

Pop-Up Sprays & Nozzles

Small to Medium Area Sprinklers



Introduction

Pop-Up Sprays
& Nozzles

Rotors

Impact Sprinklers

Timers

Valves

Accessories

Drip Irrigation

Hose End Products

Design Service



Pop-Up Sprays & Nozzles

Featuring #1 Selling Pop-Up Sprinklers*

Proven dependability, preferred by irrigation professionals.

Professional grade, installed in more homes and commercial properties than any other brand.

Overview

Choice of pop-up heights from 2" to 12", spray distances from 4' – 18'

Complete interchangeability in nozzles for uniform coverage in every zone

All pop-up sprays feature an exclusive pressure-activated wiper seal to prevent leaks

Exclusive!

"HEVAN" high efficiency nozzles provide full adjustability along with water savings

Water Saving Nozzles

- 360° Dual Spray™
- 180° Dual Spray™
- 90° Dual Spray™
- High Efficiency Adjustable (HEVAN)

Standard Nozzles (MPR)**

- Adjustable Pattern
- 360° Circle
- 180° Half Circle
- 90° Quarter Circle
- End Strip
- Center Strip
- Side Strip

No Nozzle



Spray Head Selections	1800° Series				Sure Pop®
Model Prefix	1802	1803	1804	1806 / 1812	SP25 / SP40
Pop-up Height	2"	3"	4"	6" / 12"	2.5" / 4"
Matched Precipitation Rate (MPR) Nozzles					
Water Saving Nozzles					
Pressure Regulated with Check Valve					
Page	4-5	4-5	3-5	5	6

*Rain Bird 1800 Series sprinklers

**Matched Precipitation Rate (MPR)



MAXIMUM WATER SAVINGS 1800® SERIES **HEVAN NOZZLE WITH PRS & SAM**

- » All the best water saving features in one rugged sprinkler
- » Maintains uniform, wind-resistant coverage in all conditions
- » Use with any water pressures, steep slopes up to 14 feet elevation change

Pop-Up Sprays
& Nozzles

Benefits

1. Stops high-pressure misting

PRS Regulator Stem

Optimized Pressure for Best Nozzle Performance



Without PRS
Misting, Fogging

2) Prevents drainage on slopes

SAM Check Valve

Tight seal eliminates leaks, avoids erosion.



3) Reduces run times 35%

HEVAN High Efficiency Nozzle

Defined streams produce larger, wind-resistant drops that cover evenly in any pattern.



1804HEVNPR

Features

Spray distance up to 15'

Pressure range: 15 to 70 psi

Pop-up height: 4"

1/2" bottom inlet



Features

Professional grade sprinklers equipped with our highest efficiency nozzles

Superior coverage uniformity helps reduce run time up to 35%, conserving water

Choice of HEVAN adjustable arc or Dual Spray™ fixed patterns

Spray distance up to 15'

Pressure range: 15 to 30 psi

1/2" bottom inlet

HIGH EFFICIENCY 1800® SERIES SPRAYS HEVAN & DUAL SPRAY™ NOZZLES

- » High efficiency nozzles
- » Professional Grade sprinkler
- » Up to 35% water savings



HEVAN Pop-Up Sprays

Water saving efficiency plus full 0° - 360° adjustability

Defined streams produce larger, wind-resistant drops that cover evenly in any pattern

Pop-up height: 2" or 4"



0-360°



1802
HEVAN

1804
HEVAN



Dual Spray™ Pop-Up Sprays

Dual orifices eliminate gaps close to the spray

Minimizes dry, brown spots

Pop-up height: 2", 3" or 4"



360° 180° 90°

Standard



1802
Dual Spray™

1803
Dual Spray™

1804
Dual Spray™



PROFESSIONAL GRADE 1800® SERIES SPRAYS **PROVEN DEPENDABILITY**

- » Top selling pop-up spray head in the world
- » Exclusive co-molded wiper seal
- » Heavy duty stainless steel spring ensures stem retracts every cycle

Pop-Up Sprays
& Nozzles

Features

Preferred by irrigation professionals for dependable performance

All models include Matched Precipitation Rate (MPR) nozzles to allow sprinklers with different patterns to be mixed on the same zone

Available with or without nozzles for installation flexibility

Pop-up height: 2", 3", 4", 6" or 12"

MPR Nozzles

1/2" bottom inlet & side inlet on 6" or 12"



Exclusive pressure-activated wiper seal resists high pressures and grit



1802LN, 1804LN, 1803LN
Without nozzles



1802F

1803VAN

1804Q

1806AP/1812AP



RESIDENTIAL GRADE SURE POP® SERIES PRECISION WATERING

- » Economical spray heads with Rain Bird® reliability
- » Full selection of special patterns for irregularly shaped watering areas
- » Pop-up mechanism works at low water pressure

Features

Available in 2.5" and 4" popup heights for different grass varieties

All models include Matched Precipitation Rate (MPR) nozzles to allow sprinklers with different patterns to be mixed on the same zone

Simple top adjustment for arc and radius

Spray distance up to 15'

1/2" inlet size



SP25H

SP25Q

SP40F

SP40AP

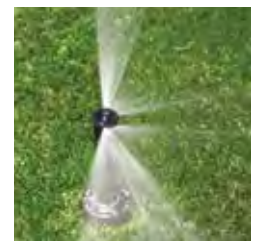
Special Pattern Sprays



Center Strip Pattern
MPR Nozzle



End Strip Pattern
MPR Nozzle



Side Strip Pattern
MPR Nozzle



SPRAY HEAD NOZZLES

HEVAN, DUAL SPRAY™, MPR, 17 SERIES, 1300

» Choice of efficiency ratings, spray patterns and distances for all applications

» Filter screen included

Pop-Up Sprays
& Nozzles

Series + Features

HEVAN Series, High Efficiency and Adjustable

35%
WATER
SAVINGS



- Up to 35% water savings compared to standard adjustable nozzles
- Adjustability and efficiency in one nozzle
- Large, wind-resistant drops cover evenly

Dual Spray™ Series



- Dual Spray nozzles for superior close-in coverage
- Saves water and eliminates brown spots
- Compatible with all Rain Bird Pop-up sprinklers

MPR Series, Matched Precipitation Rate



- Even coverage
- Adjustable screw distance
- Compatible with all Rain Bird Pop-up sprinklers

17 Series, Shrub Nozzles – Riser Mounted



- MPR nozzles for even coverage
- Mounts on male 1/2" risers
- Adjustable distance screw

13 Series, Bubbler – Riser Mounted



- Mounts on male 1/2" risers

Model	Pattern	Distance	Area	Flow Rate
HEVAN-08	0–360°	6–8'	Lawn or shrubs	Low
HEVAN-10	0–360°	8–10'		
HEVAN-12	0–360°	9–12'		
HEVAN-15	0–360°	12–15'		
12DSF	360°	9–12'	Lawn or shrubs	Low
12DSH	180°	9–12'		
12DSQ	90°	9–12'		
18APC1	0–360°	14–18'	Lawn or shrubs	Low-Medium
15APC1	0–360°	12–15'		
15FC1	360°	12–15'		
15HC1	180°	12–15'		
15QC1	90°	12–15'		
15CSTC1	Center Strip	3' x 20' – 4' x 30'		
15ESTC1	End Strip	3' x 10' – 4' x 15'		
15SQC1	Square	14' x 14' – 23' x 23'		
15SSTC1	Side Strip	3' x 20' – 4' x 30'		
15TC1	1/3 Circle	12–15'		
15TQC1	3/4 Circle	12–15'		
15TTC1	2/3 Circle	12–15'		
12APC1	0–360°	9–12'		
12FC1	360°	9–12'		
12HC1	180°	9–12'		
12QC1	90°	9–12'		
95STC1	Side Strip	3' x 20' – 4' x 30'		
8FC1	360°	6–8'		
8HC1	180°	6–8'		
8QC1	90°	6–8'		
A17APC1	0–360°	12–15'	Flowers or shrubs	Low
A17FC1	360°	12–15'		
A17HC1	180°	12–15'		
A17QC1	90°	12–15'		
A17CSTC1	Center Strip	3' x 20' – 4' x 30'	Flowers or shrubs	Medium
A17ESTC1	End Strip	3' x 10' – 4' x 15'		
A17SSTC1	Side Strip	3' x 20' – 4' x 30'		
1300	360°	1–3'	Flowers or shrubs	Medium

HE-VAN 8 Series 24° Trajectory					
Nozzle	Pressure (PSI)	Radius (Feet)	Flow (GPM)	Precip In/h	Precip In/h
	15	5	0.83	3.19	3.68
	20	6	0.96	2.56	2.95
	25	7	1.07	2.10	2.42
	30	8	1.17	1.76	2.03
	15	5	0.62	3.19	3.68
	20	6	0.72	2.56	2.95
	25	7	0.80	2.10	2.42
	15	5	0.41	3.19	3.68
	20	6	0.48	2.56	2.95
	25	7	0.53	2.10	2.42
	15	5	0.21	3.19	3.68
	20	6	0.24	2.56	2.95
	25	7	0.27	2.10	2.42
	30	8	0.29	1.76	2.03

HE-VAN 10 Series 27° Trajectory					
Nozzle	Pressure (PSI)	Radius (Feet)	Flow (GPM)	Precip In/h	Precip In/h
	15	7	1.26	2.48	2.86
	20	8	1.46	2.19	2.53
	25	9	1.63	1.94	2.24
	30	10	1.78	1.72	1.98
	15	7	0.95	2.48	2.86
	20	8	1.09	2.19	2.53
	25	9	1.22	1.94	2.24
	15	7	0.63	2.48	2.86
	20	8	0.73	2.19	2.53
	25	9	0.81	1.94	2.24
	15	7	0.32	2.48	2.86
	20	8	0.36	2.19	2.53
	25	9	0.41	1.94	2.24
	30	10	0.45	1.72	1.98

HE-VAN 12 Series 23° Trajectory					
Nozzle	Pressure (PSI)	Radius (Feet)	Flow (GPM)	Precip In/h	Precip In/h
	15	9	1.67	1.99	2.30
	20	10	1.93	1.86	2.15
	25	11	2.16	1.72	1.99
	30	12	2.37	1.58	1.83
	15	9	1.25	1.99	2.30
	20	10	1.45	1.86	2.15
	25	11	1.62	1.72	1.99
	15	9	0.84	1.99	2.30
	20	10	0.97	1.86	2.15
	25	11	1.08	1.72	1.99
	15	9	0.42	1.99	2.30
	20	10	0.48	1.86	2.15
	25	11	0.54	1.72	1.99
	30	12	0.59	1.58	1.83

HE-VAN 15 Series 25° Trajectory					
Nozzle	Pressure (PSI)	Radius (Feet)	Flow (GPM)	Precip In/h	Precip In/h
	15	11	2.62	2.08	2.40
	20	12	3.02	2.02	2.33
	25	14	3.38	1.66	1.92
	30	15	3.70	1.58	1.83
	15	11	1.96	2.08	2.40
	20	12	2.27	2.02	2.33
	25	14	2.53	1.66	1.92
	15	11	1.31	2.08	2.40
	20	12	1.51	2.02	2.33
	25	14	1.69	1.66	1.92
	15	11	0.65	2.08	2.40
	20	12	0.76	2.02	2.33
	25	14	0.84	1.66	1.92
	30	15	0.93	1.58	1.83

Dual Spray™ 12 Series 23° Trajectory					
Nozzle	Pressure (PSI)	Radius (Feet)	Flow (GPM)	Precip In/h	Precip In/h
	15	9	1.80	2.14	2.47
	20	10	2.10	2.02	2.34
	25	11	2.40	1.91	2.21
	30	12	2.60	1.74	2.01
	15	9	0.90	2.14	2.47
	20	10	1.05	2.02	2.34
	25	11	1.20	1.91	2.21
	15	9	0.45	2.14	2.47
	20	10	0.53	2.02	2.34
	25	11	0.60	1.91	2.21
	30	12	0.65	1.74	2.01

MPR Specialty Nozzles			
Nozzle	Pressure (PSI)	Radius (Feet)	Flow (GPM)
	15	18 x 18	2.68
	20	19 x 19	3.06
	25	21 x 21	3.42
	30	23 x 23	3.73
	15	4 x 13	0.45
	20	4 x 14	0.50
	25	4 x 14	0.56
	30	4 x 15	0.61
	15	4 x 26	0.89
	20	4 x 28	1.00
	25	4 x 28	1.11
	30	4 x 30	1.21
	15	4 x 26	0.89
	20	4 x 28	1.00
	25	4 x 28	1.11
	30	4 x 30	1.21
	15	9 x 15	1.34
	20	9 x 16	1.47
	25	9 x 18	1.60
	30	9 x 18	1.73

■ Square spacing based on 50% diameter of throw.
▲ Triangular spacing based on 50% diameter of throw.
Performance data collected in zero wind conditions.

* Turn nozzle screw clockwise to reduce spray distance up to 25%.

MPR 8 Series 10° Trajectory					
Nozzle	Pressure (PSI)	Radius (Feet)	Flow (GPM)	Precip In/h	Precip In/h
	15	5	0.74	2.85	3.29
	20	6	0.86	2.30	2.66
	25	7	0.96	1.89	2.18
	30	8	1.05	1.58	1.82
	15	5	0.37	2.85	3.29
	20	6	0.42	2.25	2.59
	25	7	0.47	1.85	2.13
	30	8	0.52	1.56	1.81
	15	5	0.18	2.77	3.20
	20	6	0.21	2.25	2.59
	25	7	0.24	1.89	2.18
	30	8	0.26	1.56	1.81

MPR 12 Series 30° Trajectory					
Nozzle	Pressure (PSI)	Radius (Feet)	Flow (GPM)	Precip In/h	Precip In/h
	15	9	1.80	2.14	2.47
	20	10	2.10	2.02	2.34
	25	11	2.40	1.91	2.21
	30	12	2.60	1.74	2.01
	15	9	0.90	2.14	2.47
	20	10	1.05	2.02	2.34
	25	11	1.20	1.91	2.21
	30	12	1.30	1.74	2.01
	15	9	0.45	2.14	2.47
	20	10	0.53	2.02	2.34
	25	11	0.60	1.91	2.21
	30	12	0.65	1.74	2.01

MPR 15 Series 30° Trajectory					
Nozzle	Pressure (PSI)	Radius (Feet)	Flow (GPM)	Precip In/h	Precip In/h
	15	11	2.60	2.07	2.39
	20	12	3.00	2.01	2.32
	25	14	3.30	1.62	1.87
	30	15	3.70	1.58	1.83
	15	11	1.30	2.07	2.39
	20	12	1.50	2.01	2.32
	25	14	1.65	1.62	1.87
	30	15	1.85	1.58	1.83
	15	11	0.65	2.07	2.39
	20	12	0.75	2.01	2.32
	25	14	0.82	1.62	1.87
	30	15	0.92	1.58	1.83

1300 Series		
Nozzle	Pressure (PSI)	Flow (GPM)
	10	1.0
	20	1.4
	30	1.7
	40	1.9
	50	2.1
	60	2.3

AP 12 Series 15° Trajectory					
Nozzle	Pressure (PSI)	Radius (Feet)	Flow (GPM)	Precip In/h	Precip In/h
	15	9	1.56	1.86	2.14
	20	10	1.86	1.79	2.06
	25	11	2.12	1.68	1.95
	30	12	2.36	1.58	1.82
	15	9	1.17	1.86	2.14
	20	10	1.39	1.79	2.06
	25	11	1.59	1.68	1.94
	30	12	1.77	1.58	1.82
	15	9	0.78	1.86	2.14
	20	10	0.93	1.79	2.06
	25	11	1.06	1.68	1.95
	30	12	1.18	1.58	1.82
	15	9	0.39	1.86	2.14
	20	10	0.46	1.79	2.06
	25	11	0.53	1.68	1.95
	30	12	0.59	1.58	1.82

AP 15 Series 23° Trajectory					
Nozzle	Pressure (PSI)	Radius (Feet)	Flow (GPM)	Precip In/h	Precip In/h
	15	11	2.60	2.07	2.39
	20	12	3.00	2.01	2.32
	25	14	3.30	1.62	1.87
	30	15	3.70	1.58	1.83
	15	11	1.95	2.07	2.39
	20	12	2.25	2.01	2.32
	25	14	2.48	1.62	1.87
	30	15	2.78	1.58	1.83
	15	11	1.30	2.07	2.39
	20	12	1.50	2.01	2.32
	25	14	1.65	1.62	1.87
	30	15	1.85	1.58	1.83
	15	11	0.65	2.07	2.39
	20	12	0.75	2.01	2.32
	25	14	0.82	1.62	1.87
	30	15	0.92	1.58	1.83

AP 18 Series 26° Trajectory					
Nozzle	Pressure (PSI)	Radius (Feet)	Flow (GPM)	Precip In/h	Precip In/h
	15	14	4.21	2.07	2.39
	20	15	4.70	2.01	2.32
	25	17	4.86	1.62	1.87
	30	18	5.32	1.58	1.83
	15	14	3.16	2.07	2.39
	20	15	3.52	2.01	2.32
	25	17	3.65	1.62	1.87
	30	18	3.99	1.58	1.83
	15	14	2.11	2.07	2.39
	20	15	2.35	2.01	2.32
	25	17	2.43	1.62	1.87
	30	18	2.66	1.58	1.83
	15	14	1.05	2.07	2.39
	20	15	1.17	2.01	2.32
	25	17	1.22	1.62	1.87
	30	18	1.33	1.58	1.83

■ Square spacing based on 50% diameter of throw.
▲ Triangular spacing based on 50% diameter of throw.
Performance data collected in zero wind conditions.

* Turn nozzle screw clockwise to reduce spray distance up to 25%.

Model	Pop Up Height	Spray Pattern	Spray Distance	Case Pack
1800® SERIES HIGH EFFICIENCY ADJUSTABLE PATTERN HE-VAN				



1804HEVNPR	4"	0-360°	12'-15'	25
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1802HEVN15	2"	0-360°	12'-15'	18
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1804HEVN15	4"	0-360°	12'-15'	18
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Model	Pop Up Height	Spray Pattern	Spray Distance	Case Pack
1800® SERIES HIGH EFFICIENCY FIXED PATTERN DUAL SPRAY				



1802FDS	2"	360°	12'-15'	18
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1802HDS	2"	180°	12'-15'	18
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1802QDS	2"	90°	12'-15'	18
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1803DSF	3"	360°	12'-15'	18
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1803DSH	3"	180°	12'-15'	18
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1803DSQ	3"	90°	12'-15'	18
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1804FDS	4"	360°	12'-15'	36
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1804FDS-25	4"	360°	12'-15'	25
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1804HDS	4"	180°	12'-15'	36
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1804HDS-25	4"	180°	12'-15'	25
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1804QDS	4"	90°	12'-15'	36
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1804QDS-25	4"	90°	12'-15'	25
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Model	Pop Up Height	Spray Pattern	Spray Distance	Case Pack
1800® SERIES PROFESSIONAL GRADE				



1802F	2"	360°	12'-15'	36
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1802F-25	2"	360°	12'-15'	25
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1802H	2"	180°	12'-15'	36
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1802H-25	2"	180°	12'-15'	25
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1802Q	2"	90°	12'-15'	36
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1802Q-25	2"	90°	12'-15'	25
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1802VAN	2"	0-360°	12'-15'	36
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1802VANS	2"	0-360°	12'-15'	18
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1802AP-25	2"	0-360°	12'-15'	25
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		Model	Pop Up Height	Spray Pattern	Spray Distance	Case Pack
1800° SERIES		PROFESSIONAL GRADE				
		1804F	4"	360°	12'-15'	36
		1804F-25	4"	360°	12'-15'	25
		1804H	4"	180°	12'-15'	36
		1804H-25	4"	180°	12'-15'	25
		1804Q	4"	90°	12'-15'	36
		1804Q-25	4"	90°	12'-15'	25
		1804VAN	4"	0-360°	12'-15'	36
		1804AP-25	4"	0-360°	12'-15'	25
		1806AP	6"	0-360°	12'-15'	24
		1812AP	12"	0-360°	12'-15'	24
1800° SERIES		LESS NOZZLES (LN)				
		1802LN	2"	—	—	36
		1803LN	3"	—	—	36
		1804LN	4"	—	—	36
SURE POP® SERIES		RESIDENTIAL GRADE				
		SP25F	2.5"	360°	12'-15'	72
		SP25F-25	2.5"	360°	12'-15'	25
		SP25FS	2.5"	360°	12'-15'	24
		SP25H	2.5"	180°	12'-15'	72
		SP25H-25	2.5"	180°	12'-15'	25
		SP25HS	2.5"	180°	12'-15'	24
		SP25Q	2.5"	90°	12'-15'	72
		SP25Q-25	2.5"	90°	12'-15'	25
		SP25QS	2.5"	90°	12'-15'	24
		SP25AP	2.5"	0-360°	12'-15'	72
		SP25AP-25	2.5"	0-360°	12'-15'	25
		SP25APS	2.5"	0-360°	12'-15'	24

	Model	Pop Up Height	Spray Pattern	Spray Distance	Case Pack
SURE POP® SERIES	RESIDENTIAL GRADE				
	 SP40F	4"	360°	12'-15'	54
	SP40F-25	4"	360°	12'-15'	25
	SP40FS	4"	360°	12'-15'	27
	 SP40H	4"	180°	12'-15'	54
	SP40H-25	4"	180°	12'-15'	25
	SP40HS	4"	180°	12'-15'	27
	 SP40Q	4"	90°	12'-15'	54
	SP40Q-25	4"	90°	12'-15'	25
	SP40QS	4"	90°	12'-15'	27
	SP40AP	4"	0-360°	12'-15'	54
	SP40AP-25	4"	0-360°	12'-15'	25
	SP40APS	4"	0-360°	12'-15'	27
SURE POP® SERIES	SPECIAL PATTERNS				
	 SP25CSTS	2.5"	Center Strip	4' x 30'	12
	 SP25ESTS	2.5"	End Strip	4' x 15'	12
	 SP25SSTS	2.5"	Side Strip	4' x 30'	12
	 SP40CSTS	4"	Center Strip	4' x 30'	12
	 SP40ESTS	4"	End Strip	4' x 15'	12
	 SP40SSTS	4"	Side Strip	4' x 30'	12

	Model	Nozzle Distance	Pattern	Case Pack
HEVAN NOZZLES HIGH EFFICIENCY ADJUSTABLE PATTERN				
	HEVAN08	6'-8'	0-360°	25
	HEVAN10	8'-10'	0-360°	25
	HEVAN12	9'-12'	0-360°	25
	HEVAN15	12'-15'	0-360°	25
DUAL SPRAY™ NOZZLES HIGH EFFICIENCY FIXED PATTERN				
	12DSF	12'-15'	360°	25
	12DSH	12'-15'	180°	25
	12DHQ	12'-15'	90°	25
MPR NOZZLES MATCHED PRECIPITATION RATE				
	8FC1	6'-8'	360°	25
	8HC1	6'-8'	180°	25
	8QC1	6'-8'	90°	25
	12FC1	9'-12'	360°	25
	12HC1	9'-12'	180°	25

	Model	Nozzle Distance	Pattern	Case Pack	
MPR NOZZLES	MATCHED PRECIPITATION RATE				
		12QC1	9'–12'	90°	25
		12AP	9'–12'	0–360°	25
		15FC1	12'–15'	360°	25
		15HC1	12'–15'	180°	25
		15QC1	12'–15'	90°	25
		15AP	12'–15'	0–360°	25
		18AP	14'–18'	0–360°	25
MPR NOZZLES	SPECIAL PATTERN				
		9SSTC1	9' x 18'	Side Strip	25
		15CSTC1	4' x 30'	Center Strip	25
		15ESTC1	4' x 15'	End Strip	25
		15SSTC1	4' x 30'	Side Strip	25
		15TC1	12'–15'	One Third	25

	Model	Nozzle Distance	Pattern	Case Pack
MPR NOZZLES SPECIAL PATTERN				
	15TTC1	12'-15'	Two Thirds	25
	15TQC1	12'-15'	Three Quarters	25
	15SQC1	12'-15'	Three Quarters	25
17 SERIES SHRUB NOZZLES				
	A17F	12'-15'	360°	25
	A17H	12'-15'	180°	25
	A17Q	12'-15'	90°	25
	A17AP	12'-15'	0-360°	25
	A17CST	4' x 30'	Center Strip	25
	A17EST	4' x 15'	End Strip	25
	A17SST	4' x 30'	Side Strip	25
13 SERIES BUBBLER				
	1300	1'-3'	360° Bubbler	25

A Typical Residential Underground Sprinkler System

To ensure that proper amounts of water are applied in all sections of the lawn, use sprinklers matched to the coverage area. Small areas can be watered with pop-up sprays rated for 8 to 15 feet throw distance. For medium areas from 13 to 24 feet, use multi-stream rotary sprinklers. And larger areas up to 50 feet are best served with rotors and impact sprinklers. For assistance with sprinkler selection and general system design, take advantage of the free Rain Bird Design Service (page 105).

Pop-Up Sprays
& Nozzles

