water away from unwanted areas by creating two (2) 30° dry wedges.

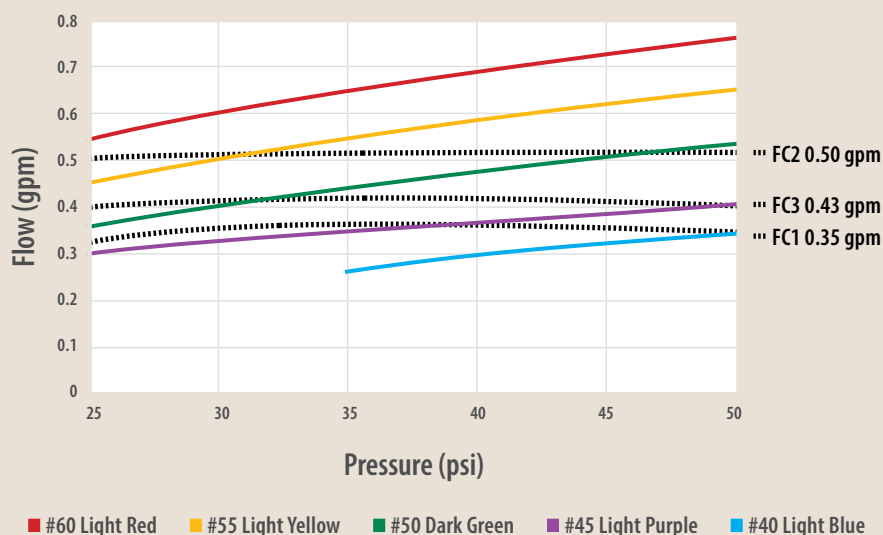
MODEL# LFXSS2

Save water and improve yield by upgrading to the Flow Control (FC) nozzle

Upgrade your standard flow nozzle to a Flow Control (FC) nozzle for consistent flow along laterals and terrain variations. As water pressure increases, the FC washer restricts flow to control output.

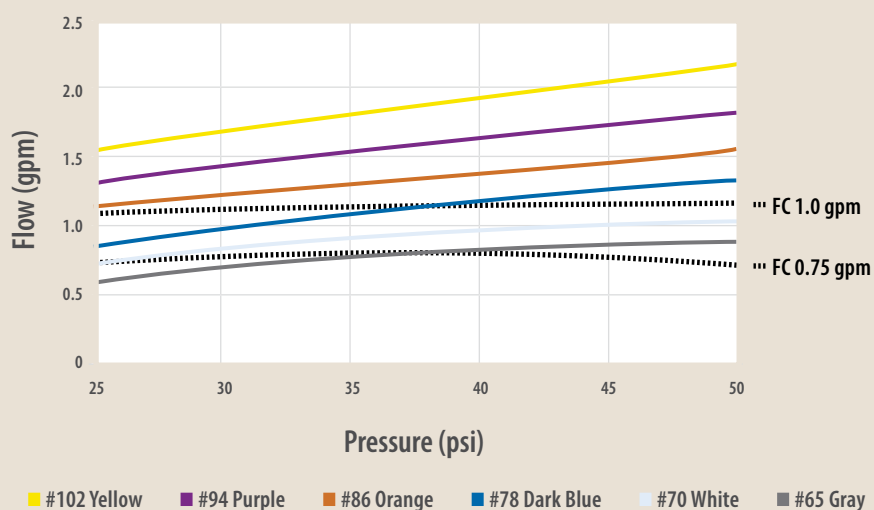
LFX300 Flow Rates

- Avoid over or under watering
- Increase yield with regulated flow
- Simple upgrade, no tools required
- Three flow rates available:
 - 0.35 gpm (79.5 l/h)
 - 0.43 gpm (97.6 l/h)
 - 0.50 gpm (113.6 l/h)
- Operating range from 25 to 50 psi (1.72 to 3.45 bar)



LFX600 Flow Rates

- Two flow rates available:
 - 0.75 gpm (170.3 l/h)
 - 1.00 gpm (227.3 l/h)
- Operating range from 25 to 50 psi (1.72 to 3.45 bar)



LFX300 PERFORMANCE DATA

Matrix of Assemblies	Brake Assembly With Deflector	Nozzle	Stream Height	Flow Rate at Standard Pressures (gpm)						Model	
				Throw Radius at Standard Pressure (feet)						NPT	ACME
				25 psi	30 psi	35 psi	40 psi	45 psi	50 psi		
	Light Blue #40 0.040" (1.016 mm)		20-23 in (50.8-58.4 cm)	—	—	0.28	0.30	0.32	0.34	LF03N09R40	LF03A09R40
						20	21	20	20		
	Light Purple #45 0.045" (1.143 mm)		19-25 in (48.3-63.5 cm)	0.29	0.32	0.35	0.37	0.39	0.41	LF03N09R45	LF03A09R45
				20	21	22	22	22	21		
	Dark Green #50 0.050" (1.270 mm)		21-29 in (53.3-73.6 cm)	0.36	0.40	0.43	0.46	0.48	0.51	LF03N09R50	LF03A09R50
				21	21	22	21	21	21		
	FC1 0.35 gpm (79.5 l/h)		20-25 in (50.8 - 63.5 cm)			0.35				LF03N09RF1	LF03A09RF1
						18					
	FC1 0.43 gpm (97.7 l/h)		20-25 in (50.8 - 63.5 cm)			0.43				LF03N09RF3	LF03A09RF3
						19					
	Dark Green #50 0.050" (1.270 mm)		20-24 in (50.8-61 cm)	—	—	0.43	0.46	0.48	0.51	LF03N09W50	LF03A09W50
						22	22	22	23		
	Light Yellow #55 0.055" (1.397 mm)		17-25 in (43.2-63.5 cm)	0.44	0.48	0.52	0.55	0.59	0.62	LF03N09W55	LF03A09W55
				21	22	24	23	25	25		
	Light Red #60 0.060" (1.524 mm)		17-25 in (43.2-63.5 cm)	0.51	0.56	0.61	0.65	0.69	0.73	LF03N09W60	LF03A09W60
				23	24	24	25	25	25		
	FC2 0.50 gpm (113.6 l/h)		20-25 in (50.8-63.5 cm)			0.50				LF03N09WF2	LF03A09WF2
						18					
	Dark Green #50 0.050" (1.270 mm)		34-39 in (86.4-99.1 cm)	—	—	0.43	0.46	0.48	0.51	LF03N150S0	LF03A150S0
						24	25	24	23		
	Light Yellow #55 0.055" (1.397 mm)		36-42 in (91.4-106.7 cm)	0.44	0.48	0.52	0.55	0.59	0.62	LF03N150S5	LF03A150S5
				25	24	24	24	24	24		
	Light Red #60 0.060" (1.524 mm)		33-41 in (83.8-104.1 cm)	0.51	0.56	0.61	0.65	0.69	0.73	LF03N150S60	LF03A150S60
				24	25	25	25	24	24		
	FC2 0.50 gpm (113.6 l/h)		30-42 in (76.2-106.7 cm)			0.50				LF03N150F2	LF03A150F2
						20					

Performance data based on 12" riser.

LFX600 PERFORMANCE DATA

Matrix of Assemblies	Brake Assembly With Deflector	Nozzle	Stream Height	Flow Rate at Standard Pressures (gpm) Throw Radius at Standard Pressure (feet)						Model		
				25 psi	30 psi	35 psi	40 psi	45 psi	50 psi	NPT	ACME	
	9° Blue	Gray #65 0.065" (1.651 mm)		17-28 in (43-71 cm)	0.61	0.67	0.72	0.77	0.82	0.86	LF06N09B65	LF06A09B65
					23	23	24	25	25	25		
		White #70 0.070" (1.778 mm)		22-30 in (56-76 cm)	0.70	0.77	0.83	0.89	0.94	0.99	LF06N09B70	LF06A09B70
					24	24	24	25	25	26		
		Dark Blue #78 0.078" (1.981 mm)		22-30 in (56-76 cm)	0.88	0.97	1.05	1.12	1.19	1.25	LF06N09B78	LF06A09B78
					25	25	25	25	25	26		
	12° Pink	F4 0.75 gpm/170.3 lph		19-26 in (48-66 cm)	0.75						LF06N09BF4	LF06A09BF4
					22.5							
			F5 1.0 GPM/227.1 lph		22-31 in (56-79 cm)	1.0						LF06N09BF5
23.5												
	15° Purple	Dark Blue #78 0.078" (1.981 mm)		23-31 in (58-79 cm)	–	–	1.05	0.46	0.48	0.51	LF06N12P78	LF06A12P78
					–	–	23	22	22	23		
		Orange #86 0.086" (2.184 mm)		22-32 in (56-81 cm)	–	1.18	1.27	0.55	0.59	0.62	LF06N12P86	LF06A12P86
					–	26	28	23	25	25		
		Purple #94 0.094" (2.388 mm)		20-32 in (51-81 cm)	1.27	1.39	1.50	1.61	1.70	1.80	LF06N12P94	LF06A12P94
					26	28	29	28	29	29		
	15° Gold	Yellow #102 0.102" (2.591 mm)		21-34 in (53-86 cm)	1.50	1.65	1.78	1.90	2.02	2.12	LF06N12P102	LF06A12P102
					27	28	30	30	29	29		
		Gray #65 0.065" (1.651 mm)		27-41 in (69-104 cm)	0.61	0.67	0.72	0.77	0.82	0.86	LF06N15P65	LF06A15P65
					26	24	25	25	27	26		
		White #70 0.070" (1.778 mm)		31-44 in (79-112 cm)	0.70	0.77	0.83	0.89	0.94	0.99	LF06N15P70	LF06A15P70
					26	27	27	29	29	29		
	15° Purple	Dark Blue #78 0.078" (1.981 mm)		34-45 in (86 - 114 cm)	0.88	0.97	1.05	1.12	1.19	1.25	LF06N15P78	LF06A15P78
					28	28	29	29	29	28		
		15° Gold	F4 0.75 gpm/170.3 lph		31-42 in (79-107 cm)	0.75						LF06N15PF4
24												
		F5 1.0 gpm/227.1 lph		34-44 in (86-112 cm)	1.0						LF06N15PF5	LF06A15PF5
					27.5							
		Orange #86 0.086" (2.184 mm)		27-50 in (69-127 cm)	1.07	1.18	1.27	1.36	1.44	1.52	LF06N15G86	LF06A15G86
					26	28	28	29	29	30		
	Purple #94 0.094" (2.388 mm)		38-49 in (97-124 cm)	1.27	1.39	1.50	1.61	1.70	1.80	LF06N15G94	LF06A15G94	
				28	30	30	31	31	31			
	Yellow #102 0.102" (2.591 mm)		41-53 in (104-135 cm)	1.50	1.65	1.78	1.90	2.02	2.12	LF06N15G10	LF06A15G10	
				31	31	31	30	30	30			

Performance data based on 12" riser.

Available Adapters



Universal Stake Adapter

Interchangeable stake adapter for use with small diameter or large diameter stakes.

1/4", 5/16", 1/2" or 3/4"
MODEL# LFXUSA

6.4 mm, 8 mm,
12.7 mm, or 19 mm
MODEL# LFXUSAM



ACME to SLIP Adapter

ACME to 1/2" or 3/4" - Grey
MODEL# LFXACX12

ACME to 20 mm or
25 mm - White
MODEL# LFXACX20MM



ACME to MNPT Adapter

Converts ACME to 1/2" MNPT
MODEL# LFXACXNPT

Converts 3/4" ACME to MNPT
MODEL# LFXACX38NPT

Stakes



PVC Stakes

1/2" (13 mm) Diameter
21" (53.3 cm) Length
Exit Hole: 9.5" (24 cm)
from top

Available with feedtube
assembly only.



Fiberglass Stakes

1/4" (6.4 mm) Diameter
MODEL# LFXSF124
5/16" (8 mm) Diameter
MODEL# LFXSF224



Steel Stakes

1/4" (6.4 mm) Diameter
MODEL# LFXSS124
5/16" (8 mm) Diameter
MODEL# LFXSS224

Feedtube & Preassembled Options



Tubing Barbs

5mm Tubing Barb (LFX300)
MODEL# LFX05B

10mm Tubing Barb (LFX600)
MODEL# LFX10B



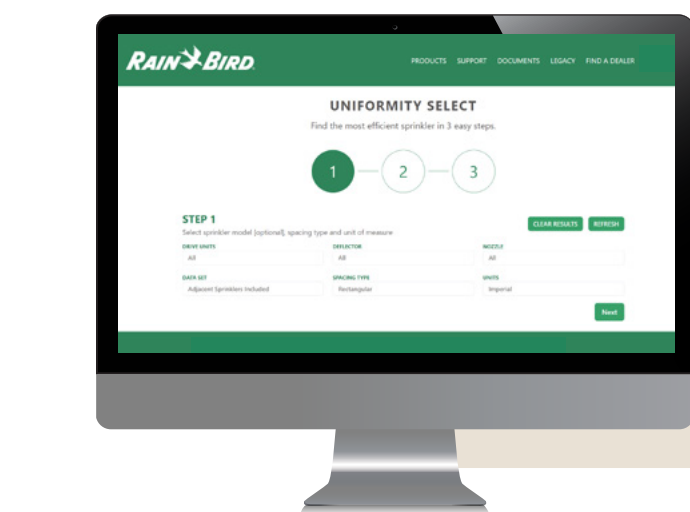
		Feedtube Length Options	Feedtube with Universal Barb	Feedtube, Barb, & Universal Stake Adapter	Feedtube, Barb, & Stake Adapter & PVC Stake
Blank Feedtube 500' Coil of 5 mm Tubing MODEL# LFX550		30" (76cm)	MODEL# LFX5FTA30	MODEL# LFX5SAA30	MODEL# LFXPVCA30
		42" (106.7cm)	MODEL# LFX5FTA42	MODEL# LFX5SAA42	MODEL# LFXPVCA42



Finding The Most Efficient Sprinkler for Your Project is As Easy As 1-2-3

Uniformity Select takes the guesswork out of irrigation

- ✓ Specify the sprinkler type, nozzle and deflector combinations that work best for your project
- ✓ Sort by precipitation rate, DU, CU, or flow to identify the most efficient solution
- ✓ Auto-generate PDF submissions to local agencies like NRCS to qualify for conservation grants



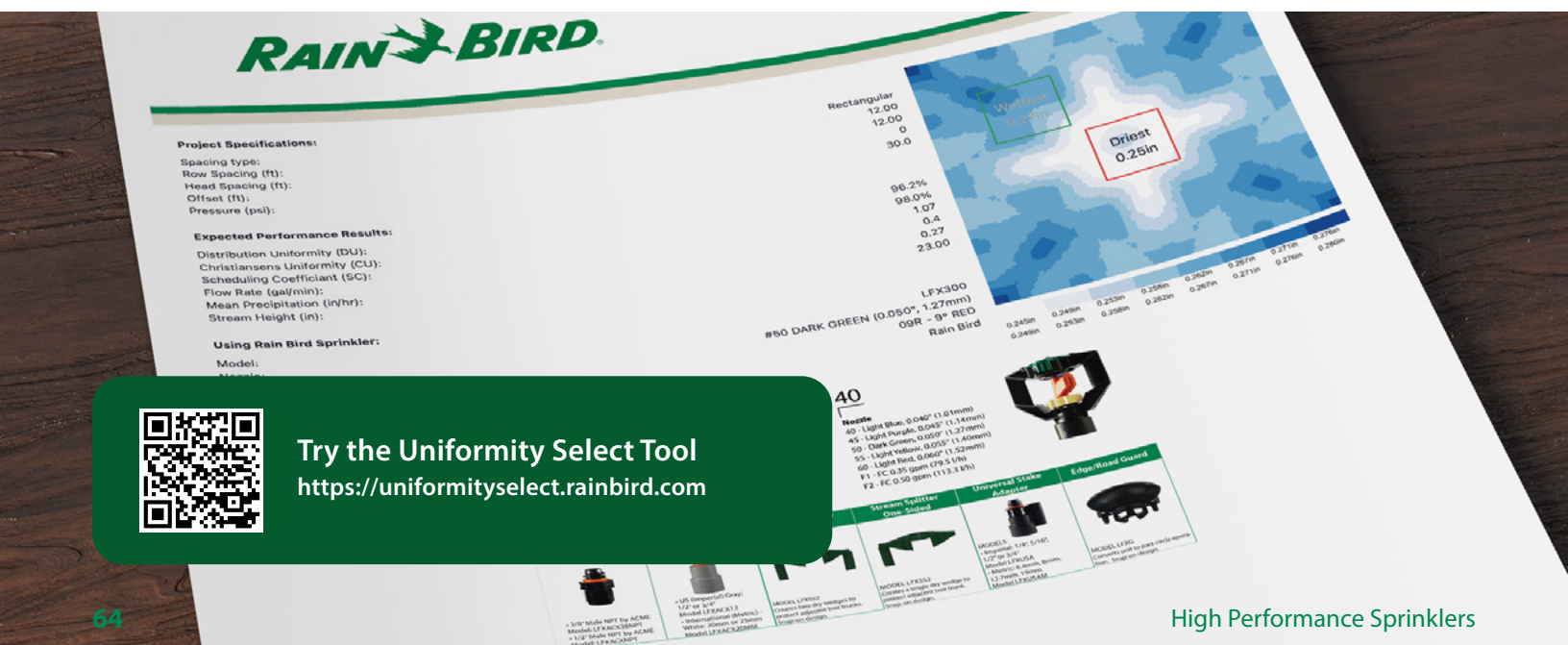
How It Works

- Step 1:** Visit uniformityselect.rainbird.com
- Step 2:** Input your pressure and sprinkler layout
- Step 3:** Review your results

Step 1: Visit uniformityselect.rainbird.com

Step 2: Input your pressure and sprinkler layout

Step 3: Review your results



LF™ SERIES SPRINKLER

TECHNICAL SPECIFICATIONS



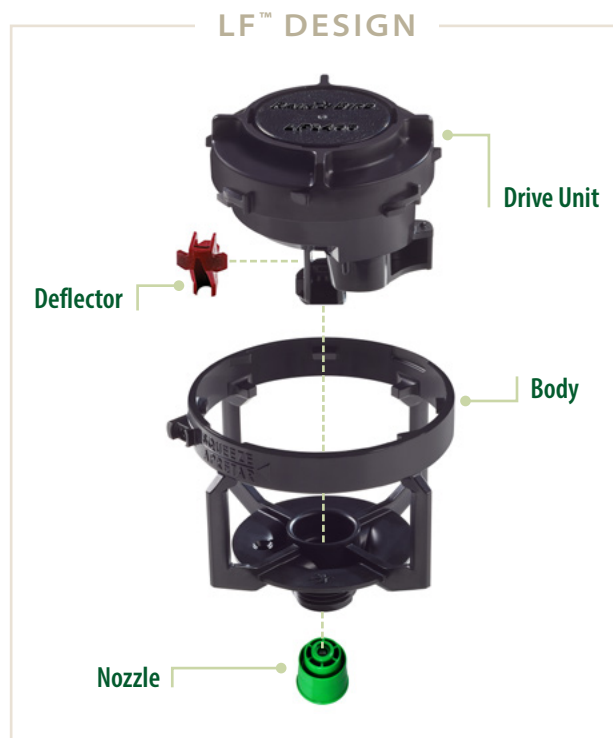
Maximize irrigation efficiency while minimizing maintenance with Rain Bird® LF™ Series Sprinklers. Look to this rugged and durable sprinkler for unrivaled performance under harsh field and weather conditions. LF Series Sprinklers deliver precise, uniform coverage with a variety of flow rates and deflector angle options that make this sprinkler a versatile solution for crop irrigation and climate control applications.



No Tools Required
Snap-Fit Assembly

FEATURES

- Provides consistent, controlled rotation and wide range of throw with weighted drive unit
- Deflectors designed with Rain Curtain™ Technology ensure even distribution of water
- Precision Jet (PJ) spoon directs water to the field and prevents erosion around the riser
- Heavy-duty, durable components resist wear
- Reliable performance at any temperature; ideal for cooling or frost protection
- Sturdy, roll cage design protects the drive unit from damage
- Maintenance is easy with our Snap-Fit-Assembly and convenient color coded nozzles and deflectors



OPERATING RANGE

Pressure	25 - 60 psi	1.7 - 4.2 bar
Flow Rate	0.97 - 6.82 gpm	227 - 1,549 lph
Radius of Throw	22 - 50 ft	6.6 - 15.2 meters

APPLICATIONS

TRELLIS Grapes Apples Stone Fruit			ROW CROPS Pineapples Leafy Greens Pumpkins Sweet Potatoes				FIELD CROPS Pasture Alfalfa		BOGS Cranberries
ORCHARDS Walnuts Pecans Almonds Bananas Palm Oil					USEFUL FOR Frost Protection Cooling		LOCATIONS Agriculture Greenhouse Nursery		

PACKAGING DATA

FACTORY-ASSEMBLED QUANTITIES

 CASE: 100  PALLET: 1,200

PART QUANTITIES

PART	MINIMUM ORDER	CASE QUANTITY
Nozzles	200	1,600
Deflectors	200	1,600
Unassembled Body Drive Units	200	100

How to Order

LF12

Core Family

LF12 - LF1200 Sprinkler
LF24 - LF2400 Sprinkler

A

Body

N - Male NPT Thread
A - Male ACME
T - Male ACME Anti-Theft

06P

Deflector

06P - 6° Dark Purple
10W - 10° White
10L - 10° Lime
12B - 12° Cyan Blue
12P - 12° Pink
13M - 13° Maroon
15T - 15° Tangerine
16R - 16° Red
17B - 17° Powder Blue
21G - 21° Olive Green
22G - 22° Dark Green
27B - 27° Black

44

Nozzle

05 - Blue
06 - Purple
07 - Green
08 - Red
09 - Silver
10 - Brown
11 - Dark Grey
29 - Black
30 - Tan
38 - Yellow
44 - Orange

A

Adapter or Anti-Theft

A - 3/4" MNPT Adapter for Male ACME Body
(LF2400LR ONLY)
R - Horizontal Anti-Theft Screw ONLY

Sprinkler Body Options



Male NPT Pipe Thread

1/2" (13 mm)
SPECIFICATION: N



Male ACME Thread

(adapter required)
SPECIFICATION: A



Male ACME Anti-Theft

(adapter required)
SPECIFICATION: T

Accessories for LF™ Series Sprinklers



Edge Guard/Road Guard

Eliminates washout and keeps water off roads and walkways. Quickly converts a full circle irrigation pattern to 190°
MODEL# LFEG



ACME x MNPT Adapter

Converts ACME to 1/2" MNPT
Model# LFACMEXNPT
Converts ACME x Male 3/4" MNPT
MODEL# LFACME3/4



ACME to Slip Adapter

ACME to 1/2" or 3/4" - Gray
MODEL# LFACMEUS
ACME to 20 mm x 25 mm - White
MODEL# LFACME20MM

Get Greater Protection & Peace of Mind with the Fully Assembled Anti-Theft LF™ Series



Horizontal Screw

Vertical Screw

HOW TO ORDER:

Vertical and Horizontal Screw: Example: LF12-T-06P-44-A

Select Body "T" when ordering and your LF will come outfitted with a vertical and horizontal screw to secure your sprinkler. Available with Male ACME body and requires ACME adapter.

Horizontal Screw Only: Example: LF24-N-22G-07-R

If you are ordering LF sprinklers for hand move or rental pipe applications, consider ordering with a horizontal anti-theft screw pre-installed to lock the drive into the body.

LOOKING TO ORDER ANTI-THEFT SCREWS ONLY?

HORIZONTAL SCREW
MODEL# LFTHSCRH

VERTICAL SCREW
MODEL# LFTHFTSCRV

LF1200 PERFORMANCE DATA

Matrix of Assemblies	Flow Rate at Standard Pressures (gpm)												Model	
	Deflector	Nozzle	Stream Height	Throw Radius at Standard Pressure (feet)								NPT	ACME	
				25 psi	30 psi	35 psi	40 psi	45 psi	50 psi	55 psi	60 psi			
	6° Dark Purple	Orange 0.086" (2.18 mm)		14-20 in		1.17	1.26	1.35	1.43	1.51	1.59	1.67	LF12N06P44	LF12A06P44
					23	23	25	25	25	26	26			
		Purple 0.094" (2.39 mm)		14-21 in	1.27	1.39	1.5	1.61	1.71	1.8	1.89	1.98	LF12N06P06	LF12A06P06
					22	24	24	26	26	28	26	27		
		Yellow 0.102" (2.59 mm)		16-21 in	1.49	1.63	1.77	1.89	2.00	2.12			LF12N06P38	LF12A06P38
					23	25	25	27	27	28				
	10° White	Blue 0.078" (1.98 mm)		19-29 in		0.97	1.05	1.12	1.19	1.25	1.31	1.37	LF12N10W05	LF12A10W05
					25	26	26	27	27	27	27	27		
		Orange 0.086" (2.18 mm)		24-33 in		1.17	1.26	1.35	1.43	1.51	1.59	1.67	LF12N10W44	LF12A10W44
					25	27	27	28	27	30	29			
		Purple 0.094" (2.39 mm)		22-34 in	1.27	1.39	1.5	1.61	1.71	1.8	1.89	1.98	LF12N10W06	LF12A10W06
					26	28	28	28	29	29	29	29		
	12° Cyan Blue	Yellow 0.102" (2.59 mm)		24-34 in	1.49	1.63	1.77	1.89	2.00	2.12			LF12N10W38	LF12A10W38
					27	29	28	31	30	30				
		Orange 0.086" (2.18 mm)		28-39 in		1.17	1.26	1.35	1.43	1.51	1.59	1.67	LF12N12B44	LF12A12B44
					27	28	29	29	29	30	30			
		Purple 0.094" (2.39 mm)		28-40 in	1.27	1.39	1.5	1.61	1.71	1.8	1.89	1.98	LF12N12B06	LF12A12B06
					27	29	30	31	31	31	32	32		
	12° Pink	Yellow 0.102" (2.59 mm)		30-43 in	1.49	1.63	1.77	1.89	2.00	2.12			LF12N12B38	LF12A12B38
					28	30	32	32	32	33				
		Green 0.109" (2.76 mm)		30-41 in	1.69	1.85	2.00	2.15					LF12N12P07	LF12A12P07
					30	32	33	34						
		Tan 0.117" (2.97 mm)		34-44 in	1.97	2.17	2.35	2.53					LF12N12P30	LF12A12P30
					31	33	34	35						
	16° Red	Blue 0.078" (1.98 mm)		46-59 in				1.12	1.19	1.25	1.31	1.37	LF12N16R05	LF12A16R05
							30	31	30	31	31			
		Orange 0.086" (2.18 mm)		42-55 in		1.17	1.26	1.35	1.43	1.51	1.59	1.67	LF12N16R44	LF12A16R44
					31	32	32	32	32	32	32	32		
		Purple 0.094" (2.39 mm)		40-55 in	1.27	1.39	1.50	1.61	1.71	1.80	1.89	1.98	LF12N16R06	LF12A16R06
					30	31	32	33	33	34	34	34		
	17° Powder Blue	Yellow 0.102" (2.59 mm)		40-55 in	1.49	1.63	1.77	1.89	2.00	2.12			LF12N16R38	LF12A16R38
					30	31	33	33	33	32				
		Blue 0.078" (1.98 mm)		41-55 in		0.97	1.05	1.12	1.19	1.25	1.31	1.37	LF12N17B05	LF12A17B05
					27	31	30	33	33	33	33	33		
		Orange 0.086" (2.18 mm)		49-60 in		1.17	1.26	1.35	1.43	1.51	1.59	1.67	LF12N17B44	LF12A17B44
					31	33	34	34	34	34	34	33		
	21° Olive Green	Purple 0.094" (2.39 mm)		42-61 in	1.27	1.39	1.50	1.61	1.71	1.80	1.89	1.98	LF12N17B06	LF12A17B06
					31	33	34	35	36	35	36	36		
		Yellow 0.102" (2.59 mm)		43-61 in	1.49	1.63	1.77	1.89	2.00	2.12			LF12N17B38	LF12A17B38
					32	34	35	36	36	37				
		Orange 0.086" (2.18 mm)		60-74 in		1.17	1.26	1.35	1.43	1.51	1.59	1.67	LF12N21G44	LF12A21G44
						34	34	34	35	35	35	35		
	21° Olive Green	Purple 0.094" (2.39 mm)		50-75 in	1.27	1.39	1.50	1.61	1.71	1.80	1.89	1.98	LF12N21G06	LF12A21G06
					33	34	35	35	35	35	35	36		
		Yellow 0.102" (2.59 mm)		53-72 in	1.49	1.63	1.77	1.89	2.00	2.12			LF12N21G38	LF12A21G38
					34	35	36	36	36	36				

Performance data based on 12" riser.

LF1200 Pre-assembled Sprinklers come 100/case and 1,200/pallet. Standard ACME body listed. See prior page for Anti-Theft models.

LF2400 PERFORMANCE DATA

Matrix of Assemblies	Deflector	Nozzle	Stream Height	Flow Rate at Standard Pressures (gpm)								Model	
				Throw Radius at Standard Pressure (feet)								NPT	ACME
				25 psi	30 psi	35 psi	40 psi	45 psi	50 psi	55 psi	60 psi		
	10° Lime	Green 7/64" (2.76 mm)	 20-38 in	1.69	1.85	2.00	2.15	2.28	2.45	2.57	2.70	LF24N10L07	LF24A10L07
				27	29	30	32	33	34	34	35		
		Tan 30 Drill (2.97 mm)	 24-38 in	1.97	2.17	2.35	2.53	2.67	2.81	2.95	3.09	LF24N10L30	LF24A10L30
				29	30	32	33	34	35	35	36		
		Red 1/8" (3.18 mm)	 41-42 in	2.24	2.50	2.70	2.89	3.07	3.20	3.36	3.52	LF24N10L08	LF24A10L08
	13° Maroon			30	32	33	34	35	36	36	36		
		Black 29 Drill (3.38 mm)	 30-48 in	2.52	2.81	3.03	3.25	3.45	3.60	3.75	3.88	LF24N10L29	LF24A10L29
				30	32	33	35	35	36	36	37		
		Silver 9/64" (3.57 mm)	 32-44 in	2.93	3.27	3.53	3.78	4.02				LF24N10L09	LF24A10L09
				32	34	35	36	37					
	15° Tangerine	Green 7/64" (2.76 mm)	 28-50 in	1.69	1.85	2.00	2.15	2.28	2.45	2.57	2.70	LF24N13M07	LF24A13M07
				30	31	32	33	34	34	35	35		
		Tan 30 Drill (2.97 mm)	 30-48 in	1.97	2.17	2.35	2.53	2.67	2.81	2.95	3.09	LF24N13M30	LF24A13M30
				31	32	33	36	35	36	36	36		
		Red 1/8" (3.18 mm)	 32-49 in	2.24	2.50	2.70	2.89	3.07	3.20	3.36	3.52	LF24N13M08	LF24A13M08
	22° Dark Green			31	33	34	35	36	37	38	37		
		Black 29 Drill (3.38 mm)	 33-50 in	2.52	2.81	3.03	3.25	3.45	3.60	3.75	3.88	LF24N13M29	LF24A13M29
				32	33	34	35	36	36	37	37		
		Silver 9/64" (3.57 mm)	 38-54 in	2.93	3.27	3.53	3.78	4.02				LF24N13M09	LF24A13M09
				33	36	37	38	39					
	22° Dark Green	Green 7/64" (2.76 mm)	 32-50 in	1.69	1.85	2.00	2.15	2.28	2.45	2.57	2.70	LF24N15T07	LF24A15T07
				31	32	33	34	35	35	36	37		
		Tan 30 Drill (2.97 mm)	 28-50 in	1.97	2.17	2.35	2.53	2.67	2.81	2.95	3.09	LF24N15T30	LF24A15T30
				30	33	34	36	36	36	37	37		
		Red 1/8" (3.18 mm)	 35-54 in	2.24	2.50	2.70	2.89	3.07	3.20	3.36	3.52	LF24N15T08	LF24A15T08
	22° Dark Green			32	34	35	37	37	37	37	37		
		Black 29 Drill (3.38 mm)	 40-67 in	2.52	2.81	3.03	3.25	3.45	3.60	3.75	3.88	LF24N15T29	LF24A15T29
				32	36	37	38	38	39	39	40		
		Silver 9/64" (3.57 mm)	 42-57 in	2.93	3.27	3.53	3.78	4.02				LF24N15T09	LF24A15T09
				34	36	37	39	39					
	22° Dark Green	Green 7/64" (2.76 mm)	 63-95 in	1.69	1.85	2.00	2.15	2.28	2.45	2.57	2.70	LF24N22G07	LF24A22G07
				36	38	38	38	39	39	39	39		
		Tan 30 Drill (2.97 mm)	 64-97 in	1.97	2.17	2.35	2.53	2.67	2.81	2.95	3.09	LF24N22G30	LF24A22G30
				36	38	39	40	41	41	41	42		
		Red 1/8" (3.18 mm)	 67-100 in	2.24	2.50	2.70	2.89	3.07	3.20	3.36	3.52	LF24N22G08	LF24A22G08
	22° Dark Green			36	39	40	41	41	43	43	44		
		Black 29 Drill (3.38 mm)	 74-120 in	2.52	2.81	3.03	3.25	3.45	3.60	3.75	3.88	LF24N22G29	LF24A22G29
				38	41	42	42	43	44	44	44		
		Silver 9/64" (3.57 mm)	 72-102 in	2.93	3.27	3.53	3.78	4.02				LF24N22G09	LF24A22G09
				39	40	43	44	45					

Performance data based on 12" riser.

LF2400 Pre-assembled Sprinklers come 100/case and 1,200/pallet. Standard ACME body listed. See prior page for Anti-Theft models.

Matrix of Assemblies	Flow Rate at Standard Pressures (gpm) Throw Radius at Standard Pressure (feet)											Model		
	Deflector	Nozzle	Stream Height	25 psi	30 psi	35 psi	40 psi	45 psi	50 psi	55 psi	60 psi	½" NPT	ACME	ACME w/ ¾" NPT ADAPTER
		Silver 9/64" (3.63 mm) 	76-116 in	2.93	3.27	3.53	3.78	4.02	4.23	4.43	4.63	LF24N27B09	LF24A27B09	LF24A27B09A
				38	40	40	42	44	45	46	46			
		Brown 5/32" (3.97 mm) 	78-118 in	3.64	3.99	4.31	4.60	4.88	5.15	5.40	5.64	LF24N27B10	LF24A27B10	LF24A27B10A
				38	40	42	44	44	45	46	46			
27° Black		Dark Grey 11/64" (4.37 mm) 	80-120 in	4.40	4.82	5.21	5.57	5.91	6.23	6.53	6.82	LF24N27B11	LF24A27B11	LF24A27B11A
	40			42	44	47	48	48	48	50				

Performance data based on 12 inch / 30 cm riser.

LF™ Series Sprinklers for Superior Frost Protection



Safeguard developing buds, flowers and fruits during radiation frost events. Just one freeze event, where temperatures drop below 24°F, can result in up to a 90% loss.

This Unique Frost-Resistant Design Delivers:

- ✓ Fast and consistent rotation time
- ✓ High Distribution Uniformity and large droplet size
- ✓ Reliable operation in cold temperatures
- ✓ Low-labor maintenance and upkeep



Rain Bird LF Series Sprinklers feature an encapsulated impact drive mechanism that uses very few moving parts to provide consistent rotation and smooth operation regardless of changes in water pressure and temperature.

CASE IN POINT

In April of 2021, LF Sprinklers were put to the test. In Sisteron France, temperatures reached a record cold of 25°F (-4°C). When other sprinklers failed due to harsh conditions, Rain Bird sprinklers did not, and successfully saved an entire vineyard.



LFX 300		18-25 ft (5.5-7.6 m) Radius				
		Description	Ordering Increment	 Case Quantity	 Pallet Quantity	Model
Bodies		ACME LFX Body	200	400	9,600	LFXBACME
		NPT LFX Body	200	400	9,600	LFXBNPT
Deflector Brake Assembly		9 Degree Red Deflector	200	3,600	48,000	LFXBR9R
		9 Degree White Deflector	200	3,600	48,000	LFXBR9W
		15 Degree Orange Deflector	200	3,600	48,000	LFXBR15O
Nozzles		40 Light Blue (0.40", 1.02 mm)	200	1,600	38,400	LFXN40B
		45 Light Purple (0.045", 1.14 mm)	200	1,600	38,400	LFXN45P
		50 Dark Green (0.050", 1.27mm)	200	1,600	38,400	LFXN50G
		55 Light Yellow (0.055", 1.40 mm)	200	1,600	38,400	LFXN55Y
		60 Light Red (0.060", 1.52 mm)	200	1,600	38,400	LFXN60R
		0.35 GPM Flow Control	200	1,600	38,400	LFXN3GPM
		0.43 GPM Flow Control	200	1,600	38,400	LFXN4GPM
		0.50 GPM Flow Control	200	1,600	38,400	LFXN5GPM

LFX 600		22-31 ft (6.7-9.4 m) Radius				
		Description	Ordering Increment	 Case Quantity	 Pallet Quantity	Model
Bodies		ACME LFX Body	200	400	9,600	LFXBACME
		NPT LFX Body	200	400	9,600	LFXBNPT
Deflector Brake Assembly		9 Degree Blue Deflector	200	3,600	43,200	LFXBR9B
		12 Degree Pink Deflector	200	3,600	43,200	LFXBR12P
		15 Degree Purple Deflector	200	3,600	43,200	LFXBR15P
		15 Degree Gold Deflector	200	3,600	43,200	LFXBR15G
Nozzles		65 Gray (0.065", 1.65 mm)	200	1,600	38,400	LFXN65G
		70 White (0.070", 1.78 mm)	200	1,600	38,400	LFXN70W
		78 Dark Blue (0.078", 1.98 mm)	200	1,600	38,400	LFXN78B
		86 Orange (0.086", 2.18 mm)	200	1,600	38,400	LFXN86O
		94 Purple (0.094", 2.39 mm)	200	1,600	38,400	LFXN94P
		102 Yellow (0.102", 2.59 mm)	200	1,600	38,400	LFXN102Y
		0.75 GPM Flow Control	200	1,600	38,400	LFXN7GPM
		1.00 GPM Flow Control	200	1,600	38,400	LFXN1GPM

PART LIST – ACCESSORIES

Guards and Stream Splitters

Description	Product Details	Ordering Increment	Case Quantity	Pallet Quantity	Model
LFX Accessory	Snap-on Edge Guard	20	200	3,600	LFXG
LFX Accessory	Snap-on Single Sided Stream Splitter	50	1,000	9,000	LFXSS1
LFX Accessory	Snap-on Double Sided Stream Splitter	50	1,000	9,000	LFXSS2

Pre-Assembled Stakes with Feedtube

Description	Product Details	Ordering Increment	Case Quantity	Pallet Quantity	Model
1/2" PVC Stake Assembly	24" PVC Stake Assembly with 5 mm 30" Feedtube	100	100	900	LFXPVCA30
1/2" PVC Stake Assembly	24" PVC Stake Assembly with 5 mm 42" Feedtube	100	100	900	LFXPVCA42
3/4" PVC Stake Assembly	24" PVC Stake Assembly with 10 mm 36" Feedtube	75	75	600	LFXPVCA236
3/4" PVC Stake Assembly	24" PVC Stake Assembly with 10 mm 48" Feedtube	75	75	600	LFXPVCA248

Pre-Assembled Stakes with Feedtube and Barb

Description	Product Details	Ordering Increment	Case Quantity	Pallet Quantity	Model
Universal Stake Assembly	Universal Stake Adapter Assembly 5 mm 30" w/ Barb	500	500	2,000	LFX5SAA30
Universal Stake Assembly	Universal Stake Adapter Assembly 5 mm 42" w/ Barb	400	400	2,400	LFX5SAA42
Universal Stake Assembly	Universal Stake Adapter Assembly 10 mm 36" w/ Barb	200	200	1,600	LFX10SAA36
Universal Stake Assembly	Universal Stake Adapter Assembly 10 mm 48" w/ Barb	100	100	800	LFX10SAA48

PART LIST – ACCESSORIES

Stand Alone Adapters, Stakes, and Tubing

Description	Product Details	Ordering Increment	Case Quantity	Pallet Quantity	Model
ACME x NPT Adapter	ACME x 3/8" Male NPT	350	350	31,850	LFXACX38NPT
ACME x NPT Adapter	ACME x 1/2" Male NPT	350	350	31,850	LFXACXNPT
ACME x NPT Adapter	ACME x 1/2" Female NPT	150	150	25,200	ACMEXFPT
ACME x PVC Slip Adapter	ACME x 1/2" and 3/4" Female Slip for PVC	100	100	9,100	LFXACX12
ACME x PVC Slip Adapter	ACME x 20 mm and 25 mm Female Slip for PVC	100	100	9,100	LFXACX20MM
Universal Stake Adapter	Universal Steel and Fiberglass Stake Adapter	100	100	9,100	LFXUSA
Universal Stake Adapter	Universal Metric Steel and Fiberglass Stake Adapter	100	100	9,100	LFXUSAM
Fiberglass Stake	Fiberglass Stake (24" Long, 1/4" Diameter)	300	300	7,200	LFXSF124
Fiberglass Stake	Fiberglass Stake (24" Long, 5/16" Diameter)	300	300	6,300	LFXSF224
Pre-Cut Feedtube with Barb	Pre-cut Feedtube (5 mm 30" Length w/ Barb)	300	300	2,400	LFX5FTA30
Pre-Cut Feedtube with Barb	Pre-cut Feedtube (5 mm 42" Length w/ Barb)	200	200	1,600	LFX5FTA42
Pre-Cut Feedtube with Barb	Pre-cut Feedtube (10 mm 36" w/ Barb)	250	250	2,000	LFX10FTA36
Pre-Cut Feedtube with Barb	Pre-cut Feedtube (10 mm 48" w/ Barb)	250	250	2,000	LFX10FTA48
5mm Blank Tubing	500' Coil of 5 mm Tubing	1	1	32	LFXT550
10mm Blank Tubing	1,000' Coil of 10 mm Tubing	1	1	7	LFXT1010
Transfer Barb	5 mm Barb	1,000	1,000	120,000	LFX05B
Transfer Barb	10 mm Barb	1,000	1,000	50,000	LFX10B
Goof Plug	5 mm Goof Plug	1,000	1,000	30,000	LFXP
Goof Plug	10 mm Goof Plug	1,000	1,000	30,000	LFX10P

PART LIST – ACCESSORIES

LF1200		22-57 ft (6.6 – 11.1 m) Radius			
	Description	Ordering Increment	Case Quantity	Pallet Quantity	Model
Bodies 	NPT Body	100	100	1,200	LFNPTBODY
	ACME Body (adapter required)	100	100	1,200	LFACMEBODY
	ACME Anti-Theft Body (adapter required)	100	100	1,200	LFTHFTBODY
	Anti-Theft Screwdriver	1	144	5,184	LFSCRWDRVR
Drive 	Drive Only	100	100	1,200	LF12DRIVE
Bodies & Drives  	NPT Body with LF1200 Drive	100	100	1,200	LFBD12
	Anti-Theft ACME Body with LF1200 Drive	100	100	1,200	LFBD12THFT
Nozzles 	Blue, 5/64", 0.078", 1.98mm	200	2,000	120,000	LFN05
	Orange, 44 Drill, 0.086", 2.18mm	200	2,000	120,000	LFN44
	Purple, 3/32", 0.094", 2.39mm	200	2,000	120,000	LFN06
	Yellow, 38 Drill, 0.102", 2.59mm	200	2,000	120,000	LFN38
	Green, 7/64", 0.109", 2.76mm	200	2,000	120,000	LFN07
	Tan, 30 Drill, 0.117", 2.97mm	200	2,000	120,000	LFN30
Deflectors 	6° Dk. Purple	200	1,600	62,400	LF12D06P
	10° White	200	1,600	62,400	LF12D10W
	12° Cyan Blue	200	1,600	62,400	LF12D12B
	12° Pink	200	1,600	62,400	LF12D12P
	16° Red	200	1,600	62,400	LF12D16R
	17° Powder Blue	200	1,600	62,400	LF12D17B
	21° Olive Green	200	1,600	62,400	LF12D21G

PART LIST – ACCESSORIES

LF2400		27-45 ft (8.1 – 13.5 m) Radius				
		Description	Ordering Increment	Case Quantity	Pallet Quantity	Model
Bodies		NPT Body	100	100	1,200	LFNPTBODY
		ACME Body (adapter required)	100	100	1,200	LFACMEBODY
		ACME Anti-Theft Body (adapter required)	100	100	1,200	LFTHFTBODY
		Anti-Theft Screwdriver	1	144	5,184	LFSCRWDRVR
Drive		Drive Only	100	100	1,200	LF24DRIVE
Bodies & Drives		NPT Body with LF2400 Drive	100	100	1,200	LFBD24
		Anti-Theft ACME Body with LF2400 Drive	100	100	1,200	LFBD24THFT
Nozzles		Green, 7/64", 0.109", 2.76mm	200	2,000	120,000	LFN07
		Tan, 30 Drill, 0.117", 2.97mm	200	2,000	120,000	LFN30
		Red, 1/8", 0.125", 3.18mm	200	2,000	120,000	LFN08
		Black, 29 Drill, 0.133", 3.38mm	200	2,000	120,000	LFN29
		Silver, 9/64", 0.141", 3.57mm	200	2,000	120,000	LFN09
Deflectors		10° Lime	200	1,600	62,400	LF24D10L
		13° Maroon	200	1,600	62,400	LF24D13M
		15° Tangerine	200	1,600	62,400	LF24D15T
		22° Dark Green	200	1,600	62,400	LF24D22G

LF2400LR		38-50 ft (11.6 – 15.2 m) Radius				
		Description	Ordering Increment	Case Quantity	Pallet Quantity	Model
Bodies		NPT Body	100	100	1,200	LFNPTBODY
		ACME Body (adapter required)	100	100	1,200	LFACMEBODY
		ACME Anti-Theft Body (adapter required)	100	100	1,200	LFTHFTBODY
		Anti-Theft Screwdriver	1	144	5,184	LFSCRWDRVR
Drive		Drive Only	100	100	1,200	LF24DRIVE
Bodies & Drives		NPT Body with LF2400 Drive	100	100	1,200	LFBD24
		Anti-Theft ACME Body with LF2400 Drive	100	100	1,200	LFBD24THFT
Nozzles		Silver, 9/64", 0.141", 3.57mm	200	2,000	120,000	LFN09
		Brown, 5/32", 0.156", 3.97mm	200	2,000	120,000	LFN10
		Dark Grey, 11/64", 0.172", 4.37mm	200	2,000	120,000	LFN11
Deflectors		27° Black	200	1,600	62,400	LFD27B

Impact Sprinklers

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2045-PJ 91

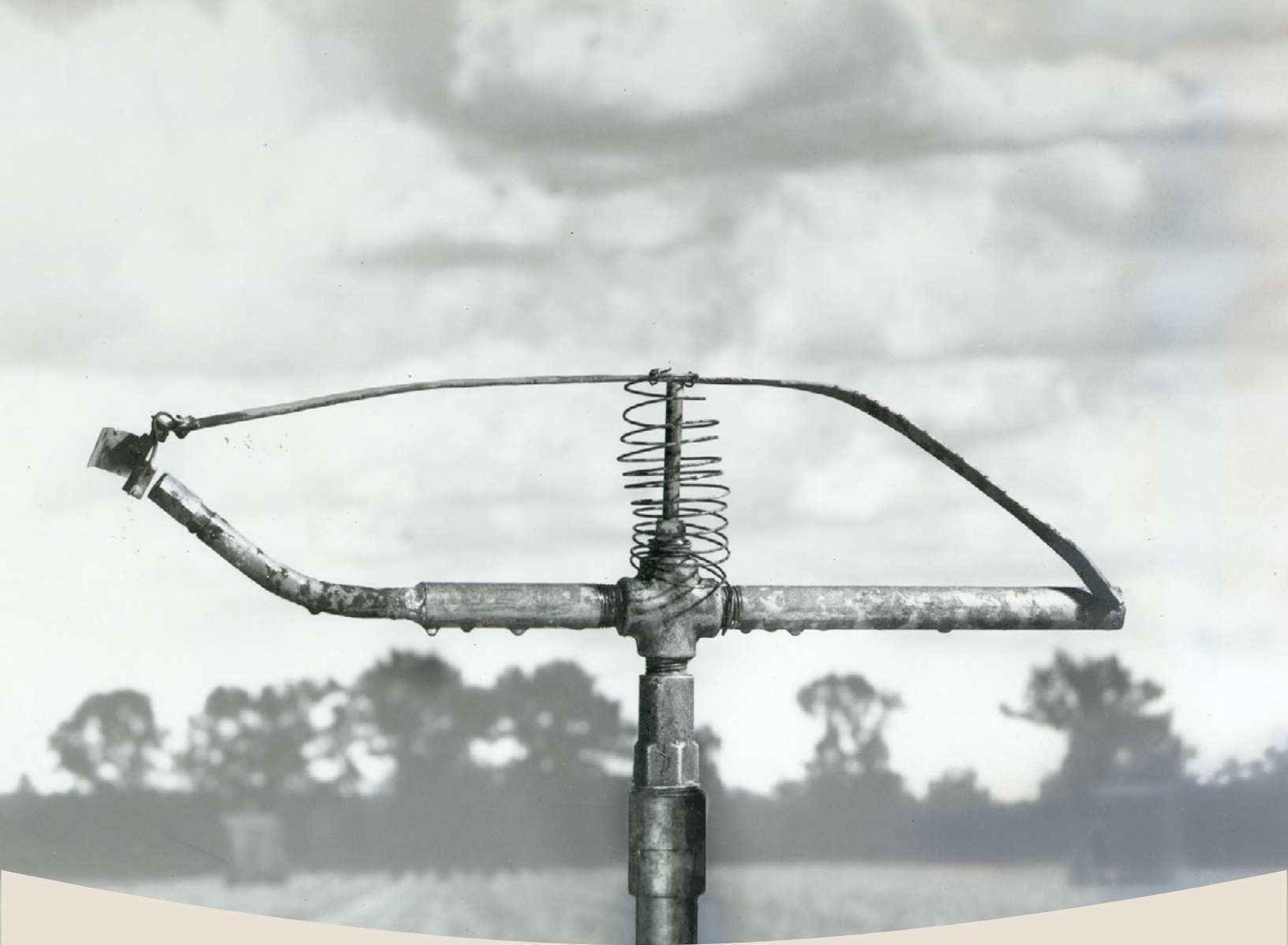
35A-TNT 93

65PJ-ADJ-TNT 95

85EHD Tough Bird® 97

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ORIGINAL RAIN BIRD MODEL 60

The Model 60 was Rain Bird's first production-model, full-circle impact sprinkler. Used for golf course irrigation, agricultural and turf applications, this sprinkler had a one inch bronze bearing and could effectively water a circle up to 110 feet in diameter at 40 psi.

IMPACT SPRINKLERS
INTRODUCTION



Rain Bird® agricultural impact sprinklers have set the industry standard, offering smooth performance and unmatched grit tolerance under the most demanding field conditions.

HOW TO ORDER IMPACT SPRINKLERS



SPRINKLER ONLY		ASSEMBLED SPRINKLER		Factory Combination
Sprinkler Without Nozzle	A01619	Sprinkler With Nozzle SBN-1 5/64"		A0162005

Item Number for
Sprinkler Only

Item Number for Assembled Sprinkler
and Nozzle, When Available

NOZZLE ONLY			XX = Nozzle Size					
		U.S. Standard	1/16"	51 DRILL	5/64"	3/32"	7/64"	1/8"
		Metric	1.59 mm	1.70 mm	1.98 mm	2.38 mm	2.78 mm	3.18 mm
Brass Straight Bore Nozzle	SBN-1	105780-XX	04	51	05	06	07	—

Item Number for Nozzle Only

Available Nozzle Size. Use
This Number to Complete
the Nozzle Item Number

Option Guide (Where Available)

- FP:** Full or Part Circle
- BPJ:** Brass Precision Jet
- ADJ:** Adjustable Nozzle
- DA:** Distance Adjustment
- H:** H Style Bearing Assembly
- TNT:** PTFE, Nylon, PTFE Washer Stack

- PJ:** Precision Jet Spoon
- LA:** Low Angle
- WS:** Single Nozzle Body
- W:** Single Nozzle Spreader Plugged
- E:** Straightening Vane

- LPN:** Low Pressure Nozzle
- LAN:** Low Angle Nozzle Spreader Nozzle
- V:** Wedge
- F:** Frost/Chemically Resistant Washers
- M:** Male Bearing

Quick Reference Selection Guide

Full Circle Impact Sprinklers

					Bearing Size					Throw Radius (ft)																							
					1/2" Male NPT	3/4" Male NPT	1" Female NPT	1" Male NPT	1-1/4" Male NPT	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100							
Model	Drive	Arm	Spreader Nozzle Port	Operating Pressure Range (psi)																													
14VH	Wedge	Brass	No	20-60						29-38																							
20JH	Spoon	Brass	No	35-60						38-44																							
30H	Spoon	Brass	Yes	25-80						40-56																							
30WH	Spoon	Brass	Plugged	25-80						40-56																							
30FH	Spoon	Brass	Yes	25-80						39-43																							
30FWH	Spoon	Brass	Plugged	25-80						39-43																							

Full or Part Circle Impact Sprinklers

					Bearing Size					Throw Radius (ft)																							
Model	Drive	Arm	Spreader Nozzle Port	Operating Pressure Range (psi)	1/2" Male NPT	3/4" Male NPT	1" Female NPT	1" Male NPT	1-1/4" Male NPT																								
					25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120									
2045-PJ	Precision Jet	Plastic	No	25-60	●					22-45																							
25BPJ-FP-ADJ	Precision Jet	Brass	No	30-50	●					38-41																							
25BPJ-FP-ADJ-DA-TNT	Precision Jet	Brass	No	30-50	●					38-41																							
35A-TNT	Spoon	Brass	No	30-60		●				42-51																							
35A-ADJ-TNT	Spoon	Brass	No	30-60		●				42-51																							
65PJ	Precision Jet	Brass	No	50-80			●			57-65																							
85EHD	Spoon	Brass	Yes	25-100					●	61-116																							

The Original Impact Sprinkler

Built to Last

Our sprinklers are more durable and last longer because we don't skimp on materials.

High-Quality Casting

Our manufacturing process utilizes investment casting vs. sand casting, which allows for greater precision and a smooth surface finish. Less porosity in the finish means less chemical intrusion which can weaken the sprinkler over time.

Stainless Steel Springs

Critical to long-lasting performance and durability, our impact springs are made with high-quality stainless steel.

90 Years of Experience

Since our founding in 1933, we have built our brass impacts in our own manufacturing facilities. Our commitment to quality ensures Rain Bird sprinklers will deliver water where it is needed for our community of growers.

5-Year Warranty

Rain Bird brass impact sprinklers carry an industry leading 5-Year warranty.

14VH IMPACT SPRINKLERS

TECHNICAL SPECIFICATIONS



This full circle wedge drive impact sprinkler features a patented, self-cleaning nylon "V" wedge spray deflector. It is uniquely designed to provide smooth, even rotation in low pressure situations with low flow rates. Ideal for dry, desert climates where grit is abundant in the air. When abrasion from grit in these climates causes other types of sprinkler arms to wear out and break, this design allows for replacing only the wedge as it wears, leaving the arm and spring assembly intact.



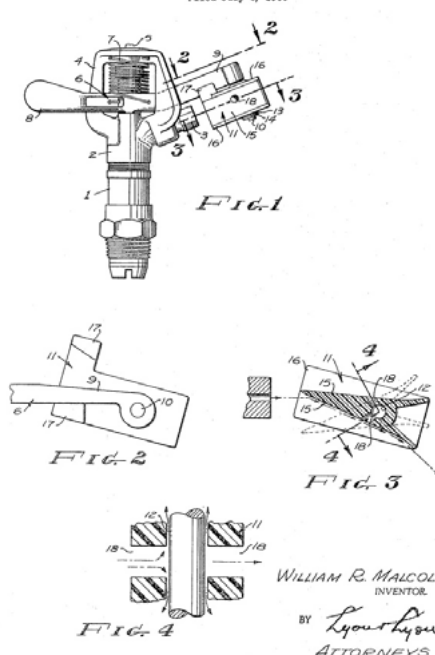
For use with Rain Bird SBN-1
Straight Bore Nozzle (sold separately)

Patented: 1967
US Patent No. 3,309,025

FEATURES

- Ideal for low precipitation rates
- The "V" wedge was designed to provide more uniform close in watering with lower application rates
- Patented, self-flushing wedge drive reduces wear from grit
- Replaceable plastic wedge helps to extend the life of the sprinkler arm

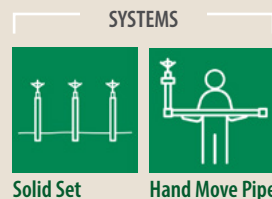
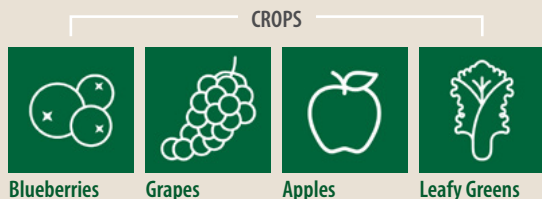
March 14, 1967 W. R. MALCOLM 3,309,025
SELF-CLEANING SPRAY DEFLECTOR WEDGE FOR SPRINKLERS
Filed July 6, 1965



OPERATING RANGE

	Bearing (Male NPT, Brass)	1/2"	13 mm
	Trajectory Angle	23°	
	Operating Range	20 - 60 psi	1.4 - 4.1 bar
	Flow Rate	0.56 - 2.68 gpm	0.14 - 0.61 m³/h
	Radius of Throw	29 to 38 ft	9.0 - 11.70 m
	Nozzle Port	1/8" Female NPT	

APPLICATIONS



14VH IMPACT SPRINKLER PERFORMANCE DATA

HOW TO ORDER

SPRINKLER ONLY		ASSEMBLED SPRINKLER		Factory Combination			
Sprinkler without Nozzle	A01619	Sprinkler with Nozzle SBN-1 5/64"		A0162005			
NOZZLE ONLY		XX = Nozzle Size					
		U.S. Standard	1/16"	51 DRILL	5/64"	3/32"	7/64"
		Metric	1.59 mm	1.70 mm	1.98 mm	2.38 mm	3.18 mm
Brass Straight Bore Nozzle	SBN-1	105780-XX	04	51	05	06	07

Bold nozzle size numbers denote the most common nozzle choices.

PACKAGING DATA

FACTORY-ASSEMBLED QUANTITIES

 CASE: 60  PALLET: 1,440

PART QUANTITIES

PART	MINIMUM ORDER	CASE QUANTITY
Sprinkler	30	60
Nozzle	30	1,980
Wedge & Pin	20	160
Bearing Kit	25	160

Straight Bore Nozzle (SBN-1) Performance*

psi @ Nozzle	NOZZLE SIZE										(Stream Height: 6 ft.)
	1/16"		51 DRILL		5/64"		3/32"		7/64"		
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	
20	-	-	29	0.59	30	0.79	33	1.14	34	1.55	
25	29	0.56	29	0.65	31	0.88	33	1.27	35	1.73	
30	29	0.62	30	0.71	31	0.97	34	1.39	35	1.90	
35	30	0.66	30	0.77	32	1.05	34	1.50	36	2.05	
40	30	0.72	31	0.83	32	1.12	35	1.61	37	2.19	
45	31	0.75	31	0.87	33	1.19	35	1.71	37	2.32	
50	31	0.80	32	0.92	34	1.25	36	1.80	38	2.45	
55	32	0.84	32	0.96	34	1.31	36	1.89	38	2.57	
60	32	0.88	33	1.01	34	1.37	37	1.97	38	2.68	

*Available without Nozzle or Assembled with 5/64" (05) Straight Bore Nozzle.

All other Nozzles must be purchased separately.

20JH IMPACT SPRINKLERS

TECHNICAL SPECIFICATIONS



This sprinkler is the work horse for row crops. Originally designed to operate with pressure as low as 3 PSI (things have changed since this time), this full circle brass impact sprinkler provides excellent performance in low to medium pressure and is known for its reliability and sturdy construction.



For use with the following Rain Bird nozzles (sold separately)

- SBN-1 Straight Bore Nozzle
- SBN-1-V Straight Bore Nozzle with Vane

FEATURES

- Reinforced arm ensures durability
- Spoon drive arm runs on larger nozzles: 7-64"-5/32"
- Available with factory installed nozzles: SBN-1 7/64" or SBN-1 1/8"
- May be used with plastic, non-clog vanes for improved range and wind resistance

OPERATING RANGE

	Bearing (Male NPT, Brass)	1/2"	13 mm
	Trajectory Angle	23°	
	Operating Range	35 - 60 psi	2.4 - 4.1 bar
	Flow Rate	2.05 - 5.47 gpm	0.47 - 1.24 m³/h
	Radius of Throw	38 - 44 ft	11.6 - 13.4 m
	Nozzle Port	1/8" Female NPT	

APPLICATIONS

ROW CROPS

Cabbage

Carrots

Lettuce

Spinach

Onions

Potatoes

Grapes

USEFUL FOR

Frost Protection

Solid Set

Hand Move Pipe

202H IMPACT SPRINKLER PERFORMANCE DATA

HOW TO ORDER

SPRINKLER ONLY		ASSEMBLED SPRINKLER/NOZZLE		Factory Combination		
Sprinkler without Nozzle	A05840	Sprinkler with Nozzle SBN-1 7/64"		A0584107		
		Sprinkler with Nozzle SBN-1 1/8"		A0584108		
NOZZLE ONLY		XX = Nozzle Size				
		U.S. Standard	7/64"	1/8"	9/64"	5/32"
		Metric	2.78 mm	3.18 mm	3.57 mm	3.97 mm
Brass Straight Bore Nozzle	SBN-1	105780-XX	07	08	09	10
Brass Straight Bore Nozzle with Vane	SBN-1-V	106160-XX	—	08	09	10

PACKAGING DATA

FACTORY-ASSEMBLED QUANTITIES		
 CASE: 60		PALLET: 1,440
PART QUANTITIES		
PART	MINIMUM ORDER	CASE QUANTITY
Sprinkler	30	60
Nozzle	30	1,980
Bearing Kit	25	160

Bold nozzle size number denotes the most common nozzle choice.

Straight Bore Nozzle (SBN-1) Performance*

psi @ Nozzle	NOZZLE SIZE							
	7/64"		1/8"		9/64"		5/32"	
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
35	38	2.05	38	2.68	39	3.39	39	4.19
40	38	2.19	39	2.86	40	3.62	39	4.47
45	39	2.32	39	3.03	40	3.84	40	4.73
50	39	2.45	39	3.20	40	4.05	40	5.00
55	39	2.57	40	3.35	40	4.24	40	5.23
60	39	2.68	40	3.50	41	4.43	41	5.47

Straight Bore Nozzle with Vane (SBN-1V)

psi @ Nozzle	NOZZLE SIZE					
	1/8"		9/64"		5/32"	
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
35	39	2.68	41	3.39	42	4.19
40	40	2.86	41	3.62	42	4.47
45	40	3.03	42	4.05	42	4.73
50	41	3.20	42	4.05	43	5.00
55	41	3.35	43	4.24	43	5.23
60	41	3.50	43	4.43	44	5.47

*Available without Nozzle or Assembled with either a 7/64" (07) or 1/8" (08) Straight Bore Nozzle.

All other Nozzles must be purchased separately.

30H / 30WH IMPACT SPRINKLERS

TECHNICAL SPECIFICATIONS



This full circle impact sprinkler is designed for general field use, with widespread application in solid set and hand move systems. Impact Sprinklers starting with a “3” indicate a ¾” bearing. This full circle Model 30 sprinkler is designed to throw more water a longer distance as compared to our 20’s. This sprinkler features two nozzle ports to help with distribution uniformity. The additional “spreader nozzle” helps with close-in watering.



For use with the following Rain Bird nozzles (sold separately)

- SBN-3 Straight Bore Nozzle
- SBN-3-V Straight Bore Nozzle with Vane
- Spreader Port: LAN-1-7, LAN-1-20, or Brass Plug

FEATURES

- Dual nozzle ports ensure good for close in as well as distance irrigation
- Sprinkler can be operated with or without a nozzle in the secondary spreader port
- May be used with plastic, non-clog vanes for improved range and wind resistance
- W = Indicates this sprinkler will come factory assembled with a plug in the spreader port



OPERATING RANGE		
Bearing (Male NPT, Brass)	3/4"	19 mm
Trajectory Angle	27°	
Operating Range	25 - 80 psi	1.7 - 5.5 bar
Flow Rate	2.9 - 13.1 gpm	0.66 - 2.98 m³/h
Radius of Throw	40 - 56 feet	12.20 - 17.23 m
Nozzle Port	1/8" Female NPT	
Spreader Nozzle Port	1/8" Female NPT	

APPLICATIONS

ROW CROPS

Pasture

Alfalfa

Carrots

Cranberries

Potatoes

SYSTEMS

Solid Set

Wheel Lines

Hand Move Pipe

USEFUL FOR

Pivot Corners

30H / 30WH IMPACT SPRINKLER PERFORMANCE DATA

HOW TO ORDER

SPRINKLER ONLY

Sprinkler without Nozzle, without Plug

30H

A08401

Sprinkler without Nozzle, with Plug

30WH

A08411

NOZZLE ONLY

XX = Nozzle Size

			U.S. Standard	3/32"	7/64"	1/8"	9/64"	5/32"	11/64"	3/16"
			Metric	2.38 mm	2.78 mm	3.18 mm	3.57 mm	3.97 mm	4.37 mm	4.76 mm
Brass Straight Bore Nozzle	SBN-3	105842-XX		—	—	—	09	10	11	12
Brass Straight Bore Nozzle with Vane	SBN-3V	106131-XX		—	—	—	09	10	11	12
Brass 7° Low Angle Spreader	LAN-1-7	100225-XX		06	07	08	09	10	—	—
Brass 20° Low Angle Spreader	LAN-1-20	100226-XX		06	07	08	09	10	—	—
Brass Plug		100255								

Bold nozzle size number denotes the most common nozzle choice.

PACKAGING DATA

FACTORY-ASSEMBLED QUANTITIES

CASE: 30

PALLET: 720

PART QUANTITIES

PART	MINIMUM ORDER	CASE QUANTITY
Sprinkler	30	30
Nozzle	30	990
Arm/Spring	10	100
Bearing Kit	25	100

Brass Straight Bore Nozzle (SBN-3) with Plug Performance*

psi @ Nozzle	NOZZLE SIZE							
	9/64"		5/32"		11/64"		3/16"	
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
25	40	2.90	41	3.50	41	4.30	42	5.10
30	40	3.10	42	3.90	44	4.70	45	5.60
35	41	3.40	43	4.20	45	5.10	47	6.00
40	41	3.60	44	4.50	46	5.40	48	6.40
45	42	3.80	44	4.70	46	5.70	49	6.80
50	42	4.10	45	5.00	47	6.10	50	7.20
55	43	4.20	45	5.20	48	6.30	50	7.60
60	43	4.40	46	5.50	48	6.60	51	7.90
65	44	4.60	46	5.80	49	6.90	51	8.20
70	44	4.80	47	5.90	49	7.20	52	8.50
75	45	5.00	47	6.10	50	7.40	52	8.80
80	45	5.10	48	6.30	50	7.70	53	9.10

*Nozzles must be purchased separately.

Brass Straight Bore Nozzle (SBN-3) with Spreader (LAN-1) Performance*

psi @ Nozzle	NOZZLE SIZE (Stream Height: 9 ft.)									
	9/64" x 3/32-7°		5/32" x 3/32-7°		11/64" x 3/32-7°		3/16" x 3/32-7°		3/16" x 1/8-20°	
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
25	40	4.20	41	4.80	41	5.60	42	6.40	42	7.40
30	40	4.60	42	5.30	44	6.10	45	7.00	45	8.10
35	41	4.90	43	5.70	45	6.60	47	7.50	47	8.70
40	41	5.20	44	6.10	46	7.00	48	8.10	48	9.30
45	42	5.60	44	6.50	46	7.40	49	8.50	49	9.90
50	42	5.90	45	6.80	47	7.90	50	9.00	50	10.40
55	43	6.10	45	7.10	48	8.20	50	9.40	50	10.90
60	43	6.40	46	7.40	48	8.60	51	9.90	51	11.40
65	44	6.70	46	7.80	49	8.90	51	10.20	51	11.80
70	44	6.90	47	8.10	49	9.30	52	10.70	52	12.30
75	45	7.20	47	8.30	50	9.60	52	11.00	52	12.70
80	45	7.50	48	8.70	50	10.00	53	11.50	53	13.10

*Nozzles must be purchased separately.

Brass Straight Bore Nozzle with Vane (SBN-3V) with Plug Performance*

psi @ Nozzle	NOZZLE SIZE (Stream Height: 10 ft.)							
	9/64"		5/32"		11/64"		3/16"	
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
25	42	2.90	44	3.50	45	4.30	48	5.10
30	43	3.10	45	3.90	46	4.70	47	5.60
35	44	3.40	46	4.20	47	5.10	49	6.00
40	45	3.60	47	4.50	48	5.40	50	6.40
45	46	3.80	48	4.70	49	5.70	52	6.80
50	46	4.10	49	5.00	50	6.10	53	7.20
55	47	4.20	50	5.20	51	6.30	53	7.60
60	47	4.40	50	5.50	51	6.60	54	7.90
65	48	4.60	51	5.80	52	6.90	55	8.20
70	48	4.80	51	5.90	53	7.20	55	8.50
75	49	5.00	52	6.10	54	7.40	56	8.80
80	50	5.10	52	6.30	55	7.70	56	9.10

*Nozzles must be purchased separately.

Brass Straight Bore Nozzle with vane (SBN-3V) with Spreader (LAN-1) Performance*

psi @ Nozzle	NOZZLE SIZE										(Stream Height: 10 ft.)
	9/64" x 3/32-7°		5/32" x 3/32-7°		11/64" x 3/32-7°		3/16" x 3/32-7°		3/16" x 1/8-20°		
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	
25	42	4.20	44	4.80	45	5.60	45	6.40	46	7.40	
30	43	4.60	45	5.30	46	6.10	47	7.00	47	8.10	
35	44	4.90	46	5.70	47	6.60	49	7.50	49	8.70	
40	45	5.20	47	6.10	48	7.00	50	8.10	50	9.30	
45	46	5.60	48	6.50	49	7.40	52	8.50	52	9.90	
50	46	5.90	49	6.80	50	7.90	53	9.00	53	10.40	
55	47	6.10	50	7.10	51	8.20	54	9.40	54	10.90	
60	47	6.40	50	7.40	51	8.60	54	9.90	54	11.40	
65	48	6.70	51	7.80	52	8.90	55	10.20	55	11.80	
70	48	6.90	51	8.10	53	9.30	55	10.70	55	12.30	
75	49	7.20	52	8.30	54	9.60	56	11.00	56	12.70	
80	50	7.50	52	8.70	55	10.00	56	11.50	56	13.10	

*Nozzles must be purchased separately.

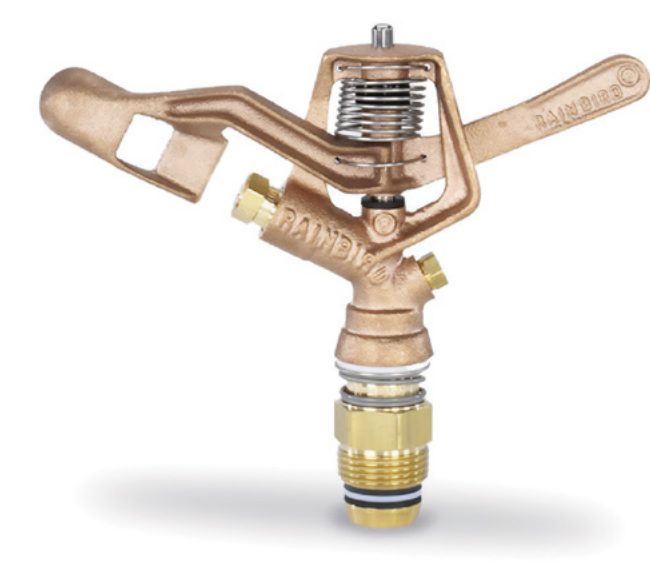


30FH / 30FWH IMPACT SPRINKLERS

TECHNICAL SPECIFICATIONS



The “FH” designation for this Model 30 sprinkler indicates it is optimized for low-temperature operation (“Frost Head”). This version of our Model 30 was designed with a softer spring and modified washer stack to be more durable and perform better for frost protection applications. Its rugged construction assures reliable performance, even in the harshest environments.



For use with the following Rain Bird nozzles (sold separately)

- SBN-3 Straight Bore Nozzle
- Spreader Port: LAN-1-20, or Brass Plug

FEATURES

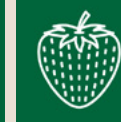
- Dual nozzle ports ensure good for close in as well as distance irrigation
- Sprinkler can be operated with or without a nozzle in the secondary spreader port
- PTFE washers allow for faster rotation times with a smaller nozzle at lower operating temperatures
- W = Indicates this sprinkler will come factory assembled with a plug in the spreader port

OPERATING RANGE

	Bearing (Male NPT, Brass)	3/4"	19 mm
	Trajectory Angle	27°	
	Operating Range	25 - 80 psi	1.7 - 5.5 bar
	Flow Rate	2.26 - 6.47 gpm	0.51 - 1.47 m³/h
	Radius of Throw	39 - 43 feet	11.90 - 13.27 m
	Nozzle Port	1/4" Female NPT	
	Spreader Nozzle Port	1/8" Female NPT	

APPLICATIONS

ROW CROPS



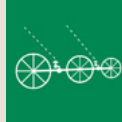
Pasture Alfalfa Carrots Cranberries Strawberries

USEFUL FOR



Frost Protection

SYSTEMS



Solid Set Wheel Lines Hand Move Pipe

30FH / 30FWH IMPACT SPRINKLER PERFORMANCE DATA

HOW TO ORDER

SPRINKLER ONLY

Sprinkler Without Nozzle	30FH	A08401F
Sprinkler Without Nozzle, With Plug	30FWH	A08901F

NOZZLE ONLY

XX = Nozzle Size

		U.S. Standard	3/32"	1/8"
		Metric	2.38 mm	3.18 mm
Brass Straight Bore Nozzle 1/8"	SBN-3	105842-XX	—	08
Brass 20° Low Angle Nozzle 3/32°	LAN-1-20	100226-XX	06	—
Brass Plug	100255			

PACKAGING DATA

FACTORY-ASSEMBLED QUANTITIES

 CASE: 30	 PALLET: 720
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PART QUANTITIES

PART	MINIMUM ORDER	CASE QUANTITY
Sprinkler	30	30
Nozzle	30	990
Arm/Spring	10	100
Bearing Kit	25	100

Bold nozzle size numbers denote the most common nozzle choices.

Straight Bore Nozzle (SBN-3) Performance*

psi @ Nozzle	NOZZLE SIZE (Stream Height: 9 ft.)	
	1/8"	
	Rad. (ft.)	Flow (gpm)
25	39	2.26
30	39	2.48
35	40	2.68
40	40	2.86
45	41	3.03
50	41	3.20
55	42	3.35
60	44	3.50
65	43	3.65
70	43	3.78
75	43	3.91
80	43	4.04

Straight Bore Nozzle (SBN-3) with Spreader (LAN-1-20) Performance*

psi @ Nozzle	NOZZLE SIZE (Stream Height: 9 ft.)	
	1/8" x 3/32-20°	
	Rad. (ft.)	Flow (gpm)
25	39	3.52
30	39	3.87
35	40	4.19
40	40	4.49
45	41	4.77
50	41	5.02
55	42	5.27
60	42	5.51
65	43	5.75
70	43	5.99
75	43	6.23
80	43	6.47

*Nozzles must be purchased separately.

25BPJ-FP-ADJ / 25BPJ-FP-ADJ-DA-TNT

IMPACT SPRINKLERS

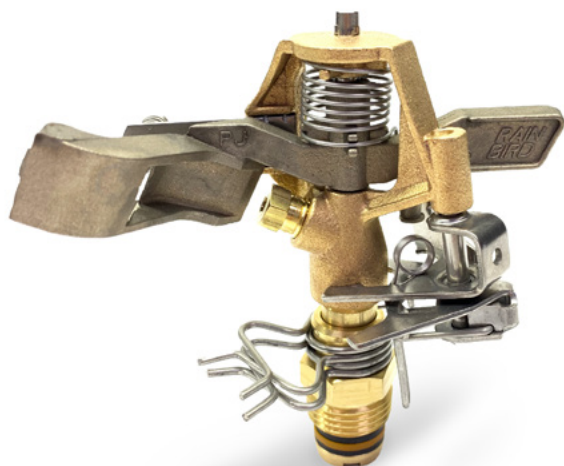
TECHNICAL SPECIFICATIONS



Launched in 1955, the Model 25 was called the “Do-All Impact” because it allowed users to easily change the distance of throw with a single fingertip adjustment to the baffle at the end of the nozzle. In addition, this sprinkler can be switched from a full-circle to part-circle by flipping a simple trip lever up or down.

Our patented Precision-Jet feature eliminates side splash from the oscillating drive arm by redirecting the water stream forward through a novel “S” tube. This helps to prevent overspray in areas you do not want to irrigate. This technology was introduced in 1962 with the launch of our 25PJ.

The TNT bearing on the 25BPJ-FP-ADJ-DA-TNT is designed to seal out sand and silt to help reduce wear and allow sprinklers to operate with less friction.



For use with the following Rain Bird nozzles (sold separately)
• SBN-1 Straight Bore Nozzle

Precision Jet Arm Patented: 1962
US Patent No. 3,022,012

FEATURES

- Set the trip collars to adjust full/part circle coverage between 20 and 360 degree patterns
- Available with two common nozzle sizes factory installed
- Precision Jet (PJ) spoon tightly directs water into the field
- Adjustment (ADJ) pin on the sprinkler arm to control distance for close-in watering
- Do All (DA) adjustment indicates height and distance can be controlled

OPERATING RANGE

 Bearing (Male NPT, Brass)	1/2"	13 mm
 Trajectory Angle	25°	
 Operating Range	30 - 50 psi	2.1 - 3.5 bar
 Flow Rate	3.1 - 5.0 gpm	0.7 - 1.14 m³/h
 Radius of Throw	38 - 41 feet	11.6 - 12.5 m
 Nozzle Port	1/8" Female NPT	

APPLICATIONS



USEFUL FOR



HOW TO ORDER

ASSEMBLED SPRINKLER/NOZZLE

Factory Combination

25BPJ-FP-ADJ w/SBN-1	9/64" 3.57 mm	A32901-09
25BPJ-FP-ADJ w/SBN-1	5/32" 3.97 mm	A32901-10
25BPJ-FP-ADJ-DA-TNT w/SBN-1	9/64" 3.57 mm	A34403-09
25BPJ-FP-ADJ-DA-TNT w/SBN-1	5/32" 3.57 mm	A34403-10

NOZZLE ONLY

XX = Nozzle Size

		U.S. Standard	9/64"	5/32"
		Metric	3.57 mm	3.97 mm
Brass Straight Bore Nozzle	SBN-1	105780-XX	09	10

Bold nozzle size numbers denote the most common nozzle choices.

PACKAGING DATA

FACTORY-ASSEMBLED QUANTITIES

CASE: 30 PALLET: 1,080

PART QUANTITIES

PART	MINIMUM ORDER	CASE QUANTITY
Sprinkler	30	30
Nozzle	30	1,980

Straight Bore Nozzle (SBN-1) Performance*

psi @ Nozzle	NOZZLE SIZE				(Stream Height: 6 ft.)
	9/64"		5/32"		
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	
30	38	3.10	39	3.80	
35	38	3.40	39	4.10	
40	39	3.60	40	4.40	
45	39	3.80	40	4.70	
50	40	4.00	41	5.00	

*Nozzles must be purchased separately.



2045-PJ IMPACT SPRINKLERS

TECHNICAL SPECIFICATIONS



Also known as the Maxi-Bird™, this sprinkler is a work horse for nursery applications. This versatile sprinkler can operate in any range between 20° and 360° and is notable for the wide range of applications for different flow rates and spacings. Known for its smooth rotation at lower pressures, the 2045PJ is also available with low angle nozzles which help to cut through wind.

Our patented Precision-Jet (PJ) feature eliminates side splash from the oscillating drive arm by redirecting the water stream forward through a novel “S” tube. This helps to prevent overspray in areas you do not want to irrigate. This technology was introduced in 1962.



For use with the following Rain Bird nozzles (sold separately)

- PQFN Plastic Quick Fit Straight Bore Nozzle
- PQLAN Low Angle Plastic Quick Fit Straight Bore Nozzle



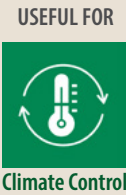
FEATURES

- Durable Delrin™ plastic construction
- Set the trip collars to adjust full/part circle coverage between 20 and 360 degree patterns
- Superior chemical and grit resistance for dirty water applications
- Adjustable screw controls the distance of throw
- Integral straightening vane for greater distance
- Five plastic Quick Fit color-coded nozzles

OPERATING RANGE

 Bearing (Male NPT, Plastic)	1/2"	13 mm
 Trajectory Angle	Standard 23°	Low Angle 10° available
 Operating Range	25 - 60 psi	1.7 - 4.1 bar
 Flow Rate	1.4 - 8.4 gpm	0.34 - 1.91 m³/h
 Radius of Throw	22 - 45 feet	6.7 - 13.7 m
 Nozzle	QuickFit Nozzle Port	

APPLICATIONS



2045-PJ IMPACT SPRINKLER PERFORMANCE DATA

HOW TO ORDER

ASSEMBLED SPRINKLER/NOZZLE

Factory Combination

Sprinkler With Nozzle **2045-PJ-AG**

B4610008

The assembled sprinkler comes with a blue 1/8" nozzle. Other nozzles are available on request at no charge.

NOZZLE ONLY

XX = Nozzle Size

			U.S. Standard	3/32"	7/64"	1/8"	5/32"	3/16"
			Metric	2.38 mm	2.78 mm	3.18 mm	3.97 mm	4.76 mm
Plastic Quick-Fit Straight Bore Nozzle	PQFN	206592-XX		06	07	08	10	12
Low Angle Quick-Fit Nozzle	PQLAN	115902-XX		—	07	—	10	—

PACKAGING DATA

FACTORY-ASSEMBLED QUANTITIES

 CASE: 20

 PALLET: 1,300

PART QUANTITIES

PART	MINIMUM ORDER	CASE QUANTITY
Sprinkler	20	20

Bold nozzle size numbers denote the most common nozzle choices.

Plastic Quick Fit Straight Bore Nozzle (PQFN)*

psi @ Nozzle	NOZZLE SIZE										(Stream Height: 6 ft.)
	3/32" Red		7/64" Black		1/8" Blue		5/32" Yellow		3/16" Beige		
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	
25	-	-	32	2.20	35	2.80	38	4.20	39	5.50	
35	37	2.00	37	2.70	38	3.30	41	4.80	42	6.30	
45	38	2.30	39	3.00	40	3.70	42	5.40	44	7.10	
55	38	2.50	41	3.30	41	4.10	43	6.00	45	7.90	
60	38	2.60	41	3.50	42	4.20	44	6.40	45	8.40	

*Shipped Assembled with a 1/8" (08) Straight Bore Nozzle.

Low Angle Quick Fit Nozzle (PQLAN)

psi @ Nozzle	NOZZLE SIZE				(Stream Height: 3 ft.)
	7/64" Black		5/32" Yellow		
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	
25	22	1.5	25	3.4	
35	23	1.9	29	4.0	
45	25	2.1	31	4.0	
55	25	2.3	32	5.0	
60	25	2.4	32	5.4	

35A-TNT IMPACT SPRINKLERS

TECHNICAL SPECIFICATIONS



Primarily used in nursery and greenhouse application, the Model 35 is a durable and versatile sprinkler. A simple trip arm converts the sprinkler from part circle to full circle operation. This sprinkler is also valuable when used in combo with a gun at the end of a pivot for close in watering. The TNT bearing is designed to seal out sand and silt to help reduce wear and allow sprinklers to operate with less friction.

Our patented Precision-Jet (PJ) feature eliminates side splash from the oscillating drive arm by redirecting the water stream forward through a novel “S” tube. This helps to prevent overspray in areas you do not want to irrigate. This technology was introduced in 1962.



For use with the following Rain Bird nozzles (sold separately)

- ADJN-3 Nozzle
- KHN-3 Nozzle with keyhole design

Precision Jet Arm Patented: 1962
US Patent No. 3,022,012

FEATURES

- Sealed bearing assembly to reduce friction and wear
- Set the trip arm to adjust full/part circle coverage between 20 and 360 degree patterns
- Available with or without a Precision Jet (PJ) arm
- Adjustable Nozzle (ADJN) includes adjustment pin to control distance for close-in watering
- Keyhole Nozzle (KHN) is best suited for model with Precision Jet (PJ) arm

OPERATING RANGE

 Bearing (Male NPT, Brass)	3/4"	19 mm
 Trajectory Angle	27°	
 Operating Range	30 - 60 psi	2.1 - 4.1 bar
 Flow Rate	3.9 - 7.8 gpm	0.89 - 1.77 m³/h
 Radius of Throw	42 - 51 feet	12.8 - 15.5 m
 Nozzle Port	1/4" Female NPT	

APPLICATIONS

USEFUL FOR


Climate Control


Wet Decks


Dust Mitigation

LOCATIONS

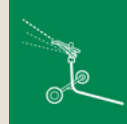

Greenhouse


Nursery


Can Yards

SYSTEMS


Solid Set


Travelers


Small Gun Carts

35A-TNT IMPACT SPRINKLER PERFORMANCE DATA

HOW TO ORDER

SPRINKLER ONLY

Sprinkler Without Nozzle	35A-TNT	A39200
Sprinkler Without Nozzle	35A-PJ-TNT	A39400

NOZZLE ONLY

XX = Nozzle Size

			U.S. Standard	5/32"	11/64"	3/16"
			Metric	3.97 mm	4.37 mm	4.76 mm
Brass Straight Bore Adjustable Nozzle	ADJN-3	100328-XX		10	11	12
Brass Keyhole Nozzle	KHN-3	106353-XX		10	11	

Bold nozzle size numbers denote the most common nozzle choices.

PACKAGING DATA

FACTORY-ASSEMBLED QUANTITIES

 CASE: 12	 PALLET: 288
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PART QUANTITIES

PART	MINIMUM ORDER	CASE QUANTITY
Sprinkler	12	12
Nozzle	15	225
Arm/Spring	25	100
Trip Assembly	1	50

Adjustable Straight Bore Nozzle (ADJN-3)

psi @ Nozzle	NOZZLE SIZE						(Stream Height: 9 ft.)
	5/32"		11/64"		3/16"		
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	
30	42	3.90	43	4.60	44	5.50	
45	43	4.20	44	5.00	46	6.00	
40	44	4.50	45	5.40	47	6.40	
45	44	4.70	46	5.70	48	6.80	
50	45	5.00	47	6.00	49	7.20	
55	45	5.20	48	6.30	50	7.50	
60	46	5.40	48	6.60	51	7.80	

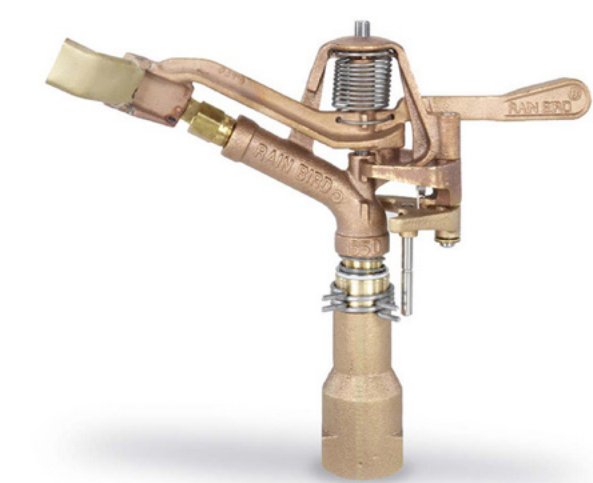
65PJ-ADJ-TNT IMPACT SPRINKLERS

TECHNICAL SPECIFICATIONS



Launched in 1936, the main benefit of this sprinkler is that it can be quickly adjusted to water any range from 20° to 340°. The design of this sprinkler has changed over the last 80+ years, but its flexibility has not. In fact, the 65 has become smarter with the addition of Precision-Jet Technology.

Our patented Precision-Jet feature eliminates side splash from the oscillating drive arm by redirecting the water stream forward through a novel “S” tube. This helps to prevent overspray in areas you do not want to irrigate. This technology was introduced in 1962. The TNT bearing is designed to seal out sand and silt to help reduce wear and allow sprinklers to operate with less friction.

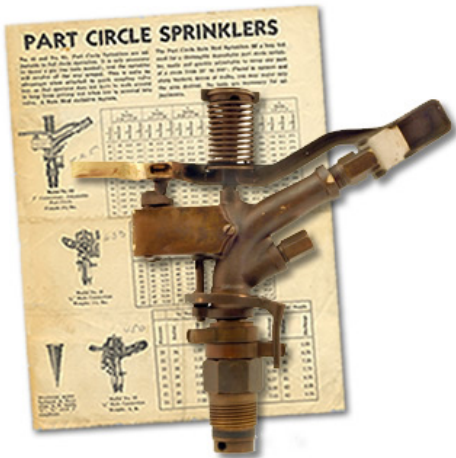


For use with the following Rain Bird nozzles (sold separately)

- ADJN-4 Straight Bore Adjustable Nozzle

FEATURES

- Sealed bearing assembly to reduce friction and wear
- Set the trip collars to adjust full/part circle coverage between 20 and 360 degree patterns
- Available with or without a Precision Jet (PJ) arm
- Adjustable Nozzle (ADJN) includes adjustment pin to control distance for close-in watering



Precision Jet Arm Patented: 1962
US Patent No. 3,022,012

OPERATING RANGE

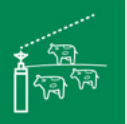
	Bearing (Female NPT, Brass)	1"	25 mm
	Trajectory Angle	27°	
	Operating Range	50 - 80 psi	3.5 - 5.5 bar
	Flow Rate	12.9 - 16.5 gpm	2.93 - 3.75 m³/h
	Radius of Throw	57 - 65 feet	17.4 - 19.8 m
	Nozzle Port	3/8" Female NPT	

APPLICATIONS

USEFUL FOR


Frost Protection


Wet Decks


Dust Mitigation

LOCATIONS


Greenhouse


Nursery


Can Yards

SYSTEMS


Travelers


Small Gun Carts

 HOW TO ORDER

SPRINKLER ONLY		ASSEMBLED SPRINKLER		Factory Combination
Sprinkler Without Nozzle	AG2001	Sprinkler With Nozzle	65PJ-ADJ-TNT	A4200316
NOZZLE ONLY		XX = Nozzle Size		
		U.S. Standard	1/4"	
		Metric	6.35 mm	
Brass Straight Bore Adjustable Nozzle	ADJN-4	100385-XX	16	

Bold nozzle size numbers denote the most common nozzle choices.

 PACKAGING DATA

FACTORY-ASSEMBLED QUANTITIES

 CASE: 5  PALLET: 90

PART QUANTITIES

PART	MINIMUM ORDER	CASE QUANTITY
Sprinkler	1	5
Nozzle	15	150
Bearing Kit	5	10
Trip Assembly	1	50

Adjustable Straight Bore Nozzle (ADJN-4) Performance

psi @ Nozzle	NOZZLE SIZE		(Stream Height: 9.5–14 ft.)
	1/4"		
	Rad. (ft.)		Flow (gpm)
50	57		12.90
55	57		13.60
60	58		14.20
65	62		14.80
70	63		15.40
75	64		16.00
80	65		16.50

Available without Nozzle or assembled with a 1/4" (16) Straight Bore Nozzle

85EHD TOUGH BIRD®
TECHNICAL SPECIFICATIONS



The Tough Bird is our largest and most durable impact sprinkler. It is widely used for pasture irrigation, dust mitigation and as an end gun on center pivot machines. The additional “spreader nozzle” helps with close-in watering.



For use with the following Rain Bird nozzles (sold separately)

- SBN-5 Straight Bore Nozzle
- Spreader port: LAN-1-20 or brass plug

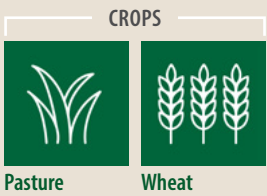
FEATURES

- Can be operated with a nozzle or plug in the spreader port
- Integral straightening vanes for greater distance
- Stainless steel buttons protect trip mechanism from wear

OPERATING RANGE

	Bearing (Male NPT, Brass)	1 1/4"	32 mm
	Trajectory Angle	23°	
	Operating Range	25 - 100 psi	1.7 - 6.9 bar
	Flow Rate	17.1 - 127.7 gpm	3.88 - 29 m³/h
	Radius of Throw	61 - 116 feet	18.6 - 35.4 m
	Nozzle Port	3/4" Female NPT	
	Spreader Nozzle Port	1/8" Female NPT	

APPLICATIONS



85EHD TOUGH BIRD® IMPACT SPRINKLER PERFORMANCE DATA

HOW TO ORDER

SPRINKLER ONLY

Sprinkler without Nozzle, without Plug

A23600

NOZZLE ONLY

XX = Nozzle Size

U.S. Standard			7/32"	11/32"	3/8"	13/32"	7/16"	15/32"	1/2"	17/32"	9/16"	5/8"	11/16"
Metric			5.56 mm	8.7 mm	9.5 mm	10.3 mm	11.1 mm	11.9 mm	12.7 mm	13.5 mm	14.3 mm	15.9 mm	17.5 mm
Brass Straight Bore Nozzle	SBN-5	103043-XX	—	22	24	26	28	30	32	34	36	40	44
Brass 20° Low Angle Spreader Nozzle	LAN-1-20	100226-XX	14	—	—	—	—	—	—	—	—	—	—
1/8" Male NPT Plug for Spreader Port		100255											

Bold nozzle size number denotes the most common nozzle choice.

PACKAGING DATA

FACTORY-ASSEMBLED QUANTITIES

CASE: 5

PALLET: 90

PART QUANTITIES

PART	MINIMUM ORDER	CASE QUANTITY
Sprinkler	1	2
Nozzle	10	1,000
Brass Plug	10	1,500
Bearing Kit	5	10
Arm/Spring	10	30
Trip Assembly	1	50
Trip Hardware Kit	5	30

Straight Bore Nozzle (SBN-5) with Plug Performance*

psi @ Nozzle	NOZZLE SIZE																		(Stream Height: 14 ft.)			
	11/32"		3/8"		13/32"		7/16"		15/32"		1/2"		17/32"		9/16"		5/8"		11/16"			
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)		
25	61	17.10	62	20.30	64	23.40	66	26.70	66	30.30	66	33.80	66	37.10	66	42.30	66	51.50	66	61.90		
30	64	18.80	65	22.30	68	25.70	69	29.30	72	33.20	73	37.10	73	40.80	73	46.40	73	56.50	73	68.10		
35	67	20.30	68	24.10	72	27.80	74	31.70	77	35.90	79	40.10	79	44.10	79	50.20	79	61.10	79	73.80		
40	69	21.80	71	25.80	75	29.70	77	33.90	80	38.50	83	42.90	83	47.20	86	53.70	86	65.40	86	79.20		
45	71	23.10	73	27.40	77	31.60	79	36.00	82	40.80	85	45.60	88	50.10	90	57.10	92	69.50	92	84.20		
50	73	24.40	75	28.90	79	33.30	81	38.00	84	43.10	87	48.10	90	52.90	94	60.20	95	73.30	97	88.90		
55	75	25.50	77	30.30	81	34.90	83	39.70	86	45.30	89	50.30	92	55.60	96	63.20	99	77.30	100	93.50		
60	77	25.80	79	30.80	83	35.90	86	41.60	88	47.40	91	53.00	94	58.80	97	65.50	101	80.10	104	97.80		
65	79	26.90	81	32.00	84	37.40	87	43.30	90	49.90	93	55.30	96	61.20	99	69.40	102	84.40	106	102.00		
70	81	28.10	83	33.30	86	38.90	89	45.10	91	51.40	94	57.50	98	63.50	101	72.20	104	87.80	108	106.00		
75	82	29.20	84	34.50	87	40.30	90	46.80	93	53.30	96	59.60	99	65.80	102	74.90	105	91.00	109	109.90		
80	83	30.40	86	35.70	89	41.80	92	48.40	94	55.10	97	61.60	101	68.10	104	77.50	107	94.10	110	113.70		
85	85	31.50	87	37.00	90	43.20	93	50.00	96	56.90	99	63.50	102	70.30	105	80.00	108	97.10	112	117.30		
90	86	32.70	89	38.30	92	44.60	95	51.50	97	58.50	100	65.30	104	72.40	106	82.20	110	99.90	113	120.90		
95	87	33.90	90	39.50	93	46.00	96	53.00	98	60.00	101	67.10	105	74.40	108	84.30	111	102.60	115	124.30		
100	88	34.00	91	40.70	94	47.40	97	54.50	99	61.50	102	68.90	106	76.40	109	87.20	112	105.20	116	127.70		

*Nozzles must be purchased separately.

Straight Bore Nozzle (SBN-5) and Spreader (LAN-1-20) Performance*

psi @ Nozzle	NOZZLE SIZE										(Stream Height: 14 ft.)
	11/32" x 7/32-20°		3/8" x 7/32-20°		13/32" x 7/32-20°		7/16" x 7/32-20°		15/32" x 7/32-20°		
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	
25	61	23.30	62	26.50	64	29.60	66	32.90	66	36.40	
30	64	25.60	65	29.10	68	32.40	69	36.10	72	40.00	
35	67	27.70	68	31.40	72	35.10	74	39.00	77	43.30	
40	69	29.60	71	33.60	75	37.60	77	41.80	80	46.30	
45	71	31.50	73	35.70	77	39.90	79	44.40	82	49.20	
50	73	33.20	75	37.70	79	42.10	81	46.80	84	51.90	
55	75	34.90	77	39.70	81	44.30	83	49.10	86	54.70	
60	77	36.50	79	41.40	83	46.60	86	51.50	88	57.20	
65	79	38.00	81	43.20	84	48.60	87	53.80	90	59.80	
70	81	40.10	83	44.90	86	50.40	89	55.90	91	62.10	
75	82	41.00	84	46.70	87	52.40	90	57.90	93	64.30	
80	83	42.60	86	48.30	89	54.30	92	60.00	94	66.70	
85	85	43.80	87	49.80	90	56.00	93	62.00	96	68.80	
90	86	45.70	89	51.40	92	57.90	95	63.90	97	70.70	
95	87	46.60	90	53.00	93	59.60	96	65.80	98	72.80	
100	88	47.90	91	54.50	94	61.20	97	67.50	99	74.80	

*Nozzles must be purchased separately.

IMPACT SPRINKLER PART LIST

INFORMATION



Nozzles				
	Description	Minimum Order Increment	Product ID	Model
ADJ-3 Nozzles	ADJ-3, NOZZLE, 5/32	15	10032810	ADJ3-5/32
	ADJ-3, NOZZLE, 11/64	15	10032811	ADJ3-11/64
	ADJ-3, NOZZLE, 3/16	15	10032812	ADJ3-3/16
ADJ-4 Nozzles	ADJ-4, NOZZLE, 1/4	15	10038516	ADJ4-1/4
Brass Plugs	PLUG FOR MODEL 30/46/85	30	100255	PLUG1
	PLUG, MODEL 70	20	100417	PLUG4
	SPREADER BUSHING, MODEL 70	20	100418	SPB1
LAN-1 Nozzles	LAN-1, NOZZLE, 7DEG, 3/32	20	10022506	LAN1-7-3/32
	LAN-1, NOZZLE, 7DEG, 7/64	20	10022507	LAN1-7-7/64
	LAN-1, NOZZLE, 7DEG, 1/8	20	10022508	LAN1-7-1/8
	LAN-1, NOZZLE, 7DEG, 9/64	20	10022509	LAN1-7-9/64
	LAN-1, NOZZLE, 7DEG, 5/32	20	10022510	LAN1-7-5/32
	LAN-1, NOZZLE, 20DEG, 3/32	20	10022606	LAN1-20-3/32
	LAN-1, NOZZLE, 20DEG, 7/64	20	10022607	LAN1-20-7/64
	LAN-1, NOZZLE, 20DEG, 1/8	20	10022608	LAN1-20-1/8
	LAN-1, NOZZLE, 20DEG, 9/64	20	10022609	LAN1-20-9/64
	LAN-1, NOZZLE, 20DEG, 5/32	20	10022610	LAN1-20-5/32
	LAN-1, NOZZLE, 20DEG, 7/32	20	10022614	LAN1-20-7/32
	LAN-1, NOZZLE, 12DEG, 1/8	20	10062208	LAN1-12-1/8
SBN-1 Nozzles	SBN-1, NOZZLE, VANE ONLY	30	101618	SBN1-NOZVANE
	SBN-1, NOZZLE, 1/16	30	10578004	SBN1-1/16
	SBN-1, NOZZLE, 5/64	30	10578005	SBN1-5/64
	SBN-1, NOZZLE, 3/32	30	10578006	SBN1-3/32
	SBN-1, NOZZLE, 7/64	30	10578007	SBN1-7/64
	SBN-1, NOZZLE, 1/8	30	10578008	SBN1-1/8
	SBN-1, NOZZLE, 9/64	30	10578009	SBN1-9/64
	SBN-1, NOZZLE, 5/32	30	10578010	SBN1-5/32
	SBN-1V, NOZZLE, 1/8	20	10616008	SBN1V-1/8
	SBN-1V, NOZZLE, 9/64	20	10616009	SBN1V-9/64
	SBN-1V, NOZZLE, 5/32	20	10616010	SBN1V-5/32

Nozzles				
	Description	Minimum Order Increment	Product ID	Model
SBN-3 Nozzles	SBN-3, NOZZLE, VANE ONLY	30	105816	SBN3-NOZVANE
	SBN-3, NOZZLE, 3/32	30	10584206	SBN3-3/32
	SBN-3, NOZZLE, 7/64	30	10584207	SBN3-7/64
	SBN-3, NOZZLE, 1/8	30	10584208	SBN3-1/8
	SBN-3, NOZZLE, 9/64	30	10584209	SBN3-9/64
	SBN-3, NOZZLE, 5/32	30	10584210	SBN3-5/32
	SBN-3, NOZZLE, 11/64	30	10584211	SBN3-11/64
	SBN-3, NOZZLE, 3/16	30	10584212	SBN3-3/16
	SBN-3, NOZZLE, 13/64	30	10584213	SBN3-13/64
	SBN-3, NOZZLE, 7/32	30	10584214	SBN3-7/32
	SBN-3, NOZZLE, 15/64	30	10584215	SBN3-15/64
	SBN-3V, NOZZLE, 7/64	20	10613107	SBN3V-7/64
	SBN-3V, NOZZLE, 1/8	20	10613108	SBN3V-1/8
	SBN-3V, NOZZLE, 9/64	20	10613109	SBN3V-9/64
	SBN-3V, NOZZLE, 5/32	20	10613110	SBN3V-5/32
	SBN-3V, NOZZLE, 11/64	20	10613111	SBN3V-11/64
	SBN-3V, NOZZLE, 3/16	20	10613112	SBN3V-3/16
	SBN-3V, NOZZLE, 13/64	20	10613113	SBN3V-13/64
	SBN-3V, NOZZLE, 7/32	20	10613114	SBN3V-7/32
	SBN-3V, NOZZLE, 15/64	20	10613115	SBN3V-15/64
	SBN-3V, NOZZLE, 1/4	20	10613116	SBN3V-1/4
	SBN-3V, NOZZLE, 17/64	20	10613117	SBN3V-17/64
	SBN-3V, NOZZLE, 9/32	20	10613118	SBN3V-9/32
SBN-4 Nozzles	SBN-4, NOZZLE, 3/16	20	10038212	SBN4-3/16
	SBN-4, NOZZLE, 7/32	20	10038214	SBN4-7/32
	SBN-4, NOZZLE, 1/4	20	10038216	SBN4-1/4
	SBN-4, NOZZLE, 9/32	20	10038218	SBN4-9/32
	SBN-4, NOZZLE, 5/16	20	10038220	SBN4-5/16
	SBN-4, NOZZLE, 11/32	20	10038222	SBN4-11/32
	SBN-4, NOZZLE, 3/8	20	10038224	SBN4-3/8
	SBN-4, NOZZLE, 13/32	20	10038226	SBN4-13/32

PART LIST

Nozzles

	Description	Minimum Order Increment	Product ID	Model
SBN-5 Nozzles	SBN-5, NOZZLE, VANE ONLY	30	101275	SBN5-NOZVANE
	SBN-5, NOZZLE, 11/32	10	10304322	SBN5-11/32
	SBN-5, NOZZLE, 3/8	10	10304324	SBN5-3/8
	SBN-5, NOZZLE, 13/32	10	10304326	SBN5-13/32
	SBN-5, NOZZLE, 7/16	10	10304328	SBN5-7/16
	SBN-5, NOZZLE, 15/32	10	10304330	SBN5-15/32
	SBN-5, NOZZLE, 1/2	10	10304332	SBN5-1/2
	SBN-5, NOZZLE, 17/32	10	10304334	SBN5-17/32
	SBN-5, NOZZLE, 9/16	10	10304336	SBN5-9/16
	SBN-5, NOZZLE, 5/8	10	10304340	SBN5-5/8
	SBN-5, NOZZLE, 11/16	10	10304344	SBN5-11/16

Arm/Spring Parts

	Description	Minimum Order Increment	Product ID	Model
Arm/Spring Parts	SPRING ADJUSTING PIN, MODEL 20/25/35	30	100136	SPRINGPIN
	WEDGE & PIN, 14-VH	20	111188	14WEDGE
	ARM/SPRING ASSY, MODEL 35A-TNT	25	177468	ARMSPR35A
	ARM/SPRING ASSY, MODEL 35-PJ	25	177469	ARMSPR35PJ
	ARM/SPRING ASSY, MODEL 85	10	177470	ARMSPR85
	ARM/SPRING ASSY, MODEL 25-PJ	25	177507	ARMSPR25PJ
	ARM/SPRING ASSY, MODEL 65-PJ	2	177508	ARMSPR65PJ
	ARM/SPRING ASSY, MODEL 30H	10	177529	ARMSPR30H

Bearing Assemblies

	Description	Minimum Order Increment	Product ID	Model
Bearing Assemblies	BEARING ASSY, MODEL 25TNT	10	110950	BRGASSY25TNT
	BEARING ASSY, MODEL 20JH	25	177422	BRGASSY20JH
	BEARING ASSY, MODEL 30FH	25	177425	BA30FH
	BEARING ASSY, MODEL 14VH	25	177446	BRGASSY14VH
	BEARING ASSY, MODEL 35	25	177473	BRGASSY35
	BEARING ASSY, MODEL 85	5	177474	BRGASSY85
	BEARING ASSY, MODEL 65	5	177475	BRGASSY65
	BEARING ASSY 14VH L20VH	25	177535	BA14VL20VH
	BEARING ASSY, MODEL 30H	25	180712	BRGASSY30H
	BEARING ASSY, MODEL 30H BOG	25	180712BOG	BRGASSY30HBOG

PART LIST

Bearing Nipples / Sleeves

	Description	Minimum Order Increment	Product ID	Model
Bearing Nipples/Sleeves	BEARING SLEEVE, MODEL 35	10	177466	BRGSLV35
	BEARING NIPPLE, MODEL 35	25	177504	BRGNPL35
	BEARING NIPPLE, MODEL 85	5	177506	BRGNPL85
	BEARING SLEEVE, MODEL 14/20	25	177510	BRGSLV1420
	BEARING SLEEVE, MODEL 80/85	5	177515	BRGSLV85
	BEARING NIPPLE, MODEL 14/20	25	177516	BRGNPL1420
	BEARING NIPPLE, MODEL 65/70	5	177518	BRGNPL6570

Bearing Washers

	Description	Minimum Order Increment	Product ID	Model
Bearing Washers	BEARING WASHER, MODEL 20JH	25	177445	BRGWSHR20JH
	BEARING WASHER, MODEL 30FH	25	177448	BRGWSHR30FH
	BEARING WASHER, MODEL 30H	25	180703	BRGWSHR30H
	BEARING WASHER, MODEL 30H BOG	25	180703BOG	BRGWSHR30HBOG

Fulcrum Kits

	Description	Minimum Order Increment	Product ID	Model
Fulcrum Kits	FULCRUM KIT, MODEL 20	25	177415	FULKIT20
	FULCRUM KIT, MODEL 14	25	177416	FULKIT14
	FULCRUM KIT, MODEL 65/70	10	177420	FULKIT6570
	FULCRUM KIT, MODEL 80/85	10	177421	FULKIT80/85

Trip Mechanisms

	Description	Minimum Order Increment	Product ID	Model
Trip Mechanisms	TRIP ASSY, UPPER, MODEL 65	1	100370	UPRTRIP65
	TRIP ASSY, LOWER, MODEL 65	1	100373	LWRTRIP65
	TRIP COLLAR, MODEL 65	10	105774	TRIPCOLLAR65
	LOWER FRICTION COLLAR, MODEL 85	5	107960	LWRCOLLAR85
	TRIP LEVER, MODEL 25	10	109484	LEVERTRIP2
	TRIP ASSY, LOWER, MODEL 85	1	111129	LWRTRIP85
	TRIP ASSY, UPPER, MODEL 85	1	111130	UPRTRIP85
	TRIP ASSY, COMPLETE, MODEL 35A-TNT	1	114653	TRIPASSY35A
	TRIP HARDWARE KIT, MODEL 85	5	179992	TRIPKIT85
	COLLAR KIT, COMPLETE, MODEL 85	5	179993	COLLARKIT85

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For over ninety years, we've been developing new and innovative products that water more intelligently. Rain Bird has been awarded hundreds of patents for innovative irrigation products and technologies that are used in over 130 countries around the world to irrigate nearly every imaginable crop. Rain Bird is committed to increasing irrigation efficiency, minimizing maintenance costs, and enhancing crop health through The Intelligent Use of Water™.

Stay in touch

Rain Bird Agriculture
970 West Sierra Madre Avenue
Azusa, CA 91702
1-800-HELLO-AG

Rain Bird Corporation
6991 E. Southpoint Road
Tucson, AZ 85756
www.rainbird.com

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